EVALUATIVE REPORT

Department of Mathematics

for

ASSESSMENT AND ACCREDITATION

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
NOIDA

17 September, 2015

Evaluative Report of the Department

1. **Name of the Department**   Mathematics

2. **Year of establishment**   2001

3. **Is the Department part of a School/Faculty of the university?**

   JIIT is a unitary university. It has departments that include Department of Mathematics, and also a Business School.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

   (a)   Ph. D.

   (b)   M. Tech. (Applied and Computational Mathematics)

5. **Interdisciplinary programmes and departments involved**

   None. However, curriculum of the M. Tech (ACM) programme contains courses of other disciplines like Electronics and Communication Engineering (ECE) and Humanities and Social Sciences (HSS).

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

   None

7. **Details of programmes discontinued, if any, with reasons**

   None in the last four years

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**

   Semester, along with choice based credit system

9. **Participation of the department in the courses offered by other departments**

   Department offers courses in UG and PG Programs of other departments:

   (a) Courses offered in B. Tech programmes:

S. No.	Course Title	Beneficiary Department
1	Mathematics-I	CSE, ECE, IT, Biotech
2	Basic Mathematics-I	Biotech
3	Mathematics-II	CSE, ECE, IT, Biotech
4	Probability and Statistics	Biotech
5	Probability Theory and Random Processes	CSE, ECE, IT
6	Discrete Mathematics	CSE, ECE, IT
7	Basic Mathematics –II	Biotech
8	Applied Linear Algebra	CSE, ECE, IT, Biotech
9	Applied Numerical Methods	CSE, ECE, IT, Biotech
10	Operations Research	CSE, ECE, IT, Biotech
11	Advanced Matrix Computations	CSE, ECE, IT, Biotech

(b) Courses offered in M. Tech programs:

S. No.	Course Title	Beneficiary Department
1	Advanced Mathematics	ECE, MET
2	Applied and Computational Linear Algebra	CSE, ECE, IT
3	Functional Analysis	CSE, ECE, IT

4	Advanced Differential Equations	CSE, ECE, IT
5	Abstract Algebra and Applications	CSE, ECE, IT
6	Analytical Number Theory	CSE, ECE, IT
7	Fractals and Chaos	CSE, ECE, IT
8	Numerical Methods and Computer Programming	PMSE
9	Advanced Numerical Techniques	CSE, ECE, IT
10	Linear Statistical Models	CSE, ECE, IT
11	Advanced Optimization Techniques	CSE, ECE, IT
12	Advanced Operations Research	ECE, MET
13	Wavelets and Applications	CSE, ECE, IT
14	Automata and Theory of Computation	CSE, ECE, IT

10. **Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others)**

	Sanctioned[#]	Filled	Actual (including CAS & MPS)
Professors	4	4	4
Associate Professors	6	3	3
Asst. Professors	16	12	12
Others (Teaching Assistants)	---	---	11*

#JIIT follows flexible cadre structure like IITs
*Full time research scholars / M. Tech. students

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qual.	Desig.	Specialization	Exp. (Yrs)	Guidance (Last 4 years)
Bani Singh	Ph.D. (IIT Roorkee)	Professor and Head	Numerical Analysis, Vibrations	51	**Ph. D.** Awarded = 02 Ongoing = 04 **M. Tech.** Awarded = 03
G S Srivastava	Ph.D. (IIT Kanpur)	Professor	Entire and Analytic Functions	43	**Ph. D.** Awarded = 02 Ongoing = 02
Alka Tripathi	Ph.D. (BHU, Varanasi)	Professor	Fuzzy Topology	19	**Ph. D.** Awarded = 02 Ongoing = 03 **M. Tech.** Awarded = 02
D R Jain	Ph.D.	Professor	Analysis	35	-
A K Aggarwal	Ph.D. (HP University, Shimla)	Associate Professor	Hydrodynamic, Stability	23	**Ph. D.** Awarded = 04 **M. Tech.** Awarded = 02
B P Chamola	Ph.D. (Gurukul Kangri, Hardwar)	Associate Professor	Fractals, Chaotic Dynamics	22	**Ph. D.** Awarded = 01 Ongoing = 03 **M. Tech.** Awarded = 01
Sanjeev Sharma	Ph.D. (HP University, Shimla)	Associate Professor	Computational Continuum Mechanics	16	**Ph. D.** Awarded = 01 Ongoing = 03 **M. Tech.** Awarded = 01
Lokendra Kumar	Ph.D. (IIT Roorkee)	Assistant Professor	Computational Fluid Dynamics,	10	**Ph. D.** Awarded = 01 Ongoing = 02 **M. Tech.** Awarded = 01
Amit Srivastava	Ph.D. (MNIT Jaipur)	Assistant Professor	Information & Coding Theory	15	**Ph. D.** Ongoing = 01

Parul Tiwari	Ph.D. (Gurukul Kangri, Hardwar)	Assistant Professor	Solid Mechanics	14	**Nil**
Pato Kumari	Ph.D. (ISM Dhanbad)	Assistant Professor	Elastodynamics	06	**Ph. D.** Ongoing = 01
Pankaj Kumar Srivastava	Ph.D. (MNIT, Allahabad)	Assistant Professor	Computational Methods,	12	**Ph. D.** Ongoing = 02
Akhilesh Kumar Singh	Ph.D. (Allahabad University)	Assistant Professor	Measure Theory	07	**Nil**
Dinesh C. Singh Bisht	Ph.D. (G.B.Pant University, Uttrakhand)	Assistant Professor	Soft Computing	07	**Ph. D.** Ongoing = 01
Anuj Bhardwaj	Ph.D. (UPTU, Lucknow)	Assistant Professor	Numerical Methods, Wavelets	13	**Nil**
Gagandeep Singh	Ph.D. (IIT Kharagpur)	Assistant Professor	Queueing Theory	03	**Nil**
Yogesh Gupta	Ph.D. (MNIT, Allahabad)	Assistant Professor	Computational Mathematics	10	**M. Tech.** Awarded = 01
Puneet Rana	Ph.D. (IIT Roorkee)	Assistant Professor	Computational Fluid dynamics,	02	**Ph. D.** Ongoing = 02
Lakhveer Kaur	Ph.D. (Thapar University, Patiyala)	Assistant Professor	Exact Solutions & Symmetries for Nonlinear Systems	03	**Nil**

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors**

    None

13. **Percentage of classes taken by temporary faculty–programme-wise information**

    None

14. **Programme-wise Student Teacher Ratio**

    UG: 17:1
    PG: 3:1

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Technical staff: Nil

Administrative staff: Centrally managed and shared with other departments.

16. **Research thrust areas as recognized by major funding agencies**

   (a) Wavelets, Fractals & Chaos and Mathematical Analysis

   (b) Numerical Analysis and Computational Continuum Mechanics

   (c) Statistics, Queueing, Fuzzy and Information Theory

   (a) Wavelets, Fractals & Chaos and Mathematical Analysis

   Wavelets, Fractals and chaos are new frontiers of science and important emerging interdisciplinary areas of research nowadays. Wavelets and fractals have significant contributions in the fields of image and signal processing, image compression, data compression and other various approximations. Almost all branches of sciences and engineering are benefiting from the new insights provided by them. Many shapes found in nature which are highly rough and complex at different scales, fractal interpolation methods are popularly accepted approximation tools in such cases. Mathematical analysis provides the foundation for further development in these areas. The applications of explorations in these areas encompasses various disciplines of sciences, engineering, medicine, business, weather forecasting and several other areas of human activities.

   (b) Numerical Analysis and Computational Continuum Mechanics

   The numerical solution of the problems occurring in Computational Continuum Mechanics is of great practical importance. The governing simultaneous ordinary and partial differential equations remain highly nonlinear and therefore, cannot be solved analytically. These equations can be solved numerically by using numerical methods such as finite element, finite difference, quasi-linearization, mesh free methods.

   (c) Statistics, Queuing, Fuzzy and Information Theory

   In this age of information revolution the role of statistics, fuzzy sets and information theory is of prime importance. The statistical data are not always precise numbers, or vectors, or categories. Real data are frequently what is called fuzzy. Also the results of measurements of such data can be best described by using fuzzy numbers and fuzzy vectors. Statistical analysis methods have to be adapted for the analysis of fuzzy data. Queuing theory deals with problems which involve queuing (or waiting) and the key issue in

handling such situations is the idea of uncertainty in inter-arrival times and service times. On the other hand, information theory deals with the study of problems concerning information processing, information storage, information retrieval and decision-making. This includes the study of uncertainty measures and various practical and economical methods of coding information for transmission.

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise**

None

18. **Inter-institutional collaborative projects and associated grants received**

    a) **National collaboration**   b) **International collaboration**

    Faculty members of the department have undertaken collaborative research work with researchers working in national and international universities and research labs. However, there are no funded inter-institutional collaborative projects at present. The collaborations are as under:

    (a) **National Collaborations at individual level (without grants/funds)**

S. No.	JIIT Faculty	Collaborating Faculty	Subject Area	Research Papers
1	Prof. Bani Singh	Dr. Ajay Vikram Singh, Amity University, Noida.	Adhoc Networks	3
2	Prof. G. S. Srivastava	Dr. Susheel Kumar, JUIT, Waknaghat	Entire Functions	1
		Ramesh Ganati, NIT Silchar		1
3	Prof. Alka Tripathi	Prof. G. D. Mishra, G. L. Bajaj Institute of Tech & Mgmt., Gr Noida	Queuing Theory	4
4	Dr. A. K. Aggarwal	Dr. Vivek Kumar, University of Petroleum and Energy Studies,	Magneto hydro dynamics	1

		Dehradun		
5	Dr. Bhagwati Prasad	Prof. S. L. Singh & Dr. P. Pradhan, Gurukul Kangri Vishwavidyalaya, Haridwar	Fixed Point Theory	4
6	Dr. Sanjeev Sharma	Dr. Ila Sahay & Mr. Ravindra Kumar, BITS, Noida Centre, UP	Theory of Plasticity and Creep	9
		Dr. Manoj Sahni, PDP University, Gandhinagar, Gujrat		
		Dr. Pankaj Thakur, IEC University, Solan, HP		
7	Dr. Lokendra Kumar	Prof. Rama Bhargava, IIT, Roorkee.	Computational Fluid Dynamics	2
8	Dr. Pato Kumari	Dr. Vikash K. Sharma, DRDO	Elasto dynamics	9
		Prof. A. Chattopadhyay, ISM, Dhanbad		
9	Dr. Pankaj Kumar	Dr. Manoj Kumar, MNNIT, Allahabad	Numerical Methods	2
10	Dr. Akhilesh Kumar Singh	Dr. Manoj Kumar, MNNIT, Allahabad	Numerical Methods	4
11	Dr. Dinesh Bisht	Prof. B.K. Das ITM University, Gurgaon	Particle Swarm Optimization	2
		Mr. M. Manne Raju, Irrigation and Command Area Development, Govt. of Andhra Pradesh	Hydrology	1
12	Dr. Puneet Rana	Dr. Shilpi Agarwal, Amity University Noida.	Stability Analysis	3

(b) International Collaborations at individual level

S. No.	JIIT Faculty	Collaborating Faculty	Subject Area	Research Papers
1	Prof. Bani Singh	Prof. O. Anwar Bég, Department of Biomechanics and Aerospace, Bradford, England	Computational Fluid Dynamics	03
2	Dr. Bhagwati Prasad	Dr. Apichai Hematulin, Nakhonratchasima Rajabhat University, Thailand	Fixed Point Theory	01
3	Dr. Lokendra Kumar	Prof. O. Anwar Bég, Department of Biomechanics and Aerospace, Bradford, England	Computational Fluid Dynamics	03
4	Dr. Puneet Rana	Prof. O. Anwar Bég, Department of Biomechanics and Aerospace, Bradford, England	Computational Fluid Dynamics	01
		Dr. M Gorji-B, Dr. M.Sheikholeslami & Dr. D. D. Ganji, Babol Noshirvani University of Technology, Mazandaran, Iran Dr. S. Soleimani, Florida International University, Miami, Florida	Nanofluids	01

** Details of Joint Publications are in Annexure-I/Maths

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received**

   None

20. **Research facility / centre with**

   - state recognition   None
   - national recognition   None
   - international recognition   None

21. **Special research laboratories sponsored by / created by industry or corporate bodies**

None

22. **Publications**

S. No.	Type	Number
1	Papers in peer reviewed journals (national/ international)	180
2	Monographs	Nil
3	Chapters in Books	Nil
4	Edited Books	02
5	Books with ISBN with details of publishers	Nil
6	Number listed in International Databases	180

Citation Details:

S. No.	Type	Range	Average
1	Citation Index (Google)	1-67	5.596
2	Citation Index (Scopus)	1-48	5.081
3	SNIP	0.034-3.009	0.927
4	SJR	0.118-2.256	0.506
5	Impact Factor (Scopus)	0.179-4.335	1.417
6	H-index (Scopus)	2-83	19.789

** Details of publications are attached as Annexure-II/Maths
** Details of Citations are attached as Annexure-III/Maths

23. **Details of patents and income generated**

None

24. **Areas of consultancy and income generated**

None

25. **Faculty selected nationally/internationally to visit other laboratories/ institutions/ industries in India and abroad**

1. **Prof. B.D. Sharma**
   - Visited Shahid Bhagat Singh College, University of Delhi on March 6, 2014 and delivered a invited talk on Advances in Applications of Mathematics.
   - Visited Dept. of Mathematics, Jamia Millia Islamia, New Delhi on March 22, 2014 and delivered Invited talk and Interactive session with faculty and Students at Convergence-2014.

2. **Dr. Pankaj Kumar Srivastava**
   - Visited Sam Higginbottom Institute of Agriculture, Technology & Sciences, Allahabad on February 2014 and delivered Invited talk on Application of Nonpolynomial Spline & Empirical Mode Decomposition methods in Time Series Analysis.
   - Visited Sam Higginbottom Institute of Agriculture, Technology & Sciences, Allahabad in May 2014 and delivered Invited talk on Transportation Problem and its Application in Real Life.

3. **Dr. Puneet Rana**
   - Visited Dept. of Mathematics, Universiti Sains Malaysia, Penang, Malaysia from June 15, 2015 to July 14, 2015 and delivered Invited talk and Interactive session with faculty and Students on FEM and Stability analysis.

26. **Faculty serving in**
   a) **National committees b) International committees c) Editorial Boards d) any other (please specify)**

   - Dr. Anuj Bhardwaj is Member of Editorial Board of American Journal of Signal Processing" by Scientific and Academic Publishing, USA.

   - Dr. Akhilesh Kumar Singh

     Member in Board of Trustees in Forum of Interdisciplinary Mathematics (FIM) and Editorial Board in American Journal of Mathematics and Statistics (Scientific and Academic Publishers, U.S.A.).

     Secretary for Publications in Indian Journal of Mathematics and Bulletin of the Allahabad Mathematical Society.

   - Dr. Amit Srivastava

Member of Editorial Board of International Journal of Mathematical Analysis and Applications and American Journal of Science and Technology

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)**

To recharge the faculty, Department organizes conferences, workshops, seminars, expert talks, refresher courses, faculty development programs, etc., at JIIT. In addition, faculty members participate in these activities outside also. Details are given as below.

(a) **Conference/ Workshops organized by the Department:** 06

S. No.	Conference/workshop	Date
1	Workshop on Statistical and Numerical Trends in Sciences and Engineering	January 01, 2015
2	Workshop on Emerging Trends in Biomathematics (jointly with Biotech Department)	November 29, 2014
3	Workshop on Advanced Optimization Techniques.	September 23, 2014
4	Faculty Development Program on Advanced Computing Methods	July 21-26, 2014
5	Workshop on Wavelets and Applications in Signal Processing (jointly with Electronics Department).	April 20, 2011
6	Workshop on Advanced Computing and Software Tools (ACST-2010)	October 30, 2010

(b) **Expert Talks organised by the department:** 32

Details are in **Annexure-IV/Maths**

(c) **Participation of faculty in conferences/workshops etc outside:** 77

Details are in **Annexure-V/Maths**

28. **Student projects**

- **percentage of students who have done in-house projects including inter-departmental projects :** 100%

- **percentage of students doing projects in collaboration with other universities / industry / institute :** Nil

29. **Awards/ recognitions received at the national and international level by**

- Faculty

S. No.	Faculty/Awards
1	**Prof. Bani Singh** • Best student award and a gold medal for the session 1963–1964 for first position in M. Sc • Khosla Award for outstanding research work awarded jointly • National fellowship holder right up to M. Sc
2	**Prof. G. S. Srivastava** • U.P.Govt. Merit Scholarship 1961-63 • Chancellor's Bronze Medal (Lucknow University)- 1964 • Govt. of India National Scholarship 1965-67 • Two Gold Medals for Obtaining First Position in M.Sc. Examination (1967), Lucknow University
3	**Prof. B.P. Chamola** • Merit Scholarship 1983-1984 • National Scholarship 1985-1988
4	**Dr. Pato Kumari** • Best Oral Presentation Award in "2nd International Science Congress" dated 8-9th December 2012, held in Vrindavan . • President Award in "Bharat Scouts and Guides" in 1997.
5	**Dr. Anuj Bhardwaj** • National Scholarship holder (from 11th to Graduation)
6	**Dr. Akhilesh Kumar Singh** • Bronze Medal in B.Sc. • Second in order of Merit in M.Sc.
7	**Dr. Pankaj Kumar Srivastava** • Silver Medal in B.Sc. • National Scholarship holder up to Graduation

S. No.	
8	**Dr. Puneet Rana** • National Merit Scholarship in Graduation • Silver Medal in B.Sc.

• **Doctoral / post doctoral fellows**

None

• **Students**

None

30. **Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any**

Details of the conferences/ workshops/ FDPs etc are listed the table below. Funds for these activities has been provided by JIIT

S. No.	Seminar Conference/workshop
1	Workshop on Statistical and Numerical Trends in Sciences and Engineering, January 01, 2015 **Outstanding Participants: Dr. S. N. Gupta**, University of North Carolina USA, **Dr. R. K. Mohanty**, South Asian University New Delhi, **Prof. Bani Singh**, JIIT Noida
2	Workshop on Emerging Trends in Biomathematics (jointly with Biotech Department), November 29, 2014. **Outstanding Participants: Prof Peeyush Chandra,** Professor, IITK, Kanpur, **Prof Sitabhra Sinha,** Professor, (Institute of Mathematical Sciences (IMSc)**,** Chennai, **Prof. Subhadip Raychaudhuri,** Professor, IIITD, New Delhi, **Prof. Karmeshu,** Professor, JNU, New Delhi.
3	Workshop on Advanced Optimization Techniques, September 23, 2014. **Outstanding Participants: Dr. Karmeshu**, Professor, JNU, New Delhi, **Dr. Kusum Deep**, Professor, Department of Mathematics, IIT Roorkee, **Dr. Millie Pant**, Associate Professor, Department of Mathematics, IIT Roorkee, **Dr. Bani Singh**, JIIT Noida.
4	Faculty Development Program on Advanced Computing Methods, July 21-26, 2014. **Outstanding Participants:** The faculty actively participated and

	delivered lectures.
5	Workshop on Wavelets and Applications in Signal Processing (jointly with Electronics Department), April 20, 2011. **Outstanding Participants: Dr. Mani Mehra**, IIT Delhi, **Dr. S.D. Joshi**, IIT Delhi, **Dr. Pradeep Sarkar**, IIT Kanpur, **Dr. Umar Farooq**, AMU Aligarh, **Dr. Bani Singh**, JIIT Noida.
6	Workshop on Advanced Computing and Software Tools (ACST-2010), October 30, 2010. **Outstanding Participants: Dr. Karmeshu**, JNU New Delhi, **Dr. Rama Bhargava**, IIT Roorkee, **Dr. R. S. Gupta**, IIT Roorkee, **Dr. Mani Mehra**, IIT Delhi, **Dr. Bani Singh**, JIIT Noida.

31. **Code of ethics for research followed by the departments**

Department lays strong emphasis that all research work/theses must be original and work by others is duly acknowledged. To enhance quality of research anti-plagiarism software is used. Research scholars and students before submitting their Ph.D. theses, dissertations, Project reports and research papers for award/publications check manuscripts for plagiarism.

32. **Student profile programme-wise**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
M. Tech. (ACM)					
2009-11	12	2	2	100	100
2010-12	3	1	0	100	-
2011-13	3	0	1	-	100
2012-14	2	0	1	-	100
Ph.D.					
Up to 2014	165	12	27	**No. Awarded** **No. Continuing** **No. Discontinued**	11 (3M, 8F) 15 (2M, 13F) 13 (7M, 6F)

33. **Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M. Tech. (ACM)				
2009-11	NIL	100.00	NIL	NIL
2010-12	NIL	NIL	100.00	NIL
2011-13	NIL	100.00	NIL	NIL
2012-14	NIL	100.00	NIL	NIL
2013-15	NIL	66.67	33.33	NIL
2014-16	NIL	NIL	NIL	NIL
Ph.D. (Mathematics)				
2011	25.00	50.00	25.00	NIL
2012	16.67	66.66	16.67	NIL
2013	NIL	33.33	66.67	NIL
2014	50.00	NIL	50.00	NIL

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Department does not maintain any record of passed out students. From the informal information, the following data has been provided

1. Nikunj Agarwal: NET.

2. Snehalata: NET.

3. Mudita Sharma: GATE.

4. Touseef Ahmad: NET.

35. **Student progression**

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	Nil
PG to Ph.D.	33 %
Ph.D. to Post-Doctoral	Nil
Employed Campus selection	Nil

Other than campus recruitment	100%
Entrepreneurs	----

36. Diversity of staff

Department/ School		Percentage* of faculty from			
		The same Univ.	Other Universities within the state	Universities outside state	Other countries
Maths	Ph.D	00	12	88	00
	PG	00	44	56	00

*For Ph.D., percentage is calculated out of total Ph.D. degree holders and Percentage of PG is calculated out of total strength of the Department.

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

One

38. Present details of departmental infrastructural facilities with regard to

a) **Library:** Department uses the Central Learning Resource (Central Library)

b) **Internet facilities for staff and students:** Yes

d) **Total number of class room:** 49 Lecture Theatres/ Class Rooms and 42 Tutorial Rooms of the Institute are shared with other departments

e) **Class rooms with ICT facility:** 40 Lecture Theatres/ Class Rooms.

f) **Students' laboratories:** Computational Labs shared with other departments

g) **Research laboratories:** Computational Labs shared with other departments

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

Sl. No	Name of the Student	Title of Thesis/ Dissertation/ Project	Names of supervisor(s)	Status
1	Manoj Sahni	Numerical Studies of Stresses in Transversely Isotropic Materials	Dr. Sanjeev Sharma, Prof. Bani Singh	Awarded

b)   from other institutions/universities:

Sl. No	Name of the Student	Title of Thesis/ Dissertation/ Project	Names of supervisor(s)	Status
1	Neetu Gupta	Performance Analysis of Some Queuing Models	Prof. Alka Tripathi, Dr. G.D. Mishra	Awarded
2	Ravi K M	Some Investigations in Fuzzy Automata	Prof. Alka Tripathi	Awarded
3	Suman Makhija	Some Stability Problems of Non-Newtonian Fluids	Dr. A. K. Aggarwal	Awarded
4	Ritu Sahni	Some Applications of Fixed Point Theorems	Dr. B. P. Chamola, Prof. Bani Singh	Awarded
5	Barkha Rohtagi	Some Special Classes of Efficient Multiple Bursts Codes	Dr. A. K. Aggarwal, Prof. B. D. Sharma	Awarded
6	Anushri Verma	Some Thermal Stability Problems of Elastico-Viscous, Ferromagnetic and Nanofluids	Dr. A. K. Aggarwal	Awarded
7	Raj Kumar Verma	Information Measures and Aggregation Operators on Fuzzy/Intuitionistic Fuzzy Sets with Applications in Decision Making	Prof. B. D. Sharma	Awarded

8	Diksha Gupta	Nonlinear Problems in Micropolar Fluid Flows	Dr. Lokendra Kumar, Prof. Bani Singh	Awarded
9	Ankita Gaur	Efficient codes with class errors of SK-Metric and polynomial power product composition for codes.	Prof. B. D. Sharma	Awarded
10	Richa Sharma	Some Nonlinear Stress Analysis of Thick Walled Circular Cylinders	Dr. A. K. Aggarwal	Awarded
11	G. Swapna	Nonlinear MHD Flow Problems of Micropolar Fluids	Dr. Lokendra Kumar, Prof. Bani Singh	On-going
12	Sanehlata	Numerical Studies of Stresses in Materials	Dr. Sanjeev Sharma	On-going
13	Chitra Modi	A Study of Seismic Wave Propagation in Different Anisotropic Media	Dr. Pato Kumari	On-going
14	Kanchan Tyagi	Study of Generalized Fuzzy Sets and Fuzzy Topology	Prof. Alka Tripathi	On-going
15	Akanksha	Growth Properties and Spaces of Vector Valued and Generalized Dirichlet Series	Prof. G.S. Srivastava	On-going
16	Chhaya Singhal	Growth and Approximation of Entire and Analytic Functions	Prof. G. S. Srisvastava	On-going
17	Nikunj Agarwal	Study of Extended Fuzzy Sets	Prof. Alka Tripathi	On-going
18	Rekha Panchal	Safety Analysis of Anisotropic Materials	Dr. Sanjeev Sharma	On-going

19	Ruchika Dhanai	Numerical Solution of Some Nonlinear Problems in Nanofluids	Dr. Lokendra Kumar, Dr. Puneet Rana	On-going
20	Komal Goyal	Fixed Point Theory and Fractals	Dr. B. P. Chamola	On-going
21	Vijeyata Chauhan	Solution of Differential Equations using Numerical and Emerging Computing Techniques	Dr. Pankaj Srivastava	On-going
22	Kuldeep Katiyar	Fractals and Their Applications	Dr. B. P. Chamola, Prof. Bani Singh	On-going
23	Shikha Maheshwari	Study of Generalized Measures of Information and Divergence and its Applications in Coding Theory	Dr. Amit Srivastava	On-going
24	Kunti Devi Mishra	Some Investigations in Fractal Theory	Dr. B. P. Chamola	On-going
25	Nisha Shukla	Application of Homotopy Analysis to Nonlinear Differential Equations	Prof. Bani Singh, Dr. Puneet Rana	On-going

40. **Number of post graduate students getting financial assistance from the university**:

M. Tech.

Year	No. of Students getting financial assistance
2010	4
2011	2
2012	2
2013	3
2014	2

Ph. D.

