Dwijendra Narain Pandey

CONTACT
INFORMATION

Room No. 005, MCA Block
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Department of Mathematics   *Voice:* 091-1332-285735
Indian Institute of Technology   *E-mail:* dwijpfma@iitr.ernet.in,   drdwij.iitk@gmail.com
Roorkee,
Roorkee-247667,   Uttarakhand,
India

Current Status

Assistant Professor
- Department of Mathematics
  Indian Institute of Technology Roorkee,
  Roorkee-247667, Uttarakhand, India

Teaching Experience:

- The LNMIIT Jaipur, Rajasthan, India (July 2010 to Dec 2010).
- BITS Pilani Goa campus, Goa, India (August 2009-July 2010).

RESEARCH INTERESTS

- Functional Differential Equation
- Theory of Semigroups of Operators
- Fractional Differential equations
- Numerical methods for solving Differential equations

EDUCATION

- Doctor of Philosophy
  Department of Mathematics and Statistics, IIT Kanpur., Kanpur
  Thesis Title: Functional evolution equations of integral and fractional orders
  8.33 CPI, in the year 2010

- M. Sc. (Mathematics)
  Department of Mathematics and Statistics, IIT Kanpur., Kanpur
  8.2 CPI, in the year 2003

- B. Sc. (Mathematics, Physics and Chemistry)
  C.S.J.M.University , Kanpur
  1st Div. (75.6), in the year 2001

- Intermediate (class 10+2)
  U.P. Board, Allahabad
  1st Div.(71.6), in the year 1998

- High School (class 10)
  U.P. Board, Allahabad
  1st Div.(74.3), in the year 1996

Research Work:

2007

1. Advanced type coupled matrix Riccati differential equation systems with Kronecker product
   by D. Bahuguna, Amit Ujlayan and D.N. Pandey.
   (Applied Mathematics and Computation, Volume 194, Issue 1, 1 December 2007, Pages 46-53).
   (Impact factor: 1.124)

2. Second-order integrodifferential equation with nonautonomous operators, by D. Bahuguna, D.N. Pandey, and Amit Ujlayan .
(Differential Integral Equations 20 (2007), no. 6, 681-692).

2008

3. Nonlocal Semilinear Hyperbolic Integro-differential Equations in Banach Spaces by D. Bahuguna, D.N. Pandey, and Amit Ujlayan.
(International Journal of Applied Mathematics Statistics Vol. 13; No. S08; September 2008; 21-30)

2009

4. Non autonomous nonlinear integro-differential equations with infinite delay by D.Bahuguna, D.N. Pandey and Amit Ujlayan.
(Nonlinear Analysis: Theory, Methods and Applications, Volume 70, Issue 7, Pages 2642-2653).

5. A comparative study of numerical method for solving intgegro-differential equation by D. Bahuguna, Amit Ujlayan and D.N. Pandey,
(Computers and Mathematics with Applications, 57(9), May 2009, 1485-1493).

6. ADM series solution to a nonlocal one-dimensional heat equation by D. Bahuguna, Amit Ujlayan and D.N. Pandey.
(International Mathematical Forum, 4, 2009, no. 12, 581 - 585)

7. On a solution to fractional order integrodifferential equations with analytic semigroups" by D.Bahuguna, D.N. Pandey and Amit Ujlayan .
(Nonlinear Analysis: Theory, Methods and Applications, Volume 71, Issue 9, Pages 3690-3698)

8. Method of Kronecker Product to Advanced type Riccati Differential Systems with Quadratic term by D.Bahuguna, Amit Ujlayan and D.N. Pandey.
(Computers and Mathematics with Applications, 58(8), October 2009, Pages 1615-1622)

2010

9. Semilinear hyperbolic integrodifferential equations with nonlocal conditions by D.Bahuguna, D.N. Pandey and Amit Ujlayan .
(Nonlinear Dynamics and Systems Theory, 10 (1), (2010) 77- 92)

10. On a nonlinear abstract neutral differential equations with deviated argument by D.N. Pandey, Amit Ujlayan and D.Bahuguna.
(Nonlinear Dynamics and systems Theory, 10 (2010), no. 3, 283-294.)

