Academic Programme

ICHDMS-2012

**Day 1: Wednesday, 21st November 2012**

 7.30 a.m. to 8.45 a.m. Break Fast Faculty House

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| **TIME** | **ACTIVITY** | **VENUE** |
| 9.00 a.m. to 10.00 a.m. | Registration | **Tagore Auditorium** |
| 10.00 a.m. to 11.30 p.m. | Inaugural Session |
| 11.30 a.m. to 12.00 noon | HIGH TEA |

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| **Technical Session - I** |
| **12.00 noon to 1.30 p.m.** **Tagore Auditorium**  **Chairpersons: Dinesh Singh, Vice-Chancellor, DU**  **&**  **SarvaJit Singh, INSA Honorary Scientist, Delhi** |
|  12.00 noon to 12.45 p.m. | Talk 1 S. G. Dani*President, ISHM,**IIT, Mumbai* | **Presidential Address**Katyayana Sulvasutra: Some Observations |
| 12.45 p.m. to 1.30 p.m | Talk 2 H. P. Dikshit*Chairman, Institute of Environmental Studies, M. P.* | **Prof. U. N. Singh Memorial Lecture**CAGD and Analytical Properties of Wachspress Rational Function |

1.30 p.m. to 2.30 p.m. LUNCH Faculty House

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| **Technical Session - II** |
| **2.30 p.m. to 4.00 p.m.**  **Tagore Auditorium****Chairpersons: H.P. Dikshit, Inst. of Env. Studies, M.P. & I.B.S. Passi, IISER, Mohali** |
| 2.30 p.m. to 3.15 p.m. | Talk 3 R. Balasubramanian *Chairman, NBHM* | On Srinivasa Ramanujan |
| 3.15 p.m. to 4.00 p.m. | Talk 4 Kim Plofker *USA* | Multipliers and Divisors in an Unusual Way: Approximation Algorithms in Sanskrit Astronomical Handbooks |

4.00 p.m. to 4.15 p.m. TEA Tagore Auditorium

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| **Technical Session - III** |
| **4.15 p.m. to 6.15 p.m.** **Tagore Auditorium** **Chairpersons: R. Balasubramanian, Chairman, NBHM & Pierre Sylvain Filliozat, France**  |
| 4.15 p.m. to 4.45 p.m. | Talk 5Jayant Shah*Northeastern University**Boston, USA* | Pingala’sCombinatorics |
| 4.45 p.m. to 5.15 p.m. |  Talk 6Jens Hedge Hoeyrup  *Denmark* | A Hypothetical History of Old Babylonian Mathematics: Places, Passages, Stages, Development |
| 5.15 p.m. to 5.45 p.m | Talk 7Anjinng Qu*China* |  Lagrange’s Strategy: A Proof  |
| 5.45 p.m. to 6.15 p.m. | Talk 8D. S. Hooda*Jaypee University of Engineering & Technology* | Number Theory and Cryptography  |

 6.40 p.m. Meeting of the EC, ISHM Faculty House

 7.00 p.m to 9.00 p.m. CONFERENCE DINNER Faculty House

**Day 2: Thursday, 22nd November 2012**

7.30 a.m. to 8.45 a.m. Break Fast Faculty House

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| **Technical Session - IV** |
| **9.00 a.m. to 11.00 a.m.**  **Tagore Auditorium****Chairpersons: Kim Plofker, USA** |
| 9.00 a.m. to 9.30 a.m. | Talk 9Yukio Ohashi *Japan* | On the Mesopotamian Zig-Zag Function of the Day Length |
| 9.30 a.m. to 10.00 a.m. | Talk 10Pierre Sylvain Filliozat *France* | Fundamentals of Arithmetics according to Śaṅkara Vāriyar(Kerala, 1500-1560) |
| 10.00 a.m. to 10.30 a.m. | Talk 11K. Ramasubramanian*IIT Mumbai, India* | Finding the Capa (arc) in terms of Jya and Sara (Chords) |
| 10.30 a.m. to 11.00 a.m. | Talk 12 Oscar Jao Abdounur*Brazil* | Mathematical Conceptual Changes in Renaissance Music |

11.00 a.m. to 11.20 a.m. TEA Break Tagore Auditorium

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| **Technical Session – V : *“Symposium in the Memory of Prof. B. S. Yadav”*** |
| **11.20 a.m. to 1.20 p.m.****Tagore Auditorium****Chairpersons: G. S. Pandey, Vikram University, Ujjain & Anjinng Qu, China**  |
| 11.20 a.m. to 11.50 a.m. | Talk 13Abul Hasan Siddiqi *Gautam Buddha University* *Greater Noida* |  **Prof. B. S. Yadav Memorial Lecture** Recent Developments in Inverse Problems with Application to Medical Imaging , Finance and Industry |
| 11.50 a.m. to 12.20 p.m. | Talk 14S. N. Mishra *WSU, Mthatha, South Africa*  | "Fixed Points as a Study Tool - The Stability of Fixed Points" |
| 12.20 p.m. to 12.50 p.m. | Talk 15S. L. Singh*Gurukula Kangri Vishwavidyalaya, Haridwar* | Recent Developments in Contractive Fixed Point Theory |
| 12.50 p.m. to 1.20 p.m. | Talk 16Geetha S Rao     *University of Madras, Chennai* | A New Tool in Approximation Theory |

1.20 p.m. to 2.00 p.m. LUNCH Faculty House

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| **Technical Session - VI *Department of Bio-Technology***  |
| **2.00 p.m. to****4.00 p.m** | **Sem. Hall No. 119****Chairpersons:** ***C. B. Gupta******BITS, Pilani*** ***&******Yukio Ohashi*** ***Japan*** | **Sem. Hall No. 226*****Chairpersons:******B. K. Dass******Delhi University*** ***&******K. Ramasubramanian******IIT, Mumbai*** | **Sem. Hall No. 327****Chairpersons:*****Geetha S Rao  University of Madras, Chennai*** ***&*** ***J. N. Sharma******NIT, Hamirpur*** | **Computer Centre****Chairpersons:*****P. Manchanda******G N Dev University*** ***&******Satish Rajvanshi*** ***PEC, Chandigarh*** |
| 2.00 p.m. to 2.30 p.m | Talk 17Nasib Singh Gill*MDU, Rohtak*Next Generation Computing Technologies : Opportunities and Challenges | Talk 18Sudesh Kaur Khanduja*IISER, Mohali*History and Development of EisensteinIrreducibility Criterion | Talk 19 R.P. Pant*Kumaon University**Uttaranchal*The Problem of Continuity of Contractive Maps at Fixed Points | Talk 20 Shraddha Ingale*New Arts, Commerce & Science College, Ahmednagar (M.S.)*Application of Generalized (Fuzzy) Measures in Risk Analysis |
| 2.30 p.m. to 4.00 p.m | Talk 21Sharda Devi*St. Xavier College**Mumbai*“Honours Programme on History … Facilitator” **Paper Presentation** A-01 to A-09 | Paper Presentation B-01 to B10 | Paper Presentation  B-11 to B-20 | Paper Presentation C-45 to C-54 |

4.00 p.m. to 4.15 p.m. TEA Department of Bio-Technology

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| **Technical Session - VII  *Department of Bio-Technology***  |
| **4.15 p.m.to****6.15 p.m.** | **Sem. Hall No. 119****Chairpersons:*****R. K. Tuteja******M.D.U, Rohtak*** ***&******Prem Chandra*** ***Ujjain*** | **Sem. Hall No. 226****Chairpersons:** ***Paras Ram******NIT, Kurukshetra*** ***&*** ***J. S. Bhullar******MIMIT, Malout***  | **Sem. Hall No. 327****Chairpersons:** ***Vinod Bhardwaj******K.U, Kurukshetra******&******Athanase Papadopoulos, France*** | **Computer Centre****Chairpersons:** ***R. P. Pant******Kumaon University Uttaranchal*** ***&******Gregg De Young         Egypt*** |
| 4.15 p.m. to 4.45 p.m | Talk 22P. Manchanda*G N Dev University*Wavelet Methods in Data Mining | Talk 23R. P. Pant GNIT, Nagpur------- | Talk 24 R. N. Mukherjee*The University of Burdwan, West Bengal*On a Generalized ε-Control Problem | Talk 25 B. C. Dhage*Maharashtra, India*On a General Hybrid Fixed Point Theorem and its Applications |
| 4.45 p.m. to 6.15 p.m. | Paper PresentationD-01 to D-04 D-07 to D-09D-16 to D-20 | Paper PresentationD-21 to D-30 | Paper PresentationB-21 to B-27B-29 to B-31 | **Paper Presentation**B-61 to B-70 |

7.00 p.m. to 8.30 p.m. CULTURAL PROGRAMME Tagore Auditorium

8.30 p.m. DINNER Faculty House

**Day 3: Friday, 23rd November 2012**

7.30 a.m. to 8.45 a.m. Break Fast Faculty House

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| **Technical Session - VIII** |
| **9.00 a.m. to 11.00 a.m.****DDE Conference Hall****Chairpersons: S. N. Mishra, W S University, South Africa** **&**  **Quan Tang, Normal University, Xianyang, China** |
| 9.00 a.m. to 9.30 a.m. | Talk 26XU Chuan-Sheng*Linyi University**China* | A Research on the St. Petersburg Probability School’s Probability Theorem |
| 9.30 a.m. to 10.00 a.m | Talk 27Gregg De Young *Egyp*t | The Calcutta School Book Society 1824 Edition of Euclid: The First Geometry Textbook Published in India |
| 10.00 a.m. to 10.30 a.m | Talk 28M. S. Sriram *Chennai* | Continued Fractions in Karanapaddhati |
| 10.30 a.m. to 11.00 a.m | Talk 29K. S. Rao *Chennai* | Ramanujan and Gauss Hypergeometric Series |

11.00 a.m. to 11.15 a.m. TEA DDE Conference Hall

**Open Session Dedicated to Srinivasa Ramanujan on**

**“*Mathematical Education for Young Minds*”**

***11.15 a.m. to 1.00 p.m.***

***DDE Conference Hall***

**Chairperson: S.G. Dani, IIT, Mumbai**

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| **Panel** |
| Anjinng Qu, *China* | Pierre Sylvain Filliozat, *France* |
| G. S. Pandey , Ujjain | R. K. Sharma,  *Delhi* |
| Killapalli Srinivasa Rao, *Chennai* | S. L. Singh, *Rishikhesh* |
| K. Ramasubramanian, *Mumbai* | Sunil Datta, *Lucknow* |
| M.S. Sriram, *Chennai* | Yukio Ohashi, *Japan* |
| Oscar Jao Abdounur,*Brazil* |  |

1.00 p.m. to 1.45 p.m. LUNCH Faculty House

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| **Technical Session - IX**  |
|  | ***Department of Bio-Technology***  | ***Department of Mathematics*** |
| **1.45 p.m. to 4.00 p.m** | **Sem.Hall No. 119****Chairpersons:*****B. R. Handa*** ***IIT, Delhi*** ***&******M. S. Sriram******Chennai*** | **Sem. Hall No. 226****Chairpersons:*****P. K. Jain*** ***DU, Delhi*** ***&******Winter Sinkala******South Africa*** | **Sem. Hall No. 327****Chairpersons:*****S. K. Tomar******Punjab University Chandigarh*** ***&******R. P. Sharma******JECRC University  Jaipur*** | **Computer Centre****Chairpersons:*****K. S. Rao******Chennai*** ***&******P. R. Sharma******University of Rajasthan, Jaipur*** |  **Seminar Hall****Chairpersons:*****T. P. Singh******Yamuna Inst. of Engg & Tech.******Yamunanagar*** ***&******Nesar Ahmad*** ***Bhagalpur University, Bihar*** |
| 1.45 p.m. to 2.15 p.m | Talk 30 Prem Chandra*Ujjain*Characterization of Function for Absolutely Summable Fourier Expansions by Riesz Means | Talk 31 M. D. Sharma*K.U.K*Mathematical Modeling of Life-Path | Talk32Yiwen Chen*China* Mathematical Communication of Chinese Scientific and Technological Journals in the Early 20th Century | Talk 33 Mamta Rani*Rajasthan* *Bandar Sindri*Cubic Superior Mandelbrot Sets and Higher Order Superior Julia Sets | Paper PresentationD-31 to D-45E-01 to E-05 |
| 2.15 p.m. to 2.45 p.m | Talk 34Quan Tang Xianyang Normal University, ChinaTime Difference Algorithm of Solar Eclipse Theory in Ancient China and India | Talk 35S. D. Sharma*Jammu*Composition Operators On Hardy and Bergman-TypeSpaces Of the Upper Half-Plane | Talk 36M.C. Joshi*Nainital*Commutativity, its Weaker Forms and Existence of Fixed Point | Talk 37K. K. Dewan*Jamia Milia Islamia, Delhi*Growth of Polynomials |
| 2.45 p.m. to 4.00 p.m | Paper Presentation C-11 to C-20 | Paper Presentation A-10 to A-20 | Paper PresentationC-21 to C-30 | Paper PresentationA-21 to A-28 |