Sl. No	Name
1	Shikha Maheshwari
2	Kunti Devi Mishra
3	Nisha Shukla
4	Chitra Modi
5	Akanksha
6	Chhaya Singhal
7	Ruchika Dhanai
8	Vijeyata Chauhan

41. **Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

    A new M. Tech. programme in Data Analytics has been started jointly with CSE/IT and HSS Departments. Details of need assessment are given in the departmental evaluative report of coordinating department CSE/IT.

42. **Does the department obtain feedback from**

    a. **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

       Yes. Feedback from faculty is obtained during departmental meetings. Before setting departmental agenda for BOS and Academic Council, aspects of curriculum such as course content and learning expectations are discussed in departmental meetings.

    b. **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

       At the end of every semester, student's feedback is collected for each subject about the faculty, course contents, and method of teaching and learning/understanding of contents. Feedback is communicated to concerned faculty for appropriate corrective actions.

    c. **alumni and employers on the programmes offered and how does the department utilize the feedback?**

       Yes. Feedback from alumni is collected. Faculty also receives informal feedback from employers from time to time. Feedback is discussed departmentally and utilized appropriately. Online feedback collection mechanism has been operationalized from

Academic Session 2014-15 through Institute Quality Assurance Cell (IQAC).

43. **List the distinguished alumni of the department (maximum 10)**

None

44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts**

Department organizes conferences/ workshops and seminars regularly. Department also promotes participation of PG and PhD students in above academic activities organized externally. Students are financially supported by the Institute for their participation outside.
** Details are in item 27-a

45. **List the teaching methods adopted by the faculty for different programmes**

    (i)   Black/White board

    (ii)   Power-point presentation

    (iii)   Visualizer

    (iv)   Computation Labs

    (v)   Projects and Seminars

    (vi)   Group Discussions

    (vii) Tutorials and Assignments

46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

    (i)   Through continuous teaching, learning and evaluation activities followed by the revision of the curriculum.

    (ii)   Through the feedback of the experts and the students.

    (iii)   Through the monitoring and advice of the

           (a) Internal Quality Assurance Cell (IQAC)

           (b) Institute Academic Management Committee

           (c) Board of Studies and Academic Council

Student progress and learning outcomes are monitored through continuous evaluations, tutorials and laboratory exercises, and live projects/assignments. The Institute conducts three tests in all courses and

review the performance of students in the faculty meeting at departmental level and in the meeting of result committee under the chairmanship of the Vice Chancellor. At the end of each semester, student feedback is taken; course wise performance of students is discussed, analyzed and recorded in terms of grades. Based on discussion, feedback of student and faculty, course contents are improved. Weak students are encouraged for special meetings and interaction with the faculty to identify their problems and means to solve them. It is JIIT experience, that mentoring by senior students is of immense help in achieving Institute objective and goals. The institute also considers the performance of the students and research scholars in various competitions at regional, state and national levels, higher studies, industry and field.

47. **Highlight the participation of students and faculty in extension activities**

    Faculty and students of the department are actively involved in various extension activities organized by JIIT. Details are given in section 3.6 of Self Study Report of the Institute.

48. **Give details of "beyond syllabus scholarly activities" of the department.**

    (i) Department organized workshops and faculty development programmes.

    (ii) Department invites experts from reputed institutions to delivered a talk on various emerging areas.

    (iii) Regular visit to national/international academic institutions/ industry.

    *Details are in Annexure-V/Maths

49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

    No

50. **Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**

Name of the Event	2010	2011	2012	2013	2014	2015	Total
Research Papers							

a. International	12	26	24	27	37	21	147
b. National	1	0	0	1	0	3	5

No. of Ph.D. Degrees Awarded: 11

The Ph.D. program was started in 2005. So far 11 research scholars have been awarded Ph.D. degree in different areas of pure and applied mathematics. At present 15 research scholars are working in various areas of specialization. Some of the areas in which research is being carried out are:

(i) Wavelets, Fractals and Chaos, Mathematical Analysis,

(ii) Numerical Analysis and Computational Continuum Mechanics,

(iii) Statistics, Queuing, Fuzzy and Information Theory.

Wavelets, Fractals and Chaos, Mathematical Analysis

Wavelets, Fractals and chaos are new frontiers of science and important emerging interdisciplinary areas of research nowadays. Wavelets and fractals have significant contributions in the fields of image and signal processing, image compression, data compression and other various approximations. Five faculty members are working in this area and published a good number of research papers in various International/National Journals and Conference Proceedings of high repute.

Numerical Analysis and Computational Continuum Mechanics

The numerical solution of the problems occurring in Computational Continuum Mechanics is of great practical importance. The governing simultaneous ordinary and partial differential equations remain highly nonlinear and therefore, cannot be solved analytically. These equations can be solved numerically by using numerical methods such as finite element, finite difference, quasi-linearization, mesh free methods. Eight faculty members are working in this area and published a good number of research papers in various International/National Journals and Conference Proceedings of high repute.

Statistics, Queuing, Fuzzy and Information Theory

In this age of information revolution the role of statistics, fuzzy sets and information theory is of prime importance. The statistical data are not always precise numbers, or vectors, or categories. Real data are frequently what is called fuzzy. Also the results of measurements of such data can be best described by using fuzzy numbers and fuzzy vectors. Statistical analysis methods have to be adapted for the analysis of fuzzy data. Queuing theory deals with problems which involve queuing (or waiting) and the key issue in handling such situations is the idea of uncertainty in inter-arrival times and service times. On the other

hand, information theory deals with the study of problems concerning information processing, information storage, information retrieval and decision-making. This includes the study of uncertainty measures and various practical and economical methods of coding information for transmission. Six faculty members are working in this area and published a good number of research papers in various International/National Journals and Conference Proceedings of high repute.

No. of M. Tech. Degrees awarded: 15

The role and usages of mathematics have increased manifold in the last few decades with the setting in of information revolution which has resulted in substantial changes in several other disciplines also. With the nation-wide thrust on information technology and the need for self-reliance in various important sectors, the scientists and engineers with advanced computing skills are on higher demands. Thus the expectations from mathematics from the point of view of teaching, learning, research and applications have increased manifolds and the skills in computational mathematics are needed more than ever before. Keeping this in mind, the Department of Mathematics JIIT Noida had introduced its M. Tech program in Applied and Computational Mathematics in the year 2008. So far Six batches have been passed out. The alumni are well placed in various academic and research institutions of repute.

The curriculum and the course contents of the program are designed keeping in mind the interdisciplinary nature of the program. It provides a broad understanding of the different aspects of the pure and applied mathematics on one hand while their computer applications on the other. The lecture-based courses cover a wide spectrum of topics including advanced linear algebra, functional analysis, applied numerical methods, operations research, wavelets and its applications, fractals and chaos, linear statistical models etc. Some branches of mathematics like Number Theory, Wavelets, Fractals, etc. are now part of the main stream. This program is designed to strengthen and to substantially enhance the background and also to instil needed new effective communication skills in mathematics. It would be possible for a student to choose from areas like, Statistics, Operation Research, Numerical Mathematics and Computing. Students are also required to take suitable courses from engineering, science and humanity departments. The lab courses provide necessary training in advanced techniques of software and simulation. Experience and expertise gained in these labs, giving the students lab-based application oriented courses and the use of softwares such as Mathematica, Matlab, Maple, etc., will comprise an important feature of the program. An important component of the programme is its

computational science dissertation project work that will be done by the student on any important and emerging topic.

The primary objective of this programme is to equip the students with advanced topics in Applied Mathematics; Computer Science and Advanced Computing Methods; Simulation and Modeling so that they can efficiently deal with the problems faced by industry and other sectors through knowledge of mathematics and scientific computation.

On the successful completion of this program the candidates will be better suited for the

- Jobs in the software industry and in research laboratories (like ISRO, DRDO, NAL, etc.)
- Academic career in institutions of science and technology.
- Pursuing research leading to a Ph. D. Degree.
- Taking up consultancy and special projects with industry and corporations.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

   i.   Highly qualified faculty with diverse areas of research

   ii.   Significant research output

   iii.   Collaborative research activities

   iv.   Strategic NCR location

   v.   State of the art IT infrastructure

Weaknesses

   i.   Enrolment in M. Tech. programs
   ii.   Funded Research projects
   iii.   Interaction with industry

Opportunities

- Scope of multi-disciplinary research with ECE, CSE and Biotechnology Departments and Business School.
- Scope of collaborative research with other institution and industries
- Sponsored projects

Challenges

- To keep pace with change in technology and updating knowledge

52. Future plans of the department

- To strengthen the existing M. Tech. (ACM) Program
- To introduce new courses covering latest developments in engineering and sciences
- To develop the state-of-the-art labs
- To excel in research in the emerging area

Inter-institutional collaborative Research

Wavelets, Fractals and Chaos, Mathematical Analysis

1. Singh, A. V., **Singh B.,** Alam M.A., "Issues and Challenges associated with Secure QoS aware Routing in MANETs", *International Journal of Research and Reviews in Ad Hoc Networks (IJRRAN)*, Vol. 1, No. 3, September-2011, ISSN:2046-5106, Copyright © Science Academy Publisher, United Kingdom. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJ-106*

2. Singh, A. V., **Singh B.,** Alam M.A., "Mobility based Proactive and Reactive Routing Algorithm in MANETs", *International Journal of Computer Science and Information Technologies (IJCSIT)*, vol. 2 (4), 1793-1797, ISSN 0975-9646, 2011. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].*IJ-107*

3. Singh, A. V., **Singh B.,** Alam M.A., "QoS aware Dynamic Source Routing Protocol in MANETs: Proposal, Analysis and Comparison", *Computer Engineering and Intelligent System*, September 2011, ISSN 2222-2863. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].

4. **Srivastava G.S.** and Ganti R., "Approximation of entire functions of two complex variables over Jordan domains", *Tamsui Oxford J.Information and Math. Sci*., Vol. 28, num.4, 349-368,2012. [Indexed in Scopus][Cited by Scopus-0, SNIP-0.432, IPP-0.152, SJR-0.170, H-Index-4]. *IJ-82*

5. Kumar S. and **Srivastava G.S.**, "On the maximum term and lower order of entire monogenic functions", *Transylv. J. Math. and Mech.*,Vol.6,Number 1, 29-38, 2014. [Indexed in Mathematical Reviews]. *IJ-21*

6. Singh S. L., Hematulin, A. and **Prasad B.,** "Fixed points of hybrid maps in symmetric spaces", *Tamsui Oxford Journal of Information and Mathematical Sciences*, Vol. 27, Issue 4, pp. 429-448, 2011. [Cited by Google-Nil, Cited by Scopus- Nil, SNIP-0.432, IPP-0.152, SJR-0.170, JCR Impact Factor-Nil, H-Index-4] *IJ-10*

7. **Prasad B.,** Pradhan P. and Sahni R., "Modified Noor iterative schemes in Banach spaces", *International Mathematical Forum*, Vol. 5, Issue 28, pp. 1895 – 1902, 2010. [Cited by Google-1, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJ-135*

8. **Prasad B.,** Pradhan P. and Sahni R., "Approximate fixed points of some general contractions", *International Journal of Mathematical Sciences and Engineering Applications*, Vol.4, Issue 3, pp. 159-163, 2010. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJ-136*

9. Singh S. L. and **Prasad B.,** "Some coincidence theorems and stability of iterative procedures", *Computers and Mathematics with Applications*, Vol. 55, pp. 2512–2520, 2008. [Cited by Google-57, Cited by Scopus-28, SNIP-1.936, IPP-2.498, SJR-1.343, JCR Impact Factor-1.996, H-Index-69]. *IJ-155*

10. Singh S. L., Hematulin, A. and **Prasad B.,** "Fixed points of hybrid maps in symmetric spaces", *Tamsui Oxford Journal of Information and Mathematical Sciences*, Vol. 27, Issue 4, pp. 429-448, 2011. [Cited by Google-Nil, Cited by Scopus- Nil, SNIP-0.432, IPP-0.152, SJR-0.170, JCR Impact Factor-Nil, H-Index-4] *IJ-116*.

Numerical Analysis and Computational Continuum Mechanics

11. Kumar V., **Aggarwal A.K.,** Pundir S. K., "Thermal convection in a Walters' (model B') elastico-viscous dusty fluid in hydromagnetics with the effect of compressibility and rotation", *International Journal of Applied Mechanics and Engineering*, Vol.15, No.1, pp. 51-62, 2010. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-4, Cited by Scopus-0,SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJ-133*

12. **Sharma S.,** Sahai I., Kumar R., "Creep Transition of a Thin Rotating Annular Disk of Exponentially Variable Thickness with Inclusion and Edge Load", *Elsevier's Procedia Engineering*, Vol. 55, pp. 348-354, 2013. [Indexed in SCOPUS] [Cited by Google-6, Cited by SCOPUS-1, SNIP- Nil, IPP-0.36, SJR- 0.22, JCR Impact Factor-Nil, H-Index-11]. *IJ-65*

13. **Sharma S.,** Thakur P., Sahni M., "Elastic-plastic Analysis for Finite Deformation of a Rotating Disk of Exponentially Varying Thickness with Edge Load and Inclusion", *Annals of Faculty Engineering Hunedoara- International Journal of Engineering*, Tome X- Fascicule, pp. 225-232, 2012. [Indexed in Copernicus] [Cited by Google-1, Cited by SCOPUS-0, SNIP- Nil, IPP- Nil, SJR- Nil, JCR Impact Factor- Nil, H-Index- Nil]. *IJ-90*

14. **Sharma S.,** Sahai I., Kumar R., "Creep Transition in Non Homogeneous Thick Walled Circular Cylinder under Internal and

External Pressure", *Applied Mathematical Science*, Vol. 6, No. 122, pp. 6075 – 6080, 2012. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-2, SNIP- 0.781, IPP- 0.673, SJR- 0.466, JCR Impact Factor-Nil, H-Index-19]. *IJ-91*

15. **Sharma S.,** Sahni M., Kumar R., "Elastic-Plastic Analysis of A Thin Rotating Disk of Exponentially Variable Thickness with Inclusion", *WSEAS Transactions on Mathematics*, Vol. 9(5), pp. 315-323, 2010. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-2, SNIP- 0.730, IPP- 0.533, SJR- 0.247, JCR Impact Factor-Nil, H-Index-15]. *IJ-138*

16. **Sharma S.,** Sahni M., Kumar R., "Thermo Creep Transition of Transversely Isotropic Thick - walled Rotating Cylinder under Internal Pressure", *Int. J. Contemp. Math. Sciences*, Vol. 5, No. 11, pp. 517–527, 2010. [Indexed in Mathematical Reviews] [Cited by Google-2, Cited by SCOPUS-0, SNIP- Nil, IPP- 0.165, SJR- Nil, JCR Impact Factor- Nil, H-Index- 12]. *IJ-139*

17. **Sharma S.,** Sahni M., Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure' *Advances in Theoretical and Applied Mechanics*' Vol. 2, No. 3, pp. 113–122, 2009. [Indexed in Mathematical Reviews] [Cited by Google-3, Cited by SCOPUS-0, SNIP- Nil, IPP- 0.167, SJR- Nil, JCR Impact Factor- Nil, H-Index- 4]. *IJ-150*

18. **Sharma S.,** Sahni M., Kumar R., "Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure", *Defence Science Journal*, Vol. 59(3), pp. 260-264, 2009. [Indexed in SCOPUS] [Cited by Google-5, Cited by SCOPUS- 3, SNIP- 0.655, IPP- 0.524, SJR- 0.219, JCR Impact Factor-0.359, H-Index-13]. *NJ-9*

19. **Sharma S**., Sahni M., and Panchal R., "Elastic-Plastic Transition of Non-Homogeneous Isotropic Thick-Walled Spherical Shell under Pressure with Steady State Temperature", *First International Conference on Structural Integrity (ICONS-2014)*, Kalpakkam, India, pp. 731–738, February 4-7, 2014. *IJ-2*

20. **Sharma S.,** Ila Sahai, Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Circular Cylinder under Internal and External Pressure", "*Multidiscipline Modelling in Materials and*

Structures", Vol. 10, Issue 2, pp. 211-227, 2014. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-0, SNIP- 0.336, IPP- 0.545, SJR- 0.245, JCR Impact Factor - Nil, H-Index-7]. *IJ-33*

21. **Kumar L.**, Bhargava R. and **Singh B.**, "Finite element solution of the effect of radiation on free convection flow of a MHD thermomicropolar fluid over a vertical plate" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 13, 91-111 (2011). [Indexed in Zentralblatt database] [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJ-117*

22. **Kumar L.**, **Singh B.**, Kumar Lokesh and Bhargava R., "Finite element solution of MHD flow of micropolar fluid towards a stagnation point on a vertical stretching sheet" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 3, 14-30 (2011). [Indexed in Zentralblatt database][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJ-118*

23. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of nonlinear magneto-micropolar stagnation point flow from a porous stretching sheet with prescribed skin friction", *Computational Thermal Sciences*, 7(1): 1-14 (2015). [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-0.390, IPP-0.317, SJR-0.229, JCR Impact Factor-, H-Index-7]. *IJ-2*

24. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element analysis of transient heat and mass transfer in microstructural boundary layer flow from a porous stretching sheet", *Computational Thermal Sciences*, Vol. 6 (2): 155–169 (2014). [Indexed in Scopus][Cited by Google-, Cited by Scopus-0, SNIP-0.390, IPP-0.317, SJR-0.229, JCR Impact Factor-, H-Index-7]. *IJ-36*

25. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of mixed convection flow of micropolar fluid over a shrinking sheet with thermal radiation", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, Vol. 228, 61-72 (2014). [Indexed in Scopus][Cited by Google-8, Cited by Scopus-2, SNIP-0.742, IPP-0.506, SJR-0.263, JCR Impact Factor-0.547, H-Index-16]. *IJ-37*

26. **Kumari P.,** Sharma V.K., Modi C., "Propagation of torsional waves in an inhomogeneous sandwiched layer between inhomogeneous semi-infinite media", *Journal of Engineering Mathematics,* Vol. 90, pp.1-11, 2015. [Indexed in Scopus] [Cited by Google-0, Cited by Scopus- 0, SNIP- 1.408, IPP- 1.145, SJR- 0.707, JCR Impact Factor-1.069, H-Index-32]. *IJ-5*

27. Chattopadhyay A., **Kumari P.**, Sharma V. K., "Reflection and refraction at the interface between distinct generally anisotropic half

spaces for three-dimensional plane quasi P waves", *Journal of Vibration and Control (SAGE),* Vol. 21, pp. 493-508, 2015. [Indexed in Scopus] [Cited by Google-3, Cited by Scopus- 0, SNIP- 1.229, IPP- 3.846, SJR-0.723, JCR Impact Factor-4.355, H-Index-38]. *IJ-6*

28. **Kumari Pato,** Sharma V. K. and Modi Chitra, "Reflection/refraction pattern of quasi-(P/SV) waves in dissimilar monoclinic media separated with finite isotropic layer", Published online in *Journal of Vibration and Control (SAGE),* 2014. DOI: 10.1177/1077546314548911. [Indexed in Scopus] [Cited by Google-3, Cited by Scopus- 0, SNIP- 1.229, IPP- 3.846, SJR- 0.723, JCR Impact Factor-4.355, H-Index-38]. *IJ-39*

29. **Kumari P.,** Sharma V.K., "Propagation of torsional waves in a viscoelastic layer over an inhomogeneous half space", *Acta Mechanica*, Vol. 225, pp. 1673-1684, 2014. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus- 0, SNIP- 1.235, IPP- 1.432, SJR- 0.952, JCR Impact Factor-1.268, H-Index-44]. *IJ-40*

30. Chattopadhyay A., **Kumari P**., Sharma V.K., "Reflection and transmission of three dimensional qP wave through layered fluid medium between two distinct triclinic half-spaces", *International Journal of Geomechanics (ASCE),* Vol. *14, pp.182-190, 2014.* [Indexed in Scopus] [Cited by Google-1, Cited by Scopus- 0, SNIP- 2.278, IPP- 1.447, SJR- 1.778, JCR Impact Factor-1.268, H-Index-25]. *IJ-41*

31. Chattopadhyay, A., Gupta, S., **Kumari P**., Sharma, V. K., "Torsional wave propagation in non homogeneous layer between non homogeneous half spaces", *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 37, pp.1280-1291, 2013. [Indexed in Scopus] [Cited by Google-6, Cited by Scopus- 2, SNIP-1.861, IPP-1.739, SJR-1.864, JCR Impact Factor-1.561, H-Index-49]. *IJ-70*

32. Chattopadhyay A., Gupta S., **Kumari P**., Sharma V.K., "Effect of point source and heterogeneity on the propagation of SH-waves in a viscoelastic layer over a viscoelastic half space", *Acta Geophysica*, Vol. 60, pp. 119-139, 2012. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus- 3, SNIP- 1.094, IPP- 1.205, SJR- 0.641, JCR Impact Factor-1.365, H-Index-18]. *IJ-96*

33. Chattopadhyay A., Gupta S., Sharma V. K., **Kumari P**., "Stresses produced on a rough irregular half-space by a moving load", *Acta Mechanica*, Vol. 221, pp. 271-280, 2011. [Indexed in Scopus] [Cited by Google-2, Cited by Scopus- 1, SNIP- 1.235, IPP- 1.432, SJR- 0.952, JCR Impact Factor-1.268, H-Index-44]. *IJ- 121*

34. Chattopadhyay, A., **Kumari P**., Sharma V.K., "Reflection and refraction of three dimensional plane quasi-P waves at a corrugated surface between distinct triclinic elastic half spaces", *International Journal on Geomathematics*, Vol. 2, pp. 219-253, 2011. [Indexed in

Scopus] [Cited by Google-2, Cited by Scopus- 2, SNIP- 0.938, IPP-0.703, SJR- 0.357, JCR Impact Factor-0.365, H-Index-4]. *IJ-122*

35. **Srivastava P. K.** and Kumar M. "Numerical Algorithm Based on Quintic Nonpolynomial Spline for Solving Third-Order Boundary value Problems Associated with Draining and Coating Flow", *Chinese Annals of Mathematics, Series B,* Vol 33, Issue 6, pp831-840,2012. [Indexed in Scopus]][Cited by Google-3, Cited by Scopus-2, SNIP-0.639, IPP-0.497, SJR-0.605, JCR Impact Factor-0.316, H-Index-20]. *IJ-97*

36. Gupta Y., **Srivastava P. K.** and Kumar M., "Application of B-Spline to Numerical Solution of a System of Singularly Perturbed Problems", *Mathematica Aeterna,*Vol.1 Issue 6 , pp. 405-415, 2011. *IJ-123*

37. **Singh A. K.,** Kumar M., "Multi-peak solution of non-Linear elliptic singularly perturbed reaction-diffusion equations using finite element simulations", *Journal of Taiwan Institute of Chemical Engineers*, Vol.50, pp.56-68, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.255, IPP-2.500, SJR-.731, JCR Impact Factor-2.637, H-Index-24]. *IJ-8*

38. Kumar M., **Singh A. K.**, Srivastava A, "A new fifth order derivative free Newton type iterative method for solving nonlinear equations", *Applied Mathematics and Information Sciences*, Vol. 9 ,No. 3 pp. 1507-1513, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.467, IPP-1.168, SJR-.429, JCR Impact Factor-1.232, H-Index-12]. *IJ-9*

39. Kumar M., **Singh A. K**, "Singular perturbation problems in nonlinear elliptic partial differential equations: A survey", *International journal of Nonlinear Sciences*, Vol.17 No.3, pp.195- 214, 2014. [Cited by Google-0, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJ-53*

40. Kumar M., **Singh A. K.**, Srivastava A, "Various Newton type iterative methods for solving nonlinear equations", *Journal of Egyptian Mathematical Society*, Vol. 21, pp.334-339, 2013. [Cited by Google-4, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil].