2011

11. Existence of solutions to a non-autonomous abstract neutral differential equation with deviated argument by Haloi, Rajib; Pandey, Dwijendra N.; Bahuguna, D.
(J. Nonl. Evol. Equ. Appl. 2011 (5), pp. 75-90.)

2012

12. Existence and uniqueness of solutions for quasi-linear differential equations with deviating arguments by Haloi, Rajib; Bahuguna, Dhirendra; Pandey, Dwijendra N.
(Electron. J. Differential Equations 2012, No. 13, 10 pp.)

13. Existence and uniqueness of a solution for a non-autonomous semilinear integro-differential equation with deviated argument by Haloi, Rajib; Pandey, Dwijendra N.; Bahuguna, D. (Differ. Equ. Dyn. Syst. 20 (2012), no. 1, 1-16)

14. Existence, uniqueness and asymptotic stability of solutions to non-autonomous semi-linear differential equations with deviated arguments by Haloi, Rajib; Pandey, Dwijendra N.; Bahuguna, D.(Nonlinear Dynamics and systems Theory,12 (2012), no. 2, 179-191.)

2013

15. On the new concept of solutions and existence results for impulsive functional differential equations with iterated deviating arguments by Pradeep Kumar, Dwijendra N. Pandey, Dhirendra Bahuguna.
(Electron. J. Differential Equations Vol. 2013, No. 241, pp. 1-15.)

16. Approximation of a solution of a semilinear evolution equations with a deviated argument by Pradeep Kumar, Dwijendra N. Pandey, D. Bahuguna.
(J. Nonl. Evol. Equ. Appl. 2013 (9), pp. 111-128)

2014

17. Approximation of a solution for a Sobolev type fractional order differential equation by Alka, Dwijendra N. Pandey
(Nonlinear Dynamics and Systems Theory, 14 (1) (2014) 11-29)

18. Sufficient conditions for the existence and uniqueness of solutions to impulsive fractional integro-differential equations with deviating arguments by Rajib Haloi, Pradeep Kumar, Dwijendra N. Pandey
(Journal of Fractional Calculus and Applications 5(1) (2014), no. 7, 73-84.)

19. Impulsive boundary value problems for fractional differential equations with deviating arguments by Pradeep Kumar, D. N. Pandey and D. Bahuguna
(Journal of Fractional Calculus and Applications, Vol. 5(1) Jan. 2014, pp. 146-155.)

20. On a new class of abstract impulsive functional differential equations of fractional order by P. Kumar, D. N. Pandey and D. Bahuguna
(The Journal of Nonlinear Science and Applications, 7 (2014), 102-114)

21. Existence Results for an Impulsive Neutral Fractional Integrodifferential Equation with Infinite Delay, Alka Chadha and Dwijendra N. Pandey
(International Journal of Differential Equations Volume 2014 (2014), Article ID 780636, 10 pages)

22. Existence of the Mild Solution for Impulsive Semilinear Differential Equation, Alka Chadha and Dwijendra N. Pandey
(International Journal of Partial Differential Equations Volume 2014 (2014), Article ID 640931, 8 pages)

23. Existence, Uniqueness and Approximation of Solution for the Fractional Semilinear Integro-differential Equation by Alka Chadha and Dwijendra N. Pandey
(Int. J. Appl. Math. Stat.; Vol. 52; Issue No. 3;2014, 73-89.)

24. Existence Result for an Impulsive Neutral Integro-differential Equation with Infinite Delay via Fractional operators, by Alka Chaddha and Dwijendra N Pandey,
Malaya Journal of Matematik : Volume 2, Issue 3, 2014, Pages:203-214

25. Exact Controllability of an Impulsive Semilinear System with Deviated Argument in a Banach Space, by Sanjukta Das, Dwijendra N Pandey and Nagarajan Sukavanam
Journal of Difference Equations Volume 2014, Article ID 461086, 6 pages.

26. Approximations of solutions to a retarded type fractional differential equation with a deviated argument by Pradeep Kumar, Dwijendra N. Pandey, D. Bahuguna.
(J. Integral Equations Applications Volume 26, Number 2 (2014), 215-242.)

27. Existence of a solution for history valued neutral fractional differential equation with a nonlocal condition by Alka Chaddha and Dwijendra N Pandey,
J. Nonl. Evol. Equ. Appl. 2014 (2), pp. 13-28.