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4.00 p.m. to 4.15 p.m. TEA Department of Bio-Technology

4.00 p.m. to 4.15 p.m. TEA Department of Bio-Technology

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| **Technical Session - X**  |
| ***Department of Bio Technology***  | ***Department of Mathematics*** |
| **4.15 p.m.to****6.15 p.m.** | **Sem.Hall No. 119****Chairpersons:*****R. K. Mohanty******South Asian University******New Delhi*** ***&******Ashok Kumar Gupta******MDU, Rohtak*** | **Sem. Hall No. 226** **Chairpersons:*****S. C. Arora******Delhi University******&******Rajender Singh Chhillar******MDU, Rohtak*** | **Sem. Hall No. 327****Chairpersons:*****H. C. Taneja******DTU, Delhi*** ***&******Mamta Rani******Central University of Rajasthan Bandar Sindri*** | **Computer Centre****Chairpersons:** ***Rajneesh******KUK, Kurukshetra*** ***&******S. K. Garg******DBCRUST Murthal*** | **Seminar Hall****Chairpersons:*****S. S. Bhatia*** ***Thapar University******Patiala*** ***&******P. K. Bhatia******GJU, Hisar*** |
| 4.15 p.m. to 4.45p.m. | Talk 38 P. Rajasekhar*Engineer, Qatar*Jyeshtadeva’s “Yukthi Bhasa” : Its Relevancein the History of Mathematics | Talk 39Sunil Dutta*Lucknow University*Surfactant Layer:An Appraisal | Talk 40V.K. Chaudhary*University of Hort.& Forestry, Nauni Solan*Mathematical Models for Analysis of Variance and Applications | Talk 41V. Lokesha*Acharya Institute of Techonology**Banglore, India*Facet on Mathematical Means and its Inequalities | *Paper**Presentation*B-46 to B-50E-16 to E-30 |
| 4.45p.m. to 5.15 p.m | Talk 42 Zhao Jiwei Northwest University, Xi’an, China Finding the Area of Sphere’s Surface: Bhaskara II and Archimedes | Talk 43M. Imdad*Aligarh Muslim Univ. , Aligarh*Observations on Some Recent Common Fixed Point Theorems | Talk 44 S. K. Kaushik*D.U., Delhi*On Feichtinger Conjecture | Talk 45B. S. Choudhary*Bengal Engineering and Science University**West Bengal*Some Emerging Aspects Of Fuzzy Fixed Point Theory Of Nonlinear Mappings |
| 5.15p.m. to 6.15 p.m. | Paper Presentation D-53 to D-62 | PaperPresentation B-41 to B-45E-11 to E-15 | Paper Presentation D-64 to D-68E-06 to E-10 | PaperPresentation E-31 to E-40 |

6.30 p.m. to 7.30 p.m. General Body Meeting, ISHM Department of Mathematics

8.00 p.m. DINNER Faculty House

**Day 4: Saturday, 24th November 2012**

7.30 a.m. to 8.45 a.m. Break Fast Faculty House

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| **Technical Session - XI**  |
| ***Dept of Bio-Technology*** | ***Department of Mathematics*** |
| **9.00 a.m. to****11.30 a.m** | **Sem. Hall No. 119****Chairpersons:*****Shaffurdeen Ahmed Jamia Millia Islamia*** ***&*** ***O. P. Vinocha*** ***Ferozepur*** | **Sem. Hall No. 226****Chairpersons:*****Atul Juneja******Scientist C******Indian Council of Medical Statistics New Delhi*** ***&******Anil Bhardwaj******University of Jaipur*** | **Sem. Hall No. 327****Chairpersons:** ***Khalil Ahmed Jamia Millia Islamia*** ***&******Aseem Miglani******CDLU, Sirsa*** | **Computer Centre****Chairpersons:*****A. P. Singh*** ***Central University of Rajasthan*** ***&******Ratna Dev SarmaUniversity of Delhi*** | **Seminar Hall****Chairpersons:*****Kuldeep Bansal******GJU, Hisar*** ***&******S. K. Das******Berhampur University*** |
| 9.00 a.m. to 9.30 a.m | Talk 46 Bikram Kesri Rath  *Utkal Univ. Bhuveneshar*Software Visualization | Talk 47 Winter Sinkala*South Africa*Instructive Examples on the Application of Lie Symmetry Analysis to Differential Equations | Talk 48V. M. Mallayya *M. College of* *Engg. & Tech.*  *Trivandrum*Error Functions from Slowly Convergent Series, and Rapidly ConvergentSeries from Error Functions | Talk 49B. S. Dandapat*Sikkim Manipal Institute of Technology*Solvent Evaporation Effect on Thin Liquid Film Development over an Annular Rotating Disk | Talk 50Vinod Mishra *Sant Longowal Inst.  of Engg. & Tech, Longowal*Wavelet Galerkin Solutions of Ordinary and Partial Differential Equations |
| 9.30 a.m. to 11.30 a.m. | Paper PresentationB-51 to B-60D-46 to D-48 | Paper Presentation D-05 to D-06, D-10 to D-15D-49 to D-52, D-63 | Paper Presentation B-28, B-32 to B-40 | Paper PresentationC-31 to C-44 | Paper Presentation C-01 to C-10E-41 to E-47 |

11.30 a.m. to 11.45 a.m. TEA DDE Conference Hall

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|  **Technical Session - XII** |
| **11.45 a.m. to12.45 p.m.****DDE Conference Hall****Chairperson: Jayant Shah, *Northeastern University, Boston, USA*** ***&*** **Abul Hasan Siddiqi, Gautam Buddha University, Greater Noida**  |
| 11.45 a.m. to12.15 p.m. | Talk 51Hukum Singh*NCERT, Delhi*“Historical Development of Euclidean and Non-Euclidean Geometry” |
| 12.15 p.m to 12.45p.m | Talk 52G.S. Pandey*Ujjain, M.P*“Uncertainty Principle –Traditional and Modern” |

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| **TIME** | **Activity** | **Venue** |
| 12.45 p.m. to 1.45 p.m. | Valedictory Function | DDE Conference Hall |

2.00 p.m. to 3.00 p.m. LUNCH Faculty House

Session Wise Presentation of Contributory Papers

ICHDMS-2012

Thursday, 22nd November 2012

Technical Session – VI (Parallel session - I)

Time: 2.00 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 119)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | A-01 | Abouzar Farzpourmachiani | Institute for the History of Science,University of Tehran, Iran.  | Week-day Calculation in Jaunpuri’s Zij-i Bahadurkhani |
| 2 | A-02 | Amanpreet kaur | Assitant Professor Punjabi University Patiala, Deptt of distance education | Indian Roots of Mathematics |
| 3 | A-03 | Asim Kumar Majumdar and Sandeep Kumar Bhakat | Siksha-Satra, Visva-Bharati, P.O- Sriniketan-7312136, Dist-Birbhum, WB;  | Nicomachus (An Introducer of Arithmetic) |
| 4 | A-04 | Assieh Sokhan Sheno Haghi and Mona Singh |  Student, Iran  | Al-Khwarazmi’s Arithmetical Treatise on Hindu Reckoning  |
| 5 | A-05 | Chitralekha Mehera | Deptt of Education, The University of Burdwan, Burdwan, West Bengal;  | Computer Science In The Light of Ancient Mathematics |
| 6 | A-06 | Govind Singh and Mahesh C. Joshi | Amrapali Institute of Tech. & Sciences, Haldwani, Uttarakhand;  | Lagadha (A Brief Biography) |
| 7 | A-07 | Harsha |  Assistant Professor, Govt. College, Bawani Kheraharshaarora.2008@rediffmail.com | Contribution of Ramanujan in Maths |
| 8 | A-08 | Madan Lal Ghai | Punjab; mlghai24@gmail.com | The 19th  And 20th  Centuries Mathematics |
| 9 | A-09 | Maryam Zamani1 and Roozbeh Zabihian2 | 1, 2University of Tehran,  | Workshop on Teaching the Structure and Application of Fakhiri Sextant |

Technical Session – VI (Parallel session - II)

Time: 2.00 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 226)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-01 | A. K. Das | School of Maths, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir  | On A Simultaneous Generalization of Compactness and Normality |
| 2 | B-02 | Ajay Gairola, Mahesh C. Joshi and Jay Singh | Deptt of Maths, D.S.B. Campus, Kumaun University, Nainital;  | Weakly Reciprocal Continuity And Existence of Coincidence and Fixed Point for Hybrid Maps |
| 3 | B-03 | Angom Tiken Singh | Deptt of Maths, North-Eastern Hill University, Shillong, Meghalaya;  | Ranks of Some Tensors |
| 4 | B-04 | Anil Kumar | Rohtak; sheoran4140@gmail.com | Some Results On Inequalities In N-Inner Product Spaces |
| 5 | B-05 | Anita Tomar | Government Degree College, Dakpathar(Dehradun), Uttarakhand;  | Coincidence And Common Fixed Point Results For Two Pairs of Maps Using An Inequality Involving Quadratic Terms |
| 6 | B-06 | Anju Panwar | Deptt of Maths, M.D.U., Rohtak | Common Fixed Point Theorem Via Absorbing Maps In Intuitionistic Fuzzy Metric Spaces Through Conditions of Integral Type |
| 7 | B-07 | Aradhana DuttJauhari | Senior Lecturer, Inst. of Engg. & Tech., Greater Noida, U.P.  | A New Theorem On Product Summability of Infinite Series |
| 8 | B-08 | Ardeline Mary Buhphang | Deptt of Maths, North-Eastern Hill University, Shillong, Meghalaya;  | Some Properties of Reduced Modules |
| 9 | B-09 | Ashish | Deptt of Maths, M.D.U., Rohtak, India. | Hyers-Ulam-Rassias Stability of Functional Equations In Multi – Banach Spaces |
| 10 | B-10 | B. C. Dhage1 and Vilas Patil | 1“Kasubai”, Gurukul Colony, Ahmedpur-413515, Dist. Latur, Maharashtra, India;  | On Some Common Random Fixed Point Theorems With PPF Dependence In Banach Spaces |

Technical Session – VI (Parallel session - III)