41. Agarwal S., **Rana P.**, "Thermal stability analysis of rotating porous layer with thermal non-equilibrium approach utilizing Al_2O_3–EG Oldroyd-B nanofluid", *Microfluidics and Nanofluidics*, Vol. 19, Issue 1, pp. 117-131, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.432, IPP-2.893, SJR-0.946, JCR Impact Factor-2.67, H-Index-48]. *IJ-12*

42. **Rana P.**, Agarwal S., "Convection in a binary nanofluid saturated

33 | P a g e

rotating porous layer", *Journal of Nanofluids*, Vol. 4, Issue 1, pp. 1-7, 2015. [Cited by Google-4, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJ-16*

43. Agarwal S., **Rana P.**, and Bhadauria B.S., "Rayleigh Benard Convection in a Nanofluid Layer Using a Thermal Nonequilibrium Model", *Journal of Heat Transfer*, Vol. 136, pp. 122501(1-14), 2014. [Indexed in Scopus] [Cited by Google-2, Cited by Scopus-, SNIP-1.207, IPP-2.032, SJR- 1.072, JCR Impact Factor-1.83, H-Index-81].

44. **Rana P.**, Beg O. A., "Mixed convection flow along an inclined permeable plate: effect of magnetic field, nanolayer conductivity and nanoparticle diameter", *Applied Nanoscience*, Vol 5, Issue 5, pp. 569-581, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJ-13*

45. Sheikholeslami M., Gorji-Bandpy M., Ganji D.D., **Rana P.**, Soleimani S., "Magnetohydrodynamic free convection of Al_2O_3-water nanofluid considering Thermophoresis and Brownian motion effects", *Computers and Fluids*, Vol. 94, pp. 147-160, 2014. [Indexed in Scopus] [Cited by Google-56, Cited by Scopus- 34, SNIP- 1.997, IPP- 1.911, SJR- 1.156, JCR Impact Factor-1.532, H-Index-57] . *IJ-46*

Statistics, Queueing, Fuzzy and Information Theory

46. Gupta, N., Mishra, G.D. and **Choubey(Tripathi), A.**, "Performance analysis of queuing model M/M/1/N with balking and reneging", *International Journal of Pure and Applied Mathematical Sciences*, Vol LXX, pp. 59-65, 2009. [Cited by Google – 2] *IJ-144*

47. Gupta, N., Mishra, G.D.and **Choubey(Tripathi), A.**, "Performance analysis of an M/M/1/K queue with non-preemptive priority", *International Journal of Mathematical Sciences and Engineering Applications*, Vol 3, No. 2, pp. 285-292, 2009. *IJ-145*

48. Gupta, N., Mishra, G.D. and **Choubey(Tripathi), A.**, "Performance analysis of an M/M/1/K queue with preemptive priority", *International Journal of Business Research*, pp. 50-56, 2009. *IJ-147*

49. Gupta, N, Mishra, G.D. and **Choubey(Tripathi), A.**, "Performance analysis of an queueing model M/M/c/N with balking and reneging", *International Journal of Computer, Mathematical Sciences and Applications*, Vol 2, No. 4, pp. 355-339, 2008. *IJ-154*

50. Khanna V., Das B. K., **Bisht D.** ,Vandana, Singh, P.K., "A Three Diode Model for Industrial Solar Cells and Estimation of Solar Cell Parameters using PSO Algorithm", *Renewable Energy,* Vol.78, ISSN: 0960-1481 pp.108-113, 2015. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-1, SNIP-2.681, IPP-4.022, SJR-2.2560, JCR Impact Factor-3.361, H-Index-82]. *IJ-10*

51. Raju M.M., Kumar A., **Bisht D.**, Rao D.B., "Stochastic Analysis of Wind Energy for Wind Pump Irrigation in Coastal Andhra Pradesh, India", *Journal of The Institution of Engineers (India): Series A,* Vol.*95* Issue 3*,* pp.157-168, 2014. *IJ-44*

52. Khanna V., Das B. K., **Bisht D.** ,Vandana, Singh P.K., *"*Estimation of Photovoltaic Cells Model Parameters using Particle Swarm Optimization*". Physics of Semiconductor devices, Environmental science and Engineering (Springer International Publishing),* pp. 391-397, 2014. *IJ-45*

53. **Sharma B.D.**, Sookoo N., Generalized Krawtchouk polynomials and the complete weight enumerator of the dual code, Vol. 14, Issue 6, pp. 503-514 (2011).

54. **Sharma B.D.**, Sookoo, N., "Eigenvalues of the difference matrices of the Lee partition", Journal of Discrete Mathematical Sciences and Cryptography, Vol. 13, Issue 2, pp. 175-183, 2010. *IJ-140*

1. Publications in International Journals

<u>**2015**</u>

1. **Srivastava P. K.**, "Application of Higher Order Splines for Boundary Value Problems", *International Journal for Computational Methods in Engineering Science and Mechanics*, Vol. 10(1), pp. 108-115, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].

2. Upadhyay M., Awasthi S. K.., Shiveshwari L., **Srivastava P. K.**, Ojha S. P. : "Thermally Tunable Photonic Filter for WDM Networks Using 1D Superconductor Dielectric Photonic Crystals", *Journal of Superconductivity and Novel Magnetism*, Vol. 28, pp. 2275-2280, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-0.658, IPP-0.882, SJR-0.368, JCR Impact Factor-0.909, H-Index-27].

3. **Kaur L.**, "New Similarity Reductions and Exact Solutions of Generalized Fifth Order KdV Equation with Variable Coefficients", *International Journal of Nonlinear Science*, Vol. 19, pp. 170-175, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].

4. Jain S**., Bisht D.**, "Genetic Algorithms based fuzzy time series prediction for water table elevation fluctuation", *Aloy journal of Soft Computing and Application*, Vol.3 (1), pp.14-23, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-].

5. Maheshwari S., **Srivastava A.**, "Some New results on information Transmission over noisy channels", *Demonstratio Mathematica*, Vol. 48(3), pp. 462-472, 2015. [Indexed in][Cited by Google-0, Cited by Scopus-0, SNIP-0.591, IPP-0.266, SJR-0.257, JCR Impact Factor-0, H-Index-4].

6. **Srivastava G.S.** and Singhal C., *"*On the generalized order and generalized type of Laplace-Stieltjes transformation convergent in the right half-plane*"*, *Global Journal of Pure and Applied Mathematics*. Volume 11, Number 1, pp. 469-477, 2015. [Indexed in Scopus][Cited by Scopus-0, SNIP-, IPP-, SJR-0.19, Imapct Factor-2.38,H-Index-3]. *IJNP-1*

7. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of nonlinear magneto-micropolar stagnation point flow

from a porous stretching sheet with prescribed skin friction", *Computational Thermal Sciences*, 7(1): 1-14 (2015). [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-0.390, IPP-0.317, SJR-0.229, JCR Impact Factor-, H-Index-7]. *IJNP-2*

8. G. Swapna, **Kumar L.**, **Rana P.** and **Singh B.**, "Finite element modeling of a double-diffusive mixed convection flow of a chemically-reacting magneto-micropolar fluid with convective boundary condition", *Journal of the Taiwan Institute of Chemical Engineers*, Vol. 47, pp. 18-27 (2015). [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-1.255, IPP-2.500, SJR-0.731, JCR Impact Factor-2.637, H-Index-24]. *IJNP-3*

9. Swapna G., **Kumar L.** and Bhardwaj N., "Study of effects of radiation and magnetic field on the mixed convection micropolar fluid flow towards a stagnation point on a heated vertical permeable plate using finite element method", *International Journal of Mechanic Systems Engineering*, Vol. 5, Iss. 1, pp. 1-13(2015) [Indexed in][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJNP-4*

10. **Kumari P.,** Sharma V.K., Modi C., "Propagation of torsional waves in an inhomogeneous sandwiched layer between inhomogeneous semi-infinite media", *Journal of Engineering Mathematics,* Vol. 90, pp.1-11, 2015. [Indexed in Scopus] [Cited by Google-0, Cited by Scopus- 0, SNIP- 1.408, IPP- 1.145, SJR- 0.707, JCR Impact Factor-1.069, H-Index-32]. *IJNP-5*

11. Chattopadhyay A., **Kumari P.**, Sharma V. K., "Reflection and refraction at the interface between distinct generally anisotropic half spaces for three-dimensional plane quasi P waves", *Journal of Vibration and Control (SAGE),* Vol. 21, pp. 493-508, 2015. [Indexed in Scopus] [Cited by Google-3, Cited by Scopus- 0, SNIP- 1.229, IPP-3.846, SJR- 0.723, JCR Impact Factor-4.355, H-Index-38]. *IJNP-6*

12. **Singh A. K.,** "Variations on effect algebras", *Proceedings of National Academy of* Sciences, India Section A: Physical Sciences, Vol. 85, pp.83-86, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-.324, IPP-.229, SJR-.118, JCR Impact Factor-0.179, H-Index-4]. *IJNP-7*

13. **Singh A. K.,** Kumar M., "Multi-peak solution of non-Linear elliptic singularly perturbed reaction-diffusion equations using finite element simulations", *Journal of Taiwan Institute of Chemical Engineers*, Vol.50, pp.56-68, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.255, IPP-2.500, SJR-.731, JCR Impact Factor-

2.637, H-Index-24]. *IJNP-8*

14. Kumar M., **Singh A. K.**, Srivastava A, "A new fifth order derivative free Newton type iterative method for solving nonlinear equations", *Applied Mathematics and Information Sciences*, Vol. 9 ,No. 3 pp. 1507-1513, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.467, IPP-1.168, SJR-.429, JCR Impact Factor-1.232, H-Index-12]. *IJNP-9*

15. Khanna V., Das B. K., **Bisht D.** ,Vandana, Singh, P.K., "A Three Diode Model for Industrial Solar Cells and Estimation of Solar Cell Parameters using PSO Algorithm", *Renewable Energy,* Vol.78*,* ISSN: 0960-1481 pp.108-113, 2015. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-1, SNIP-2.681, IPP-4.022, SJR-2.2560, JCR Impact Factor-3.361, H-Index-82]. *IJNP-10*

16. Pragesh N., **Gupta Y.**, "B-spline approach for solving boundary value problems", *Global Journal of Pure and Applied Mathematics,* Vol. 11, Number 2, pp. 1037-1047, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-0.682, IPP-0.163, SJR-0.193, JCR Impact Factor-Nil, H-Index-3]. *IJNP-11*

17. Agarwal S., **Rana P.**, "Thermal stability analysis of rotating porous layer with thermal non-equilibrium approach utilizing Al_2O_3–EG Oldroyd-B nanofluid", *Microfluidics and Nanofluidics*, Vol. 19, Issue 1, pp. 117-131, 2015. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.432, IPP-2.893, SJR-0.946, JCR Impact Factor-2.67, H-Index-48]. *IJNP-12*

18. **Rana P.**, Beg O. A., "Mixed convection flow along an inclined permeable plate: effect of magnetic field, nanolayer conductivity and nanoparticle diameter", *Applied Nanoscience*, Vol 5, Issue 5, pp. 569-581, 2015. [Cited by Google-0, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJNP-13*

19. Dhanai R., **Rana P.**, **Kumar L.**, "Multiple solutions of MHD boundary layer flow and heat transfer behavior of nanofluids induced by a power-law stretching/shrinking permeable sheet with viscous dissipation", *Powder Technology*, Vol. 273, pp. 62-70, 2015. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus-3, SNIP-1.877, IPP-2.484, SJR-0.944, Impact Factor-2.27, H-Index-77]. *IJNP-14*

20. **Rana P.,** "Corrigendum to 'Numerical solution for mixed convection boundary layer flow of a nanofluid along an inclined plate embedded in a porous medium'", *Computers and Mathematics with Applications*, Vol. 69, Issue 12, pp. 1518, 2015. [Indexed in Scopus] [Cited by

Google-0, Cited by Scopus-0, SNIP-1.936, IPP-2.498, SJR-1.343, JCR Impact Factor-1.996, H-Index-69]. *IJNP-15*

21. **Rana P.**, Agarwal S., "Convection in a binary nanofluid saturated rotating porous layer", *Journal of Nanofluids*, Vol. 4, Issue 1, pp. 1-7, 2015. [Cited by Google-4, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJNP-16*

2014

22. **Singh B.**, **Bhardwaj A.**, "Wavelet optimized finite difference mesh for MHD flow in a circular duct", Computers & Mathematics with Applications, Vol. 67, Issue 8, pp. 1582-1594, 2014. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.936, IPP-2.498, SJR-1.343, JCR Impact Factor-1.996, H-Index-69].*IJP-03*

23. Akanksha and **Srivastava G.S.**, "Multipliers in spaces of vector valued entire Dirichlet series",*J.Classical Anal.*,Vol.4,number 1,89-95, 2014. [Indexed in Mathematical Reviews (MathSciNet)]. *IJNP-17*

24. **Srivastava G.S.** and Singhal C., "On the generalized type and generalized lower type of entire function in complete Reinhardt domain", *J. Mod. Meth. in Numer. Math.* ,Vol.5, number 2, 28-38, 2014. *IJNP-18*

25. Akanksha and **Srivastava G.S.,** "Spaces of vector-valued Dirichlet series in a half plane",*Front. Math. China*, Vol. 9,number 6, 1239-1252, 2014. [Indexed in Scopus][Cited by Scopus-0, SNIP-0.688, IPP-0.450, SJR-0.390, Impact Factor-0.452, H-Index-11]. *IJNP-19*

26. Kumar S. and **Srivastava G.S.,** "On the maximum term and lower order of entire monogenic functions", *Transylv. J. Math. and Mech.*,Vol.6,Number 1, 29-38, 2014. [Indexed in Mathematical Reviews]. *IJNP-20*

27. Ravi K. M., **Choubey (Tripathi) A.**, Tripathi K. K., "Intuitionistic Fuzzy Automata for Approximate String Matching", *International Journal of Fuzzy Information and Engineering*, Vol. 6, pp. 29-39, 2014. *IJNP-21*

28. **Tripathi A.**, Tyagi K., "A note on rough sets", International Journal of Mathematical sciences, Vol. 13. pp. 1-10, 2014. *IJNP-22*

29. Goyal M., Yadav D., **Tripathi A.**, "Intuitionistic fuzzy approach to classify the user based on assessment of learner's knowledge level in e-learning decision making", *Journal of information processing system*, 2014. [Indexed in Scopus][Cited by Google - 0, Cited by

Scopus-0, SNIP- 1.704, IPP- 0.660, SJR -0.175, H-Index-5]. *IJNP-23*

30. **Tripathi A.**, Tyagi K., "Approximate equalities using topological space", *International Journal Granular Computing, Rough Sets and Intelligent Systems,* Vol. 3, pp. 272-291, 2014 . *IJNP-24*

31. **Aggarwal A. K.,** Verma A., "The effect of compressibility, rotation and magnetic field on thermal stability of Walters' fluid permeated with suspended particles in porous medium", *Thermal Science*, Vol. 18, Suppl. 2, pp. S539-S550, 2014. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-1.03, IPP-1.028, SJR-0.481, JCR Impact Factor-1.45, H-Index-15]. *IJP-40*

32. **Aggarwal A. K.,** Makhija S., "Hall effect on thermal stability of ferromagnetic fluid in porous medium in the presence of horizontal magnetic field", *Thermal Science*, Vol.18, Suppl. 2, pp. S503-S514, 2014. [Indexed in Scopus][Cited by Google-4, Cited by Scopus-1, SNIP-1.03, IPP-1.028, SJR-0.481, JCR Impact Factor-1.45, H-Index-15]. *IJP-41*

33. Sharma R., **Aggarwal A. K.,** Sharma S. "Collapse Pressure Analysis in Torsion of a Functionally Graded Thick-Walled Circular Cylinder under External Pressure", *ELSEVIER'S Procedia Engineering*, Vol. 86, pp.738–747, 2014. [Indexed in SCOPUS] [Cited by Google-1, Cited by SCOPUS- 0, SNIP- Nil, IPP-0.36, SJR- 0.22, JCR Impact Factor - Nil, H-index- 11]. *IJNP-25*

34. **Aggarwal A.K.**, Sharma R., **Sharma S.**, "Collapse Pressure Analysis of Transversely Isotropic Thick-walled Cylinder using Lebesgue Strain Measure and Transition Theory", *The Scientific World Journal*, Vol. 2014, pp. 1-10, 2014. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-0.572., IPP-1.201, SJR-0.462, JCR Impact Factor-1.73, H-Index-40]. *IJP-1*

35. **Prasad B.** and Katiyar K., "Stability and fractal patterns of complex logistic map," *Cybernetics and Information Technologies*, Vol. 14, Issue 3, pp.14–24, 2014. [Cited by Google-Nil, Cited by Scopus- Nil, NIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-Nil, H-Index-2]. *IJNP-26*

36. **Prasad B.** and Katiyar K., "A stability analysis of logistic model", *International Journal of Nonlinear Sciences*, Vol. 17, Issue 1, pp. 71-79, 2014.[Cited by Google-2,Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJNP-27*

37. **Prasad B., Singh B.** and Katiyar K., "Modeling curves via fractal interpolation with VSFF", *International Journal of Computer Applications*, Special Issue ICACEA-2014, pp. 191-194, 2014. [Cited by Google-2,Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJNP-28*

38. **Sharma S.,** Ila Sahai, Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Circular Cylinder under Internal and External Pressure", "*Multidiscipline Modelling in Materials and Structures*", Vol. 10, Issue 2, pp. 211-227, 2014. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-0, SNIP- 0.336, IPP- 0.545, SJR- 0.245, JCR Impact Factor - Nil, H-Index-7]. *IJNP-29*

39. Saxena P. and **Kumar L.**, "Theoretical study of the effect of the magnetic field on cardiovascular problems taking the approach of channel of varying gap bounded by a porous medium", *Int. J. of Appl. Math and Mech.*, 10 (9): 76-95, 2014 [Indexed in Zentralblatt database][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJNP-30*

40. Saxena P. and **Kumar L.**, "A study of the effect of magnetic field on the rotation of a viscous fluid near a porous medium with a constant suction", *International Journal of Engineering, Science and Technology*, Vol. 6, No. 4, 64-76 (2014). [Indexed in][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJNP-31*

41. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element analysis of transient heat and mass transfer in microstructural boundary layer flow from a porous stretching sheet", *Computational Thermal Sciences*, Vol. 6 (2): 155–169 (2014). [Indexed in Scopus][Cited by Google-, Cited by Scopus-0, SNIP-0.390, IPP-0.317, SJR-0.229, JCR Impact Factor-, H-Index-7]. *IJNP-32*

42. Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of mixed convection flow of micropolar fluid over a shrinking sheet with thermal radiation", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, Vol. 228, 61-72 (2014). [Indexed in Scopus][Cited by Google-8, Cited by Scopus-2, SNIP-0.742, IPP-0.506, SJR-0.263, JCR Impact Factor-0.547, H-Index-16]. *IJP-31*

43. Gupta D., **Kumar L.** and **Singh B.**, "Finite element solution of unsteady mixed convection flow of micropolar fluid over a porous shrinking sheet", *The Scientific World Journal*, Vol. 2014, Article ID 362351, 11 pages (2014). [Other Impact Factor: 1.219] [Indexed in

Scopus][Cited by Google-2, Cited by Scopus-0, SNIP-0.572, IPP-1.201, SJR-0.462, JCR Impact Factor-, H-Index-40]. *IJP-2*

44. **Kumari Pato,** Sharma V. K. and Modi Chitra, , Reflection/refraction pattern of quasi-(P/SV) waves in dissimilar monoclinic media separated with finite isotropic layer, Published online in *Journal of Vibration and Control (SAGE),* 2014. DOI: 10.1177/1077546314548911. [Indexed in Scopus] [Cited by Google-3, Cited by Scopus- 0, SNIP- 1.229, IPP- 3.846, SJR- 0.723, JCR Impact Factor-4.355, H-Index-38]. *IJNP-33*

45. **Kumari P.,** Sharma V.K., "Propagation of torsional waves in a viscoelastic layer over an inhomogeneous half space", *Acta Mechanica*, Vol. 225, pp. 1673-1684, 2014. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus- 0, SNIP- 1.235, IPP- 1.432, SJR- 0.952, JCR Impact Factor-1.268, H-Index-44]. *IJNP-34*

46. Chattopadhyay A., **Kumari P.**, Sharma V.K., "Reflection and transmission of three dimensional qP wave through layered fluid medium between two distinct triclinic half-spaces", *International Journal of Geomechanics (ASCE),* Vol. *14, pp.182-190, 2014.* [Indexed in Scopus] [Cited by Google-1, Cited by Scopus- 0, SNIP- 2.278, IPP- 1.447, SJR- 1.778, JCR Impact Factor-1.268, H-Index-25]. *IJP-18*

47. **Srivastava P. K.,** "Study Of Differential Equations With Their Polynomial And Nonpolynomial Spline Based Approximation", *Acta Tehnica Corviniensis – Bulletin of Engineering, Vol.* 7, Issue 3, 2014. *IJNP-35*

48. Kumar M., **Singh A. K**, "Singular perturbation problems in nonlinear elliptic partial differential equations: A survey", *International journal of Nonlinear Sciences*, Vol.17 No.3, pp.195- 214, 2014. [Cited by Google-0, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJNP-36*

49. Raju M.M., Kumar A., **Bisht D.** ,Rao D.B., "Stochastic Analysis of Wind Energy for Wind Pump Irrigation in Coastal Andhra Pradesh, India", *Journal of The Institution of Engineers (India): Series A,* Vol.*95* Issue 3, pp.157-168, 2014. *IJNP-37*

50. Khanna V., Das B. K., **Bisht D.** ,Vandana, Singh P.K., "Estimation of Photovoltaic Cells Model Parameters using Particle Swarm Optimization". *Physics of Semiconductor devices, Environmental science and Engineering (Springer International Publishing),* pp. 391-397, 2014. *IJNP-38*

51. Sheikholeslami M., Gorji-Bandpy M., Ganji D.D., **Rana P.**, Soleimani S., "Magnetohydrodynamic free convection of Al_2O_3-water nanofluid considering Thermophoresis and Brownian motion effects", *Computers and Fluids*, Vol. 94, pp. 147-160, 2014. [Indexed in Scopus] [Cited by Google-56, Cited by Scopus- 34, SNIP- 1.997, IPP-1.911, SJR- 1.156, JCR Impact Factor-1.532, H-Index-57] *IJP-5*

