

# **Advance Research in Technology, Management, Social Science, Sustainable Development & Humanities**

Research papers read during First International Conference on “Advance Research in Technology, Management, Social Science, Sustainable Development & Humanities” jointly organized by DAV Institute of Management, Faridabad (Affiliated to MDU, Rohtak, Haryana) and Centre for Training & Development, (CTD India, Delhi) during 12-13 May 2023.

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## **Editors**

Prof. Uma S. Singh  
Prof. Sanjay Singh Baghel



DAV INSTITUTE OF MANAGEMENT, FARIDABAD, HARYANA  
&  
CENTRE FOR TRAINING & DEVELOPMENT, (CTD INDIA),  
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“Alone we can do so little; together we can do so much”. Helen Keller.’

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We express our sincere gratitude to all our esteemed dignitaries.



## Preface

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The need to inculcate a multidisciplinary approach in education has been felt for quite some time now. It fosters an understanding of the interconnectedness of various fields for better problem-solving, Encouraging creative thinking, critical analysis, collaboration, and communication skills. The theme of this conference revolves around bringing technology, management, humanities, and social science research areas synchronically on an indivisible platform. The main intention of this conference is to integrate interdisciplinary inquiry to deliver the best learning and knowledge enhancement. The National Education Policy (NEP) 2020 also aims at bringing about a multidisciplinary approach in aiming to revolutionize the education system of our country.

The conference proceeding is the collection of research papers presented during the two-day conference on Advance Research in Technology, Management, Social Science, Sustainable Development & Humanities during May 12- 13, 2023 in online mode. The efforts are made to understand the emerging advancement and trends in the multi disciplinary areas.

More than 130 papers were received and presented during the conference; The Papers were objectively evaluated and assessed by the conference conveners with the conference themes.

The research papers were presented during the two-day conference in 6 presentation tracks comprising of:

Session I: Information Technology

Session II: Humanities and Social Science

Session III: Humanities and Social Science

Session IV: HRM and Organizational Behavior

Session V: Financial Management

Session VI: Marketing Management

We hope that you will find this book an impressive and interesting reading. The variety of papers presented; we believe are the true assets of this book. This book should give the reader a comprehensive view of the multiple disciplines.





# Contents

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<i>Acknowledgement</i>	(v)
<i>Preface</i>	(vii)

**Session-I**  
**Information Technology**  
*Session Chairperson: Prof. Urvesh Chaudhery*  
(GIBS, New Delhi)  
*Co-Chair: Dr. Sarita Kaushik*  
(HOD, MCA, DAV Institute of Management, Faridabad)

- 1. Uncovering the Pros and Cons of Work from Home: A Study on IT Professionals in the Post-Pandemic Era** 3-11  
*Dr. Jagdeep Singla & Ridhima Goel*
- 2. Brain Computer Interfaces in Healthcare** 12-24  
*Bhagvender Singh, Devansh, Ramandeep Suthar & Dr. Kavita Arora*
- 3. Integration of ICT in Teacher Education** 25-31  
*Mr. Mohan Gaur*
- 4. The Impact of Digital India on Society** 32-42  
*Dr. Banita & Ms. Vandana Rastogi*
- 5. Exploring the Impact of Artificial Intelligence on Labour Market Dynamics: An Analysis of the Effects of Automation and Augmentation on Employment, Wages, and Inequality** 43-52  
*Dr. Padmakar Pulavarthi*
- 6. Optimized Edge and fog Computing in Mobile Adhoc Networks** 53-60  
*Vaishali Sehrawat & Dr. Banita*
- 7. Innovations in Water Management: The Role of Cybersecurity in Achieving Sustainable Development Goals - A Review** 61-76  
*Reena Yadav & Dr. Priti Sharma*

(x)

8. **Solid Waste Management (SWM) – Usage of Information Communication Technologies (ICT), and Internet of Things (IoT)** 77-81  
*Ajay Kumar Pareek & Hridyansh Pareek*
9. **Blockchain Integrated with IOT Devices in Various Applications** 82-87  
*Preeti & Dr. Banita*
10. **Chatbots: A Conversational Evolution** 88-93  
*Shivoam Maini*
11. **Detection of Copy-Move Forgery in Digital Images Using Deep Learning (DL) Techniques** 94-111  
*Navid Ahmad Dar*
12. **Development and Synthesis Technique to Fabricate Graphene for Schottky Diode** 112-115  
*Neeraj, Deepti Singh & Meenakshi*
13. **Cloud Kitchen: An Insight into New Taste of India** 116-129  
*Dr. Nidhi Sheoran*
14. **Advanced Research in Computer Technology and Software Application** 130-138  
*Dr. Parveen Rani*
15. **A Study of New Entrepreneurship Models in Digital Era Through Bibliometric Visualizing from 2010 to 2023** 139-149  
*Sanjna*

## Session-II

### Humanities and Social Science

*Session Chairperson: Prof. Ajay Pratap Singh*  
(Professor & Head, Department of Psychology,  
VBS Purvanchal University, Jaunpur)

16. **Women Leadership and Participation in Rural Area: Comparative Study of Tamil Nadu and Uttarparadesh** 153-162  
*Dr. Vandana Singh & Dr. Shalini Saxena*
17. **Role of Shgs in Development of Women Entrepreneurship for Streghthening Aatma Nirbhar Bharat in Assam** 163-176  
*Mrs. Neha Yadav & Dr. Rajpol Bharadwaj*