Time: 2.00 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 327)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-11 | Bhagwati Prasad1 and Ritu Sahni2 | 1Professor, Deptt of Maths, Jaypee Institute of Information Tech., A-10, Sector- 62, Noida 20130 | Some Best Proximity Point Results |
| 2 | B-12 | Bharat Bansal1, Sonia2 and J.S. Bhullar3 | 1Deptt of Electronics and Communication, MIMIT, Malout, India2Deptt of Information Tech., MIMIT, Malout, India.3Deptt of App. Sc., MIMIT, Malout, India.  | On Properness of Irreducible Cyclic Codes of Even Dimension |
| 3 | B-13 | Chang Wang | Deptt of Maths, Northwest University, Xi’an Shaanxi, 710127, PR China | Fréchet’s Doctoral Thesis and Some Ideas |
| 4 | B-14 | Chen Yiwen | Lecturer, China;  | Mathematical communication of Chinese Scientific & Technological Journals in the early 20th century |
| 5 | B-15 | Deepak B. Pachpatte | Assistant Professor, Deptt of Maths, Dr. Babasaheb Ambedekar Marathwada University, Aurangabad, 431004, Maharashtra, India;  | On Some Properties of Nonlinear Dynamic Integral Equations On Time Scales |
| 6 | B-16 | Devanand Ram1and C. Sreedhar2 | 1Finance officer, office of the Chief Medical officer Muzaffarnagar, U.P.; 2Deptt of Maths, NBKR Institute of Science and Tech., Vidyanagar, Nellore , A.P.;  | A Common Fixed Point Theorem For Four Mappings In A Fuzzy Metric Space |
| 7 | B-17 | Dibyendu De | Assistant Professor, Deptt of Maths,Univ. of Kalyani, Kalyani, West Bengal; dibyendude@klyuniv.ac.in | Combined Geo-Polynomial Progressions Inlarge Subsets of N |
| 8 | B-18 | Dinesh Rani Bansal1and Sanjay Kumar**2** | 1Associate Professor, Deptt of Maths, Vaish College Rohtak, Haryana, India; 2Associate Professor, Deptt of Maths,, D.C.R.U.S.T., Murthal Sonepat, Haryana, India. | Common Fixed Point Theorems In Generalized Menger Spaces |
| 9 | B-19 | Gajendra Pratap Singh1, Sangita Kansal2 and Mukti Acharya3 | 1Research Scholar ,Deptt of Applied Maths, Delhi Technological University, Shahbad Daulatpur, Main Bawana Road, Delhi, India;  | A Wheel 1-Safe Petri Net Generating All The {0,1}N Sequences |
| 10 | B-20 | Giniswamy1 , Maheshwari P.G2, and Jeyanthi.C3 | 2Assistant Professor, Government First Grade College Vijayanagara, Bangalore | Common Fixed Points For Four Self Maps In Cone Metric Space Under Expansive Type Mappings |

Technical Session – VI (Parallel session - IV)

Time: 2.00 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Computer Centre)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | C-45 | Sunil Kumar**1**J.S.Sikka**2** andS. Chaudhary**3** | **1**BPSMV, Khanpur Kalan, Sonepat; **2**Deptt of Maths, M.D.U., Rohtak; **3**Govt. P.G. College, Hissar. | A Study of Laser-Induced Vibrations In Generalized Thermoelastic Medium |
| 2 | C-46 | Sunita Deshwal | Professor, Deptt of Maths, G. J. University of Science and Tech., Hisar, Haryana, India. | Analysis of Vibrations In A Fractional Order Generalized Magneto-Thermoelastic Medium Due To Time Harmonic Thermal Source |
| 3 | C-47 | Sunita Deswal1and Neelam Hooda2 | 1Professor, Deptt of Maths, Guru  Jambheshwar  University of Science and Tech., Hisar, Haryana, India.; 2Assist. Professor  | Thermodynamic Behaviour of Viscoelastic Solids With Voids Under Gravity |
| 4 | C-48 | Sunita Rani**1**,Manoj Puri**2** andSarvajit Singh**3** | **1,2**Deptt of Maths, G.J.U., Hisar; 1. **3.** Honorary Scientist, Indian National Science Academy, New Delhi-110021,India;
 | Plane Strain Deformation of An Anisotropic Permeable Porous Layer Due To Normal Loading |
| 5 | C-49 | Surendra Kumar | Assistant Professor, UIET, M.D.U., Rohtak- India. skymathmdu@rediffmail.com | MID Blood Flow Through An Artery With Variation In Absolute Temperature |
| 6 | C-50 | T. N. Saini**1**and J.S Nandal**2** | 1Professor, Deptt of Maths, M. D. University, Rohtak, India. 2Associate Professor, Deptt of Maths, Govt. College, Kalka, India;  | Effects of Crack-Dilatancy on Rayleigh Waves in Fluid-Saturated Porous Media |
| 7 | C-51 | Tomba I. | Deptt of Maths, Manipur University. | Construction of Magic Squares: A Simple Approach  |
| 8 | C-52 | Urvashi Gupta**1**and ParulAggarwal2 | **1**Associate Professor, University Institute of Chem. Engg. & Tech., Panjab University, Chandigarh-160014; **2**Chandigarh College of Engg. & Tech., Sec-26,Chandigarh | Double-Diffusive Convection of Compressible Dusty Rivlin-Ericksen Fluid In The Presence of Hall Currents – A Study To Determine Critical Rayleigh Number |
| 9 | C-53 | Veena Sharma1, Radhe Shyam2 and Renu Kumari3 | 1,2,3Deptt of Maths & Statistics H.P. University, Shimla.  | Numerical Investigations of Stability of Stratified Viscoelastic Walters’ (Model B’) Fluid/Plasma In Presence of Variable Magnetic Field In Porous Medium |
| 10 | C-54 | Vikas Poply1 , Phool Singh2 and K. K. Chaudhary3 | **1**Research scholar; 1,2,3ITM  University, Gurgaon ;  | Analysis of Laminar Boundary Layer Flow Along A Stretching Cylinder In The Presence of Thermal Radiation  |

Technical Session – VII (Parallel session - I)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 119)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-01 | Abhimanu Singh | Deptt of App. Maths, Bhagwan Parshuram Institute of Tech.., Sector-17, Rohini, Delhi-89;  | Measures of Performance of a Production Line With Immediate Feedback And Multi Server Facility At Each of the Processing Units |
| 2 | D-02 | Ajay Kumar Sharma1, RajiveKumar2 and Girish Kumar Sharma3 | 1Research Scholar, Professor, Deptt of Maths D.C.R.U.S.T. Murthal, Haryana.2Asso. Professor, Deptt of Comp. Sc., BPIBS, Shakarpur, Delhi.  | A Comparative Study of Some Queueing Theoretic Solution Methods For Parallel And Distributed System Models: A Survey Paper |
| 3 | D-03 | Amit Goyal1, Gulshan Taneja2 | 1Deptt of Maths, RPIIT, Bastara, Karnal2Deptt of Maths, M.D.U., Rohtak; drgtaneja@gmail.com | Comparative Study between two models for sulphated juice pump systems working seasonally and having different repair policies |
| 4 | D-04 | Amit Srivastava1and Sikha Maheshwari2 | 2Research Scholar, 1,2Deptt of Maths, Jaypee Institute of Information Tech., NOIDA (Uttar Pradesh)2maheshwari.shikha23@gmail.com1raj\_amit377@yahoo.co.in | A New Variant of Jensen’s Inequality With Applications In Information Theory |
| 5 | D-07 | Anjali Naithini1, Bhupender Parashar2 and P.K.Bhatia3 | 1Deptt of Applied Maths, DBCR University of Science and Tech., Murthal, Haryana; 2Deptt of Maths, JSS College of Engg., Noida.3Deptt of Applied Maths, D.C.R.U.S.T., Murthal, Haryana. | Probabilistic Analysis of A 2-Out-of-3 Induced Draft Fans Cold Standby System With Priority For Operation To Cold Standby Over Compatibility To Work At Low Power Production |
| 6 | D-08 | Ankit Kumar Goyal**1,** S.R. Singh**2** and Shyamli Gupta**3** | Assistant Professor,  Deptt of Applied Sciences, IIMT Engg. College, Meerut, (U.P) India.Deptt of Maths, D.N College, Meerut,U.P.Deptt of Maths, Graphic Era University, Dehradun,U.P, India,  | An EOQ Model of Deteriorating Items With Lot-Size Dependent Replenishment Cost And Stock Dependent Demand |
| 7 | D-09 | Archana Malik | Deptt of Maths, M.D.U., Rohtak | Analysis of a Two-Unit Cold Standby System with Instructions and the Accidental Effects |
| 8 | D-16 | Deepak ShudhalwarandP. K. Butey | Assistant Professor in Computer Sc. Engg. ,PSSCIVE, NCERT, Bhopal; Associate Professor,, Kamla Nehru College, Nagpur;  | Comparative Study of Software Reliability Engineering Estimation Models |
| 9 | D-17 | Govil Jindal1 Pardeep Goel2 , Vinita Gupta3 and Jai Singh4 | 1Assistant Lecturer Govt. College Sohna; 2Deptt. of Maths, M.M.(P.G.) College, Fatehabad. pardeepgoel1958@yahoo.com3Deptt. of Maths, Adarsh College, Samana, vijaygupta\_1953@yahoo.co.in4Principal Director, Punjab College of Engg., Lalru (Mohali),Punjab. | Behavioral Analysis of Single Unit System with Server Failure. |
| 10 | D-18 | Gulshan Taneja1and Amit Manocha2 | 1Deptt of Maths, M.D.U., Rohtak Haryana; 2Deptt of Maths,TITS, Bhiwani Haryana.  | Comparative Analysis between Two Models on 2-out-of-3 Ash Water Pump System with Different Repair Facilities |
| 11 | D-19 | Gulshan Taneja**1**and Reetu Malhotra**2** | 1Deptt of Maths, M.D. University, Rohtak drgtaneja@gmail.com2Deptt of Applied Sciences, Chitkara University, Rajpura, Punjab;  | Cost–Benefit Analysis of A Single Unit System With Variation In Demand |
| 12 | D-20 | Indra1 and Renu2 | 1 Kurukshetra University, Kurukshetra; 2Research Scholar, Kurukshetra University, Kurukshetra,  | On The Two-Dimensional Non Markovian Queueing Model With Bernoulli Scheduled Vacations |

Technical Session – VII (Parallel session - II)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 226)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-21 | Isha**1**, Vinod Kumar2 and Madhulika Dube3 | 1,2Research Scholar , 3 Professor, Deptt of Statistics, M.D.U., Rohtak | Finite Sample Properties of Ridge Estimator: A Different Approach |
| 2 | D-22 | Jagdish Parsad**1**,A.K.Bhardwaj**2**and Surendra Kumar Yadav**3** | **1,2**Deptt of Statistics, University of Rajasthan, Jaipur **3**Deptt of Computer science and Engg., JNIT, Jaipur | Performance Measure of Maxmin-Minimax Algorithm With Two Player Games Algorithms |
| 3 | D-23 | Jagdish Parsad**1**,A.K.Bhardwaj**2**and Surendra Kumar Yadav**3** | **1,2**Deptt of Statistics, University of Rajasthan, Jaipur **3**Deptt of Computer science and Engg., JNIT, Jaipur  | LM3 Algorithm For Decision Making And Analysis Under Uncertainty In Environment of Artificial Intelligence |
| 4 | D-24 | Jai Bhagwan and Naresh K. Dua | Deptt of Maths, PDM College of Engg., Bahadurgarh, Haryana; ndua\_10@yahoo.com | Stochastic Analysis of Duplex Unit Standby System With Two Types of Repair |
| 5 | D-25 | Madhulika Dube1and Vinay Kumar2 | 1Professor, Deptt of Statistics, M.D University, Rohtak.2Research Scholar, Deptt of Statistics, M.D University, Rohtak | Statistical Models And Estimation In Epidemiological Studies: A Review |
| 6 | D-26 | Meenakshi1 , M. S. Saroa2 and Vijay Kumar3 | 1Lecturer, Deptt of Maths, HCTM, Kaithal.2Deptt of Maths, M. M.U. Mullana, Ambala, Haryana, India3Deptt of Maths, Haryana College of Tech. and Management, Kaithal, Haryana, India;  | Strong Lacunary Statistical Limit And Cluster Points On Probabilistic Normed Spaces |
| 7 | D-27 | Monu Kumar1 and Rajeev Kumar2 | 1, 2Deptt of Maths, M.D.U., Rohtak. | Effect of Hardware-Software Interaction Failures On Performabilty of Hardware-Software System |
| 8 | D-28 | Naresh Kamra | Associate Professor, Deptt of Maths, Aggarwal college, Ballabgarh, Faridabad; nareshkamra10@gmail.com | Stochastic Behaviour of A Redundant System With Interchangement Facility In Standby |
| 9 | D-29 | Naveen Adlakha1 and Gulshan Taneja2 | 1Deptt of Maths, GITM, Gurgaon; nadlakha59@gmail.com2Deptt of Maths, M.D.U., Rohtak, Haryana, India. | Stochastic Analysis of a Transportable VSAT used for Voice Communication and Satellite News Gathering |
| 10 | D-30 | Neeraj Kumar1 andS. R. Singh2 | 1Deptt of Applied Sciences, IIMT Engg. College, Meerut, U.P., India; 2Deptt of Maths, D.N.(PG) College, Meerut ,U.P. | Two-Warehouse Inventory Model For Deteriorating Items With Price Dependent Demand, Variable Holding Cost And Time-Proportional Backlogging Rate |