28. Sanjukta Das, D. N. Pandey and N. Sukavanam, "Existence of Solution and Approximate Controllability for Neutral Differential Equation with State Dependent Delay", International Journal of Partial Differential Equations, Hindawi, Volume 2014, Article ID 787092, 12 pages.

29. Sanjukta Das, D. N. Pandey, N. Sukavanam, "Existence of Solution for a Second-Order Neutral Differential Equation with State Dependent Delay and Non-instantaneous Impulses", International Journal of Nonlinear Science, World Scientific, Vol.18(2014) No.2, pp.145-155.

2015

30. Existence of a mild solution for an impulsive neutral fractional integrodifferential equation with nonlocal conditions by Alka Chaddha and Dwijendra N Pandey,
(Journal of Fractional Calculus and Applications Vol. 6(1), 2015, pp. 5-20.)

31. Approximations of solutions for a nonlinear differential equation with a deviating argument by D. N. Pandey, P. Kumar and D. Bahuguna
(Applied Mathematics and Computation, 261, 2015, 242-251).
(Impact factor: 1.124)

32. "Existence of a Mild Solution for Impulsive Neutral Fractional Differential Equations with Nonlocal Conditions", by Chadha, A. and Pandey, D.N., *Differential Equations with Applications*, 7(2015), 151-168.

33. "Existence and Approximation of Solution to Neutral Fractional Differential Equation with Nonlocal Conditions", by Chadha, A. and Pandey, D.N. , *Computers & Mathematics with Applications*, 69, 2015, 893-908.(Elsvier publication).

34. Approximate controllability of an impulsive retarded fractional stochastic differential equation with deviated argument and infinite delay by Sanjukta Das, D. N. Pandey, N. Sukavanam Nonlinear Studies, 22(1), 2015 115-130.

35. Sanjukta Das, D. N. Pandey, and N. Sukavanam, "Approximations of Solutions to Neutral Retarded Integro-differential Equations", Journal of Nonlinear Evolution Equations and Applications, 2015, 4, 4765.

36. Sanjukta Das, D. N. Pandey, and N. Sukavanam, "Approximate Controllability of an Impulsive Stochastic Delay Differential Equations", Journal of Advanced Research in Dynamical and Control Systems 09/2015; 7(3):78-95.

37. Sanjukta Das, D. N. Pandey, and N. Sukavanam, "Approximations of Solutions of a Fractional Stochastic Differential Equations with Deviated Argument", Journal of Fractional Calculus and Applications, 6(2), 2015, pp. 160-170.

38. Chadha, A. and Pandey, D.N. (2015), "Approximations of Solutions for a Nonlocal Fractional Integro-Differential Equation with Deviated Argument", J. Appl. Math. and Informatics Vol. 33(2015), No. 5 - 6, pp. 699 - 721.

39. Approximate controllability of semilinear system with state delay using sequence method, A Shukla, N Sukavanam, DN Pandey Journal of the Franklin Institute 352 (11), 5380-5392.

40. Chadha, A. and Pandey, D.N. (2015), Mild solutions for non-autonomous impulsive semi-linear differential equations with iterated deviating arguments, Electron. J. Diff. Equ., Vol. 2015 (2015), No. 222, pp. 1-14.

41. Existence results for an impulsive neutral stochastic fractional integro-differential equation with infinite delay by A Chadha, DN Pandey,
Nonlinear Analysis: Theory, Methods and Applications 128, 2015, 149-175.

2016

42. Mild solution for impulsive neutral fractional partial differential inclusions with nonlocal conditions by 1A Chadha, DN Pandey
Collectanea Mathematica 67 (1),2016, 85-111

Accepted

1. Approximate controllability of a second-order neutral differential equation with state dependent delay by Sanjukta Das, Dwijendra N Pandey and Nagarajan Sukavanam
Differential Equations and Dynamical Systems Accepted manuscript 2014.

2. Sanjukta Das, D. N. Pandey, and N. Sukavanam, "Approximate Controllability of a Fractional Neutral System with Deviated Argument in Banach Space", Differential Equations and Dynamical Systems, Springer, DOI: 10.1007/s12591-015-0237-y.

3. Chadha, A. and Pandey, D.N. (2015), "Existence of the Mild Solution for Impulsive Neutral Stochastic Fractional Integro-Differential Inclusions with Nonlocal Conditions", *Mediterranean Journal of Mathematics*, Accepted.

