

## Table of Content

Chief Patron	viii
Acknowledgements	x
About Editors	xi
List of Contributors	xii
Author's Index	xv

### Session-I: Allied Sciences, Environment, Engineering, Innovations in ICT

1. Chemical pollution and effects: case studies .....	1
Chhavi Purwar .....	1
2. Photo catalytic water splitting using semiconductors.....	9
Vivek Dwivedi.....	9
3. Filtering air pollution using roosegaarde towers: a propoition for Lucknow (U. P.) .....	23
Maaz Allah Khan .....	23
4. A kinetic study of phosphotungstic acid catalyzed oxidation of cyclopentanol by nbs ....	29
Om Kumari, Archana Pandey <sup>1*</sup> , Braj Mohan .....	29
5. Antiwear and extreme pressure additives in base oil .....	37
Dr. Jiya Lal Maurya .....	37
6. Purification and characterization of -I- rhamnosidase from <i>Fusariummoniliforme</i> MTCC-2088 .....	42
SaritaYadav .....	42
7. ICT and digital technologies: A roadmap for smart farming .....	55
Dr. Sanjeev verma .....	55
8. Study the extent of adoption of weather forecasting information as disseminated by RPCAU towards the farmers .....	61
Shweta Kumari <sup>1</sup> , Satya Prakash <sup>2</sup> & A. K. Paswan <sup>3</sup> .....	61
9. Need of advance technology for marketing of rural industry .....	66
Dr. Mridulesh Singh .....	66
10. Intelligent data analysis for medical diagnosis using machine learning algorithm.....	71
Kannan S <sup>1*</sup> , Senthil Kannan.K <sup>2</sup> , Chinnadurai M <sup>3</sup> ,Thamaraikannan P <sup>1</sup> , Sairam Shalini R. <sup>1</sup> and Kalaipoonguzhali V <sup>4</sup> .....	71
11. Simulations of minerals by using of dft based on atomic orbitals for linear scaling .....	78
Sanjeev Trivedi & Rahul Tripathi .....	78
12. Effect of global warming on forest and biodiversity .....	85
Shweta Chand & Joseph Daniel .....	85

13. A hyperspace and its separation axioms .....	89
Yogesh Sharma .....	89
14. Vacation and polling markovian queueing system with discouragement and bernoulli feedback .....	93
Dr. Raj Kamal Gupta .....	93
15. Impact and management of e-waste .....	106
Dr. Shilpy Shakya .....	106

**Session-II: Textile, Fashion, Leather, Retail, Yoga, Social Sciences & Management**

16. A focus group study on entrepreneurial activity in rural india .....	111
Arti Lata and Abhishek Ranjan Singh* .....	111
17. Tie and dye with acrylic colours .....	119
Krishi Sarin <sup>1</sup> , Anjali Agarwal <sup>2</sup> & Ruchi Kholiya <sup>3*</sup> .....	119
18. Effect of meal skipping on nutritional status of college students of prayagraj .....	123
Sweta Kumari <sup>1</sup> , Ranu Prasad <sup>2</sup> and Anisha Verma <sup>3</sup> .....	123
19. Uttar pradesh and sustainable development goals: a long way to go .....	131
Dr. Arvind Kumar Singh & Dr. Reshma Umair .....	131
20. A project study on generating & utilization of energy from footwears.....	141
Rajesh Parashar <sup>1</sup> , Dharmmeet Singh <sup>2</sup> .....	141
21. Design intervention & innovation in traditional handicrafts.....	153
Rajesh Sharma .....	153
22. Women empowerment for eradicating poverty with apparel industry: in the references of uttar pradesh state .....	161
Dr. Arpita Chaturvedi .....	161
23. Development of arch supported polyurethane open cell foam for women insock .....	166
Manoj Kumar Roy <sup>1</sup> and Pradeep Kumar Shukla <sup>2</sup> .....	166
24. Rambans-rayon blended fabric: a sustainable solution.....	174
Dr. Ruchi Kholiya <sup>1</sup> , Dr. Alka Goel <sup>2</sup> & Ms. Krishi Sareen <sup>3</sup> .....	174
25. A study for e-waste management through sustainable design .....	181
Satyadeep Chatterjee .....	181
26. Speacialized shoes for drivers: foresights for technology .....	209
Varun Gupta & Ashish Chandra .....	209
27 A study on the factors responsible for high female employee turnover in organized retail	222
Nivedita Paliwal & Mohd Siraj .....	222

28. Money and monetary activities in ancient india in 600 B.C. as depicted in early buddhist texts.....	227
Himansu Gangwar .....	227
29. Strengthening market support system for rural india-a conceptual study .....	236
Dr. AvinashBajpai, Mohd. Siraj & ArunKumar Gaikwad .....	236
30. Why integrate bricks and mortar stores with electronic commerce: an exploratory study.....	242
Davender Kothari* , Aastha Garg .....	242
31. Effective line balancing technique to improve productivity in footwear industry .....	250
Pradeep Kumar Shukla .....	250