Technical Session – VII (Parallel session - III)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall N0. 327)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-21 | H.D. Arora 1 and Anjali Dhiman2 | 1Deptt of Maths, Amity Institute of Applied Sciences, Amity University, Noida, U.P., 2Deptt of Maths, Ideal Institute of Mgmt. and Tech., G.G.S.I.P. University, Delhi. | On Some New Generalized Intuitionistic Fuzzy Information Measure – A Theoretic Approach |
| 2 | B-22 | Izhar Uddin | Deptt of Maths, Aligarh Muslim University, Aligarh.  | Some New Fixed Point Results In Cat (0) Spaces |
| 3 | B-23 | J.S. Bhullar1, Manish Gupta and O.P. Vinocha2 | 1Deptt of App. Sc., MIMIT, Malout, India. bhullarjaskarn@yahoo.co.in3Principal, Ferozpur College of Engg., Ferozshah, Ferozepur, India; vinochar@yahoo.com | On Primitive Narrow-Sense Bch Codes And Its Dimension |
| 4 | B-24 | Jagbir Singh1and S. K.Arora2 | Deptt of Maths, M.D.U., Rohtak, India. | Minimal Cyclic Codes of Length 8pn, over Gf(Q) where Q Is Prime Power And of The Form 8k+5 |
| 5 | B-25 | Jagjeet | Research Scholar, Deptt of Maths, M.D. University, Rohtak-124001, Haryana | Composition Operators On Orlicz-Lorentz Spaces: A Review |
| 6 | B-26 | Karavir Singh1 and S. Kaur2 | 1Associate Professor, Deptt of Applied Maths, Punjab Technical University Giani Zail Singh Campus, Bathinda (Punjab);  | L^1- Convergence And Integrability of Modified Cosine Sums |
| 7 | B-27 | Karavir Singh1 and Vikas Arya2 | 1Associate Professor, Deptt of Applied Maths, Punjab Technical University Giani Zail Singh Campus, Bathinda (Punjab);  | Generalisation of Euler’s Theorem |
| 8 | B-29 | M. Rais Khan1 and K. L Kaushik2 | 1Professor, Deptt of Maths, Jamia MilliaIslamia, New Delhi, 2Associate Professor, (Head) ,Deptt of Maths, Aggarwal College, Ballabgarh, Faridabad, India | Generalized Inner Derivations In PrimeRings |
| 9 | B-30 | Madhu Aggarwal | Deptt of Maths, M.D.University, Rohtak, India. | Stability of Common Fixed Points For A Pair of Sequences of Nonlinear Contractions |
| 10 | B-31 | Manish Gupta1, J.S. Bhullar2 and O.P. Vinocha3 | 2Head, Deptt of App. Sc., MIMIT, Malout, India. 3Principal, Ferozpur College of Engg., Ferozshah, Ferozepur, India; vinochar@yahoo.com | Quantum Error-Correcting Bch Codes As Binary Stabilizer Codes |

Technical Session – VII (Parallel session - IV)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Computer Centre)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-61 | Sunita Goyal | Assistant Professor (Maths), JVMGRR College, Charkhi Dadri,  | Primitive Idempotents In GF(Q)(Cn) Where Q = Nλ+1 |
| 2 | B-62 | Sushma | Assistant Professor in Kanya Mahavidyalaya Kharkhoda, Sonepat, Haryana ;  | A Note On N-Normed Linear And N-Inner Product Spaces |
| 3 | B-63 | Tamanna Kadian | Government College for Women, Hisar, Haryana. | Common Fixed Point Theorem In Generalized Transversal Spaces |
| 4 | B-64 | Th. Biren Singh1and Ksh. Mangijaobi Devi2 | 1Oriental College, Imphal -795001; 2Deptt of Maths, Manipur University, Canchipur, Imphal, Manipur, India | A Brief Review On Fuzzy Goal Programming With Piecewise Linear Membership Functions |
| 5 | B-65 | U.C. Gairola and R. Krishan | Deptt of Maths, H. N. B. Garhwal University, Pauri Campus, Pauri Garhwal, Uttarakhand, India; ram.krishan976@gmail.com | Common Fixed Point Theorem For Three Maps By Altering Distances Between The Points |
| 6 | B-66 | Vaijanath L.Chinchane**1** andDeepak B.Pachpatte**2** | **1**Depart. of Maths, Deogiri Institute of Eng. and Manag. Studies, Aurangabad, Maharashtra; **2**Deptt of Maths, Dr. B.A.M. Univesity, Aurangabad, Maharashtra  | A Note On Some Fractional Integral Inequalities Via Hadamard Integral |
| 7 | B-67 | Vijay PrakashTomar1 and R.P. Singh2 | 1Deptt of Maths, D.C.R.U.S.T. Murthal Sonepat , India2Ex. Reader Deptt of Maths, L.R. College Sahibabad, Ghaziabad (U.P.), India | Generalized Symmetric Fuzzy Divergence Measures and Inequalities |
| 8 | B-68 | Vikas Kumar 1and H. C. Taneja2 | 1Deptt of Applied Sciences, UIET, M. D.U., Rohtak. 2Deptt of App. Maths, Delhi Technological University, Delhi | Characterization Results Based On Non-Additive Cumulative Residual Entropy Measure |
| 9 | B-69 | Vivek Kumar | Lecturer, Deptt of Maths, M.D.U., Rohtak | On Strong Convergence And Stability of Jungck-CR Iterative Scheme |
| 10 | B-70 | Yumnam Rohen and M. Bina Devi | Deptt of Maths, National Institute of Tech. Manipur, Takyelpat, Manipur, India;  | Some Common Fixed Point Theorems ofCompatible Mappings of Type (P) |

Friday, 23rd November 2012

Technical Session – IX (Parallel session - I)

Time: 1.45 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 119)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | C-11 | Inder Singh Gupta1, Manish Gupta2 and G.K. Bansal3 | 1Deptt of Maths, J.V.M.G.R.R(P.G.) College, Charkhi Dadri, Haryana; 2Deptt of EECE, School of Engg. and Tech., ITM Univeristy, Gurgaon, Haryana. 3Deptt of Maths, Government P.G. College, Bhiwani, Haryana. | Surface Wave In Fiber-Reinforced Anisotropic Elastic Solid Media |
| 2 | C-12 | Jasveen Kaur Walia | Student, House No. 3436A, Street No.3, Azad Nagar, Putlighar, Amritsar(Punjab);  | Role of Banking Sector In Indian Economy |
| 3 | C-13 | Lekh Raj | Assistant Professor, Punjabi University neigbhourhood campus, karandi, Distt. Mansa (Punjab), India | Mathematical Formulation of Instability of Rivilin-Ericksen Viscoelastic Fluid Through A Porous Medium |
| 4 | C-14 | M Chandru1, V. Shanthi2 and Manibabu V3 | 1,2Deptt of Maths, National Institute of Tech., Tiruchirappalli; 2Deptt of Computer Science, Indira Gandhi College, Tiruchirappalli; vshanthi@nitt.edu | A Hybrid Difference Scheme For A Singularly Perturbed Reaction-Diffusion Problem With Discontinuous Source Term |
| 5 | C-15 | M. Dhanraj1and S. N. Gaikwad2 | 1,2Deptt of Maths, Gulbarga University, Jnana Ganga, Gulbarga, Karnataka;  | The Onset of Double Diffusive Convection In A Couple Stress Fluid Saturated Anisotropic Porous Layer With Cross-Diffusion Effects |
| 6 | C-16 | M. Subhas Abel**1** and Jagadish V. Tawede**2** | **1**Deptt of Maths, Walchand Institute of Tech., Solapur-6, Maharashtra, India, **2**Deptt of Maths, Gulbarg University, Karnatka, India. | A Numerical Solution of MHD Heat Transfer In A Laminar Liquid Film On An Unsteady Flat Incompressible Stretching Surface With Viscous Dissipation And Internal Heating |
| 7 | C-17 | ManjuSangwan and J .S.Nandal |  Assistant Professor, Govt. college Barwala (PKL) | Rayleigh Wave Scattering Due At Vertical Discontinuity At The Coastal Region |
| 8 | C-18 | Manoj Kumar1 and Ashish2 | 1,2Deptt of Maths, M.D.U., Rohtak-124001, India. | Stability of Orthogonal Quadratic Functional Equations |
| 9 | C-19 | Manoj Puri**1**Sunita Rani**2**and Sarvajit Singh**3** | **1,2**Deptt of Maths, G.J.U., Hisar. **3** Honorary Scientist, Indian National Science Academy, New Delhi-110021,India | Consolidation of An Anisotropic Compressible Poroelastic Clay Layer By Strip Loading |
| 10 | C-20 | Meenal Malik1 , Mahabir Singh2and J. S. Nandal3 | 1Deptt of App.Sc., Matu Ram Institute of Engg. and Management, Rohtak.2COE, D.C.R.U.S.T., Murthal, Sonepat.3Deptt of Maths, M.D.U., Rohtak | Deformation of A Uniform Half-Space With Rigid Boundary Due To A Long Tensile Fault |

Technical Session – IX (Parallel session - II)

Time: 1.45 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 226)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | A-10 | Meeta Arora | Research Scholar, Jamia Millia Islamia, Delhi.  | Florence Nightingale: Life History And Works As Mathematician |
| 2 | A-11 | Min Bahadur Shrestha | Professor, Central Deptt of Education, T.U., Kirtipur, shresthambs@gmail.com | Tradition of Indian Methodology (Hindu Style) of Mathematical Thinking |
| 3 | A-12 | Mita Darbari | Assistant Professor and Head, Deptt. of Maths, St. Aloysius College, Jabalpur, India; m.darbari@rediffmail.com | All things are numbers - a pythagorean idea |
| 4 | A-13  | Morteza Somi |  Student, Iran  | Mathematical and Astronomical Works of Quṭb Al-Dῑn Lāhījī |
| 5 | A-14 | Mukesh Sharma | Deptt of Maths, Marudhar Engg. College, Bikaner | A Summation Due To Ramanujan – I |
| 6 | A-15 | Nidhi Handa | Gurukul Kangri Vishvavidyalaya,   Haridwar. | To Study The Mean Distance of Planets And To Draw Geometrical Picture |
| 7 | A-16 | Omkar Lal**1** Shrivastava**2**  andSumita Shrivastava**3** | 1Govt. Digvijay P.G. College, Rajnandgaon.2Govt. Digvijay P.G. College, Rajnandgaon (C.G.). | Fermat’s Numbers In Triloksåra |
| 8 | A-17 | Prabhjot Kaur | Assistant Professor, Deptt of Maths, Punjab College of Technical Education, Baddowal, Ludhiana, Punjab.  | The Life And Work of Sophie Germain |
| 9 | A-18 | Pushpander Kadian | Assistant Professor, Deptt of Maths, Govt. College, Badli Jhajjar;  | Mathematical Pi: General History And Recent Developments |
| 10 | A-19 | Rachana Gupta | Associate Professor, Maths Deptt, Hindu Girls College, Sonepat.  | Contribution of Shraman Sanskriti To Mathematics |
| 11 | A-20 | Rakesh Bhatia | Head of Deptt. , Hindu Shiksha Smiti Haryana. | Significance of Vedic Mathematics Sutra in Present  Scenario |

Technical Session – IX (Parallel session - III)