4. Anurag Shukla, N. Sukavanam and D.N.Pandey, Complete Controllability of Semilinear Stochastic Systems with delay in both state and control, Accepted for Publiacation in Mathematical Reports.

5. Chadha, A. and Pandey, D.N. (2015), "Faedo-Galerkin approximation of solution for a nonlocal neutral fractional differential equation with deviating argument", *Mediterranean Journal of Mathematics*, Accepted.

6. Approximate Controllability of Semilinear Fractional Control Systems of Order $\alpha \in (1, 2]$ with Infinite Delay by Anurag Shukla, N. Sukavanam and D.N.Pandey, *Mediterranean Journal of Mathematics*, Accepted.

Papers in conference

1. Anurag Shukla, N. Sukavanam and D.N.Pandey, Controllability of Semilinear Stochastic System with Multiple Delays in Control, 3rd International Conference on Advances in Control and Optimization of Dynamical Systems, Vol.3, issue 1.(2014), pp.306-312.

2. Chadha, A. and Pandey, D.N.(2014), "Existence of the Solution to Initial Value Fractional Differential Equation with Integral Conditions", *International Conference on Mathematical Sciences (ICMS 2014)*, Chennai, Tamilnadu, India.

3. Chadha, A. and Pandey, D.N.(2014), "Existence of a Mild Solution for Impulsive Neutral Fractional Differential Equations with Nonlocal Conditions", *International Conference on Recent Trends in Mathematical Analysis and Its Applications*, IIT, Roorkee.

4. Anurag Shukla, N. Sukavanam and D.N.Pandey, Approximate Controllability of Semilinear Fractional Control Systems of Order $\alpha \in (1, 2]$, has been accepted for publication in the proceedings of 2015 SIAM Conference on Control and Its Applications, SIAM CT15, to be held in Maison de la Mutualit, Paris, France, on July 8-10, 2015.

5. Anurag Shukla, N. Sukavanam and D.N.Pandey, Approximate Controllability of Semilinear Stochastic System with State Delay, 1st International Conference on Recent Trends in Mathematical Analysis and Its Applications December 21-23, 2014, IIT Roorkee, India.

6. Approximation of Solutions of a Stochastic Differential Equation S Das, DN Pandey, N Sukavanam Mathematical Analysis and its Applications, 51-62.

PhD students

1. Alka: Title of the Thesis: A Study of Some Functional Differential Equations of Fractional Order. **Defended on October 30, 2015**.

2. Sanjukta:
   Title of the Thesis: A Study on Existence of Solution and Controllability of Delay Differential Systems. **Defended on November 30, 2015.**
   Co-supervisor: Prof N Sukavanam, Department of Mathematics, IIT Roorkee.

3. Anurag: Controllability of Deterministic and Stochastic Integer Order Systems.

4. Renu Rana:Existence and Approximation of Solutions to some Fractional differential Equation

5. Vikram Singh:Functional Evolution Equation.

6. Arsi Meraj: Some Controllability problems in Fractional Differential Equation

7. Hitesh Sing: Controllability of functional differential equation

Dissertations

MSc

1. A Project titled "On Solution of Non-Autonomous Evolution Equation of Parabolic Type Using Semi-Group Theory" By (Kumar Rajeev Ranjan, Roll No. 10614007)[Autumn 11-12].

2. A project titled "On Solution of Some Fractional Differential Equations Using Adomian Decomposition Method" by (Sudhir Kumar, Roll No. 10614014)[Autumn 11-12].

3. Solution of Fractional Differential Equation Using HAM And HPM (Gaurav Goyal, Roll No. 10613003)[Spring 11-12].

4. Existence and Uniqueness of Solution of a Damped Integro-Differential Equation with Integral Boundary Condition(Kumar Rajeev Ranjan, Roll No. 10614007)[Spring 11-12].

5. The Comparison of Some Numerical Methods for Solving Fractional Differential Equation (Sudhir Kumar, Roll No. 10614014)[Spring 11-12].