52. Agarwal S., **Rana P.**, and Bhadauria B.S., "Rayleigh Benard Convection in a Nanofluid Layer Using a Thermal Nonequilibrium Model", *Journal of Heat Transfer*, Vol. 136, pp. 122501(1-14), 2014. [Indexed in Scopus] [Cited by Google-2, Cited by Scopus-, SNIP-1.207, IPP-2.032, SJR- 1.072, JCR Impact Factor-1.83, H-Index-81] *IJNP-39*

53. Dawn S., Saxena V., **Sharma B.D.**, "Advanced Free-form Deformation and Kullback-Lieblier Divergence Measure for Digital Elevation Model Registration", *Journal of Signal, Image and Video Processing*, pp. 1-11, 2014, DOI 10.1007/s11760-014-0621-z. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-0.874, IPP-0.752, SJR-0.287, JCR Impact Factor-1.019, H-Index-10]. *IJP-4*

54. Verma R., **Sharma B.D.**, "A new inaccuracy measure for fuzzy sets and its applications in multi-criteria decision-making," *International Journal of Intelligent Systems and Applications*, Vol.6, pp. 62-69, 2014. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-, IPP-, SJR-, JCR Impact Factor-0.936, H-Index-23]. *IJP-6*

55. Verma R., **Sharma B.D.**, "Entropic measure of a probability sample space and exponential type-(α,β) entropy", *International Journal of Mathematical, Computational, Physical and Quantum Engineering*, Vol.8, pp. 117-122, 2014. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJP-7*

56. Verma R., **Sharma B.D.**, "Intuitionistic fuzzy Einstein prioritized weighted operators and their application to multiple attribute group decision making," *Applied Mathematics and Information Sciences*, 2014. [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-1.467, IPP-1.168, SJR-0.429, JCR Impact Factor-1.232, H-Index-12]. *IJNP-40*

57. Verma R., **Sharma B.D.**, "A new measure of inaccuracy with its application to multi-criteria decision making under intuitionistic fuzzy environment", *Journal of Intelligent and Fuzzy Systems*, Vol. 10, No. 4, 1811-1824, 2014. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-1.031, IPP-0.867, SJR-0.334, JCR Impact Factor-

0.936, H-Index-23]. *IJNP-41*

58. Verma R., **Sharma B. D.,** "Fuzzy generalized prioritized weighted average operator and its application to multiple attribute decision making," International Journal of Intelligent Systems, Vol. 29, Issue 1, 26–49, 2014. [Indexed in Scopus][Cited by Google-2, Cited by Scopus-0, SNIP-1.690, IPP-2.286, SJR-1.268, JCR Impact Factor-1.411, H-Index-46]. *IJP-22*

2013

59. **Srivastava G.S.,** "A note on relative type of entire functions represented by vector valued Dirichlet series", *J.Classical Anal.*,Vol. 2,number 1,61-72, 2013.[Indexed in Mathematical Reviews (MathSciNet)]. *IJP-32*

60. **Srivastava G.S**., "Generalized order and type of entire functions and best approximation in *L p- norm*", *Ann.Univ.Ferrara*, Vol.59, 393-401, 2013. [Indexed in Scopus-0][Cited by Scopus, SNIP-1.102, IPP-1.056, SJR-0.570, H-Index-12]. *IJP-48*

61. **Choubey (Tripathi) A.,** Ravi K. M., "Minimization of determisnistic finite automata with vague (final) states and intuitionistic fuzzy (final) states", *Iranian Journal of Fuzzy Systems*, Vol. 10, pp. 75-88, 2013. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-0.833, IPP-0.486, SJR-1.086, JCR Impact Factor-1.09, H-Index-11]. *IJP-17*

62. **Aggarwal A.K.**, Sharma R., **Sharma S.,** "Safety Analysis using Lebesgue Strain Measure of Thick-Walled Cylinder for Functionally Graded Material under Internal and External Pressure", *The Scientific World Journal*, Vol. 2013, dx.doi.org/10.1155/2013/676190, pp. 1-10, 2013. [Indexed in Scopus][Cited by Google-4, Cited by Scopus-3, SNIP-0.572., IPP-1.201, SJR-0.462, JCR Impact Factor-1.73, H-Index-40]. *IJP-12*

63. **Prasad B.** and Mishra K., "A combined encryption compression scheme using chaotic maps", *Cybernetics and Information Technologies,* Vol. 13, Issue 2, pp.75–81, 2013. [Cited by Google-4, Cited by Scopus-1, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-Nil, H-Index-2]. *IJP-11*

64. **Prasad B.** and Sahni R., "Common fixed point theorems in fuzzy metric spaces", *Acta et Commentationes Universitatis Tartuensis de Mathematica ACUTM*, Vol. 17, Issue 2, pp.117-125, 2013. [Cited by Google-2, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJSP-1*

65. **Prasad B.** and Sahni R., "Endpoints of multivalued contraction operators", *ISRN Mathematical Analysis,* Vol. 2013, pp. 1-7, 2013. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJSP-2*

66. **Prasad B.** and Mishra K., "Fractals in G-metric spaces", *Applied Mathematical Sciences*, Vol. 7, Issue 109, pp. 5409 - 5415, 2013. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-0.781, IPP-0.673, SJR-0.466, JCR Impact Factor-Nil, H-Index-19]. *IJP-09*

67. **Sharma S**., Yadav S., "Thermo Elastic-Plastic Analysis of Rotating Functionally Graded Stainless Steel Composite Cylinder under Internal and External Pressure Using Finite Difference Method", *Advances in Materials Science and Engineering*, Vol. 2013, http://dx.doi.org/10.1155/2013/810508, pp. 1-10, 2013. [Indexed in SCOPUS] [Cited by Google-1, Cited by SCOPUS-1, SNIP- 0.454, IPP- 0.561, SJR- 0.226, JCR Impact Factor-0.897, H-Index-5]. *IJP-8*

68. **Sharma S.,** Sahni M., "Creep Analysis of Thin Rotating Disc Having Variable Thickness and Variable Density with Edge Loading", *Annals of Faculty Engineering Hunedoara- International Journal of Engineering*, Tome XI- Fascicule-3, pp. 279-296, 2013. [Indexed in Copernicus] [Cited by Google-1, Cited by SCOPUS-0, SNIP- Nil, IPP-Nil, SJR- Nil, JCR Impact Factor- Nil, H-Index- Nil]. IJP-23

69. **Sharma S., Aggarwal A.K.,** Sharma R., "Safety Analysis of Thermal Creep Non-Homogeneous Thick-Walled Circular Cylinder under Internal and External Pressure using Lebesgue Strain Measure", "*Multidiscipline Modelling in Materials and Structures*" Vol. 9, Issue 4, pp. 499-513, 2013. [Indexed in SCOPUS] [Cited by Google-4, Cited by SCOPUS-4, SNIP- 0.336, IPP- 0.545, SJR- 0.245, JCR Impact Factor - Nil, H-Index-7]. *IJP-13*

70. **Sharma S.,** Sahai I., Kumar R., "Creep Transition of a Thin Rotating Annular Disk of Exponentially Variable Thickness with Inclusion and Edge Load", *Elsevier's Procedia Engineering*, Vol. 55, pp. 348-354, 2013. [Indexed in SCOPUS] [Cited by Google-6, Cited by SCOPUS-1, SNIP- Nil, IPP-0.36, SJR- 0.22, JCR Impact Factor-Nil, H-Index-11]. *IJP-16*

71. **Sharma S.,** Sahni M., "Thermo Elastic-plastic Transition of a Homogeneous Thick-walled Circular Cylinder under External pressure" *Structural Integrity and Life*, Vol. 13(1), pp. 3-8, 2013. Cited by Google-3. *IJP-29*

72. **Sharma S.,** Sanehlata, "Finite Difference Solution of Elastic-Plastic Thin Rotating Annular Disk with Exponentially Variable Thickness and Exponentially Variable Density", *Journal of Materials*, Vol. 2013, pp. 1-9, 2013. [Indexed in INSPEC] [Cited by Google-0, Cited by SCOPUS-0, SNIP- Nil, IPP- Nil, SJR- Nil, JCR Impact Factor- Nil, H-Index-Nil]. *IJP-30*

73. **Srivastava A.** & Maheshwari S., "A New Parametric Fuzzy Entropy Measure and Its properties" to be presented in *Twenty-first International Conference on Information and Mathematical Sciences* to be organized by Baba Farid College of Engineering & Technology, Bhatinda in collaboration with Indian Society of Information Theory & Its Applications from 24th October, 2013 to 26th October, 2013.(Proceedings published by Springer) [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJSP-3*

74. **Srivastava A.**, Singh A.K. & Maheshwari, S. "Dichotomous Exponential Entropy Functional and Its Applications in Medical Diagnosis" *IEEE International Conference on Signal Processing and Communication (ICSC-2013)*, pp. 21-26, 2013 organized by Jaypee Institute of Information Technology, Noida from 12th December to 14th December, 2013.(Proceedings published by IEEE) [Indexed in Scopus] [Cited by Google-2, Cited by Scopus- 2, SNIP-, IPP- 1.911, SJR-, JCR Impact Factor-, H-Index-] *IJSP-4*

75. Chattopadhyay, A., Gupta, S., **Kumari P**., Sharma, V. K., "Torsional wave propagation in non homogeneous layer between non homogeneous half spaces", *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 37, pp.1280-1291, 2013. [Indexed in Scopus] [Cited by Google-6, Cited by Scopus- 2, SNIP-1.861, IPP-1.739, SJR-1.864, JCR Impact Factor-1.561, H-Index-49]. *IJP-19*

76. **Singh A. K**, "A study of Non-atomic measures and integrals on effect algebras", *Journal of Nonlinear Analysis and Optimization: Theory and Applications*, Vol. 4 (1), pp.99-110, 2013. [Cited by Google-0, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-27*

77. Kumar M., **Singh A. K.**, Srivastava A, "Various Newton type iterative methods for solving nonlinear equations", *Journal of Egyptian Mathematical Society*, Vol. 21, pp.334-339, 2013. [Cited by Google-4, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-28*

78. Verma R., **Sharma B.D.**, "Exponential entropy on intuitionistic fuzzy sets", *Kybernetika*, Vol. 49, pp. 114-127, 2013. [Indexed in Scopus][Cited by Google-2, Cited by Scopus-3, SNIP-0.786, IPP-0.678, SJR-0.358, JCR Impact Factor-0.62, H-Index-22]. *IJSP-5*

79. **Sharma B.D.,** Gaur A., Codes correcting limited patterns of random errors using S-K metric, *Cybernetics and Information Technologies*, Vol. 13, pp. 34-45, 2013. [Indexed in Scopus][Cited by Google-2, Cited by Scopus-2, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-02]. *IJP-20*

80. Dawn S., Saxena V., **Sharma B.D.**, "Cognitive-mapping and contextual pyramid based Digital Elevation Model Registration and its effective storage using fractal based compression," International Journal of Computer Science, Vol.10, pp.126-135, 2013. [Cited by Google-0, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-].*IJP-24*

81. Gaur A., **Sharma B.D.**, "Upper Bound on Correcting Partial Random Errors", Cybernetics And Information Technologies, Volume **13**, No 3, 41-49, 2013. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-02]. IJP-15

82. Verma R., **Sharma B.D.**, "Intuitionistic fuzzy Jensen-Rényi divergence: Applications to multiple-attribute decision-making," *Informatica-An International Journal of Computing and Informatics*, Vol.37, pp. 399-409, 2013. [Indexed in Scopus][Cited by Google-1, Cited by Scopus-0, SNIP-0.859, IPP-0.902, SJR-0.378, JCR Impact Factor-1.120, H-Index-2]. *IJP-25*

83. Verma R. and **Sharma B. D.**, "New operations over hesitant fuzzy sets", *Fuzzy Information and Engineering*, Vol. 5, pp. 129-146, 2013. [Cited by Google-4, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-].*IJP-33*

84. Verma R., **Sharma B.D.**, "Some new equalities connected with intuitionistic fuzzy sets," *Notes on Intuitionistic Fuzzy Sets*, Vol.19, pp. 25-30, 2013. [Cited by Google-3, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJSP-6*

85. Gaur A., **Sharma B.D.**, "Perfect codes using class metric", *International Journal of Research in Information Technology*, Vol.1, pp. 81-90, 2013. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR- , JCR Impact Factor- , H-Index-02]. *IJP-14*

2012

86. **Singh B.,** Bhardwaj A., Ali R., "Wavelet Optimized Adaptive Mesh for MHD Flow Problems", *Applied Mathematics*, Scientific Research, USA, Vol. 3, pp. 127-134, 2012. [Cited by Google-1, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-55*

87. **Srivastava G.S.** and Ganti R., "Approximation of entire functions of two complex   variables over Jordan domains", *Tamsui Oxford J.Information and Math. Sci.*, Vol. 28, num.4, 349-368,2012. [Indexed in Scopus][Cited by Scopus-0, SNIP-0.432, IPP-0.152, SJR-0.170, H-Index-4]. *IJP-50*

88. Goyal M., Yadav D., **Choubey (Tripathi) A.,** "E-learning: current state of art and future prospects", *International Journal of Computer Science Issues*, Vol. 9, Issue 3, pp. 490-499, 2012. [Cited by Google-10, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, H-index-0]. *IJP-46*

89. **Aggarwal A.K.,** Verma A., "Effect of suspended particles, magnetic field and rotation on the thermal stability of a ferromagnetic fluid", *International Journal of Applied Mechanics and Engineering*, Vol. 17, No. 4, pp.1109-1122, 2012. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-1, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-51*

90. **Aggarwal A.K.,** Makhija, S., "Hall effect on thermal stability of ferromagnetic fluid in the presence of suspended particles", *International Journal of Applied Mechanics and Engineering,* Vol.17, No. 2, pp. 349-365, 2012. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-3, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-52*

91. **Prasad B.** and Katiyar K., "Dynamics of Julia sets of complex exponential function", *Communications in Computer and Information Science*, Vol. 283, pp. 185–192, 2012. [Cited by Google-1, Cited by Scopus-1, SNIP-0.158, IPP-0.091, SJR-0.136, JCR Impact Factor-Nil, H-Index-12]. *IJSP-7*

92. **Prasad B., Singh B.** and Katiyar K., "A method of curve fitting by recurrent fractal interpolation", *International Journal of Computer Application(ICCIA 2012),*Special issue ICCIA(3), pp. 5-8, 2012. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJSP-88*

93. **Prasad B.,**   "Fractals for A-iterated function and multifunction", *International Journal of Applied Engineering Research,* Vol.7, Issue

11, pp. 2032-2036, 2012. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-0.034, IPP-0.015, SJR-0.127, JCR Impact Factor- Nil, H-Index-3] *IJP-10*

94. **Sharma S.,** Sahni M., Sanehlata, "Elastic-Plastic Analysis of a Thin Rotating Disk of Exponentially Variable Thickness with Inclusion", *Applied Mathematical Science*, Vol. 6, No. 122, pp. 6069–6074, 2012. [Indexed in SCOPUS] [Cited by Google-0, Cited by SCOPUS-0, SNIP- 0.781, IPP- 0.673, SJR- 0.466, JCR Impact Factor-Nil, H-Index-19]. *IJP-37*

95. **Sharma S.,** Thakur P., Sahni M., "Elastic-plastic Analysis for Finite Deformation of a Rotating Disk of Exponentially Varying Thickness with Edge Load and Inclusion", *Annals of Faculty Engineering Hunedoara- International Journal of Engineering*, Tome X- Fascicule, pp. 225-232, 2012. [Indexed in Copernicus] [Cited by Google-1, Cited by SCOPUS-0, SNIP- Nil, IPP- Nil, SJR- Nil, JCR Impact Factor- Nil, H-Index- Nil]. *IJP-49*

96. **Sharma S.,** Sahai I., Kumar R., "Creep Transition in Non Homogeneous Thick Walled Circular Cylinder under Internal and External Pressure", *Applied Mathematical Science*, Vol. 6, No. 122, pp. 6075 – 6080, 2012. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-2, SNIP- 0.781, IPP- 0.673, SJR- 0.466, JCR Impact Factor-Nil, H-Index-19]. *IJP-38*

97. Saxena P. and **Kumar L.**, "Flow of a viscous fluid through different porous structures embedded in porous medium", *Journal of Porous Media*, Vol. 15, Issue 12, 1125-1135 (2012). [Indexed in Scopus][Cited by Google-1, Cited by Scopus-1, SNIP-0.469, IPP-0.561, SJR-0.308, JCR Impact Factor-0.467, H-Index-21]. *IJP-36*

98. Saxena P. and **Kumar L.**, "A study of the effect of magnetic field on the rotation of a heated impervious disk in a second grade fluid bounded by a porous medium", *Int. J. of Appl. Math and Mech.*, Vol. 8 (11), 99-116 (2012). [Indexed in Zentralblatt database] [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJP-56*

99. Saxena P. and **Kumar L.**, "A study of the effect of permeability of rocks in Tsunami generation and propagation by seismic faulting using linearized shallow –water wave theory", *Science of Tsunami Hazards* (ISSN: 8755-6839), Vol. 31, No. 1, 62-81 (2012). [Indexed in Scopus][Cited by Google-, Cited by Scopus-0, SNIP-0.442, IPP-0.395, SJR-0.295, JCR Impact Factor-, H-Index-7]. *IJP-43*

100. **Srivastava A.**, "Some New Information Inequalities involving *f*-divergences" *Cybernetics and Information Technologies*, Vol. 12, Issue 2, pp. 3-10, 2012. [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-2]. *IJP-57*

101. Chattopadhyay A., Gupta S., **Kumari P.**, Sharma V.K., "Effect of point source and heterogeneity on the propagation of SH-waves in a viscoelastic layer over a viscoelastic half space", *Acta Geophysica*, Vol. 60, pp. 119-139, 2012. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus- 3, SNIP- 1.094, IPP- 1.205, SJR- 0.641, JCR Impact Factor-1.365, H-Index-18]. *IJP-42*

102. **Srivastava P. K.** and Kumar M. "Numerical Algorithm Based on Quintic Nonpolynomial Spline for Solving Third-Order Boundary value Problems Associated with Draining and Coating Flow", *Chinese Annals of Mathematics, Series B,* Vol 33, Issue 6, pp831-840,2012. [Indexed in Scopus]][Cited by Google-3, Cited by Scopus-2, SNIP-0.639, IPP-0.497, SJR-0.605, JCR Impact Factor-0.316, H-Index-20]. *IJP-39*

103. Verma R., **Sharma B.D.**, On generalized intuitionistic fuzzy divergence (relative information) and their properties, *Journal of Uncertain Systems*, Vol. 6, Issue 4, pp. 308-320 2012. [Indexed in Scopus] [Cited by Google-6, Cited by Scopus-4, SNIP-3.009, IPP-1.492, SJR- 0.665, JCR Impact Factor- NIL, H-Index-05]. *IJP-44*

104. Gupta R., **Sharma B.D.**, "Reversible variable length codes in video coding standards", *International Journal of Emerging Trends in Engineering and Development*, Vol.2, pp.33-43, 2012. [Cited by Google-, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor-0.91, H-Index-]. *IJP-45*

105. Gupta R., **Sharma B.D.**, "Generation of Variable Length Error Correcting Codes using Constant Length Error Correcting Codes", *International Journal of Emerging Trends in Engineering and Development*,Vol. 1, pp.269-279, 2012. [Cited by Google-, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor-0.91, H-Index-]. *IJP-47*

106. **Sharma B.D.**, Rohtagi B., "Moderate-density m-repeated burst error detecting cyclic codes," *International Journal of Emerging Trends in Engineering and Development*, Vol.4, pp. 309-316, 2012. [Cited by Google-, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor-0.91, H-Index-]. *IJP-53*

107. **Sharma B.D.**, and Rohtagi, B. "Moderate density 2-repeated bursts error detecting cyclic codes," *International Journal of Emerging trends in Engineering and Development,* Vol.4, pp. 49-55, 2012. [Cited by Google-1, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor-0.91, H-Index-]. *IJP-54*

108. Pandeya B.M., **Chaturvedi A.K.**, Gupta A.J., "Applications of Epi-retractable Modules", *Bulletin of Iranian Mathematical Society*, Vol. 38, pp. 469-477, 2012. [Indexed in Scopus] [Cited by Google-, Cited by Scopus-1, SNIP- 0.542, IPP- 0.303, SJR- 0.325, JCR Impact Factor-0.270, H-Index-07]. *IJP-34*

109. Gupta A.J., Pandeya, B. M, **Chaturvedi A.K.**, "SP-Iinjectivity of Modules and Rings", *Asian-European Journal of Mathematics*, Vol. 5, pp. 1250053, 2012. [Indexed in Scopus] [Cited by Google-, Cited by Scopus- 0, SNIP- 0.701, IPP- 0.271, SJR- 0.254, JCR Impact Factor-Nil, H-Index-06]. *IJP-35*

2011

110. **Singh B.**, Ahmad T., "A Wavelet Method for Solving Initial and Boundary Value Problems", *JMI International Journal of Mathematical Sciences*, Vol. 2, pp. 34-44, 2011. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-65*

111. Singh, A. V., **Singh B.,** Alam M.A., "Issues and Challenges associated with Secure QoS aware Routing in MANETs", *International Journal of Research and Reviews in Ad Hoc Networks (IJRRAN)*, Vol. 1, No. 3, September-2011, ISSN:2046-5106, Copyright © Science Academy Publisher, United Kingdom. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-67*

112. Singh, A. V., **Singh B.,** Alam M.A., "Mobility based Proactive and Reactive Routing Algorithm in MANETs", *International Journal of Computer Science and Information Technologies (IJCSIT)*, vol. 2 (4), 1793-1797, ISSN 0975-9646, 2011. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-68*

113. Singh A. V., Alam M.A., **Singh B.,** "Quality of service aware Dynamic Source Routing Protocol in Ad hoc Networks: Proposal, Analysis and Comparison", *Computer Engineering and Intelligent Systems*, 2(4), 211-221, 2011, ISSN 2222-2863. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-78*

114. **Aggarwal A.K.,** Makhija S., "Combined effect of magnetic field and rotation on thermal stability of couple-stress fluid heated from below in presence of suspended particles", *International Journal of Applied Mechanics and Engineering,* Vol.16, No. 4, pp. 931-942, 2011. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-3, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-73*

115. **Prasad B.** and Sahni R., "Convergence of some general iterative schemes", *International Journal of Mathematical Analysis*, Vol. 5, Issue 25, pp. 1237– 1242, 2011. [Cited by Google-5, Cited by Scopus-3, SNIP-0.468, IPP-0.276, SJR-0.221, JCR Impact Factor- NIL, H-Index-10]. *IJP-61*

116. **Prasad B.** and Katiyar K., "Fractals via Ishikawa iteration", *Communications in Computer and Information Science*, Vol. 140, Issue 2, pp. 197-203, 2011.[Cited by Google-10, Cited by Scopus-4, SNIP-0.158, IPP-0.091, SJR-0.136, JCR Impact Factor-Nil, H-Index-12]**.** *IJSP-9*

117. **Prasad B.** and Sahni R., "Weak Stability Result for Jungck-Ishikawa Iteration", *International Journal of Computer Application*, Vol. 16, Issue 4, pp. 28-33, 2011. [Cited by Google-1,Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-79*

118. **Prasad B., Singh B.** and Sahni R., "Common fixed point theorems for hybrid maps with an integral type condition", *Applied Mathematical Sciences*, Vol. 4, Issue 48, pp. 2369-2377, 2011. [Cited by Google-2, Cited by Scopus-2, SNIP-0.781, IPP-0.673, SJR-0.466, JCR Impact Factor-Nil, H-Index-19]. *IJP-83*

119. **Prasad B.** and Sahni, R., "Convergence of iterative schemes in spaces with two metrics", *International Journal of Mathematics and Computers in Simulation*, Vol. 5, Issue 3, pp. 206-215, 2011. [Cited by Google-Nil, Cited by Scopus- Nil, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-Nil, H-Index-2]. *IJP-58*

120. **Prasad B.** and Sahni R., "A new method for solving nonlinear equations", *World Academy of Science, Engineering and Technology,* Vol. 7, Issue 75, pp. 599-604, 2011. [Cited by Google-Nil,Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJSP-10*