Time: 1.45 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 327)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | C-21 | Monayya1 and  M. Subhas Abel2 | 1Research scholar ,   2Assist. Professor, 1,2Deptt of Maths, Gulbarga University, Gulbarga , Karnataka. | Boundary-Layer Flow of A Nanofluid Past A Stretching Sheet With Momentum And Thermal Slip Pande |
| 2 | C-22 | N.S. Tomer1 and Anoop Kumar2 | 1G.C.Nahar, Rewari, Deptt of Higher Education, Haryana, India.2Gurgaon Institute of Tech. and Management, Bilaspur, Haryana, India | Effect of radiation, porosity and power-law exponent of concentration on non-linear MHD boundary layer and mass transfer flow |
| 3 | C-23 | Naresh K. Dua and Jai Bhagwan | Deptt of Maths, PDM College of Engg., Bahadurgarh, Haryana; ndua\_10@yahoo.com | Stability of Stratified Shear Flows In Presence of Magnetic Field And Cross Flow |
| 4 | C-24 | Ombir Dahiya**1**and J. S. Nandal2 | 1Research Scholar, 1,2Deptt of Maths, M.D.U., Rohtak -124001 | On The Scattering of Love Waves Due To A Vertical Discontinuous Surface Layer In The Presence of Surface Impedance |
| 5 | C-25 | Praveen Ailawalia | Professor and Head, App. Sc. and Humanities, Baddi University of Emerging Sciences and Tech., Makhnumajra, Baddi, Distt. Solan (H.P) | Disturbance In Generalized ThermoelasticMedium With Internal Heat Source UnderHydrostatic Initial Stress And Rotation |
| 6 | C-26 | R. K. Sahrawat | Deptt of Maths, D.C.R.U.S.T., Murthal-125001, India | Viscoelastic Stress Field Due to Centre of Explosion in a Layered Half-Space |
| 7 | C-27 | R. Kaur1 and J. N. Sharma2 | 1Deptt of Maths, National Institute of Tech., Hamirpur-177005, India;  | Analysis of Thermo-Elasto-Diffusive Damping In Micro/Nano–Scale Beam Resonators |
| 8 | C-28 | Rajbala Rathee and J. S. Nandal | Matu Ram Institute of Engg. & Mgmt., Delhi Road , Rohtak.  | Effects of Hematocrit On Power Law Fluid Through Stenosed Artery With Magnetic Field In Porous Medium. |
| 9 | C-29 | Rajesh Kumar1 and J.S. Nandal2  | 1Lecturer , BPS Institute of Higher Learning, Khanpur Kalan, Sonepat; 2Professor, Deptt of Maths , M.D. University, Rohtak,  | Scattering of Rayleigh Waves- A Survey Article |
| 10 | C-30 | Rajkala | Assistant Professor, mathematics, Dr. B.R.A.G.C. Kaithal | Kinematics of Finite Deformation |

Technical Session – IX (Parallel session - IV)

Time: 1.45 p.m. to 4.00 p.m. Venue: Department of Bio-Technology (Computer Centre)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | A-21 | S. Pushpa, B. S. Geetha, U. Geetha Karanth and M. Poornima  | Deptt of Maths, SJBIT, Bangalore | History And Development of Mathematics In Earlier Ages |
| 2 | A-22 | S. S. Rana | Associate Professor, Tika Ram College of Education, Sonepat | Vedic Mathematics-Proudful Indian Heritage |
| 3 | A-23 | Sandeep Kumar Bhakat | Siksha-Satra, Visva-Bharati, P.O- Sriniketan-7312136, Dist-Birbhum, WB.;  | A Note on Platonic Solids |
| 4 | A-24 | T.P. Sarma | Assistant Professor, DESM, NCERT, Sri Aurobindo Marg, New Delhi-110016  | Mathematics During 15th To 18th Centuries |
| 5 | A-25 | Tang Quan | Associate Professor, School of Maths & Information Science, Xianyang Normal University, Xianyang, 712000, China. | Time Difference Algorithm of Solar Eclipse Theory in Ancient China and India |
| 6 | A-26 | Taru Gupta | Assistant Professor, Women Inst. of Tech., Bathinda.  | ‘Vedic Mathematics’ A Human Calculator |
| 7 | A-27 | Vanishri Bhat | Research Scholar, Dept of HSS, IIT, Bombay. | A Glimpses of Geometry And Algebra InKriyakramakari |
| 8 | A-28 | Zhao Jiwei | Associate Professor, China; Centre for the history of mathematics & sciences, Deptt of Maths, Northwest University, Xi’an, China | Finding the Area of Sphere’s Surface: Bhaskara II and Archimedes |

Technical Session – IX (Parallel session - V)

Time: 1.45 p.m. to 4.00 p.m. Venue: Department of Mathematics (Seminar Hall)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-31 | Neha Saxena1, Shiv Raj Singh2 | 1,2Deptt of mathematics,D. N. College, Meerut | A Centralized Open Loop Supply Chain Inventory Model Under The Reverse Flow of Material With Permissible Delay In Payment |
| 2 | D-32 | Nitin Bhardwaj 1,and Ashok Kumar2 | 1 Assistant Professor, Jss Mahavidyapeetha, Noida, U.P. 2Professor, M.D.U., Rohtak;  | Two-Unit Standby System With Imperfect Switching And Discrete Failure And Repair Times |
| 3 | D-33 | P. Kumar and Amit Sehgal | Lectures, Pt. N.R.S. Govt. College, Rohtak. | Developments In Linear Programming |
| 4 | D-34 | P .K. Manoj  | Assistant Professor, Deptt of Applied Economic, Cochin University of Sc. & Tech., Kochi, Kerala-682022, Kerala | History and Development of Econometrics: Need For Added Thrust on Econometrics As an Academic Discipline in Higher Education |
| 5 | D-35 | Pallavi Kharbanda1 Divya Agarwal2and Deepa Sinha3 | 1Research Scholar, Centre for Mathematical Sciences, Banasthali University, Rajasthan. 2Deptt of Applied Sciences and Humanities, ITMm University, Gurgaon. 3Deptt of Maths, South Asian University, New Delhi, India.  | Generalized Univex Functions In Nondifferentiable Multiobjective Programming Problem |
| 6 | D-36 | Pawan Bhardwaj1 and Gulshan Taneja2 | 1National Crime Record Bureau, R.K. Puram, New Delhi, 2Deptt of Maths, M.D.U., Rohtak;  | Analysis of a Two-Unit Hot Standby PLC System with Detection of Failure at System Failure only |
| 7 | D-37 | Pooja Bhatia1 and Rajeev Kumar2 | 1,2Deptt of Maths, M.D.U., Rohtak (Haryana)-124001, 2 drrajeevmdu@gmail.com | Stochastic Analysis of a Centrifuge System Working in Thermal Power Plant Considering Various Faults Including Neglected Faults |
| 8 | D-38 | R. K. Agnihotri1and Dalip Kumar2 | 1Dept of Stat., St. John’s College, Agra.2Dept of Maths, GGDSD College, Palwal. | Performance Evaluation of  A 2-Out- -of-3 Cylinders In An Automobile Engine |
| 9 | D-39 | R. Raj1, N. K. Kaliraman2, S.R.Singh3 and Rekha Choudhary4 | 1,2Research Scholar, Deptt of Maths, Banasthali University, Rajasthan. 3Reader, Deptt of Maths, Devnagri College, C.C.S.U., Meerut, 4Associate Professor, Deptt of Maths,Govt. Engg. College, Bharatpur, Rajasthan | An Integrated multi item Production Inventory Model For Reworkable Items With Exponential Demand Rate In Imperfect Production Process |
| 10 | D-40 | Rachna Khurana1 A.K. Lal2 , S.S. Bhatia3 and R.K. Tuteja4 | 1,2,3School of Maths & Computer Applications, Thapar University Patiala; 4M.D.U., Rohtak  | Analysis of A Three Unit Standby System Working In A Rice Plant With Varying Demand With No Condition On Number of Simultaneous Repairmen |
| 11 | D-41 | Raj Kumar1 and Ashutosh Sharma2 | 1Research Scholar, JJT University, Jhunjhunu, Rajasthan. 2Associate Professor Deptt of Maths, Govt. P.G. College, Bhiwani. | A 2-Out-of-3 Units System With Inspection Before Failure And Preventive Maintenance |
| 12 | D-42 | Rajeev Kumar1 and Shefali Batra2 | 1Deptt of Maths, M.D. University, Rohtak, Haryana. 2Deptt of Maths, Chitkara University, Solan (H.P)  | Stochastic Analysis of A Model On Printed Circuit Board Manufacturing System Having Two Types of Repair Facility And Two Cases of Inspection |
| 13 | D-43 | Rashmi Gupta | Vaish College of Engg., Rohtak;  | Reliability And Economic Analysis of A Two-Unit Cold Standby System With Three Types of Repair Policy And Replacement |
| 14 | D-44 | Ravish K. Yadav1 and Rajeev Kumar2 | 1Deptt of mathematics; Hindu College, Moradabad.2Research Scholar; Hindu College Moradabad; rajeevkumar  | Inventory Model for Repairable Items with Lateral Transshipments in Retail Supply chain |
| 15 | D-45 | Reena1 andRajeev Kumar2 | 1,2Deptt of Maths, M. D. University, Rohtak, Haryana | Comparative Profit Analysis of Two Stochastic Models For A System Under Warranty Having Three Operational Modes And Different Types of Replacement |
| 16 | E-1 | Akoijam Bimolna Singh**1** and Th. Biren Singh**2** | **1**Research scholar, Deptt of Maths,Manipur University, Canchipur, Imphal; **2**Oriental College, Imphal | A Clustering Method Based On Fuzzy Max- Equivalence Relation For Decision Maker Relationship Management |
| 17 | E-2 | Amit Kumar**1**and Priyank Srivastava2 | 1,2Deptt of Mechanical, N.C .College of Engg., Israna, India,  | Fuzzy Ahp of Extant Analysis And Fuzzy Topsis: The Multiple Criteria Decision Making Tools |
| 18 | E-3 | Amit1 andPoonam2 | 1Research Scholar, Deptt of Commerce, Dravidian University, A.P.; 2M. Tech (CSE) , Deptt of Computer Science, SBMN College of Engg. Rohtak;  | Securing M-Banking Using Artificial Neural Network |
| 19 | E-4 | Amit Singla1andSumeet Gill2 | 1Assistant Professor, Deptt of Comp. Sc. & Application, Vaish College of Engg., Rohtak; 2Assistant Professor, Deptt of Maths, M.D.University, Rohtak.  | Securing Mobile Adhoc Networks-Wifi Equipments |
| 20 | E-5 | Anita1 and Gopal Singh2 | Deptt of Comp. Sc. App., M.D.U., Rohtak.Research scholar1 , 2Assistant Professor,  | Design And Implementation of Scenario of Dsr Routing Protocol In Manets Using Ns-2 |

Technical Session – X (Parallel session - I)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 119)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-53 | Savita Malik and Reena Nandal | M.K.J.K. College, Rohtak | Principles And Applications of Operations Research |
| 2 | D-54 | Shalini Jain1, S.R.Singh2 | 1Research Scholar , Centre for Mathematical Sciences, Banasthali University, Banasthali (Raj.); 2Deptt of Maths, D.N. College, Meerut | An EPQ Model For Imperfect Items In Fuzzy Environment With Backorders. |
| 3 | D-55 | Shruti Rani **1** andAshutosh Sharma**2** | 1Vaish College, Bhiwani; 2Govt College Bhiwani | A Two-Unit System With Inspection Before Failure |
| 4 | D-56 | Som P. Dubey1, Housila P. Singh2 and Jitender S. Bhawalkar3 | 1Pd. Dr. D.Y.Patil Medical College, Pune, Vikram University, Ujjain, M.P | The Utilization of Known Coefficient of Variation of An Auxiliary Character In Estimation of Population Mean |
| 5 | D-57 | Sonia Sachdeva1 and Gulshan Taneja2 | **1** Assistant Professor, Deptt of Maths, BRCM Engg. College, Bahal , Bhiwani, Haryana.**2** Associate Professor, Deptt of Maths, M.D.U., Rohtak.  | Availability And Profit Analysis of A System Manufacturing Drums And Rear Brakes For Cars |
| 6 | D-58 | Sudesh Kumari and Rajeev Kumar | Deptt of Maths, M. D.U., Rohtak. | Analysis of a Two-Unit Hot Standby Combined Hardware-Software System Reliability Model |
| 7 | D-59 | Sunil Kadiyan | Assistant Professor, Panipat Institute of Engg. and Tech. Samalkha, Panipat | Performance Analysis of Bottle Washer System In A Process Industry By Using Mathematical Modeling |
| 8 | D-60 | Sunita Rani and Rajeev Kumar | Deptt of Maths, M.D.U., Rohtak-124001 | Some Effectivness Measures of A Stochastic Model On Water Process System Considering Minor/Major Faults And Two Types of Redundant Subsystems |
| 9 | D-61 | Sunny Kapoor1 and Rajeev Kumar2 | Deptt of Maths, M.D.U., Rohtak-124001, Haryana;  | Performance Evaluation of A Base Transceiver System Considering Four Operational Modes And Inspection |
| 10 | D-62 | Suresh K.Gupta | Vaish College of Engg., Rohtak | Cost-Benefit Analysis of A Two-Unit Cold Standby System With Instructions And Preparation Time For Repair |

