

January 04, 2020

| 02:00-06:00 PM | | |
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| SECTION | : | Mathematical Sciences, (Including Statistics) |
| Sectional President | : | Prof. Shriram K. Nimbhorkar, Formerly of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004 |
| Sectional Secretary | : | Prof. K. N. Krishnamurthy, Department of Agriculture Statistics, Applied Mathematics and Computer Science, University of Agriculture Sciences, GKVK Bangalore |
| Sectional Recorder | : | Prof. Anil Kumar Vashisth, Kurukshetra University, Kurukshetra |
| SECTIONAL COMMITTEE MEETING | | |
| Venue | : | Cluster II-College of Agriculture, South Block:Hall 18 |
| Presidential Address | : | Shriram K. Nimbhorkar, Ex-Professor, Department of Mathematics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004 <i>Extending elements and their generalizations in certain modular lattices</i> |
| Platinum Jubilee Lecture | : | Vinayak V. Joshi, Professor, Department of Mathematics, Savitribai Phule Pune University, Pune 411007 <i>On zero-divisor graphs of ordered sets and applications to graphs associated with rings</i> |
| Invited Lectures | : | 1) Shakir Ali, AMU Aligarh <i>Characterizations of additive mappings in associative rings</i> |
| | | 2) Rashmi Bhardwaj, Guru Gobind Singh Indraprastha University, Delhi <i>Chaotic simulation of ferric oxide (Fe_3O_4) nanoparticles</i> |
| | | 3) Mrs. Shraddha Ingale New Arts Commerce and Science College, Ahmadnagar Title: Data science and fuzzy logic |
| Presentation by USIEF | | Information session on Fulbright-Nehru and other Fulbright fellowship opportunities |
| SECTIONAL COMMITTEE ELECTION | | |

January 05, 2020

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| 02:00 – 06:00 PM | |
| Venue | : Cluster II-College of Agriculture, South Block: Hall -18 |
| Symposium- Recent trends in Discrete Mathematics | |
| Symposium | : 1) B. N. Waphare, Savitribai Phule Pune University, Pune- 411007 <i>Hypercube Structures and Applications.</i> |
| | : 2) V. S. Kharat Savitribai Phule Pune University, Pune- 411007 <i>Deletable elements and forbidden configurations in lattices</i> |
| | : 3) M. M. Pawar, S. S. V. P. S's. L. K. Dr. P. R. Ghogrey Science College, Dhule <i>Adjunct operation of posets, colouring and enumeration</i> |
| | : 4) Meenakshi Wasadikar, Ex-Professor of Mathematics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004 <i>Generalizations of prime ideals in commutative rings</i> |
| | : 5) Aparna Lakshmanan, St. Xevir College for Women, Aluva, Kerala Title: To be announced |
| Invited Lectures | |
| Invited Lectures | : 1) Robert Hakl, Institute of Mathematics, Academy of Sciences of the Czech Republic, Brno, Czech Republic <i>Existence, uniqueness and multiplicity of periodic solutions to the differential equations with singularities</i> |
| | : 2) Nandulal Bairagi Jadavpur University, Kolkata <i>Infection spreading and recovery in a square lattice with various initial spatial distributions of infected patches</i> |
| | : 3) Shishir Gupta, IIT (ISM), Dhanbad <i>Numerical methods, construction and application of Lozenge diagram for interpolation</i> |

: **4) Anil K. Vashisth**
Kurukshetra University, Kurukshetra

Mathematical model for static deformation of earth's crust caused by seismic and heat sources

CONCURRENT POSTER SESSION –I (1 to 24)

January 06, 2020

| 02:00 – 06.00 PM | | |
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| Venue | : | Cluster II-College of Agriculture, South Block: Hall -18 |
| Invited Lectures | : | <p>1) M. Xavier James Raj. Head, Orbital Analytic Section (Rtd.), Vikram Sarabhai Space Centre, ISRO Thiruvananthapuram</p> <p><i>Effectiveness of ks elements in orbit prediction using earth's gravity, drag and solar radiation pressure</i></p> |
| | : | <p>2) Mrs.Veena Sharma, Himachal Pradesh University, Shimala</p> <p><i>Role of rheology on thermal convection inferrofluids</i></p> |
| | : | <p>3) Mrs. Sarita H. Thakar Shivaji University, Kolhapur</p> <p><i>Mathematical analysis of motion of artificial satellites</i></p> |
| | : | <p>4) K. N. Krishnamurthy, University of Agriculture Sciences, GKVK, Bangalore</p> <p><i>Algebraic and geometric bases of principal components- An overview</i></p> |
| Oral Presentations | | |
| Oral Presentations | : | <p>1) Yogita S. Patil Dr. Babasaheb Ambedkar Marathwada University, Aurangabad</p> <p><i>On semi-essential and weak essential ideals of a lattice</i></p> |
| | : | <p>2) Vidya S. Deshmukh Dr. Babasaheb Ambedkar Marathwada University, Aurangabad</p> <p><i>Realizability of some graphs as the essential element graph of a lattice</i></p> |
| | : | <p>3) Megha goyal, I. K. Gujral Punjab Technical University, Jalandhar Main Campus, Kapurthala</p> <p><i>Frobenius partitions and tenth order mock theta functions</i></p> |
| | : | <p>4) K. Somaiah Kakatiya University, Warangal.</p> <p><i>Inhomogeneous and attenuation waves in a rotating micropolar elastic solid</i></p> |
| | : | <p>5) Basavarajaiah D. M. and Narasimhamurthy B. Karnataka Veterinary Animal and Fisheries Sciences University, Bidar.</p> <p><i>Risk assessment of real time stroke data by Bayesian emulator approach</i></p> |

Concurrent Poster Session –II (25 to 48)

January 07 2020

02:00-06:00 PM

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| Venue | : | Cluster II-College of Agriculture, South Block: Hall -18 |
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| Oral Presentations | : | |
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General Discussion and Recommendations