121. Singh S. L., Hematulin, A. and **Prasad B.,** "Fixed points of hybrid maps in symmetric spaces", *Tamsui Oxford Journal of Information*

and Mathematical Sciences, Vol. 27, Issue 4, pp. 429-448, 2011. [Cited by Google-2, Cited by Scopus- Nil, SNIP-0.432, IPP-0.152, SJR-0.170, JCR Impact Factor-Nil, H-Index-4] *IJP-74*

122. **Kumar L.**, Bhargava R. and **Singh B.**, "Finite element solution of the effect of radiation on free convection flow of a MHD thermomicropolar fluid over a vertical plate" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 13, 91-111 (2011). [Indexed in Zentralblatt database] [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJP-77*

123. **Kumar L.**, **Singh B.**, Kumar Lokesh and Bhargava R., "Finite element solution of MHD flow of micropolar fluid towards a stagnation point on a vertical stretching sheet" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 3, 14-30 (2011). [Indexed in Zentralblatt database][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-]. *IJP-80*

124. **Srivastava A.** & Maheshwari S., "A New weighted Information Generating Function for Discrete Probabilty Distributions", *Cybernetics and Information Technologies*, Vol. 11, Issue 4, pp. 24-30, 2011. [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-2]. *IJP-62*

125. **Srivastava A.**, "Some New Bounds of Weighted Entropy Measures", *Cybernetics and Information Technologies*, Vol. 11, Issue 3, pp.60-65, 2011. [Indexed in Scopus][Cited by Google-, Cited by Scopus-, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-2]. *IJP-63*

126. Chattopadhyay A., Gupta S., Sharma V. K., **Kumari P**., "Stresses produced on a rough irregular half-space by a moving load", *Acta Mechanica*, Vol. 221, pp. 271-280, 2011. [Indexed in Scopus] [Cited by Google-2, Cited by Scopus- 1, SNIP- 1.235, IPP- 1.432, SJR-0.952, JCR Impact Factor-1.268, H-Index-44]. *IJP-60*

127. Chattopadhyay, A., **Kumari P**., Sharma V.K., "Reflection and refraction of three dimensional plane quasi-P waves at a corrugated surface between distinct triclinic elastic half spaces", *International Journal on Geomathematics*, Vol. 2, pp. 219-253, 2011. [Indexed in Scopus] [Cited by Google-2, Cited by Scopus- 2, SNIP- 0.938, IPP-0.703, SJR- 0.357, JCR Impact Factor-, H-Index-4]. *IJP-59*

128. Gupta Y., **Srivastava P. K.** and Kumar M., "Application of B-Spline to Numerical Solution of a System of Singularly Perturbed Problems", *Mathematica Aeterna,*Vol.1 Issue 6 , pp. 405-415, 2011. *IJP-75*

129. Gupta Y. and **Srivastava P. K.**, "A Computational Method for Solving Two Point Boundary Value Problems of Order Four", *International Journal of Computer Technology and Applications* , Vol. 2, Issue 5, 2011**.** *IJP-76*

130. **Sharma B.D.**, Sookoo N., "Generalized Krawtchouk polynomials and the complete weight enumerator of the dual code", *Journal of Discrete Mathematical Sciences and Cryptography,* Vol. 14, pp. 503-514, 2011. [Indexed in Scopus] [Cited by Google-0, Cited by Scopus-0 , SNIP-0.211, IPP-0.102, SJR- 0.146, JCR Impact Factor- , H-Index-02]. *IJP-64*

131. Verma R., **Sharma B.D.**, "Intuitionistic fuzzy sets: Some new results", *Notes on Intuitionistic Fuzzy Sets- an International Scientific Journal*, Vol.17, pp.1-10, 2011. [Cited by Google-6, Cited by Scopus- , SNIP-, IPP-, SJR-, JCR Impact Factor- , H-Index-]. *IJP-66*

132. Verma R., **Sharma B.D.**, "On generalized exponential fuzzy entropy", *World Academy of Science, Engineering and Technology,* Vol. 60, pp. 956-959, 2011. [Cited by Google-8, Cited by Scopus- , SNIP-0.252, IPP-0.129, SJR-0.125, JCR Impact Factor- , H-Index-12]. *IJP-69*

133. Verma R., **Sharma B.D.**, "A Measure of Inaccuracy between Two Fuzzy Sets", *Cybernetics and Information Technologies*, 11(2), 2011, pp. 13-23. [Indexed in Scopus] [Cited by Google-4, Cited by Scopus-2, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-02]. *IJP-70*

134. **Sharma B.D.,** Rohtagi B., "Some Results on Weights of Vectors Having m-Repeated Bursts", *Cybernetics and Information Technologies*, Vol.11, pp.3-11, 2011. [Indexed in Scopus] [Cited by Google-, Cited by Scopus-0, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-02]. *IJP-71*

135. **Sharma B.D.,** Rohtagi B., "Some Results on Weights of Vectors Having 2-Repeated Bursts", *Cybernetics and Information Technologies*, Vol.11, pp. 36-44, 2011. [Indexed in Scopus] [Cited by Google-5, Cited by Scopus-1, SNIP-0.552, IPP-0.222, SJR-0.212, JCR Impact Factor-, H-Index-02]. *IJP-72*

2010

136. Ravi K. M., **Choubey(Tripathi) A.**, "Interval-valued fuzzy regular language", *Journal of Applied Mathematics & Informatics*, Vol. 28, pp. 639-649, 2010. [Cited by Google -2, Cited by Scopus-0, SNIP-0, IPP-0, SJR -0, H-index-0]. *IJP-90*

137. **Aggarwal A.K.,** Verma A., "Effect of rotation and magnetic field on thermal instability of a viscoelastic fluid permeated with suspended particles", *WSEAS Transactions on Mathematics,* Vol. 9, No. 8, pp. 593-602, 2010. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-0, SNIP-0.73, IPP-0.533, SJR-0.247, JCR Impact Factor-0.654, H-Index-0]. *IJP-81*

138. Kumar V., **Aggarwal A.K.,** Pundir S. K., "Thermal convection in a Walters' (model B') elastico-viscous dusty fluid in hydromagnetics with the effect of compressibility and rotation", *International Journal of Applied Mechanics and Engineering*, Vol.15, No.1, pp. 51-62, 2010. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-4, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-88*

139. **Aggarwal A.K.,** "Effect of rotation on thermosolutal convection in a Rivlin-Ericksen fluid permeated with suspended particles in porous medium", *Adv. Theor. Appl. Mech.*, Vol. 3, No. 4, pp.177 - 188, 2010. [Indexed in Mathematical Reviews-USA, Zentralblatt fur Mathematik-Germany etc.][Cited by Google-8, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-89*

140. **Prasad B.,** Pradhan P. and Sahni R., "Modified Noor iterative schemes in Banach spaces", *International Mathematical Forum*, Vol. 5, Issue 28, pp. 1895 – 1902, 2010. [Cited by Google-1, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-93*

141. **Prasad B.,** Pradhan P. and Sahni R., "Approximate fixed points of some general contractions", *International Journal of Mathematical Sciences and Engineering Applications*, Vol.4, Issue 3, pp. 159-163, 2010. [Cited by Google-Nil, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-92*

142. **Prasad B.,** "A stability result in generalized metric spaces", *International Transactions in Mathematical Sciences and Computer*, Vol. 3, Issue 1, pp. 13-18, 2010. [Cited by Google-1, Cited by Scopus-Nil, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil]. *IJP-91*

143. **Sharma S., Sahni M.,** Kumar R., "Elastic-Plastic Analysis of A Thin Rotating Disk of Exponentially Variable Thickness with Inclusion", *WSEAS Transactions on Mathematics*, Vol. 9(5), pp. 315-323, 2010. [Indexed in SCOPUS] [Cited by Google-2, Cited by SCOPUS-2,

SNIP- 0.730, IPP- 0.533, SJR- 0.247, JCR Impact Factor-Nil, H-Index-15]. *IJP-82*

144. **Sharma S., Sahni M.,** Kumar R., "Thermo Creep Transition of Transversely Isotropic Thick - walled Rotating Cylinder under Internal Pressure"*, Int. J. Contemp. Math. Sciences*, Vol. 5, No. 11, pp. 517–527, 2010. [Indexed in Mathematical Reviews] [Cited by Google-2, Cited by SCOPUS-0, SNIP- Nil, IPP- 0.165, SJR- Nil, JCR Impact Factor- Nil, H-Index- 12]. *IJP-86*

145. **Sharma B.D.**, Sookoo, N., "Eigenvalues of the difference matrices of the Lee partition", *Journal of Discrete Mathematical Sciences and Cryptography*, Vol. 13, pp. 175-183, 2010. [Indexed in Scopus] [Cited by Google-0, Cited by Scopus-0, SNIP-0.211, IPP-0.102, SJR- 0.146, JCR Impact Factor- , H-Index-02]. *IJSP-11*

146. **Chaturvedi A.K.**, Pandeya B.M., Tripathi, A. M, Mishra, O. P., "On M-c-injective and Self-c-injective Modules", *Asian European Journal of Mathematics*, Vol. 3, pp. 387-393, 2010. [Indexed in Scopus] [Cited by Google-5, Cited by Scopus-3 , SNIP- 0.701, IPP- 0.271, SJR-0.254, JCR Impact Factor-Nil, H-Index-06]. *IJP-84*

147. **Chaturvedi A.K.**, Pandeya B.M. and Gupta A.J., "Modules whose closed M-cyclics are summand", *International Journal of Algebra*, Vol. 4, pp. 1045-1049, 2010. [Cited by Google-, Cited by Scopus- , SNIP-, IPP- , SJR- , JCR Impact Factor-0.195, H-Index-]. *IJP-85*

2009

148. **Singh B.**, Bhardwaj A., Rashid A., "A wavelet method for solving singular integral equation of MHD", *Applied Mathematics & Computation*, Vol. 214, pp. 271-279, 2009. [Indexed in Scopus][Cited by Google-2, Cited by Scopus-1, SNIP-1.439, IPP-1.766, SJR-1.158, JCR Impact Factor-1.6, H-Index-83]. *IJP-94*

149. Gupta N., Mishra G. D., **Choubey (Tripathi) A.,** "Performance analysis of queuing model M/M/1/N with balking and reneging", *International Journal of Pure and Applied Mathematical Sciences*, Vol. LXX, pp. 59-65, 2009.[Cited by Google-2, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, H-index-0]. *IJP-99*

150. Gupta N., Mishra G. D., **Choubey (Tripathi) A.,** "Performance analysis of an M/M/1/K queue with non-preemptive priority", *International Journal of Mathematical Sciences and Engineering Applications*, Vol. 3, pp. 285-292, 2009. *IJP-100*

151. Choubey (Tripathi) A., Ravi K. M., "Intuitionistic fuzzy automata and intuitionistic fuzzy regular expressions", *Journal of Applied Mathematics & Informatics*, vol. 27, No. 1-2, pp.409-417, 2009. [Cited by Google-4, Cited by Scopus-0, SNIP -0, IPP-0, SJR -0, H-index-0]. *IJP-101*

152. Gupta N., Mishra G. D., **Choubey (Tripathi) A.** "Performance analysis of an M/M/1/K queue with preemptive priority", *International Journal of Business Research*, pp. 50-56, 2009. *IJP-102*

153. **Aggarwal A.K.**, Prakash, K., "Effect of suspended particles and rotation on thermal instability of ferrofluids", *International Journal of Applied Mechanics and Engineering*, Vol.14, No.1, pp. 55-66, 2009. [Indexed in INSPEC, IEE, UK, ASME, USA, Zentralblatt MATH, Germany, etc.][Cited by Google-8, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-104*

154. **Prasad B.**, Singh B. and Sahni R., "Some approximate fixed point theorems", *International of Journal of Mathematical Analysis*, Vol. 3, Issue 5, pp. 203 – 210, 2009. [Cited by Google-10, Cited by Scopus-5, SNIP-0.468, IPP-0.276, SJR-0.221, JCR Impact Factor-Nil, H-Index-10]. *IJP-97*

155. **Sharma S.**, Sahni M., Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure' *Advances in Theoretical and Applied Mechanics*' Vol. 2, No. 3, pp. 113–122, 2009. [Indexed in Mathematical Reviews] [Cited by Google-3, Cited by SCOPUS-0, SNIP- Nil, IPP- 0.167, SJR- Nil, JCR Impact Factor- Nil, H-Index- 4]. *IJP-98*

156. **Sharma S.**, Sahni M., "Elastic-plastic Transition of Transversely Isotropic Thin Rotating Disc", *Contemporary Engineering Sciences*, Vol. 2, No. 9, pp. 433–440, 2009. [Indexed in Scopus] [Cited by Google-3, Cited by SCOPUS-0, SNIP- Nil, IPP- Nil, SJR- Nil, JCR Impact Factor- Nil, H-Index- Nil]. *IJP-103*

157. **Kumar L.**, "Finite element analysis of combined heat and mass transfer in hydromagnetic micropolar flow along a stretching sheet", *Computational Materials Science*, Vol. 46, Issue 4, pp. 841-848, 2009. [Indexed in Scopus][Cited by Google-19, Cited by Scopus-11, SNIP-1.395, IPP-2.034, SJR-1.086, JCR Impact Factor-1.879, H-Index-59]. *IJP-95*

158. Jha, P.C., **Gupta D.**, Yang, Bo, Kapur, P.K., "Optimal Testing Resource Allocation During Module Testing Considering Cost, Testing Effort and Reliability", *Computers & Industrial Engineering*,

vol. 57, pp. 1122-1130, 2009. [Indexed in Scopus] [Cited by Google-22, Cited by Scopus-17, SNIP- 2.043, IPP-, SJR- 1.723, JCR Impact Factor-1.690, H-Index-72]. *IJP-96*

2008

159.   Gupta N., Mishra G. D., **Choubey (Tripathi) A.**, "Performance analysis of an queueing model M/M/c/N with balking and reneging", *International Journal of Computer, Mathematical Sciences and Applications,*Vol. 2, pp. 355-339, 2008. *IJP-107*

160.   Singh S. L. and **Prasad B.,** "Some coincidence theorems and stability of iterative procedures", *Computers and Mathematics with Applications*, Vol. 55, pp. 2512–2520, 2008. [Cited by Google-57, Cited by Scopus-28, SNIP-1.936, IPP-2.498, SJR-1.343, JCR Impact Factor-1.996, H-Index-69]. *IJP-105*

161.   **Sharma S.,** Sahni M., "Creep Analysis of Thin Rotating Disc Under Plane Stress with Edge Load", *WSEAS Transactions on Applied and Theoretical Mechanics*, Issue 8, Vol. 3, pp. 725-738, 2008. [Indexed in SCOPUS] [Cited by Google-5, Cited by SCOPUS-1, SNIP-0.352, IPP-0.262, SJR-.171, JCR Impact Factor-Nil, H-Index-6]. *IJP-106*

162.   **Sharma S.,** Sahni M., "Creep Transition of Transversely Isotropic Thick-Walled Rotating Cylinder", *Advances in Theoretical and Applied Mechanics,* Vol. 1, No. 7, pp. 315-325, 2008. [Indexed in Mathematical Reviews] [Cited by Google-9, Cited by SCOPUS-0, SNIP- Nil, IPP- 0.167, SJR- Nil, JCR Impact Factor- Nil, H-Index- 4]. *IJP-108*

163.   Jha, P.C., Gupta, Anshu, Kapur, P.K., **Gupta D.**, "Operational Use Decision Policy of Software employed for the safety of Critical System under Uncertainty", *OPSEARCH*, 45, pp. 209-224, 2008. [Indexed in Scopus] [Cited by Google-, Cited by Scopus-, SNIP-0.507, IPP-0.377, SJR- 0.257, JCR Impact Factor-1.690, H-Index-6]. *IJSP-12*

164.   Kapur, P.K., **Gupta D.**, Gupta, Anshu, Jha, P.C., "Effect of Introduction of Fault and Imperfect Debugging on Release Time", *Ratio Mathematica*, Number 18, pp. 62-90, 2008. [Indexed in Scopus] [Cited by Google-, Cited by Scopus-, SNIP- 0.560, IPP-0.141, SJR-0.189, JCR Impact Factor-, H-Index-3]. *IJSP-13*

2007

165.   **Gupta D.**, Kapur, Reecha, Jha, P.C., "Bicriterion Release Policy for a

Discrete Software Reliability Growth Model with Imperfect Fault Debugging and Fault Generation", *Communications in Dependability And Quality Management An International Journal*, Vol 10, pp. 5-31, 2007. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index] *IJSP-14*

2006

166. Sharma R.C., **Aggarwal A.K.**, "Effect of compressibility and suspended particles on thermal convection in a Walters' B' elastico-viscous fluid in hydromagnetics", *International Journal of Applied Mechanics and Engineering,* Vol.11, No.2, pp. 391-399, 2006. [Indexed in Scopus][Cited by Google-27, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0]. *IJP-109*

167. Jha P.C., Gupta D., Anand S., Kapur P.K., "An Imperfect Debugging Software Reliability Growth Model using lag function with testing coverage and related allocation of testing effort problem", *Communications in Dependability and Quality Management An International Journal*, Vol. 9, pp.148-165, 2006. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index]. *IJSP-15*

National Journals

2015

1. Sharma A. and **Srivastava G.S**., "Spaces of Analytic Functions Represented by Vector Valued Dirichlet Series in a Half Plane", International Bulletin of Mathematical Research, Vol. 2, Issue 1, 68-74, 2015. [Indexed in GOOGLE SCHOLAR].

2. Singhal C.and **Srivastava G.S.** , "On the (p,q)- order and (p,q)-type of Entire Matrix Functions in Complete Reinhardt Domain" , International Bulletin of Mathematical Research,Vol. 2, Issue 1, 75-82,2015. [Indexed in GOOGLE SCHOLAR].

3. Dhanai R., **Rana P.** and **Kumar L.** "Dual Solutions in MHD Boundary Layer Nanofluid Flow and Heat Transfer with Heat Source/Sink considering Viscous Dissipation", Research Journal of Engineering and Technology, Vol. 6, Iss. 1, pp. 142-148 (2015). [Indexed in][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-].

2013

4.   Saxena P. and **Kumar L.**, "A Study of the Effect of Magnetic Field on the Transport of Cargos through Nuclear Pore Complex", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Vol. 2, Issue 5, 173-178, (2013). [Other Impact factor: 1.121] [Indexed in DOAJ, Google Scholar][Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR-, JCR Impact Factor-, H-Index-].

2010

5.   Bhardwaj, A., **Singh B,** Ali, R., "A Composite Technique to Solve Fredholm Equations of Second Kind", Journal of Wavelet Theory and Applications, ISSN 0973-6336, Vol. 4, No. 1, pp. 9-19, 2010. [Cited by Google-0, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].

2009

6.   **Choubey (Tripathi) A.,** Ravi K. M., "Vague Regular Language", Advances in Fuzzy Mathematics(Research India Publications), Vol. 40, pp. 147-165, 2009.[Cited by Google-2, Cited by Scopus-0, SNIP-0, IPP-0, SJR -0, H-index-0].

7.   **Aggarwal A.K.**, Makhija S., "Thermal stability of Couple-Stress fluid in presence of magnetic field and rotation", *Indian Journal of Biomechanics*, *Special Issue NCMB-2009*, ISSN: 0974-0783, pp. 1-4, 2009. [Cited by Google-5, Cited by Scopus-0, SNIP-0, IPP-0, SJR-0, JCR Impact Factor-0, H-Index-0].

8.   **Sharma S.,** "Thermo creep transition in non-homogeneous thick-walled rotating cylinders", *Defence Science Journal*, Vol. 59(1), pp. 30-36, 2009. [Indexed in SCOPUS][Cited by Google-5, Cited by SCOPUS-3 , SNIP- 0.655, IPP- .524, SJR- 0.219, JCR Impact Factor-0.359, H-Index-13].

9.   **Sharma S.,** Sahni M., Kumar R., "Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure", *Defence Science Journal*, Vol. 59(3), pp. 260-264, 2009. [Indexed in SCOPUS] [Cited by Google-5, Cited by SCOPUS- 3, SNIP- 0.655, IPP- 0.524, SJR- 0.219, JCR Impact Factor-0.359, H-Index-13].

10.   **Sharma B. D.**, Biyani A., "Implementation and Comparative Study of Time Efficiency of various QKD Protocols in 802.11i networks", *Journal of Mathematics and System Science*, Vol. 5, pp.1-12, 2009. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR- , JCR Impact Factor- , H-Index-].

2008

11.   **Sharma B. D.,** "Partitioned Product of Matrices and Construction of Efficient Product Codes", *Journal of Combinatorics & System Sciences*, Vol.33, pp.437-448, 2008. [Cited by Google-, Cited by Scopus-, SNIP-, IPP-, SJR- , JCR Impact Factor- , H-Index-].

2007

12.   Prakash K., **Aggarwal A.K.,** "Stability of superposed fluids in porous medium", *Proceedings of the National Academy of Sciences, India,* Vol. 77(A), No. 4, pp.   373-379, 2007. [Indexed in Scopus][Cited by Google-0, Cited by Scopus-11, SNIP-1.395, IPP-2.034, SJR-1.086, JCR Impact Factor-1.879, H-Index-59].

2005

13.   Prakash K., **Aggarwal A.K.,** "Thermal instability of an elastico-viscous fluid permeated with suspended particles with magnetic field", *Ganita Sandesh, India*, Vol. 19, No. 1, pp. 25-34, 2005. [Cited by Google-0, Cited by Scopus-0, SNIP-0.324, IPP-0.229, SJR-0.118, JCR Impact Factor-0, H-Index-4].

Edited Books: 02

i.   Customized Mathematics I of Pearson Publication for Uttarakhand Technical University by Sanjeev Sharma, Department of Mathematics, JIIT, Noida.

ii.   Customized Engineering Mathematics I of Pearson Publication for University of Pune by Sanjeev Sharma, Department of Mathematics, JIIT, Noida.