Technical Session – X (Parallel session - II)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 226)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-41 | Ramkrishna Paul | Assistant Professor, Deptt of Maths; National Institute of Tech., Sikkim | Centrally Image Partition Regularity |
| 2 | B-42 | Ravindra K. Bisht | Deptt of Maths, Applied Sciences & Humanities Bipin Tripahti Kumaon Institute of Tech., (Uttarakhand Technical University), Dwarahat, Almora | A Meir-Keeler Type Fixed Point Theorem In Fuzzy Metric Space |
| 3 | B-43 | S. A. Morye1 and S. R. Chaudhari2 | 1Deptt of Maths, Rajaram College, Kolhapur (M.S.), India 2Deptt of Maths, Shivaji University, Kolhapur (M.S), India | On The Lattice Theoretic Study Of Fuzzy Mealy Machine |
| 4 | B-44 | S. K. Kaushik and Mukesh Singh |  Assistant Professor, Govt. College, Bhadurgarh. | An Application of Retro Banach Frame In Banach Space |
| 5 | B-45 | S. K. Sahu1, B.L.Raina2 and Neha3 | 1,3 Deptt of Maths, 2Deptt of Information and Tech., Lingaya’s Univesity,Faridabad, Delhi NCR, India. | Some Results On Zeros of Complex Polynomials |
| 6 | E-11 | Baljinder Singh | Sai Institute of Engg. and Tech., Amritsar. | Face Identification Approach Using Hybrid Computing: Pca And Neural Networks |
| 7 | E-12 | Darshana J. Prajapati1, R. C. Dimri2 , Mamta Rani2 and Shruti Chaukiyal3 | 1,3Deptt of Maths, H. N. B. Garhwal University, Srinagar, Uttarakhand, India; 2 Deptt of Computer Science, Central University of Rajsthan, Kishangarh, Rajsthan, India | Fractal Tiling And Colour Stealing From Natural Digital Images |
| 8 | E-13 | Deepika Balhara1, Sumita Sihag2, Preeti Gulia3and Surbhi Sangwan4 | Deptt of Comp. Sc. & App., M.D.U., Rohtak, Haryana, India. | Reviewing Fault Tolerance In Grid Computing |
| 9 | E-14 | Divya Chaudhary1and Rajender Singh Chhillar2 | Deptt of Comp. Sc. & App.,M.D.U., Rohtak, Haryana, India. | Confidentiality And Security Concerns In Cloud Computing: A Review |
| 10 | E-15 | G. S. Katkar | Deptt of Computer Science, Arts, Commerce and Science College, Koradi, Nagpur, India. | Neuro-fuzzy based optical character recognition system |

Technical Session – X (Parallel session - III)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Sem. Hall No. 327)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-64 | Upasana Tandon1 and Gulshan Taneja2 | 1 Deptt of Maths, M.D.U., Rohtak | A Reliability Model On A Two-Unit Standby Oil Delivering System With A Possibility of Switching Over To Another System |
| 2 | D-65 | Vandana Bhagat | Assoc. Professor, Deptt of Maths, Advanced Institute of Tech. & Manag., Palwal, Haryana.  | Analysis of A System With Two Types Each of Instruction, Repair and Cost of Engaging The Expert Repairman For Repair |
| 3 | D-66 | Vandana Gupta1, S. R. Singh2 and Preety Gupta3 | 1Deptt of Maths, Inderprastha Engg., College, Ghaziabad,U. P., India; 2Deptt of Maths,D. N. (P.G) College, Meerut- 250001, Uttar Pradesh, India; 3Research scholar | EOQ Supply Chain Production Model With Preservation Technology And Stock Dependent Demand Rate Under Inflation |
| 4 | D-67 | Vinod Kumar Kakoria | Professor, S.B.M. N. Engg. College, Asthal Bohar, Rohtak | On Linkage of a Flow-Shop Scheduling System with Weight to Biserial Queue Network |
| 5 | D-68 | Xu Chuansheng  | Professor, College of science, Linyi University, Shandong Linyi 276001,China | A Research on The St. Petersburg Probability School ’s Probability Theorem |
| 6 | E-6 | Ankita Mann1, Sandeep Dalal2, Vimmi Makkar3, and Dheeraj Chhillar4 | DCSA, M.D.U., Rohtak | Role of Metrics In Software: A Review |
| 7 | E-7 | Arun Kumar1 Priyanka Jain2, and Puneet Sharma3 | 1,2Deptt of C.S.E, H.C.E, Sonepat, Haryana, India; 3Assistant Professor in C.S.E. Deptt, H.C.E, Sonepat, Haryana, India  | PRERINDUS: A Proposed Protocol for MANET using Particle Swarm Optimization |
| 8 | E-8 | Asha Rathee1and Gopal Singh2 | Deptt of Comp. Sc. Applications, M.D.U., Rohtak1M.Tech student, 2Assistant Professor,  | Compare Performance Of Aodv And Dsr Routing Protocols In Manets Using Ns-2 |
| 9 | E-9 | Ashish Chaturvedi1and **Ikvinderpal Singh2** | 1Professor & Associate Director, **Arni School of Comp. Sc. & Appl. Arni University, Kathgarh, Himachal Pardesh; 2Assistant Professor, P.G Deptt of Comp. Sc., Trai Shatabdi GGS Khalsa College, Amritsar** | Energy Efficiency Optimization of Ad Hoc Network With Various Evolutionary Techniques |
| 10 | E-10 | Ashish Chaturvedi**1**Sarita Kadian**2**Arun Jain**3** andPreeti Kapahi**4** | **1**ASCSA, Arni University, Indora, HP, India. **2,4**Bharati College, University of Delhi, Delhi, India.**3**Deptt of Comp. Sc., Singhania University, rajasthan.  | Photo Based Authentication For Mobile Users |

Technical Session – X (Parallel session - IV)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Bio-Technology (Computer Centre)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | E-31 | P. Kumar1 and Naveen Kumar2 | 1Pt. N.R.S. Govt. College, Rohtak; 2Govt. College, Kalka | Survey of Rough And Fuzzy Techniques In Soft Computing |
| 2 | E-32 | Payal Maggo1 and Sumedha Sood2 | Deptt of Comp. Sc. & App.,M.D.U., Rohtak, Haryana, India.  | Analysing Resource Usage In GRID COMPUTING Environment |
| 3 | E-33 | Priti Saluja1 Sandeep Dalal2 | 1M.Tech(CS), Deptt of Computer Sc. and Application, M.D.U., Rohtak; 2Assistant Professor, Deptt of Computer Sc. and Application, M.D.U., Rohtak, Haryana, India | Role of Testing In Cloud Computing: A Review |
| 4 | E-34 | Priyanka Jain1, Arun Kumar2, andVijay Pal Singh3 | 1,2 H.C.E, Sonepat, Haryana, India;3Assoc. Professor,G.I.E.T, Sonepat, Haryana, India.  | Fuzzy Logic Design For GSM Hand off |
| 5 | E-35 | R. Mary Jeya Jothi1 and A. Amutha2 |  1Research Scholar, Deptt of Maths, Sathyabama University, Chennai.; 2Assistant Professor, Deptt of Maths, Sathyabama University, Chennai  | Super Strongly Perfectness of Hypercube Network |
| 6 | E-36 | S.L.Singhand Sarika Jain  | 21,Govind Nagar, Rishikesh-249201; Deptt of I.T., Amity School of Engg. and Tech., Noida, U.P.  | Rendering of Set Attractor Using Natural Colours |
| 7 | E-37 | S.R. Pande1 and S.S. Sambare2 | 1Associate Professor and Head, Deptt of Computer Science, SSES Amt’s Science College, Congress Nagar, Nagpur-440012.; 2Professor, Dhanwate National College, Deptt of Computer Application, Congress Nagar, Nagpur;  | Intrusion Detection Using Data Mining Techniques |
| 8 | E-38 | Sandeep Kumar1 Jain and Manu Pratap Singh2 | 1,2Deptt of Computer Science, Institute of Engg. & Tech., Dr. B.R. Ambedkar University, Khandari, Agra, India  | The Component: An Emerging Tool In Software Development |
| 9 | E-39 | Sarita | Pt NRS Govt College Rohtak | Impact of Mobile Phones On Human Health |
| 10 | E-40 | Satish Kumar1 and Neelam Rohilla2 | 1Deptt. of Maths, Govt. Post Graduate College, Kullu (HP); satishkumar31982@gmail.com,2Deptt. of Maths,Govt College Barwala Distt. Hisar Haryana; neelamrohilla@ gmail.com | History Behind Croptography In Mathematics Guidelines To A Successful RSA Implementation & Digital Signature Verification through RSA |

Technical Session – X (Parallel session - V)