6. On Numerical Solutions of Some Fractional Differential Equations (Sanjay Kumar Roll No.-11613008)[Spring 12-13].

7. Study of Some Impulsive Fractional Differential Equations (Rakhi Bihari, Roll No. 11614006)[Spring 12-13].

8. A study of Adomian Decomposition Method and its Application (Ankita Shukla, Roll No. 12613004),[Spring 13-14].

9. Semigroup Methods for Evolution Problems (Rahul Rai, Roll No. 13613005, [Spring 14-15].

10. Two Coupled Oscillator Models: The Millennium Bridge(Rahul Saini, Roll No. 13613006), [Spring 14-15].

MCA

1. Backend Monitoring Of Matrimonial Search Engine Using Open source in MVC Architecture(Rahul Upadhyay Roll no. 09811028)[Spring 11-12]

2. Silent Auto-Upgrade of MaaS360 MDM Software Without Customer Intervention(Chaturbhuj Singh, Roll No. 10811008)[Spring-12-13]

3. MaaS Tools and Product Enhancements (Megha, Roll No. 10811021)[Spring-12-13]

4. Implementation and Performance evaluation of supplementary services over IMS network by Himanshu Gupta, [Spring 13-14].

Paper presented in Seminar/Conference:

1. " On numerical solution for Sobolev-type integro-differential equations with nonlocal boundary conditions" presented in WCNA-08, Orlndo, Florida, USA, during 2nd July to 9th July, 2008.

2. "On a study of non-autonomous integro-differential equation" presented in Open House-08, at Department of Mathematics and Statistics, IIT Kanpur during 4th - 6th April, 2008.

3. "Approximations of solutions to a retarded type fractional differential equation with a deviated argument"presented in National Conference on Evolution Equations: Theory, Methods and Applications -NCEETMA-2012 in IIT Kanpur during 7th-8th December, 2012

Book

Nonlocal Functional Evolution Equations: Integral and fractional orders, ISBN No. 978-3-8383-4741-7, LAP LAMBERT Academic Publishing AG and Co. KG, Germany.

Conference / Workshop

1. "National Symposium on Scientific Computing with Application to partial differential equation "(19th - 21th November, 2005) Indian Institute of Technology, Kanpur - 208016, India. (Sponsored by DST, Govt of India)

2. "Open House" - 08 (4th - 6th April, 2008), Department of Mathematics and Statistics Indian Institute of Technology, Kanpur Kanpur - 208016, India.

3. "Symposium on "Nonlinear Evolution Equations" (18th - 19th April, 2008), Department of mathematics, Indian Institute of Science, Bangalore.

4. WCNA-2008, International Federation of Nonlinear Analysts (IFNA), (2nd July - 9th July, 2008)Hyatt Grand Cypress Resort in Orlando, Florida during July 2 through July 9, 2008, USA.

5. "National Meet of Research Scholars in Mathematical Sciences"(NMRSMS-2008) Indian Institute of Technology, Kanpur - 208016, India. (Sponsored by DST, Govt of India).

6. "Homi Bhabha Birth Centenary Symposium on Hyperbolic Partial Differential Equation and related topics Dates": 20 -24th July 2009 ,Venue : TIFR-CAM, Yelahanka New Town, Bangalore.

7. "Solving Nonlinear Polynomial equations" (7th - 18th June, 2010), Department of mathematics, Indian Institute of Science, Bangalore.

8. National Conference on Evolution Equations: Theory, Methods and Applications -NCEETMA-2012 in IIT Kanpur during 7th-8th December, 2012.

Projets

Co-PI for the project "Dynamic modeling for transmission and control of dengue epidemic" with PI Prof Sunita Gakkhar.

Lecturs

1. QIP program on Mathematical Computations Using Software Tools, I.I.T. Roorkee during 1.07.2013 to 5.07.2013.

2. QIP program on Orthogonal Polynomials and Special Functions (using Mathematical Software)I.I.T. Roorkee during July 08, 2013 to July 12, 2013.