Details of Citations

International Journals

S.No.	Name of the Faculty Member	Publication Detail	Cited by Google	Cited by Scopus
1	**Dr. Dinesh Bisht**	Jain S**., Bisht D.**, "Genetic Algorithms based fuzzy time series prediction for water table elevation fluctuation", *Aloy journal of Soft Computing and Application*, Vol.3 (1), pp.14-23, 2015.	0	0
2	**Dr. Pankaj Kumar Srivastava**	Upadhyay M., Awasthi S. K.., Shiveshwari L., **Srivastava P. K.**, Ojha S. P. : "Thermally Tunable Photonic Filter for WDM Networks Using 1D Superconductor Dielectric Photonic Crystals", *Journal of Superconductivity and Novel Magnetism*, Vol. 28, pp. 2275-2280, 2015.	0	0
3	**Dr. Pankaj Kumar Srivastava**	**Srivastava P. K.**, "Application of Higher Order Splines for Boundary Value Problems", *International Journal for Computational Methods in Engineering Science and Mechanics*, Vol. 10(1), pp. 108-115, 2015.	0	0
4	**Dr. Amit Srivastava**	Maheshwari S., **Srivastava A.**, "Some New results on information Transmission over noisy channels", *Demonstratio Mathematica*, Vol.48(3), pp. 462-472, 2015.	**0**	**0**
5	**Dr. Lakhveer Kaur**	**Kaur L.**, "New Similarity Reductions and Exact Solutions of Generalized Fifth Order KdV Equation with Variable Coefficients", *International Journal of Nonlinear Science*, Vol. 19, pp. 170-175, 2015.	**0**	**0**

6	**Prof. G.S. Srivastava**	**Srivastava G.S.** and Singhal C., "On the generalized order and generalized type of Laplace-Stieltjes transformation convergent in the right half-plane", Global Journal of Pure and Applied Mathematics. Volume 11, Number 1, pp. 469-477,2015.	0	0
7	**Dr. Lokendra Kumar & Prof. Bani Singh**	Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of nonlinear magneto-micropolar stagnation point flow from a porous stretching sheet with prescribed skin friction", *Computational Thermal Sciences*, 7(1): 1-14 (2015).	0	0
8	**Dr. Lokendra Kumar, Dr. Puneet Rana & Prof. Bani Singh**	G. Swapna, **Kumar L., Rana P.** and **Singh B.**, "Finite element modeling of a double-diffusive mixed convection flow of a chemically-reacting magneto-micropolar fluid with convective boundary condition", *Journal of the Taiwan Institute of Chemical Engineers*, Vol. 47, pp. 18-27 (2015).	3	0
9	**Dr. Lokendra Kumar**	Swapna G., **Kumar L.** and Bhardwaj N., "Study of effects of radiation and magnetic field on the mixed convection micropolar fluid flow towards a stagnation point on a heated vertical permeable plate using finite element method", *International Journal of Mechanic Systems Engineering*, Vol. 5, Iss. 1, pp. 1-13(2015)	0	0
10	**Dr. Pato Kumari**	**Kumari P.,** Sharma V.K., Modi C., "Propagation of torsional waves in an inhomogeneous sandwiched layer between inhomogeneous semi-infinite media", *Journal of Engineering Mathematics,* Vol. 90, pp.1-11, 2015.	0	0

11	Dr. Pato Kumari	Chattopadhyay A., **Kumari P.**, Sharma V. K., "Reflection and refraction at the interface between distinct generally anisotropic half spaces for three-dimensional plane quasi P waves", *Journal of Vibration and Control (SAGE)*, Vol. 21, pp. 493-508, 2015.	3	0
12	Dr. Akhilesh Kumar Singh	**Singh A. K**., "Variations on effect algebras", Proceedings of National Academy of Sciences, India Section A: Physical Sciences, Vol. 85, pp.83-86, 2015.	0	0
13	Dr. Akhilesh Kumar Singh	**Singh A. K.**, Kumar M., "Multi-peak solution of non-Linear elliptic singularly perturbed reaction-diffusion equations using finite element simulations", Journal of Taiwan Institute of Chemical Engineers, Vol.50, pp.56-68, 2015.	0	0
14	Dr. Akhilesh Kumar Singh	Kumar M., **Singh A. K.**, Srivastava A, "A new fifth order derivative free Newton type iterative method for solving nonlinear equations", *Applied Mathematics and Information Sciences*, Vol. 9 ,No. 3 pp. 1507-1513, 2015.	0	0
15	Dr.Dinesh C S Bisht	Khanna V., Das B. K., **Bisht D.** ,Vandana, Singh, P.K., "A Three Diode Model for Industrial Solar Cells and Estimation of Solar Cell Parameters using PSO Algorithm", *Renewable Energy*, Vol.78, ISSN: 0960-1481 pp.108-113, 2015.	4	4
16	Dr. Yogesh Gupta	Pragesh N., **Gupta Y.**, "B-spline approach for solving boundary value problems", *Global Journal of Pure and Applied Mathematics,* Vol. 11, Number 2, pp. 1037-1047, 2015.	0	0

17	Dr. Puneet Rana	Agarwal S., **Rana P.,** "Thermal stability analysis of rotating porous layer with thermal non-equilibrium approach utilizing Al2O3–EG Oldroyd-B nanofluid", *Microfluidics and Nanofluidics*, Vol. 19, Issue 1, pp. 117-131, 2015.	0	0
18	Dr. Puneet Rana	**Rana P.,** Beg O. A., "Mixed convection flow along an inclined permeable plate: effect of magnetic field, nanolayer conductivity and nanoparticle diameter", *Applied Nanoscience,* Vol **5**, Issue 5, pp. 569-581, 2015.	1	0
19	Dr. Puneet Rana & Dr. Lokendra Kumar	Dhanai R., **Rana P., Kumar L.** , "Multiple solutions of MHD boundary layer flow and heat transfer behavior of nanofluids induced by a power-law stretching/shrinking permeable sheet with viscous dissipation", *Powder Technology,*Vol. 273, pp. 62-70, 2015.	7	4
20	Dr. Puneet Rana	**Rana P.,**"Corrigendum to 'Numerical solution for mixed convection boundary layer flow of a nanofluid along an inclined plate embedded in a porous medium'", *Computers and Mathematics with Applications,* Vol. 69, Issue 12, pp. 1518 , 2015. [Indexed in Scopus]	0	0
21	Dr. Puneet Rana	**Rana P.** , Agarwal S., "Convection in a binary nanofluid saturated rotating porous layer", *Journal of Nanofluids,* Vol. 4, Issue 1, pp. 1-7, 2015.	7	0
22	Prof. Bani Singh and Dr. Anuj Bhardwaj	**Singh B., Bhardwaj A.,** "Wavelet optimized finite difference mesh for MHD flow in a circular duct", Computers & Mathematics with Applications, Vol. 67, Issue 8, pp.	0	0

		1582-1594, 2014.		
23	**Prof.G.S. Srivastava**	Akanksha and **Srivastava G.S.,** "Multipliers in spaces of vector valued entire Dirichlet series",J.Classical Anal.,Vol.4,number 1,89-95, 2014.	0	0
24	**Prof.G.S. Srivastava**	**Srivastava G.S**.and Singhal C., "On the generalized type and generalized lower type of entire function in complete Reinhardt domain", J. Mod. Meth. in Numer. Math. ,Vol.5, number 2, 28-38, 2014.	0	0
25	**Prof.G.S. Srivastava**	Akanksha and **Srivastava G.S.,** "Spaces of vector-valued Dirichlet series in a half plane",Front. Math. China, Vol. 9,number 6, 1239-1252, 2014.	0	0
26	**Prof.G.S. Srivastava**	Kumar S. and **Srivastava G.S.,** "On the maximum term and lower order of entire monogenic functions", Transylv. J. Math. and Mech.,Vol.6,Number 1, 29-38, 2014.	0	0
27	**Prof. Alka Tripathi**	Ravi K. M., **Choubey (Tripathi) A.,** Tripathi K. K., "Intuitionistic Fuzzy Automata for Approximate String Matching", *International Journal of Fuzzy Information and Engineering*, Vol. 6, pp. 29-39, 2014.	1	0
28	**Prof. Alka Tripathi**	**Tripathi A.**, Tyagi K., "A note on rough sets", *International Journal of Mathematical sciences,* Vol. 13. pp. 1-10, 2014.	0	0
29	**Prof. Alka Tripathi**	Goyal M., Yadav D., **Tripathi A.,** "Intuitionistic fuzzy approach to classify the user based on assessment of learner's knowledge level in e-learning decision making", *Journal of information processing system,* 2014.	0	0

30	**Prof. Alka Tripathi**	**Tripathi A.,** Tyagi K., "Approximate equalities using topological space**",** *International Journal Granular Computing*, *Rough Sets and Intelligent Systems*, Vol. 3, pp. 272-291 , 2014 .	0	0
31	**Dr. Amrish K. Aggarwal**	**Aggarwal A. K.,** Verma A., "The effect of compressibility, rotation and magnetic field on thermal stability of Walters' fluid permeated with suspended particles in porous medium", *Thermal Science*, Vol. 18, Suppl. 2, pp. S539-S550, 2014.	0	0
32	**Dr. Amrish K. Aggarwal**	**Aggarwal A. K.,** Makhija S., "Hall effect on thermal stability of ferromagnetic fluid in porous medium in the presence of horizontal magnetic field", *Thermal Science*, Vol.18, Suppl. 2, pp. S503-S514, 2014.	4	1
33	**Dr. Amrish K. Aggarwal & Dr. Sanjeev Sharma**	Sharma R., **Aggarwal A. K., Sharma S.,** "Collapse Pressure Analysis in Torsion of a Functionally Graded Thick-Walled Circular Cylinder under External Pressure", *ELSEVIER'S Procedia Engineering,* Vol. 86, pp.738–747, 2014.	0	0
34	**Dr. Amrish K. Aggarwal & Dr. Sanjeev Sharma**	**Aggarwal A.K.**, Sharma R., **Sharma S.**, "Collapse Pressure Analysis of Transversely Isotropic Thick-walled Cylinder using Lebesgue Strain Measure and Transition Theory", *The Scientific World Journal*, Vol. 2014, pp. 1-10, 2014.	1	0
35	**Dr. Bhagwati Prasad**	**Prasad, B.** and Katiyar, K., "Stability and fractal patterns of complex logistic map," *Cybernetics and Information Technologies*, Vol. 14, Issue 3, pp.14–24, 2014.	0	0

36	**Dr. Bhagwati Prasad**	**Prasad, B.** and Katiyar, K., "A stability analysis of logistic model", *International Journal of Nonlinear Sciences,*Vol. 17, Issue 1, pp. 71-79, 2014.	2	0
37	**Dr. Bhagwati Prasad & Prof. Bani Singh**	**Prasad B., Singh B.** and Katiyar K., "Modeling curves via fractal interpolation with VSFF", *International Journal of Computer Applications*, Special Issue ICACEA-2014, pp. 191-194, 2014.	0	0
38	**Dr. Sanjeev Sharma**	**Sharma S.**, Ila Sahai, Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Circular Cylinder under Internal and External Pressure", "*Multidiscipline Modelling in Materials and Structures*", Vol. 10, Issue 2, pp. 211-227, 2014.	0	0
39	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "Theoretical study of the effect of the magnetic field on cardiovascular problems taking the approach of channel of varying gap bounded by a porous medium", *Int. J. of Appl. Math and Mech.*, 10 (9): 76-95, 2014	0	0
40	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "A study of the effect of magnetic field on the rotation of a viscous fluid near a porous medium with a constant suction", *International Journal of Engineering, Science and Technology*, Vol. 6, No. 4, 64-76 (2014).	1	0
41	**Dr. Lokendra Kumar & Prof. Bani Singh**	Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element analysis of transient heat and mass transfer in microstructural boundary layer flow from a porous stretching sheet",	0	0

		Computational Thermal Sciences, Vol. 6 (2): 155–169 (2014).		
42	**Dr. Lokendra Kumar & Prof. Bani Singh**	Gupta D., **Kumar L.**, Bég O.A. and **Singh B.**, "Finite element simulation of mixed convection flow of micropolar fluid over a shrinking sheet with thermal radiation", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, Vol. 228, 61-72 (2014). [Indexed in Scopus][Cited by Google-8, Cited by Scopus-2, SNIP-0.742, IPP-0.506, SJR-0.263, JCR Impact Factor-0.547, H-Index-16].	9	2
43	**Dr. Lokendra Kumar & Prof. Bani Singh**	Gupta D., **Kumar L.** and **Singh B.**, "Finite element solution of unsteady mixed convection flow of micropolar fluid over a porous shrinking sheet", *The Scientific World Journal*, Vol. 2014, Article ID 362351, 11 pages (2014).	2	0
44	**Dr. Pato Kumari**	**Kumari P.**, Sharma V. K. and Modi C., , Reflection/refraction pattern of quasi-(P/SV) waves in dissimilar monoclinic media separated with finite isotropic layer, Published online in *Journal of Vibration and Control (SAGE),* 2014. DOI: 10.1177/1077546314548911.	0	0
45	**Dr. Pato Kumari**	**Kumari P.,** Sharma V.K., "Propagation of torsional waves in a viscoelastic layer over an inhomogeneous half space", *Acta Mechanica*, Vol. 225, pp. 1673-1684, 2014.	6	0

46	Dr. Pato Kumari	Chattopadhyay A., **Kumari P.**, Sharma V.K., "Reflection and transmission of three dimensional qP wave through layered fluid medium between two distinct triclinic half-spaces", *International Journal of Geomechanics (ASCE),* Vol. *14, pp.182-190, 2014.*	1	0
47	**Dr. Pankaj Kumar Srivastava**	**Srivastava P. K.**, "Study Of Differential Equations With Their Polynomial And Nonpolynomial Spline Based Approximation", *Acta Tehnica Corviniensis – Bulletin of Engineering, Vol.* 7, Issue 3, 2014.	0	0
48	**Dr. Akhilesh Kumar Singh**	Kumar M., **Singh A.K**, "Singular perturbation problems in nonlinear elliptic partial differential equations: A survey", *International journal of Nonlinear Sciences*, Vol.17 No.3, pp.195- 214, 2014.	0	0
49	**Dr.Dinesh C S Bisht**	Raju M.M., Kumar A., **Bisht D.**, Rao D.B., "Stochastic Analysis of Wind Energy for Wind Pump Irrigation in Coastal Andhra Pradesh, India", *Journal of The Institution of Engineers (India): Series A,* Vol.95 Issue 3, pp.157-168, 2014.	0	0
50	**Dr. Dinesh C S Bisht**	Khanna V., Das B.K., **Bisht D.** ,Vandana, Singh P.K., "Estimation of Photovoltaic Cells Model Parameters using Particle Swarm Optimization". *Physics of Semiconductor devices, Environmental science and Engineering (Springer International Publishing)*, pp. 391-397, 2014.	0	0

51	**Dr. Puneet Rana**	Sheikholeslami M., Gorji-Bandpy M., Ganji D. D., **Rana P.**, Soleimani S., "Magnetohydrodynamic free convection of Al2O3–water nanofluid considering thermophoresis and Brownian motion effects", *Computers and Fluids,* Vol. 94, pp. 147-160, 2014.	67	48
52	**Dr. Puneet Rana**	Agarwal S., **Rana P.**, and Bhadauria B.S., "Rayleigh Benard Convection in a Nanofluid Layer Using a Thermal Nonequilibrium Model", *Journal of Heat Transfer*, Vol. 136, pp. 122501(1-14), 2014.	3	1
53	**Prof. B.D. Sharma**	Dawn S., Saxena V., **Sharma B.D.**, "Advanced Free-form Deformation and Kullback-Lieblier Divergence Measure for Digital Elevation Model Registration", *Journal of Signal, Image and Video Processing*, pp. 1-11, 2014, DOI 10.1007/s11760-014-0621-z.	2	0
54	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "A new inaccuracy measure for fuzzy sets and its applications in multi-criteria decision-making," *International Journal of Intelligent Systems and Applications*, Vol.6, pp. 62-69, 2014.	0	0
55	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "Entropic measure of a probability sample space and exponential type-(α,β) entropy", *International Journal of Mathematical, Computational, Physical and Quantum Engineering*, Vol.8, pp. 117-122, 2014.	0	0

56	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.,** "Intuitionistic fuzzy Einstein prioritized weighted operators and their application to multiple attribute group decision making," *Applied Mathematics and Information Sciences*, 2014.	0	0
57	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "A new measure of inaccuracy with its application to multi-criteria decision making under intuitionistic fuzzy environment", *Journal of Intelligent and Fuzzy Systems*, Vol. 10, No. 4, 1811-1824, 2014.	2	0
58	**Prof. B.D. Sharma**	Verma R., **Sharma B. D.,** "Fuzzy generalized prioritized weighted average operator and its application to multiple attribute decision making," International Journal of Intelligent Systems, Vol. 29, Issue 1, 26–49, 2014. [Indexed in Scopus][Cited by Google-2, Cited by Scopus-0, SNIP-1.690, IPP-2.286, SJR-1.268, JCR Impact Factor-1.411, H-Index-46].	2	0
59	**Prof.G.S. Srivastava**	**Srivastava G.S.,** "A note on relative type of entire functions represented by vector valued Dirichlet series", *J.Classical Anal.*,Vol. 2,number 1,61-72, 2013.	0	0
60	**Prof.G.S. Srivastava**	**Srivastava G.S.,** "Generalized order and type of entire functions and best approximation in L p- norm", Ann.Univ.Ferrara, Vol.59, 393-401, 2013.	0	0

61	**Prof. Alka Tripathi**	**Choubey(Tripathi) A.**, Ravi K. M., "Minimization of determismistic finite automata with vague (final) states and intuitionistic fuzzy (final) states", *Iranian Journal of Fuzzy Systems*, Vol. 10, pp. 75-88, 2013.	1	0
62	**Dr. Amrish K. Aggarwal & Dr. Sanjeev Sharma**	**Aggarwal A.K.,** Sharma R., **Sharma S.** "Safety Analysis using Lebesgue Strain Measure of Thick-Walled Cylinder for Functionally Graded Material under Internal and External Pressure", The Scientific World Journal, Vol. 2013, dx.doi.org/10.1155/2013/676190, pp. 1-10, 2013.	4	3
63	**Dr. Bhagwati Prasad**	**Prasad, B.** and Mishra, K., "A combined encryption compression scheme using chaotic maps", *Cybernetics and Information Technologies*, Vol. 13, Issue 2, pp.75–81, 2013.	4	2
64	**Dr. Bhagwati Prasad**	**Prasad B.** and Sahni R., "Common fixed point theorems in fuzzy metric spaces", *Acta et Commentationes Universitatis Tartuensis de Mathematica ACUTM*, Vol. 17, Issue 2, pp.117-125, 2013.	0	0
65	**Dr. Bhagwati Prasad**	**Prasad B.** and Sahni R., "Endpoints of multivalued contraction operators", *ISRN Mathematical Analysis,* Vol. 2013, pp. 1-7, 2013.	0	0
66	**Dr. Bhagwati Prasad**	**Prasad B.** and Mishra K., "Fractals in G-metric spaces", *Applied Mathematical Sciences*, Vol. 7, Issue 109, pp. 5409 - 5415, 2013.	0	0

67	**Dr. Sanjeev Sharma**	**Sharma S.,** Yadav S., "Thermo Elastic-Plastic Analysis of Rotating Functionally Graded Stainless Steel Composite Cylinder under Internal and External Pressure Using Finite Difference Method", Advances in Materials Science and Engineering, Vol. 2013, http://dx.doi.org/10.1155/2013/ 810508, pp. 1-10, 2013.	1	1
68	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S., Sahni M.,** "Creep Analysis of Thin Rotating Disc Having Variable Thickness and Variable Density with Edge Loading", *Annals of Faculty Engineering Hunedoara-International Journal of Engineering*, Tome XI- Fascicule-3, pp. 279-296, 2013.	1	0
69	**Dr. Sanjeev Sharma & Aggarwal A.K.**	**Sharma S., Aggarwal A.K.,** Sharma R., "Safety Analysis of Thermal Creep Non-Homogeneous Thick-Walled Circular Cylinder under Internal and External Pressure using Lebesgue Strain Measure", "*Multidiscipline Modelling in Materials and Structures*" Vol. 9, Issue 4, pp. 499-513, 2013.	4	4
70	**Dr. Sanjeev Sharma**	**Sharma S.,** Sahai I., Kumar R., "Creep Transition of a Thin Rotating Annular Disk of Exponentially Variable Thickness with Inclusion and Edge Load", *Elsevier's Procedia Engineering*, Vol. 55, pp. 348-354, 2013.	2	1
71	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S., Sahni M.,** "Thermo Elastic-plastic Transition of a Homogeneous Thick-walled Circular Cylinder under External pressure" *Structural Integrity and Life*, Vol.	3	0

		13(1), pp. 3-8, 2013.Cited by Google-3.		
72	**Dr. Sanjeev Sharma**	**Sharma S.,** Sanehlata, "Finite Difference Solution of Elastic-Plastic Thin Rotating Annular Disk with Exponentially Variable Thickness and Exponentially Variable Density", *Journal of Materials*, Vol. 2013, pp. 1-9, 2013.	1	0
73	**Dr. Amit Srivastava**	**Srivastava A.** & Maheshwari, S., "A New Parametric Fuzzy Entropy Measure and Its properties" to be presented in *Twenty-first International Conference on Information and Mathematical Sciences* to be organized by Baba Farid College of Engineering & Technology, Bhatinda in collaboration with Indian Society of Information Theory & Its Applications from 24th October, 2013 to 26th October, 2013.(Proceedings published by Springer)	0	0
74	**Dr. Amit Srivastava & Dr. Akhilesh Kumar Singh**	**A. Srivastava, Singh A. K.,** Maheswari S., "Dichotomous Exponential Entropy Functional and Its Applications in Medical Diagnosis", *International Conference on Signal Processing and Communications* (ICSC-2013) (IEEE),pp. 21-26. 10.1109/ICSPCom.2013.6719749 , 2013. [Cited by Google-2, Cited by Scopus-0, SNIP-Nil, IPP-Nil, SJR-Nil, JCR Impact Factor-Nil, H-Index-Nil].	3	0

75	**Dr. Pato Kumari**	Chattopadhyay, A., Gupta, S., **Kumari P**., Sharma, V. K., "Torsional wave propagation in non homogeneous layer between non homogeneous half spaces", *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 37, pp.1280-1291, 2013. [Indexed in Scopus] [Cited by Google-6, Cited by Scopus- 2, SNIP-1.861, IPP-1.739, SJR-1.864, JCR Impact Factor-1.561, H-Index-49].	7	3
76	**Dr. Akhilesh Kumar Singh**	**Singh A. K**, "A study of Non-atomic measures and integrals on effect algebras", *Journal of Nonlinear Analysis and Optimization: Theory and Applications*, Vol. 4 (1), pp.99-110, 2013.	0	0
77	**Dr. Akhilesh Kumar Singh**	Kumar M., **Singh A. K.**, Srivastava A., "Various Newton type iterative methods for solving nonlinear equations", *Journal of Egyptian Mathematical Society*, Vol. 21, pp.334-339, 2013.	6	0
78	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "Exponential entropy on intuitionistic fuzzy sets", *Kybernetika*, Vol. 49, pp. 114-127, 2013.	2	3
79	**Prof. B.D. Sharma**	**Sharma B.D.,** Gaur A., Codes correcting limited patterns of random errors using S-K metric, *Cybernetics and Information Technologies*, Vol. 13, pp. 34-45, 2013.	3	2
80	**Prof. B.D. Sharma**	Dawn S., Saxena V., **Sharma B.D.**, "Cognitive-mapping and contextual pyramid based Digital Elevation Model Registration and its effective storage using fractal based compression," International Journal of Computer	0	0

		Science, Vol.10, pp.126-135, 2013.		
81	**Prof. B.D. Sharma**	Gaur A., **Sharma B.D.**, "Upper Bound on Correcting Partial Random Errors", Cybernetics And Information Technologies, Volume **13**, No 3, 41-49, 2013.	0	0
82	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "Intuitionistic fuzzy Jensen-Rényi divergence: Applications to multiple-attribute decision-making," *Informatica-An International Journal of Computing and Informatics*, Vol.37, pp. 399-409, 2013.	1	0
83	**Prof. B.D. Sharma**	Verma R. and **Sharma B. D.**, "New operations over hesitant fuzzy sets", *Fuzzy Information and Engineering*, Vol. 5, pp. 129-146, 2013.	4	0
84	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "Some new equalities connected with intuitionistic fuzzy sets," *Notes on Intuitionistic Fuzzy Sets*, Vol.19, pp. 25-30, 2013.	3	0
85	**Prof. B.D. Sharma**	Gaur A., **Sharma B.D.**, "Perfect codes using class metric", *International Journal of Research in Information Technology*, Vol.1, pp. 81-90, 2013.	0	0
86	**Prof. Bani Singh**	**Singh B.,** Bhardwaj A., Ali R., "Wavelet Optimized Adaptive Mesh for MHD Flow Problems", *Applied Mathematics*, Scientific Research, USA, Vol. 3, pp. 127-134, 2012.	1	0
87	**Prof.G.S. Srivastava**	**Srivastava G.S.** and Ganti Ramesh, "Approximation of entire functions of two complex variables over Jordan domains", *Tamsui Oxford J.Information and Math. Sci.*, Vol. 28, num.4, 349-368,2012.	0	0

88	**Prof. Alka Tripathi**	Goyal M., Yadav D., **Choubey (Tripathi) A.**, "E-learning: current state of art and future prospects", *International Journal of Computer Science Issues*, Vol. 9, Issue 3, pp. 490-499, 2012.	11	0
89	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.,** Verma A., "Effect of suspended particles, magnetic field and rotation on the thermal stability of a ferromagnetic fluid", *International Journal of Applied Mechanics and Engineering*, Vol. 17, No. 4, pp.1109-1122, 2012.	1	0
90	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.,** Makhija, S., "Hall effect on thermal stability of ferromagnetic fluid in the presence of suspended particles", *International Journal of Applied Mechanics and Engineering,* Vol.17, No. 2, pp. 349-365, 2012.	3	0
91	**Dr. Bhagwati Prasad**	**Prasad, B.** and Katiyar, K., "Dynamics of Julia sets of complex exponential function", *Communications in Computer and Information Science*, Vol. 283, pp. 185–192, 2012.	1	1
92	**Dr. Bhagwati Prasad & Prof. Bani Singh**	**Prasad B., Singh B.** and Katiyar K., "A method of curve fitting by recurrent fractal interpolation", *International Journal of Computer Application(ICCIA 2012),*Special issue ICCIA(3), pp. 5-8, 2012.	0	0
93	**Dr. Bhagwati Prasad**	**Prasad B.,** "Fractals for A-iterated function and multifunction", *International Journal of Applied Engineering Research,* Vol.7, Issue 11, pp. 2032-2036, 2012.	0	0