Time: 4.15 p.m. to 6.15 p.m. Venue: Department of Mathematics(Seminar Hall)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-46 | S.K.Tiwari and D.K. Bhatt  | School of Studies in Maths, Vikram University, Ujjain, M.P.  | On Product Summability of Fourier Series |
| 2 | B-47 | S.L.Singh1 and Ashish Kumar2 | 2Deptt of Maths, Faculty of Science and Tech. ICFAI Univ., Dehradun, India | Fixed Points of Weakly Contractive Maps |
| 3 | B-48 | S. N. Mishra, Rajendra Pant and S. Stofile | Deptt of Maths, Visvesvaraya National Inst. of Tech, Nagpur, Maharashtra | Coincidence And Common Fixed Point Theorems In Normed Boolean Vector Spaces |
| 4 | B-49 | S. R. Chaudhari | Assistant Professor, Deptt of Maths, Shivaji University, Kolhapur, M.S. | On Some Properties of Rough Spaces of Rough Sets |
| 5 | B-50 | S. S. Dhure1 andS. R. Chaudhari2 | 1, 2Deptt of Maths, Shivaji University, Vidyanagar, Kolhapur, M.S., India;  | A Note on Homomorphisms of Strongly Connected Fuzzy Automata |
| 6 | E-16 | Geeta Dalal¹ and Sandeep Dalal² | ¹Assistant Professor, Pt.N.R.S.Govt. College, Rohtak, ²Assistant Professor, Deptt of Computer Science & Application, M.D.U., Rohtak;  | Cloud Computing |
| 7 | E-17 | Gopal Singh1, Yudhvir Singh2, Sandeep Dalal3 | 1Assistant Professor in Deptt of Comp.Sc. & App., M.D.U., Rohtak; 2Asso. Professor in Deptt of Computer Sc. & Engg., UIET, M.D.U., Rohtak; 3Assistant Professor in Deptt of Computer Sc. & Applications, M.D.U., Rohtak;  | Performance Comparison of Routing Protocols In Manets Using Ns-2 |
| 8 | E-18 | Harish Rohil 1andSeema Nandal2 | 1Assistant Professor, Deptt of Comp. Sc. & App. Chaudhary Devi Lal University, Sirsa; 2Research Scholar Mtech., Deptt of Comp. Sc. & App. Chaudhary DeviLal University, Sirsa | Impact of Varying Packet Size on Performance of AODV & DSR |
| 9 | E-19 | Jagmohan Gaur1& Pooja Mittal2 | 1M.Tech student, 2Assistant Professor, 1,2Deptt of Computer Sc. and Applications, M.D.U., Rohtak, Haryana, India.  | Security Issues And Architecture In Cluster Computing Reviewed |
| 10 | E-20 | Jagmohan Gaur1, Sajan Aggarwal2, Naveen Gehlawat3 and Sudhir Singh4 | 1,2,3,4Deptt of Comp. Sc. & App., M.D.U., Rohtak, Haryana, India. | Review of Security Issues In Utility Computing |
| 11 | E-21 | Joginder Singh1and Ashish Chaturvedi2 | 1Arni School of Computer Science, Arni University, HP.2Professor and Head, Arni School of Computer Science, Arni University, HP | Recall Ability Versus Security Trade off In Authentication Systems. |
| 12 | E-22 | Joginder Singh1, Inderjit Singh2 | Deptt of Computer Science,Baba Budha College(TarnTarn) | E- India, The Country Ahead |
| 13 | E-23 | Joginder Singh**1**and Sumeet Gill**2** | 1Arni School of Computer Sci. Arni University, H.P. 2Assistant Professor, Deptt of Maths, M.D.U., Rohtak, Haryana.  | An Image Based Authentication - A Critique |
| 14 | E-24 | Kamna Solanki1, Sandeep Dalal2, Ritu Manderna3, Sudhir4 | 1 Assistant Professor, UIET, M.D.U., Rohtak2 Assistant Professor, DCSA, M.D.U., Rohtak3 M.Tech Student, UIET, M.D.U., Rohtak4.M.Tech Student, Satpriya Institute of Engg. and Tech., Rohtak,  | A Comprehensive Study of Ethical Issues In Software Engineering |
| 15 | E-25 | Mamta Rani**1**  and Bharti Singh**2** | **1**Central University of Rajasthan, Kishangarh**2**NIMS University, Jaipur | IFS Fractals Via Two-Step Feedback System |
| 16 | E-26 | Manisha Redhu1 and Balkishan2 | 1. 1 M.Tech Student; 2Assistant Professor, Deptt of Comp. Sc. & App., M.D.U., Rohtak, Haryana, India
 | Survey of Artificial Immune System: Focusing On Existing Models |
| 17 | E-27 | Manu Pratap1 Singh and Rajesh Lavania2 | 1,Research Scholar, 1,2Deptt of Computer Science, IET, Dr. B. R. Ambedkar University, Khandari Campus, Agra | Classification of Hand Written Hindi Swars Using Hybrid Evolutionary Techniques |
| 18 | E-28 | Md. Zafar Imam1 and N. Ahmad2 | University Deptt of Statistics and Computer Applications, T. M. Bhagalpur University, Bhagalpur-812007, India.  | A Review And Current Issues In Software Reliability Analysis of Software Fault Detection And Fault Correction Process |
| 19 | E-29 | Naresh Kumari1andYudhvir Singh2 | 1Lecturer Computer Engg., Government Polytechnic, Sonipat Haryana;2Associate Professor, Deptt of Computer Engg., U.I.E.T., M.D.U., Rohtak Haryana;  | Improving Authentication in Bluetooth using Back Propagation Method of Artificial Neural Networks |
| 20 | E-30 | Nitika Suhag1, D. Chaudhary2 and Nasib Singh Gill3 | 1,2,3Deptt of Comp. Sc. & App., M. D. University, Rohtak.  | Security Aspects In Grid Computing Revisited |

Saturday, 24th November 2012

Technical Session – XI (Parallel session - I)

Time: 9.00 a.m. to 11.30 a.m. Venue: Department of Bio-Technology(Sem. Hall No. 119)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-51 | Simfumene Stofile | Lecturer, South Africa | Some Fixed and End Point Results For Weak Contractions |
| 2 | B-52  | Sanjay Kumar | Research Scholar, Deptt of Maths, M.D. University, Rohtak-124001, Haryana | Some Stability And Convergence Results Using Junck-Agarwal Et Al. Iteration Procedure |
| 3 | B-53 | Sanjay Kumar1and Asha Rani2 | 1Departement of Maths, DCRUST, Murthal, Sonepat-131039 , Haryana, India; 2Deptt of App. Sc., B. M. Institute of Engg. and Tech., Raipur, Sonepat, Haryana, India | Common Fixed Point Theorems For Occasionally Weakly Compatible Maps |
| 4 | B-54 | Satish Narwal | Research Scholar, Deptt of Maths, M.D. University, Rohtak-124001, Haryana;  | On Random Fixed Point Theorems And Iteration Procedures: A Survey |
| 5 | B-55 | Savita Rathee1 and Ritika2 | 1Assistance Professor, Deptt of Maths, M.D.U., Rohtak. 2Research Scholar, Deptt of Maths, M.D.U., Rohtak, Haryana,  | Convergence of Ishikawa iteration procedure in CAT(0) spaces |
| 6 | B-56 | Savita Rathee1,Anil Kumar2 and Reetu**3** | 1Assistance Professor, Deptt of Maths, M.D.U., Rohtak. 2,3Research Scholar, Deptt of Maths, M.D.U., Rohtak, Haryana.  | Common Fixed Points For (F, G :H) Type Maps In Cone Metric Spaces |
| 7 | B-57 | Seema Mehra | Deptt of Maths, M. D.U., Rohtak | Generalized Fuzzy Metric Spaces And Common Coupled Fixed Point Theorems of Contractive Mappings |
| 8 | B-58 | Shallu Sharma | Dept of Maths, University of Jammu, Jammu. | Numerical Ranges of Composite Multiplication Operators |
| 9 | B-59 | Shashank Goel | Deptt of Maths, ITS Engg. College, (M.T.University, Noida), Greater Noida, India; goel. | On Weighted Frames |
| 10 | B-60 | Sudhir Batra | Deptt of Maths, D.C.R.U.S.T., Murthal, Sonipat, Haryana.  | Generator Polynomials of A Class of Negacyclic Codes |
| 11 | D-46 | Rekha1, Upasana Sharma2 andGulshan Taneja3 | 1,2Deptt of Statistics, Punjabi University, Patiala; 3Deptt of Maths, M.D.U., Rohtak. | Availability Analysis of a Two Unit Standby Oil Delivering System With Two Types of Repair Facility When Priority is Given to Partially Failed Unit For Repair And Provision of Switching Over to Other System |
| 12 | D-47 | Roosel Jain1, Gulshan Taneja2 and P.K.Bhatia3 | **1**Dept of Applied Maths, D.C.R.U.S.T., Murthal, Haryana. **2**Dept of Maths, M.D.University, Rohtak, Haryana.3Dept of Applied Maths, D.C.R.U.S.T., Murthal, Haryana. | Mean Time To System Failure And Availability Analysis of An Automatic Power Controller Comprising Two Identical Units With Inspection |
| 13 | D-48 | S. Narayanamoorthy | Associate Professor,. Deptt of App. Maths, Bharathiar University, Coimbatore,Tamil Nadu, India | Use of 8x9 Fuzzy Matrix Techniques To Study The Problems Faced By Ricemill Workers In Tamilnadu |

Technical Session – XI (Parallel session - II)

Time: 9.00 a.m. to 11.30 a.m. Venue: Department of Bio-Technology(Sem. Hall No. 226)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | D-5 | Anil Taneja1 and Charu Bala2 | 1Deptt of Maths, JRE Group of Institutions, Greater Noida. 2Deptt of Maths, Amity University, Noida. | Reliability And Cost-Benefit Analysis of A System With Inspection And Second Opinion On Wrong Diagnosis On Failure |
| 2 | D-6 | Anita Taneja | Deptt of Maths, IEC College of Engg., Greater Noida.  | Stochastic Analysis of A Two-Unit Hot Standby System With Observable Failures And Expert Opinion On Reparability of Failed Unit |
| 3 | D-10 | Baljeet Singh Sindhu | Controller of Examinations, M.D. University, Rohtak,  | Reliability And Profit Analysis of A 2-Unit Warm Standby System With Two Types of Accident And Rest of Repairman |
| 4 | D-11 | Bhagwati Prasad1and Kuldip Katiyar2 | 1Professor, Deptt of Maths, Jaypee Institute of Information Tech. A-10, Sector-62, Noida 201307 | A Study of Logistic Model With Period Forcing |
| 5 | D-12 | Bhupender Parashar | Associate Professor, Deptt of App. Maths, JSS Academy of Tech. Education; Sector–62, Noida-201301 India.  | A Comparative [Study](http://f5mail.rediff.com/prism/readmail?file_name=1350204667.S.8918.24818.H.Tkd1bHNoYW4gVGFuZWphAFJlOiBGdzogQWJzdHJhY3Qgb2YgcmVzZWFyY2ggcGFwZXI_.RU.rfs256,rfs256,106,957.f5-147-214&folder=Inbox&SrtFld=2&SrtOrd=1&startcount=0&msgcount=20&lastmail=0&index=1&mailcount=-1&mlht=1&els=c3050c125bb846da959e3ec657a2dd4f##) of Profit Analysis of Two Reliability Models On A 2-Unit PLC System |
| 6 | D-13 | C.B. Gupta1,Sachin Kumar2And R.B.Singh3 | 1,2Deptt of Maths, BITS Pilani, Pilani Campus, 3Deptt of Statistics, D.N. (P.G.) College, Meerut  | Impact of Family Planning Program |
| 7 | D-14 | Charu Bala1, Anil Taneja2 and Hari Arora3 | **1**Dept of Maths, Amity University, Noida. **2**Dept of Maths, JRE Group of Institutions, Greater Noida, **3**Dept of Maths, Amity University, Noida. | A Reliability Model For A System With Wrong Diagnosis On Failure And Two Types of Repairman |
| 8 | D-15 | Dalip Singh1and Gulshan Taneja2 | 1,2Associate Professor, Deptt of Maths, M.D. University, Rohtak | Reliability And Economic Analysis of A Gas Turbine Two-Unit System Generating Different Megawatts of Power |
| 9 | D-49 | S. R. Singh1, Swati2 | 1,2Deptt of Maths, D.N. College, Meerut | An Inventory Model for Deteriorating Items with Stock and Time-Dependent Consumption Rate under Partial Backlogging Shortages |
| 10 | D-50 | S.S. Mor1 and Rajeev Kumar2 | 1Deptt of Maths, Government P.G. College, Jind Haryana; 2Deptt of Maths, M.D.U., Rohtak, Haryana. | Mean Installation Time And Reliability Analysis of A Three-Stages Operational System Under Warranty With Inspection And Two Types of Service Facility |
| 11 | D-51 | Sahil Ahuja1, Neeraj Kaushik2 and Sandeep Panghal3 | 1TITS, Bhiwani | A New Approach For Solving An Assignment Technique Using C |
| 12 | D-52 | Sanjeev Kumar1and Ashok Kumar2 | 1Panipat Institute of Engg. and Tech.,Samalkha, 2Deptt of Statistics, M.D.U., Rohtak, Haryana. | Analysis And Comparision of Two Unit Parallel System With And Without Correlated Life Times |
| 13 | D-63 | Upasana Sharma 1 and J. Kaur2 | 1Deptt of Statistics, Punjabi University, Patiala (Punjab)  | Probabilistic Analysis of A Compressor Unit Covering All Types of Failure Possibilities |

Technical Session – XI (Parallel session - III)