3. Dynamical Systems and Control, QIP Short Term Course during 29th June to 03 rd July 2015 at IIT Roorkee.

Courses Done at IIT Kanpur (During PhD):

- Approximation Theory
- Applied Matrix Theory
- Complex Analytic Dynamics and Fractals
- Analysis
- Numerical solution of Partial Differential Equations
- Fourier Analysis

Teaching/Tutorials:

IITK

- MTH 102(Complex Analysis and Linear Algebra)
  [4 times in IIT Kanpur as a tutor]
- MTH 203(Elementary Ordinary and Partial Differential Equation)
  [4 times in IIT Kanpur as a tutor]

BITS-Pilani-GOA

- Math 2 (Complex Analysis and Linear Algebra)
- Math 3 (Elementary Ordinary and Partial Differential Equation)

LNMIIT, Jaipur

Linear Algebra [Autumn 10-11]

IITR

- MA 001(Mathematics-I)[autumn 13-14]
- MA 101(Mathematics-I)[autumn 11-12,12-13]
- MA 102 (Mathematics-II)[spring 10-11,11-12,12-13]
- MA 506 (Theory of PDE)[spring 12-13, 13-14]
- MA 553 (ODE and PDE)[autumn 12-13]
- MA 501 (Theory of ODE)[Autumn 11-12,12-13,13-14, 14-15]
- MA 613 (Applied Functional Anlaysis)[Autumn 14-15]
- MA 903 (Theory of ODE and PDE)to PhD students [spring 10-11, autumn 11-12, spring 11-12, spring 13-14, Spring 14-15]

Administrative responsibilities	• Deputy superintendent examination: Jan 2011 to April 2014
	• Superintendent examination: April 2014- till Date
	• Dypty OC Time table: One semester
	• Program Officer NSS

Awards:

1. Awarded MCM scholarship by IIT Kanpur in 2003 during M.Sc.
2. Qualified CSIR-JRF examination conducted jointly by Council of Scientific and Industrial Research and UGC, India in December 2005.
3. Awarded CSIR-SRF in December 2007.
4. Qualified Graduate Aptitude Test in Engineering in 2005 (AIR 35).
5. Awarded NBHM Post-Doctoral fellowship in 2009.
6. Awarded University Sains Malaysia(USM) Post-Doctoral fellowship in Sept 2010.

Computer Skills:

• Language C, Fortran
• Operating Systems WINDOWS, LINUX (elementary)
• Packages Mathematica, MATLAB

Extra Curricular Activities:

Counselling Service, IIT Kanpur

(This is a student society at IIT Kanpur which helps the needy students to cope up with the emotional/academic/financial/psychological problems.)

• Coordinator, Post Graduate Wing (2005-2006)
• Student Guide, Post Graduate Wing (2002-2003)
• Student Guide, Post Graduate Wing (2004-2005)

STAMATICS, Department of Mathematics and Statistics, IIT Kanpur

(This is a student society at Department of Mathematics and Statistics, IIT Kanpur which is responsible for weekly seminars by students and faculties and all needed to explore and sharpen the over-all talents of students.)

• President, (2002-2003)
• President, (2006-2007)

MSWC, SBRA, IIT Kanpur

(This is a student society at IIT Kanpur which is responsible for welfare of the fellow residents.)

• Secretary (2006-2007)
• Convener (2007-2008)

Vivekanand Samiti

(This is a student club at IIT Kanpur which try to raise its effort for welfare of the society.)
- member, (2002-2003)

Personal Details: Name: Dwijendra Narain Pandey

Date of Birth: July 31, 1982

Sex :   Male

Marital Status : Married

Citizenship : Indian

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Roorkee-247667 , Uttarakhand, India

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(Kanpur), PIN- 208012,
Uttar Pradesh,
INDIA

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Phone : +91-7579024682

References:

- Prof. Dhirendra Bahuguna
  Department of Mathematics and Statistics
  Indian Institute of Technology, Kanpur
  Kanpur - 208016, India.
  Phone - +91-512-2597053
  Fax - +91-512-2597500
  E-mail: dhiren@iitk.ac.in

- Prof Prawal Sinha
  Department of Mathematics and Statistics
  Indian Institute of Technology, Kanpur
  Kanpur - 208016, India.
  Office : FB516
  Phone : 91-512-2597213 (o), 2598457(R)
  Fax : 91-512-2597500
  E-mail : prawal@iitk.ac.in

- Prof N Sukavanam
  Department of Mathematics
  Indian Institute of Technology, Roorkee

Roorkee - 247667, India.
Phone : 91-01332-28 5341 (o))
E-mail : nsukvfma@iitr.ac.in

Declaration: I here by declare that all the information knowledge and belief and I promise to abide all the norms laid down by your esteemed organization. provided here is correct to the best of my knowledge.

Date   Name and Signature