94	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S.**, **Sahni M.**, Sanehlata, "Elastic-Plastic Analysis of a Thin Rotating Disk of Exponentially Variable Thickness with Inclusion", *Applied Mathematical Science*, Vol. 6, No. 122, pp. 6069–6074, 2012.	0	0
95	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S.**, Thakur P., **Sahni M.**, "Elastic-plastic Analysis for Finite Deformation of a Rotating Disk of Exponentially Varying Thickness with Edge Load and Inclusion", *Annals of Faculty Engineering Hunedoara-International Journal of Engineering*, Tome X- Fascicule, pp. 225-232, 2012.	0	0
96	**Dr. Sanjeev Sharma**	**Sharma S.**, Sahai I., Kumar R., "Creep Transition in Non Homogeneous Thick Walled Circular Cylinder under Internal and External Pressure", *Applied Mathematical Science*, Vol. 6, No. 122, pp. 6075 – 6080, 2012.	2	2
97	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "Flow of a viscous fluid through different porous structures embedded in porous medium", *Journal of Porous Media*, Vol. 15, Issue 12, 1125-1135 (2012).	1	1
98	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "A study of the effect of magnetic field on the rotation of a heated impervious disk in a second grade fluid bounded by a porous medium", *Int. J. of Appl. Math and Mech.*, Vol. 8 (11), 99-116 (2012).	0	0
99	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "A study of the effect of permeability of rocks in Tsunami generation and propagation by seismic faulting using linearized shallow –water wave theory", *Science of Tsunami Hazards* (ISSN: 8755-6839), Vol. 31, No. 1, 62-81 (2012).	0	0

100	**Dr. Amit Srivastava**	**Srivastava A.**, "Some New Information Inequalities involving f-divergences" *Cybernetics and Information Technologies*, Vol. 12, Issue 2, pp. 3-10, 2012.	0	0
101	**Dr. Pato Kumari**	Chattopadhyay A., Gupta S., **Kumari P**., Sharma V.K., "Effect of point source and heterogeneity on the propagation of SH-waves in a viscoelastic layer over a viscoelastic half space", *Acta Geophysica*, Vol. 60, pp. 119-139, 2012.	4	4
102	**Dr. Pankaj Kumar Srivastava**	**Srivastava P. K.** and Kumar M. "Numerical Algorithm Based on Quintic Nonpolynomial Spline for Solving Third-Order Boundary value Problems Associated with Draining and Coating Flow", *Chinese Annals of Mathematics, Series B,* Vol 33, Issue 6, pp. 831-840,2012.	4	2
103	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, On generalized intuitionistic fuzzy divergence (relative information) and their properties, *Journal of Uncertain Systems*, Vol. 6, Issue 4, pp. 308-320 2012.	7	5
104	**Prof. B.D. Sharma**	Gupta R., **Sharma B.D.**, "Reversible variable length codes in video coding standards", *International Journal of Emerging Trends in Engineering and Development*, Vol.2, pp.33-43, 2012.	0	0
105	**Prof. B.D. Sharma**	Gupta R., **Sharma B.D.**, "Generation of Variable Length Error Correcting Codes using Constant Length Error Correcting Codes", *International Journal of Emerging Trends in Engineering and Development*,Vol. 1, pp.269-279, 2012.	0	0

106	**Prof. B.D. Sharma**	**Sharma B.D.**, Rohtagi B., "Moderate-density m-repeated burst error detecting cyclic codes," *International Journal of Emerging Trends in Engineering and Development*, Vol.4, pp. 309-316, 2012.	0	0
107	**Prof. B.D. Sharma**	**Sharma B.D.**, and Rohtagi, B. "Moderate density 2-repeated bursts error detecting cyclic codes," *International Journal of Emerging trends in Engineering and Development,* Vol.4, pp. 49-55, 2012.	1	0
108	**Dr. A.K.Chaturvedi**	Pandeya B.M., **Chaturvedi A.K.**, Gupta A.J., "Applications of Epi-retractable Modules", *Bulletin of Iranian Mathematical Society*, Vol. 38, pp. 469-477, 2012.	3	1
109	**Dr. A.K.Chaturvedi**	Gupta A.J., Pandeya, B. M, **Chaturvedi A.K.**, "SP-Iinjectivity of Modules and Rings", *Asian-European Journal of Mathematics*, Vol. 5, pp. 1250053, 2012.	1	0
110	**Prof. Bani Singh**	**Singh B.**, Ahmad T., "A Wavelet Method for Solving Initial and Boundary Value Problems", *JMI International Journal of Mathematical Sciences*, Vol. 2, pp. 34-44, 2011.	0	0
111	**Prof. Bani Singh**	Singh, A. V., **Singh B.,** Alam M.A., "Issues and Challenges associated with Secure QoS aware Routing in MANETs", *International Journal of Research and Reviews in Ad Hoc Networks (IJRRAN)*, Vol. 1, No. 3, September-2011, ISSN:2046-5106, Copyright © Science Academy Publisher, United Kingdom.	0	0

112	**Prof. Bani Singh**	Singh, A. V., **Singh B.,** Alam M.A., "Mobility based Proactive and Reactive Routing Algorithm in MANETs", *International Journal of Computer Science and Information Technologies (IJCSIT)*, vol. 2 (4), 1793-1797, ISSN 0975-9646, 2011.	0	0
113	**Prof. Bani Singh**	Singh A. V., Alam M.A., **Singh B**., "Quality of service aware Dynamic Source Routing Protocol in Ad hoc Networks: Proposal, Analysis and Comparison", Computer Engineering and Intelligent Systems, 2(4), 211-221, 2011, ISSN 2222-2863.	0	0
114	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.,** Makhija S., "Combined effect of magnetic field and rotation on thermal stability of couple-stress fluid heated from below in presence of suspended particles", *International Journal of Applied Mechanics and Engineering,* Vol.16, No. 4, pp. 931-942, 2011.	3	0
115	**Dr. Bhagwati Prasad**	**Prasad, B.**, and Sahni, R., "Convergence of some general iterative schemes", *International Journal of Mathematical Analysis*, Vol. 5, Issue 25, pp. 1237 – 1242, 2011.	5	3
116	**Dr. Bhagwati Prasad**	**Prasad, B.** and Katiyar, K., "Fractals via Ishikawa iteration", *Communications in Computer and Information Science*, Vol. 140, Issue 2, pp. 197-203, 2011.	11	4
117	**Dr. Bhagwati Prasad**	**Prasad, B.** and Sahni, R., "A Weak Stability Result for Jungck-Ishikawa Iteration", *International Journal of Computer Application*, Vol. 16, Issue 4, pp. 28-33, 2011.	1	0

118	**Dr. Bhagwati Prasad & Bani Singh**	**Prasad, B.**, **Singh B.** and Sahni, R., "Common fixed point theorems for hybrid maps with an integral type condition", *Applied Mathematical Sciences*, Vol. 4, Issue 48, pp. 2369-2377, 2011.	0	0
119	**Dr. Bhagwati Prasad**	**Prasad B.** and Sahni, R., "Convergence of iterative schemes in spaces with two metrics", *International Journal of Mathematics and Computers in Simulation*, Vol. 5, Issue 3, pp. 206-215, 2011.	0	0
120	**Dr. Bhagwati Prasad**	**Prasad B.** and Sahni R., "A new method for solving nonlinear equations", *World Academy of Science, Engineering and Technology,* Vol. 7, Issue 75, pp. 599-604, 2011.	0	0
121	**Dr. Bhagwati Prasad**	Singh S. L., Hematulin, A. and **Prasad B.**, "Fixed points of hybrid maps in symmetric spaces", *Tamsui Oxford Journal of Information and Mathematical Sciences*, Vol. 27, Issue 4, pp. 429-448, 2011.	2	0
122	**Dr. Lokendra Kumar & Prof. Bani Singh**	**Kumar L.**, Bhargava R. and **Singh B.**, "Finite element solution of the effect of radiation on free convection flow of a MHD thermomicropolar fluid over a vertical plate" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 13, 91-111 (2011).	0	0
123	**Dr. Lokendra Kumar & Prof. Bani Singh**	**Kumar L.**, **Singh B.**, Kumar Lokesh and Bhargava R., "Finite element solution of MHD flow of micropolar fluid towards a stagnation point on a vertical stretching sheet" *Int. J. of Appl. Math and Mech.*, Vol. 7, No. 3, 14-30 (2011).	0	0

124	**Dr. Amit Srivastava**	**Srivastava A.** & Maheshwari, S., "A New weighted Information Generating Function for Discrete Probabilty Distributions". *Cybernetics and Information Technologies*, Volume 11, Issue 4, pp. 24-30, 2011.	0	0
125	**Dr. Amit Srivastava**	**Srivastava A.** "Some New Bounds of Weighted Entropy Measures", *Cybernetics and Information Technologies*, Volume 11, Issue 3, pp.60-65, 2011.	4	0
126	**Dr. Pato Kumari**	Chattopadhyay A., Gupta S., Sharma V. K., **Kumari P**., "Stresses produced on a rough irregular half-space by a moving load", *Acta Mechanica*, Vol. 221, pp. 271-280, 2011.	2	1
127	**Dr. Pato Kumari**	Chattopadhyay, A., **Kumari P**., Sharma V.K., "Reflection and refraction of three dimensional plane quasi-P waves at a corrugated surface between distinct triclinic elastic half spaces", *International Journal on Geomathematics*, Vol. 2, pp. 219-253, 2011.	2	2
128	**Dr. Pankaj Kumar Srivastava**	Gupta Y., **Srivastava P. K.** and Kumar M., "Application of B-Spline to Numerical Solution of a System of Singularly Perturbed Problems", *Mathematica Aeterna,*Vol.1 Issue 6 , pp. 405-415, 2011.	3	0
129	**Dr. Pankaj Kumar Srivastava**	Gupta Y. and **Srivastava P. K.**, "A Computational Method for Solving Two Point Boundary Value Problems of Order Four", *International Journal of Computer Technology and Applications* , Vol. 2, Issue 5, 2011**.**	4	0

130	**Prof. B.D. Sharma**	**Sharma B.D.**, Sookoo N., "Generalized Krawtchouk polynomials and the complete weight enumerator of the dual code", *Journal of Discrete Mathematical Sciences and Cryptography,* Vol. 14, pp. 503-514, 2011.	0	0
131	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "Intuitionistic fuzzy sets: Some new results", *Notes on Intuitionistic Fuzzy Sets- an International Scientific Journal*, Vol.17, pp.1-10, 2011.	6	0
132	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "On generalized exponential fuzzy entropy", *World Academy of Science, Engineering and Technology,* Vol. 60, pp. 956-959, 2011.	8	0
133	**Prof. B.D. Sharma**	Verma R., **Sharma B.D.**, "A Measure of Inaccuracy between Two Fuzzy Sets", *Cybernetics and Information Technologies*, 11(2), 2011, pp. 13-23. [	4	2
134	**Prof. B.D. Sharma**	**Sharma B.D.,** Rohtagi B., "Some Results on Weights of Vectors Having m-Repeated Bursts", *Cybernetics and Information Technologies*, Vol.11, pp.3-11, 2011.	0	0
135	**Prof. B.D. Sharma**	**Sharma B.D.,** Rohtagi B., "Some Results on Weights of Vectors Having 2-Repeated Bursts", *Cybernetics and Information Technologies*, Vol.11, pp. 36-44, 2011.	5	1
136	**Prof. Alka Tripathi**	Ravi K. M., **Choubey (Tripathi) A.,** "Interval-valued fuzzy regular language", *Journal of Applied Mathematics & Informatics,* Vol. 28, pp. 639-649, 2010.	2	0

137	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.,** Verma A., "Effect of rotation and magnetic field on thermal instability of a viscoelastic fluid permeated with suspended particles", *WSEAS Transactions on Mathematics,* Vol. 9, No. 8, pp. 593-602, 2010.	0	0
138	**Dr. Amrish K. Aggarwal**	Kumar V., **Aggarwal A.K.,** Pundir S. K., "Thermal convection in a Walters' (model B') elastico-viscous dusty fluid in hydromagnetics with the effect of compressibility and rotation", *International Journal of Applied Mechanics and Engineering*, Vol.15, No.1, pp. 51-62, 2010.	4	0
139	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.**, "Effect of rotation on thermosolutal convection in a Rivlin-Ericksen fluid permeated with suspended particles in porous medium", *Adv. Theor. Appl. Mech.*, Vol. 3, No. 4, pp.177 - 188, 2010.	8	0
140	**Dr. Bhagwati Prasad**	**Prasad, B.,** Pradhan, P. and Sahni, R., "Modified Noor iterative schemes in Banach spaces", *International Mathematical Forum*, Vol. 5, Issue 28, pp. 1895 – 1902, 2010.	1	0
141	**Dr. Bhagwati Prasad**	**Prasad, B.,** Pradhan, P.and Sahni, R., "Approximate fixed points of some general contractions", *International Journal of Mathematical Sciences and Engineering Applications,* Vol.4, Issue 3, pp. 159-163, 2010.	0	0
142	**Dr. Bhagwati Prasad**	**Prasad, B.,** "A stability result in generalized metric spaces", *International Transactions in Mathematical Sciences and Computer*, Vol. 3, Issue 1, pp. 13-18, 2010.	1	0

143	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S., Sahni M.,** Kumar R., "Elastic-Plastic Analysis of A Thin Rotating Disk of Exponentially Variable Thickness with Inclusion", *WSEAS Transactions on Mathematics*, Vol. 9(5), pp. 315-323, 2010.	2	2
144	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S., Sahni M.,** Kumar R., "Thermo Creep Transition of Transversely Isotropic Thick - walled Rotating Cylinder under Internal Pressure", *Int. J. Contemp. Math. Sciences*, Vol. 5, No. 11, pp. 517–527, 2010.	2	0
145	**Prof. B.D. Sharma**	**Sharma B.D.,** Sookoo, N., "Eigenvalues of the difference matrices of the Lee partition", *Journal of Discrete Mathematical Sciences and Cryptography*, Vol. 13, pp. 175-183, 2010.	0	0
146	**Dr. A.K. Chaturvedi**	**Chaturvedi A.K.,** Pandeya B.M., Tripathi, A. M, Mishra, O. P., "On M-c-injective and Self-c-injective Modules", *Asian European Journal of Mathematics*, Vol. 3, pp. 387-393, 2010.	5	3
147	**Dr. A.K.Chaturvedi**	**Chaturvedi A.K.,** Pandeya B.M. and Gupta A.J., "Modules whose closed M-cyclics are summand", *International Journal of Algebra*, Vol. 4, pp. 1045-1049, 2010.	0	0
148	**Prof. Bani Singh**	**Singh B.,** Bhardwaj A., Rashid A., "A wavelet method for solving singular integral equation of MHD", *Applied Mathematics & Computation*, Vol. 214, pp. 271-279, 2009.	2	1

149	**Prof. Alka Tripathi**	Gupta N., Mishra G. D., **Choubey (Tripathi) A.**, "Performance analysis of queuing model M/M/1/N with balking and reneging", *International Journal of Pure and Applied Mathematical Sciences*, Vol. LXX, pp. 59-65, 2009.	2	0
150	**Prof. Alka Tripathi**	Gupta N., Mishra G. D., **Choubey (Tripathi) A.**, "Performance analysis of an M/M/1/K queue with non-preemptive priority", *International Journal of Mathematical Sciences and Engineering Applications*, Vol. 3, pp. 285-292, 2009.	0	0
151	**Prof. Alka Tripathi**	**Choubey(Tripathi) A.**, Ravi K. M., "Intuitionistic fuzzy automata and intuitionistic fuzzy regular expressions", *Journal of Applied Mathematics & Informatics*, vol. 27, No. 1-2, pp.409-417, 2009.	4	0
152	**Prof. Alka Tripathi**	Gupta N., Mishra G. D., **Choubey (Tripathi) A.** "Performance analysis of an M/M/1/K queue with preemptive priority", *International Journal of Business Research*, pp. 50-56, 2009.	0	0
153	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.**, Prakash, K., "Effect of suspended particles and rotation on thermal instability of ferrofluids", *International Journal of Applied Mechanics and Engineering*, Vol.14, No.1, pp. 55-66, 2009.	9	0
154	**Dr. Bhagwati Prasad & Bani Singh**	**Prasad, B., Singh, B.** and Sahni, R., "Some approximate fixed point theorems", *International of Journal of Mathematical Analysis,* Vol. 3, Issue 5, pp. 203 – 210, 2009.	10	5

155	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S.**, **Sahni M.**, Kumar R., "Thermo Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure' *Advances in Theoretical and Applied Mechanics*' Vol. 2, No. 3, pp. 113–122, 2009.	3	0
156	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S.**, **Sahni M.,** "Elastic-plastic Transition of Transversely Isotropic Thin Rotating Disc", *Contemporary Engineering Sciences*, Vol. 2, No. 9, pp. 433–440, 2009.	4	0
157	**Dr. Lokendra Kumar**	**Kumar L.**, "Finite element analysis of combined heat and mass transfer in hydromagnetic micropolar flow along a stretching sheet", *Computational Materials Science*, Vol. 46, Issue 4, pp. 841-848, 2009.	19	13
158	**Dr. Deepali Gupta**	Jha, P.C., **Gupta D.**, Yang, Bo, Kapur, P.K., "Optimal Testing Resource Allocation During Module Testing Considering Cost, Testing Effort and Reliability", *Computers & Industrial Engineering*, vol. 57, pp. 1122-1130, 2009.	22	17
159	**Prof. Alka Tripathi**	Gupta N., Mishra G. D., **Choubey (Tripathi) A.**, "Performance analysis of an queueing model M/M/c/N with balking and reneging", *International Journal of Computer, Mathematical Sciences and Applications,*Vol. 2, pp. 355-339, 2008.	0	0
160	**Dr. Bhagwati Prasad**	Singh, S. L. and **Prasad, B., "**Some coincidence theorems and stability of iterative procedures", *Computers and Mathematics with Applications*, Vol. 55, pp. 2512–2520, 2008.	60	32

161	**Dr. Sanjeev Sharma**	**Sharma S.**, Sahni M.,"Creep Analysis of Thin Rotating Disc Under Plane Stress with Edge Load", *WSEAS Transactions on Applied and Theoretical Mechanics*, Issue 8, Vol. 3, pp. 725-738, 2008.	5	1
162	**Dr. Sanjeev Sharma**	**Sharma S.**, Sahni M., "Creep Transition of Transversely Isotropic Thick-Walled Rotating Cylinder", *Advances in Theoretical and Applied Mechanics,* Vol. 1, No. 7, pp. 315-325, 2008.	9	0
163	**Dr. Deepali Gupta**	Jha, P.C., Gupta, Anshu, Kapur, P.K., **Gupta D.**, "Operational Use Decision Policy of Software employed for the safety of Critical System under Uncertainty", *OPSEARCH*, 45, pp. 209-224, 2008.	0	0
164	**Dr. Deepali Gupta**	Kapur, P.K., **Gupta D.**, Gupta, Anshu, Jha, P.C., "Effect of Introduction of Fault and Imperfect Debugging on Release Time", *Ratio Mathematica*, Number 18, pp. 62-90, 2008. [Indexed in Scopus] [Cited by Google-, Cited by Scopus-, SNIP- 0.560, IPP-0.141, SJR-0.189, JCR Impact Factor-, H-Index-03]	0	0
165	**Dr. Deepali Gupta**	**Gupta D.**, Kapur, Reecha, Jha, P.C., "Bicriterion Release Policy for a Discrete Software Reliability Growth Model with Imperfect Fault Debugging and Fault Generation", *Communications in Dependability And Quality Management An International Journal*, Vol 10, pp. 5-31, 2007.	0	0

166	**Dr. Amrish K. Aggarwal**	Sharma R.C., **Aggarwal A.K.**, "Effect of compressibility and suspended particles on thermal convection in a Walters' B' elastico-viscous fluid in hydromagnetics", *International Journal of Applied Mechanics and Engineering,* Vol.11, No.2, pp. 391-399, 2006.	29	0
167	**Dr. Deepali Gupta**	Jha P.C., **Gupta D.**, Anand S., Kapur P.K., "An Imperfect Debugging Software Reliability Growth Model using lag function with testing coverage and related allocation of testing effort problem", *Communications in Dependability and Quality Management An International Journal*, Vol. 9, pp.148-165, 2006.	0	0
National Journal				
168	**Prof.G.S. Srivastava**	Sharma A. and **Srivastava G.S.,** "Spaces of Analytic Functions Represented by Vector Valued Dirichlet Series in a Half Plane", International Bulletin of Mathematical Research,Vol. 2, Issue 1, 68-74, 2015.	0	0
169	**Prof.G.S. Srivastava**	Singhal C.and **Srivastava G.S.** , "On the (p,q)- order and (p,q)-type of Entire Matrix Functions in Complete Reinhardt Domain" , International Bulletin of Mathematical Research,Vol. 2, Issue 1, 75-82,2015.	0	0
170	**Dr. Puneet Rana & Dr. Lokendra Kumar**	Dhanai R., **Rana P.** and **Kumar L.** "Dual Solutions in MHD Boundary Layer Nanofluid Flow and Heat Transfer with Heat Source/Sink considering Viscous Dissipation", *Research Journal of Engineering and Technology*, Vol. 6, Iss. 1, pp. 142-148 (2015).	0	0

171	**Dr. Lokendra Kumar**	Saxena P. and **Kumar L.**, "A Study of the Effect of Magnetic Field on the Transport of Cargos through Nuclear Pore Complex", *International Journal of Engineering and Advanced Technology (IJEAT)*, ISSN: 2249 – 8958, Vol. 2, Issue 5, 173-178, (2013).	0	0
172	**Prof. Bani Singh**	Bhardwaj, A., **Singh B**, Ali, R., "A Composite Technique to Solve Fredholm Equations of Second Kind", *Journal of Wavelet Theory and Applications*, ISSN 0973-6336, Vol. 4, No. 1, pp. 9-19, 2010.	0	0
173	**Prof. Alka Tripathi**	**Choubey (Tripathi) A.**, Ravi K. M., "Vague Regular Language", *Advances in Fuzzy Mathematics (Research India Publications)*, Vol. 40, pp. 147-165, 2009.	2	0
174	**Dr. Amrish K. Aggarwal**	**Aggarwal A.K.**, Makhija S., "Thermal stability of Couple-Stress fluid in presence of magnetic field and rotation", *Indian Journal of Biomechanics, Special Issue NCMB-2009*, ISSN: 0974-0783, pp. 1-4, 2009.	5	0
175	**Dr. Sanjeev Sharma,**	**Sharma S.,** "Thermo creep transition in non-homogeneous thick-walled rotating cylinders", *Defence Science Journal*, Vol. 59(1), pp. 30-36, 2009.	5	3
176	**Dr. Sanjeev Sharma & Dr. Manoj Sahni**	**Sharma S., Sahni M.,** Kumar R., "Elastic-Plastic Transition of Transversely Isotropic Thick-Walled Rotating Cylinder under Internal Pressure", *Defence Science Journal*, Vol. 59(3), pp. 260-264, 2009.	5	3

177	**Prof. B.D. Sharma**	**Sharma B. D.**, Biyani A., "Implementation and Comparative Study of Time Efficiency of various QKD Protocols in 802.11i networks", *Journal of Mathematics and System Science*, Vol. 5, pp.1-12, 2009.	0	0
178	**Prof. B.D. Sharma**	**Sharma B. D.,** "Partitioned Product of Matrices and Construction of Efficient Product Codes", *Journal of Combinatorics & System Sciences*, Vol.33, pp.437-448, 2008.	0	0
179	**Dr. Amrish K. Aggarwal**	Prakash K., **Aggarwal A.K.**, "Stability of superposed fluids in porous medium", *Proceedings of the National Academy of Sciences, India,* Vol. 77(A), No. 4, pp. 373-379, 2007.	0	0
180	**Dr. Amrish K. Aggarwal**	Prakash K., **Aggarwal A.K.**, "Thermal instability of an elastico-viscous fluid permeated with suspended particles with magnetic field", *Ganita Sandesh, India*, Vol. 19, No. 1, pp. 25-34, 2005.	0	0