Time: 9.00 a.m. to 11.30 a.m. Venue: Department of Bio-Technology(Sem. Hall No. 327)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | B-28 | Kulvir Singh1and S. K. Arora2 | 1Deptt of Maths, Ch. Bansilal Govt. College, Loharu (Bhiwani)- India; 2Deptt of Maths, M.D.U., Rohtak. | Minimal Cyclic Codes of Length  |
| 2 | B-32 | Meenakshi |  Assistant Professor Sh. L.N. Hindu College, Rohtak | Existence of Fixed Points for Weakly compatiable maps in fuzzy metric spaces |
| 3 | B-33 | O. Ratnabala Devi | Deptt of Maths, Manipur University, Canchipur, Imphal | On (,V Q)-Fuzzy Essential Ideal of Near-Ring |
| 4 | B-34 | O. Ratnabala Devi1 and Th. Rojita Chanu2 | 2Deptt of Maths, Manipur University | Explicit Factorizations of Cyclotomic Polynomials Over Finite Fields |
| 5 | B-35 | R. P. Pant | Deptt. of Mathematics, Kumaun University, Nainital-263002, India,  | The problem of continuity of contractive maps at fixed points |
| 6 | B-36 | RajKamal1,S.L. Singh and Renu Chugh | 1Govt. P. G. College, Mahendergarh123029 | Fixed Point Theorems of Meir-Keeler Type Contractions |
| 7 | B-37 | Rajesh Kumar Narula1 and Bharat Bansal2 | 1Deptt of App. Sc., Punjab Institute of Tech., Mansa, India.2Deptt of Electronics and Communication, MIMIT, Malout,India.  | Soft Decision Decoding By Concatenated Codes |
| 8 | B-38 | Ramesh Kumar Vats and Amit Kumar | Deptt of Maths, National Institute of Tech., Hamirpur, India.  | Common Fixed Point For Multi-Valued Mappings In Fuzzy Metric Spaces |
| 9 | B-39 | Ramesh Kumar Vats and Vizender Sihag | NIT, Hamirpur  | V-Fuzzy Metric Space And Fixed Point Theorem Via Α-Series Contraction |
| 10 | B-40 | Ramesh Kumar Vats1, Manju Grewal2  and Indu Bala3 | 1National Institute of Tech., Hamirpur (H.P.).2R.N. Engg.and Management College, Rohtak, Haryana.  | A Tripled Coincidence Point Theorem In Partially Ordered Metric Spaces For Commutative Mappings |

Technical Session – XI (Parallel session - IV)

Time: 9.00 a.m. to 11.30 a.m. Venue: Department of Bio-Technology(Computer Centre)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | C-31 | Rajneesh Kumar1, Divya2 , Kuldeep Kumar3 | 1Deptt of Maths, Kurukshetra University, Kurukshetra, Haryana, India.2Deptt of Maths, N.I.T., Kurukshetra, Haryana, India. 3 Deptt of Maths, N.I.T., Kurukshetra, Haryana, India. | Analysis of wave motion in Swelling Porous Thermoelastic Medium |
| 2 | C-32 | Ram Chander Verma1 and Sunita Rani2 | 1Deptt of Maths, Guru Jambheshwar University of Science and Tech., Hisar-125 001, India | Static Deformation of A Uniform Half-Space Due To Non-Uniform Slip Along A Long Vertical Tensile Fault |
| 3 | C-33 | Ramprakash Sharma and Abhay kumar Jha  | Deptt. of Mathematics, JECRC University, Jaipur,  | Unsteady mixed convective MHD heat and mass transfer flow with induced magnetic field and heat generation effect |
| 4 | C-34 | Rashid Ali**1**,Monika Gupta**2**,M.P.Singh**3** andV.K.Katiyar**4** | 1Deptt of Maths, Vishveshwarya Institute of Engg. & Tech., P.O-Dadri’G.B. Nagar-203207,U.P, India; 2Deptt of Maths, Gurukul Kangari University, Haridwar, India; 3Deptt of Maths, Indian Institute of Tech., Roorkee, India | Analytical Study For Blood Cells Flow In Capillaries With Stenosis |
| 5 | C-35 | Ritu Sindhu1, J. S. Nandal2 and Baljeet Singh3 | 1,2Deptt of Maths, M.D. University, Rohtak-124001, Haryana; 3Deptt of Maths, Post Graduate Government College, Sector 11, Chandigarh.  | Rayleigh Wave In A Micropolar Thermo-Elastic Medium Without Energy Dissipation |
| 6 | C-36 | S. N. GaikwadAnd IrfanaBegum | Professor, Deptt of Maths, Gulbarga University, Jnana ganga Campus, Gulbarga. | The Onset of Double Convection In A Fluid Saturated Anisotropic Porous Layer |
| 7 | C-37 | S. Narayanamoorthy and K. Murugan | Deptt of Applied Maths, Bharathiar University, Coimbatore, India | Application of Variational Iteration Method To Fuzzy Heat-Like Equations |
| 8 | C-38 | S. Narayanamoorthy1 and T. L.Yookesh2 | Deptt of Applied Maths, Bharathiar University, Coimbatore, India;  | Solving Fuzzy Differential Equation Using Third Order Runge–Kutta Method |
| 9 | C-39 | S. Pathania1, P. K. Sharma2 and J. N. Sharma3 | 1,2,3Deptt of Maths, National Institute of Tech., Hamirpur (H.P.) . | Natural Frequencies And Modes of Circular Plate With Eccentric Hole Submerged In Fluid |
| 10 | C-40 | Sandeep Kumari1 and Inder Singh Gupta2 | 1ResearchScholar , J.J.T. University, Jhunjhunu, Rajasthan, India;Sandeep\_kumari2000@yahoo.com2Deptt of Maths, J.V.M.G.R.R(P.G) College, Charkhi Dadri, Haryana, India;  | Effect of Rotation, Magnetic Field And Gravity On Rayleigh Waves In Pre-Stressed Homogeneous Orthotropic Elastic Half-Space |
| 11 | C-41 | Sandeep Singh Sheoran1, SunitaDeswal2 and Kapil Kumar Kalkal3 | 1Research Scholar, Deptt of Maths, GJUS&T, Hisar. | Effect of Magnetic Field And Initial Stress On Fractional Order Generalized Thermoelastic Half-Space |
| 12 | C-42 | Sanjeev Kumar1 and Shikha Saxena2 | 1Deptt of Maths, Dr. B. R. Ambedkar University, Agra,Institute of Basic Science, Khandari, Agra-282002, India. 2Institute of Information Tech. and Management, Gurgaon, India.  | A Mathematical Model for the Pulsatile Flow of Blood Through A Stenosed Artery |
| 13 | C-43 | Savita Kumari and Rakesh Kumar | Research Associate, State Council of Education Research & Training, Gurgaon, Haryana;  | Shaping Fuzzy Logic As Mathematics |
| 14 |  C-44 | Sunil1 and Shalu Chodhary**2** | 1Professor ,sunilnitham@gmail.com; 2Research Scholar, choudhary.shalu40@gmail.com1,2Deptt of Maths, National Inst. of Tech., Hamirpur, H.P., India. | A Nonlinear Stability For Thermal Convection In A Couple-Stress Fluid With Temperature and Pressure Dependent Viscosity |

Technical Session – XI (Parallel session - V)

Time: 9.00 a.m. to 11.30 a.m. Venue: Department of Mathematics(Seminar Hall)

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| **Sr. No.** | **Code No.** | **Name** | **Designation- Affiliation-Email** | **Title of Paper** |
| 1 | C-01 | A. K.Gupta**1** andPragati Sharma2 | **1**Assistant Professor, Deptt of Maths, HCTM, Kaithal, Haryana. **2**Deptt of Maths, M.S.College, Saharanpur, U.P.  | An Analysis On The Frequencies of Non Homogeneous Trapezoidal Plate of Variable Thickness And Density |
| 2 | C-02 | Baljeet Singh1,Sangeeta Kumari2 and J.S. Nandal3 | 2PG Govt. College, Sec-11,Chandigarh. 1Deptt. of Maths, M. D.U., Rohtak, Haryana.  | Propagation of Rayleigh Wave In A RotatingGeneralized Magneto-Thermoelastic Medium With Hydtrostatic Initial Stress |
| 3 | C-03 | Bharati S. Biradar1 and S.N. Gaikwad2 | 1,2Deptt of Maths, Gulbarga University, Jnana Ganga Campus, Gulbarga, India;  | The onset of double diffusive convection in a Maxwell fluid saturated porous layer |
| 4 | C-04 | C. Sulochana, Premila Kolluand G. Sudhaamsh Mohan Reddy | Deptt of Maths, Gulbarga University, Jnana Ganga Campus, Gulbarga, India.FST, IFHE, Shankerpalli Road, Hyderabad - 501203 (A.P). India | Linear stability analysis in a double diffusive convection in a couple stress fluid saturated rotating anisotropic porous layer |
| 5 | C-05 | C. Sulochana, Sharanamma V. A. | Deptt of Maths, Gulbarga University, Jnana Ganga Campus, Gulbarga 585 106, India. | Finite Element Analysis of Non Linear Density -Temperature Variation On Non-Darcy Convective Heat Transfer Flow In A Vertical Channel |
| 6 | C-06 | D.T. Solanke1and N. A. Patil2 | 1Sudhakar Naik and Umashankar Khetan College Akola, Maharashtra State, India; 2Shri Sant Gajanan Maharaj College of Engg. Shegaon Buldhana, Maharashtra State, India.  | Quasi-Static Thermal Stresses of Thick Circular Plate In Steady State Condition Thermal Stresses of Thick Circular Plate In Steady State Condition |
| 7 | C-07 | Dilbaj Singh1 andSanjay Kumar Srivastava2 | 1Deptt of Maths, Lovely Professional University, Punjab, India. dilbaj.singh@lpu.co.in2Beant College of Engg. and Tech., Gurdaspur, Punjab, India | Strict Practical Stability Criteria of Impulsive Delay Differential Equations. |
| 8 | C-08 | Ekaratna Acharya | Nepal | Product of Successive Half Turns and Its Applications |
| 9 | C-09 | Ekta Ghai | Assistant Professor in Maths, Ganga Institute of Tech. And Management, Kablana, Jhajjar;  | Failure Mode Analysis of Defibrilator |
| 10 | C-10 | Ikvinderpal Singh | PG Deptt of Computer Science, Trai Shatabdi GGS Khalsa College, Amritsar, Punjab | Diagnosis of Heart Disease Using Genetic Algorithm And Fuzzy Expert System |
| 11 | E-41 | Seema Sangwan | Lecturer , Deptt of Comp. Sc. & App.,Pt. N.R.S. Govt. College, Rohtak India | Multi Agent Based Distributed Data Mining |
| 12 | E-42 | Sophia Dhankhar1, Gopal Singh2 | 1,2Deptt of Computer Sc. Applications, M.D.U., Rohtak: 1M. Tech(CS) student , 2Assistant Professor,  | Comparison of Performance Between Dsr And Tora Routing Protocols In Manets Using Ns-2 |
| 13 | E-43 | Sumedha Sood and Payal Maggo  | Deptt of Comp. Sc. & App.,M.D.U., Rohtak, Haryana, India  | Reviewing Genetic algorithms for better performance |
| 14 | E-44 | Sumita Sihag1, Gopal Singh2, Preeti Gulia3 and Deepika Balhara4 | 1Deptt of Comp. Sc. & App., M.D.U., Rohtak; 2Assistant Professor in Deptt of Comp. Sc. & App., M.D.U., Rohtak;3Assistant Professor in Deptt of Comp. Sc. & Engg., UIET, M.D.U., Rohtak; 4M.tech(CS) Student in Deptt of Comp. Sc. App., M.D.U., Rohtak. | Performance Analysis Of Dsr Routing Protocol In Manets Using Ns-2 |
| 15 | E-45 | Surbhi Sangwan1 and Rajender Singh Chhillar2 | 1Pre Ph.D Student ; 2Head, Deptt of Comp. Sc. & App., M.D.U., Rohtak, Haryana, India | An Agent-Based Resource Management For Grid Computing |
| 16 | E-46 | Syed Faizul Islam and N. Ahmad |  University Deptt of Statistics and Computer Applications, T. M. Bhagalpur University, Bhagalpur-812007, India | A Comparative Study of Non-Homogeneous Poisson Process Software Reliability Growth Models With Testing-Efforts And Change Point |
| 17 | E-47 | Vimmi Makkar1 , Sandeep Dalal2, Ankita Mann3 and Kamna4 | 1,2,3 DCSA, M.D.U., Rohtak. 4 UIET, M.D.U., Rohtak.  | Software Testing Two T’s Paradigm And Importance |