(b) Expert Talks

S. No.	Speaker	Date	Topic
1	Prof. Sat N Gupta Professor of Statistics & Associate Head, Department of Mathematics and Statistics, The University of North Carolina at Greensboro,106 Petty Building, Greensboro, NC 27412, USA	1 January 2015	On estimating finite population mean for sensitive variables
2	Prof. R. K. Mohanty Professor and Dean (FMCS), Department of Mathematics, South Asian University, Akbar Bhawan, Chanakyapuri, New Delhi, INDIA	1 January 2015	Compact Cell Numerical Methods for Fourth Order Elliptic Boundary Value Problems
3	Prof. Karmeshu, Professor, JNU, New Delhi	29 Nov. 2014	Computational Neuroscience
4	Prof.Subhadip Raychaudhuri, IIITD, New Delhi	29 Nov. 2014	In silico single cell biology of apoptotic cell death in healthy and diseased cells
5	Prof Sitabhra Sinha (Institute of Mathematical Sciences (IMSc), Chennai	29 Nov. 2014	Exploring the complex networks of biology
6	Prof Peeyush Chandra IITK, Kanpur	29 Nov. 2014	Mathematical Models for HIV infection in vivo
7	Prof. Karmeshu, Professor, JNU, New Delhi	23 Sept. 2014	Maximum Entropy Principle and Optimization- Power Law Behavior in Communication Network
8	Prof. Kusum Deep, Professor, Department of Mathematics, IIT Roorkee	23 Sept. 2014	Nature-Inspired Optimization Techniques

9	Dr. Millie Pant Associate Professor, Department of Mathematics, Saharanpur Campus, IIT Roorkee	23 Sept. 2014	Metaheuristics for Global Optimization
10	Professor H. C. Taneja - Professor and HoD, Department of Mathematics, Delhi Technical University, New Delhi	4 February, 2014	Residual and Past Life-time Distributions and Information Theoretic Measures Approach
11	Prof. B. S. Panda, Professor and Head of the Department; Department of Mathematics, Indian Institute of Technology, Delhi	08 October, 2013	Probabilistic Method in Graph Theory
12	Prof. B. K. Dass, Professor of Mathematics & Former Head, Department of Mathematics and Dean, University of Delhi, Delhi	23 September, 2013	Interdisciplinary Nature of Mathematics
13	Professor P. V. Subrahmanyam, Professor and former HoD, Dept of Mathematics	7th August, 2012	Mathematical Analysis & Applications
14	Prof. Narendra Kumar Govil, Department of Mathematics and Statistics, Auburn University, Auburn, USA	21 July, 2011	Erdos-Lax Theorem on Extremal Properties of Polynomials and Its Generalization
15	Dr. Umar Farooq, AMU, Aligarh	20 April, 2011	Wavelet Based Processing of Speech Signals
16	Prof. Pradeep Sirkar, IIT Kanpur	20 April , 2011	2D-Continus Wavelet Transform and its Applications in Image Processing
17	Dr. Mani Mehra, IIT Delhi	20 April , 2011	Wavelets and its Applications
18	Prof. S. D. Joshi, IIT Delhi	20 April, 2011	Some Studies of Signal

			Representation
19	Dr. Mani Mehra, Asstt. Prof., IIT Delhi	Oct. 2010	Wavelets and Applications
20	Prof. Karmeshu, Professor, JNU	Oct. 2010	Stochastic Modelling
21	Prof. Rama Bhargava, Professor, IIT Roorkee	Oct. 2010	Mesh Free Methods
22	Prof. U.S. Gupta, Professor, IIT Roorkee	Oct. 2010	Vibration Problems
23	Prof. R. S. Gupta, Professor, University of Roorkee	Oct. 2010	Moving Boundary Problems
24	Prof K T Arasu of Wright University, USA	6 August, 2010	Perfect Sequence construction
25	Prof. Abul Hasan Siddiqi (Ex. Pro-Vice-Chancellor AMU & Senior Associate ICTP), School of Engineering and Technology, Sharda University, Greater Noida	12 May, 2010	Variants of Wavelets and Their Applications
26	Prof. Khalil Ahmad, Department of Mathematics, Jamia Millia Islamia University New Delhi	14 April, 2010	Wavelets and Their Applications
27	Dr. I. V. Singh, IIT Roorkee	13 March, 2010	Mesh Free Methods
28	Prof. Petr Grig, Department of Mathematics, Univ. of West Bohemia, Univerzitn 22, Plzen, Czech Republic	29 July, 2009	Quasilinear Boundary Value Problems: Theory, Numerical Experiments and Symbolic Calculations
29	Prof. S. L. Singh, Former Principal, College of Sciences & Engineering, Gurukula Kangri University Hardwar	22 April, 2009	The Recent Developments in Computational Techniques
30	Prof. C.K. Raju, Director (Academic), INMANTEC Ghaziabad & Professor	8 April , 2009	Calculus without Limits

	Centre for Studies in Civilizations, New Delhi		
31	Prof. P. N. Rathie, Department of Statistics, University of Brasilia, BRAZIL	25 Feb., 2009.	Lambert W-Function, Statistical Distributions and Reliability Analysis
32	Prof. R. S. Chhikara, Department of Mathematics & Statistics, University of Houston, U S A	04 February, 2009.	Beyasian Analysis of the Inverse Gaussian Distribution

Participation of faculty in conferences/ workshops etc. outside

Prof. Bani Singh

National:

1. Delivered a lecture on 'Approximation By Wavelets' in a workshop Applications of Basic Sciences in Engineering & Technology organized by Raj Kumar Goel Institute of Technology, Ghaziabad on March 13, 2015.

2. Delivered a lecture in a Faculty Development Programme on 'Modelling Simulation and Matlab Tools', ABES Engg. College, Ghaziabad, January 15-17, 2014.

3. Delivered a lecture on 'Boundary Characteristic Orthogonal Polynomial' in the National conference on 'Recent Trends in Materials and Devices RTMD-2010' organized by Amity School of Applied Sciences and Amity School of Engineering and Technology Noida on May 21, 2010. He also chaired a six member jury in the Poster Session.

4. Attended a workshop organized by Sharda University, Greater Noida on June 21, 2012.

5. Attended a workshop to finalize M. Sc. & Ph. D. Applied Mathematics Program organized by Gautam Buddha University, Greater Noida on April 21, 2012.

6. Delivered a lecture on "Scientific Computing, System Design and Verification", in MathWorks Seminar held at Intercontinental- Eros, New Delhi on Nov. 25, 2010.

7. Invited as "Guest of Honor" at "Mathematics Olympiad 2010" held at Amity School of Applied Sciences and Amity School of Engineering and Technology NOIDA on June 10, 2010.

8. Invited as a leading expert in Numerical Methods and Computer Applications in a workshop on "Softwares, Open Source ans Simulation Tools" (sponsored by MHRD, Govt of India) organized by Department of Mathematics, IIT Roorkee on March 20, 2010.

9. Presided over a session in the conference on "Applied Science and its Technology for Innovation Management", Krishna Institute of Engineering & Technology, Ghaziabad, Aug 9, 2009.

Prof. G.S. Srivastava

National:

1. Delivered an invited lecture on the topic "Multipliers on the Spaces of Functions Represented by Vector Valued Dirichlet Series" in the National conference on Complex Analysis in honor of Late Prof. K. S. Padmanabhan", held on 8th and 9th March 2014 at Central University of Rajasthan, Kishangarh (Rajasthan).

Prof. Alka Tripathi

International:

1. Attended 12th International Conference on Rough Sets, Fuzzy Sets, Data Mining & Granular Computing, FITT, IIT Delhi, Dec.15 -18, 2009.

Dr. Amrish Kumar Aggarwal

International:

1. Presented a paper entitled "Effect of rotation and magnetic field on thermal stability of ferromagnetic fluid" *International Conference of ASME 2013- International Mechanical Engineering Congress and Exposition (IMECE), Microfluidics - Fluid Engineering Systems and Technologies*, IMECE2013-64288 in San Diego, California, USA, November 15-21, 2013.

2. Presented a paper entitled "Combined effect of suspended particles, rotation and magnetic field on thermosolutal convection in Rivlin-Ericksen elastico-viscous fluid in porous medium" in *37th National and 4th International Conference on Fluid Mechanics and Fluid Power (FMFP10-AM-16)*, Indian Institute of Technology, Madras, Chennai, India, December 16-18, 2010.

3. Presented paper entitled "Thermal instability of a rotating viscoelastic fluid permeated with suspended particles in hydromagnetics" in *5th IASME/WSEAS International Conference on Continuum Mechanics (CM'10)*, University of Cambridge, UK, February 23-25, 2010.

4. Presented a paper entitled "Effect of rotation and magnetic field on thermal convection in a compressible Walters' (model B') fluid permeated with suspended particles" in *Eighteenth International Conference of Forum for Interdisciplinary Mathematical & Statistical Techniques (IMST 2009 – FIM XVIII),* Jaypee University of Information Technology, Waknaghat, Solan (H.P), India, August 2-4, 2009.

5. Presented a paper entitled "Thermosolutal instability of an elastico-viscous fluid in porous medium in presence of suspended particles*" in the*

Indo-Australian Workshop and Symposium on CFD Approach on Fluid Flow, Heat and Mass Transfer & Applications in Multidisciplinary Areas, Department of Mathematics, Indian Institute of Technology, Roorkee, April 12-14, 2007.

National:

1. Attended a short term course on "Recent Advances in Optimization Techniques and Their Applications" organized by Department of Mathematics at Indian Institute of Technology, Roorkee, April 20-24, 2009.

2. Attended QIP short term course on "Mathematical Computations Using Software Tools" organized by Department of Mathematics at Indian Institute of Technology, Roorkee, July 1-5, 2008.

3. Attended QIP short term course on "Mathematical Modeling of Real Life Problems" organized by Department of Mathematics at Indian Institute of Technology, Roorkee, July 4 -15, 2005.

4. Attended a workshop on Nonlinear Dynamical Models and Their Behavior and Symposium on Current Trends in Biomathematics, organized by Department of Mathematics at Indian Institute of Technology, Roorkee, March 11-14, 2005.

5. Presented a paper entitled "Thermal instability of rotating Couple-Stress fluid in presence of magnetic field" in *National Conference on Biomechanics*, Department of Mathematics, Indian Institute of Technology, Roorkee, March 7-8, 2009.

6. Presented a paper entitled "Thermal instability of ferrofluids permeated with suspended particles" in *74th Annual Conference of the Indian Mathematical Society*, Department of Mathematics, University of Allahabad, Allahabad, December 27-30, 2008.

7. Presented a paper entitled "Stability of superposed viscoelastic (Walters' B′) - viscous fluids in porous medium in presence of suspended particles and variable magnetic field" in *71st Annual Conference of the Indian Mathematical Society*, Department of Mathematics, Indian Institute of Technology, Roorkee, December 26-29, 2005.

8. Presented a paper entitled "Effect of suspended particles on thermosolutal convection in a rotating Rivlin-Ericksen elastico-viscous fluid in porous medium" in *71st Annual Conference of the Indian Mathematical Society*, Department of Mathematics, Indian Institute of Technology, Roorkee, December 26-29, 2005.

Dr. Bhagwati Prasad Chamola

International:

1. Presented a paper entitled "Approximate Coincidence Point Results of Set-valued Maps" International Conference on History and Development of Mathematics "ICHDM-2013" being jointly organized by the Indian Society for History of Mathematic and JECRC University, Jaipur, November 29- December 01, 2013.

2. Presented a paper entitled "A Collage Theorem in Fuzzy Fractal Spaces" accepted for presentation in the International Conference ICRAMSA 2013. RGTU Bhopal (MP), December 24- 26, 2013.

3. Presented a paper entitled "A Fractal Analysis of a Chaotic Map", International Conference on Mathematics Education & Mathematics in Engineering & Technology (ICMET'13), organized by the MCET Trivandrum, Kerala, December 17 – 20, 2013.

4. Presented a paper entitled "A Best Proximity Theorem for Some General Contractive Pair of Maps" International Conference on Emerging Trends in Engineering Technology, Geeta Institute of Management & Technology, Kurukshetra, October 25th -27th, 2013.

5. Presented a paper entitled "Role of Fractals in Modeling the Natural Objects" International Conference on Green Technologies for Environmental Rehabilitation (GTER-2012), Gurukula Kangri University, Hardwar (UK), pp. 14, Feb. 11-13, 2012.

6. Presented a paper entitled "Exploring Beizer curves through iterated function systems" at the Third IEEE International Conference on Emerging Trends in Engineering and Technology, Goa, India, 19-21 November 2010.

7. Presented a paper entitled "Some improved fixed point iterations" at the International Conference on Emerging Trends in Engineering and Technology (IETET 2010) held at GITM Kurukshetra, India, October14-16, 2010.

8. Presented a paper entitled "Common fixed points for ψ -weakly commuting maps", Pre-International Congress of Mathematicians 2010 Workshop, Department of Mathematics, Kumaun University, Nainital, India, March 26-27, 2010.

9. Presented a paper entitled "The concept of series in ancient Indian mathematics", World Veda Conference, held at Gurukul Kangri University Haridwar (UK) India, November 20 - 22, p-275, 2009.

10. Presented a paper entitled "Approximate fixed points in b-metric spaces", Eighteenth International Conference of Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematical & Statistical Techniques

(IMST 2009 – FIM XVIII) held at Jaypee University of Information Technology, Waknaghat, Solan (H.P) India, August 2- 4, 2009.

11. Presented a paper entitled "Fixed points and stability of iterative procedures", International Conference on Advances in Mathematics: Historical Developments and Engineering Applications, held at Department of Mathematics G. B. Pant University of Agriculture and Technology, Pantnagar, December 19-22, p.86, 2007.

National:

1. Presented a paper entitled "Some coincidence theorems for hybrid maps" , National Conference on Emerging Trends in Engineering & Sciences (ETES-2013), Faculty of Engineering & Technology, Gurukul Kangri University Hardwar, November 9 - 10, 2013

2. Presented a paper entitled "Some coincidence theorems for hybrid maps" , National Conference on Emerging Trends in Engineering & Sciences (ETES-2013), Faculty of Engineering & Technology, Gurukul Kangri University Hardwar, November 9 - 10, 2013.

3. Presented a paper entitled "Iterative Schemes and Fractals" , National Conference on Progress in Electronics & Allied Sciences (PEAS-2012), Faculty of Engineering & Technology, Gurukul Kangri University Hardwar, November 3-4, 2012.

4. Presented a paper entitled **"S**ome weak stability results" National conference on Nonlinear Analysis and Applications (NCNAA 2010), Department of Mathematics, H.N.B.Garhwal University Campus Pauri, Pauri, June 5-7, 2010.

5. Presented a paper entitled **"**Common fixed point theorems in fuzzy metric spaces", National Conference on Recent Trends in Mathematical Sciences (RTMS-2010), IT Banaras Hindu University, Varanasi , March 18-20, 2010.

6. Presented a paper entitled**,** "A convergence result for Jungck - Ishikawa iteration process"**,** National Meet on History of Mathematical Sciences held at Department of Mathematics, University of Delhi, Delhi, January 7-9, p-21, 2010.

7. Presented a paper entitled "Modified three step Noor iterative scheme for family of maps in Banach spaces", 24th National Conference on Analysis and its Applications (AA-BHU 2009), Banaras Hindu University, Varanasi, March 19-21, 2009.

8. Presented a paper entitled "A stability result for set valued operators", 74th Annual Conference of Indian Mathematical Society held at Department of Mathematics, University of Allahabad, Allahabad, December, 27-30, 2008.

9.   Presented a paper entitled "A common fixed point theorem for hybrid maps with an integral type condition", 24th Annual Conference of the Mathematical Society, Banaras Hindu University, Varanasi, December 30-31, 2008.

Dr. Sanjeev Sharma

International:

1.   Presented a paper entitled "Thermo elastic-plastic analysis of thick-walled cylinder made of Non-homogeneous stainless steel composite material under Internal and external pressure using shooting method" in First International Conference on Structural Integrity (ICONS-2014), Kalpakkam, India on February 4-7, 2014.

2.   Presented a paper entitled "Elastic-Plastic Transition of Non-Homogeneous Isotropic Thick-Walled Spherical Shell under Pressure with Steady State Temperature" in First International Conference on Structural Integrity (ICONS-2014), Kalpakkam, India on February 4-7, 2014.

3.   Presented a paper entitled "Creep Deformation of a Thin Rotating Disk of Exponentially Varying Thickness with Inclusion" in 3rd International Conference on Emerging Trends in Engineering & Technology (ICETET-10), BITS Pilani, K.K.Birla Goa Campus, November 19-21, 2010..

4.   Presented a paper entitled "Elastic-Plastic Deformation of a Thin Rotating Disk of Exponentially Varying Thickness and Inclusion" in 5th IASME/WSEAS International Conference on Continuum Mechanics (CM'10), University of Cambridge, UK on February 23-25, 2010.

Dr. Lokendra Kumar

International:

1.   Presented a paper entitled "Finite element solution of natural convection boundary layer flow of MHD thermomicropolar fluid over a vertical plate", in the 37th National and 4th International Conference on Fluid Mechanics and Fluid Power at IIT Madras, Chennai, India on Dec. 16-18, 2010.

2.   Attended in the Study Group Meeting on Industrial Problems (SGMIP - 2009) held at IIT Roorkee on 16-21 March 2009.

National:

1.   Attended a QIP short term course on "Design and Analysis Using FEM, X-FEM and Meshfree Methods" organized by Department of Mechanical & Ind. Engineering, IIT Roorkee held on July 12-16, 2010.

2. Presented a paper entitled "Finite element solution of heat and mass transfer in a hydromagnetic flow of a micropolar fluid past a stretching sheet", IMS Conference, organized by Department of Mathematics, University of Pune on December 27–30, 2007.

3. Presented a paper entitled "Numerical techniques for the solution of the mixed convection flow of a micropolar fluid past a continuously moving plate with variable surface conditions" in the Indo-Australian workshop organized by Department of Mathematics, IIT Roorkee, April 12–14, 2007.

Dr. Amit Srivastava

International:

1. Presented a paper entitled "A New Parametric Fuzzy Entropy Measure and Its properties" in Twenty-first International Conference on Information and Mathematical Sciences to be organized by Baba Farid College of Engineering & Technology, Bhatinda in collaboration wtith Indian Society of Information Theory & Its Applications from 24th October, 2013 to 26th October, 2013. .(Paper Published in Conference Proceedings)

2. Presented a paper entitled "A New Improved Intuitionistic Fuzzy Cross – Entropy Approach for Medical Investigations" in Twenty-first International Conference on Interdisciplinary Mathematics, Statistics and Computational Techniques (IMSCT 2012-FIM XXI) organized by Panjab University, Chandigarh from 15th December, 2012 to 17th December, 2012.

3. Presented a paper entitled "A New Variant of Jensen's Inequality with Application in Information Theory" in International conference on History and Development of Mathematical Sciences and Symposium on Non linear Analysis organized by Department of Mathematics, Maharshi Dayanand University, Rohtak and Indian Society of History of Mathematics from 21st November, 2012 to 24th November, 2012.

4. Presented a paper entitled " On Some New bounds of weighted Entropy Measures"in 16th Annual cum 2nd International Conference of Gwalior Academy of Mathematical Sciences (GAMS) and 2nd International Conference of Bioinformatics Under the Aegis of IFIP-TC 5 and Computer Society of India with Symposia on Recent Trends in Applications of Mathematical Modeling in Engineering, Physical & Social Sciences and Bioinformatics and its Applications organized by Organized by S.S. Dempo College of Commerce and Economics, Altinho, Panaji, Goa from 22nd September to 25th September, 2011.

5. Presented a paper entitled "Application of Weighted entropy Measures for the Study of Maximum entropy Principle",in *I International Conference on Adaptive Computing Technologies in Various Engineering Applications* Organized by Poornima College of Engineering, Jaipur from 24th February to 26th February, 2011.

National:

1. Presented a paper entitled "A New Fuzzy Entropy Measure and Its Properties" IN National conference on Role of Mathematics in Advancement of Science & Technology Organized **by** Bappa Sri Narain Vocational P.G. College (KKV), Lucknow from 18th October to 20th October, 2013

2. Presented a paper entitled "A New Quantitative-Qualitative Measure of Relative Information and Its Properties" IN 17th Annual Conference of Gwalior Academy of Mathematical Sciences (GAMS) and National Symposium on Computational Mathematics and Information Technology Organized by Jaypee University of Engineering and Techonogy, Guna (Madhya Pradesh) from 7th December to 9th December, 2012.

3. Presented a paper entitled "A Note on Weighted information of Noisy Channels" in National conference on Emerghing Trends in Intelligent computing and communication held from 13th July to 14th July, 2012 organized by Department of Information Technology, Galgotias College of Engineering & Technology, Greater Noida, pp. 147 -151.

4. Presented a paper entitled "Parametric Measure of Uncertainty in queuing Systems" in *National Seminar on 'Interface Between Statistics, Mathematics and Allied Sciences' (IBSMAS-2010)* organized by Department of Statistics, Kumaun University, Almora from 20th November to 22nd November, 2010.

Dr. Parul Tiwari

1. Attended a short term course under TEQIP on Optimization and its Applications at Mathematics Department, IIT, Delhi, during December 16-19, 2014.

Dr. Pato Kumari

International:

1. Propagation of G type seismic waves in a homogeneous isotropic layer over a non homogeneous isotropic half space" presented in RAG-2011 in ISM Dhanbad.

2. Applications of Bessel, Whittaker and Heun functions in Torsional wave propagation", presented in International conference on Special functions

and their applications in science and engineering, December 8-10, 2011 in RJIT, Tekanpur, Gwalior.

3. Effect of rigidity and density variation on propagation of torsional wave", presented in 2nd International Science Congress, 8-9th Dec, 2012, held at Vrindavan (Mathura).

4. Modeling of Torsional wave in an isotropic layer over a homogeneous viscoelastic infinite substratum", presented in International Conference on Mathematical Modeling and Numerical Simulation, organized by the Department of Applied Mathematics, Babasaheb Bhimrao University, Lucknow, India during July 01-03, 2013.

National:

1. **Paper titled** "Attenuation of torsional wave in a non-homogeneous layer between non-homogeneous half spaces", National conference on Recent Trends in Mathematical Modeling and Soft Computing Techniques, Manav Rachna International University, Faridabad on March 29th, 2014.

Dr. Pankaj Kumar Srivastava

National:

1. Participated and Presented a paper entitled "Application of Nonpolynomial Spline to Reduce Mode Mixing and Detrend Uncertainty Present in Traditional Empirical Mode Decomposition" in National Conference on Applications of Mathematics In Engineering and Sciences (AMES-2014) at MNNIT Allahabad, 29-30, November 2014.

2. Member of organizing committee of an Instructional Workshop on R, SCILAB and GAP Jointly Organized By IMSA & Department of Mathematics & Statistics SHIATS-DU Allahabad at SHIATS Allahabad from 7-16, January 2015.

Dr. Akhilesh Kumar Singh

International:

1. Presented a paper entitled "Variations on effect algebras" in "International conference on recent trends and issues in engineering and technology" (ICRTIET-2014) organized by Department of Mathematics, DJCET, Ghaziabad, August 30-31, 2014.

2. Attended an International Conference on "The legacy of Srinivasa Ramanujan" organized by Department of Mathematics, University of Delhi, Dec. 17 - 22, 2012.

National:

1. Attended a National Conference on "Applications of Mathematics in Engineering and Sciences (AMES-2014)" organized by Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad India, November 29-30, 2014.

2. Attended a Short-term Course on "The role of basic sciences in engineering education" organized by Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad India June 12-16, 2013.

3. Attended a national workshop on "Advanced numerical techniques in research and development" organized by Department of Mathematics Amity University, Noida, India, Dec. 20 - 21, 2012.

Dr. Dinesh C S Bisht

International:

1. Participated in International Conference on Soft Computing Techniques for Engineering and Technology-2014, held from August 7 to 8, 2014, at Graphic Era Hill University, Bhimtal Campus, Nainital, Uttarakhand, India.

Dr. Puneet Rana

International:

1. Two papers presented entitled "Horton-Rogers-Lapwood convection in a binary nanofluid saturated rotating porous layer" and "Effect of uncertainties in physical properties on mixed convection along a rotating vertical slender cylinder with nanofluids" in ASME International Mechanical Engineering Congress and Exposition, Montreal, Canada on November 14-20, 2014.