18. **Depicting Asia: Tracing Discursiveness in the Tainted** 177-182  
*Ms. Manisha*
19. **Consumer Awareness Towards Solar Water Pumping System:  
An Empirical Analysis** 183-189  
*Pooja Rani & Dr. Garima Dalal*
20. **Males and Domestic Violence: In Indian Scenario** 190-198  
*Geeta Sharma*
21. **Legal and Institutional Mechanism for Prevention of Gender Biases at  
Work Place** 199-207  
*Sawitri Devi*
22. **India's Journey Towards Sustainable Development** 208-219  
*Rajapurohitham Sadhana & Aditya Vedula*
23. **Impact of Government Initiative in the Field of Sustainable  
Development** 220-227  
*Mr. Rohit Sinha & Mr. Suraj Sharma*
24. **Ancient India & Democracy** 228-234  
*Dr. Yogwati Pareek, Dr. Anita Yadav & Manoj Kumar*
25. **How SDG3-Good Health and Well-Being is Faring with Respect to  
Women Nutritional Program: A Case Study of Pradhan Mantri Matru  
Vandana Yojana** 235-244  
*Dr. Ritu Jain, Dr. Rashmi Singe, Mr. Krishan Kumar & Ms. Shreya Sharma*
26. **Sustainable Development and its Goals in India** 245-254  
*Stuti Gupta, Dr. Utpala Das, & Vridhi Jain, Bhumika, Kashmira  
& Naman Dua*
27. **Role of Organic Products in Sustainable Consumption** 255-260  
*Ms. Nirmala & Dr. Suman Pahal*
28. **Techno-Pedagogical Competency of Senior Secondary School  
Teachers** 261-274  
*Saket Bihari*
29. **A Study on the Impact of Population Growth on the Sustainable  
Livelihood of People in the 21st Century Society** 275-285  
*Fr. Baiju Thomas*
30. **Corporate Social Responsibility and Sustainability in the Higher  
Education Sector: A Systematic Literature Review and Future  
Outlook** 286-297  
*Pravash Ghosh*

31. **Worldwide Growth of SDGs with Reference to Quality Education** 298-311  
*Kapil Bhuker, Dr. Vanita Rose, Shilpi Sindhu, Dr. Savita & Pardeep Malik*
32. **A Theoretical Study on the Contribution of Mathematics to a Sustainable World** 312-318  
*Ms. Kiran Kalia, Dr. Kiran Gupta & Dr. (Prof.) Bishan Singh Nagi*
33. **Reforms in Education System in India through New National Education Policy-2020** 319-324  
*Sarika & Niharika*

**Session-III**

**Humanities and Social Science**

*Session Chairperson: Prof. Ulfat Muhibova,*

**Professor,** Tashkent State University of Oriental Studies South Asian Languages Department, Uzbekistan

*Co-Chair: Prof. Parul Jhajharia*  
Dean Management, MRIU, Faridabad

34. **Defender and Demolisher: Toni Morrison's Sula as a Modern Black Lady** 327-331  
*Dr. Abigail & M. Rakesh Babu*
35. **A Lacunae: Paucity of Menstrual Knowledge and Practices Among Homeless Adolescents** 332-345  
*Amreen Farooq & Dr. Rama Srivastava*
36. **A Study on Public Perception and Preferences Towards Urban Street Trees in Bengaluru, Karnataka** 346-353  
*Tincy Thankachan & Dr. Mahesh E*
37. **Stress Diagnosis among Academic Fraternity using Swarm Intelligence Techniques** 354-366  
*Ritu Gautam & Manik Sharma*
38. **The European Crisis: An Exhaustive Analysis** 367-373  
*Ms. Vasundhra*
39. **The Evolution of Communist Party of China Since Mao Zedong's Era: Changing Contours of China's India Policy** 374-383  
*Dhiraj Vij & Dr. Jyotika Teckchandani & Prof. Javed Ahmad Khan*

40. **Non-Disabled SIBLING'S Roles and Perceived Differences Towards Siblings with Disability** 384-391  
*Dr. S. Madhusudanan*
41. **Effect of 12 Weeks Aqua Aerobic Training on Flexibility Among Middle Age Women of Manipur** 392-398  
*Bichitra Singha & Prof. T. Inaobi Singh*
42. **Role of Toys in Improvement of Learning of Children** 399-408  
*Ms. Pooja Rani, Dr. Ashish Kumar & Dr. Pushpdeep Dagar*
43. **Transformation of An Unsung Heroine of the Ramayana: A Study of Kavita Kané's Sita's Sister** 409-417  
*Shivani*
44. **Childhood Adversities and Work Disability** 418-428  
*Deepa K Damodaran*
45. **Issues and Challenges of Migrant Workers in COVID-19** 429-435  
*Ms. Meenakshi & Dr. Ashima Tandon*
46. **Influence of Plastic Toys and Plastic on Children's Health and the Environment in India** 436-446  
*Ms. Jyoti*
47. **Males and Domestic Violence: In Indian Scenario** 447-455  
*Ms. Geeta Sharma*
48. **Tracing Asian Identities in Maeve Galvin's *The Saviours*** 456-462  
*Dr. Deepak Yadav*
49. **Temporal and Trans-temporal Knowledge: The Essence of Education** 463-470  
*Dr. Santosh Bahadur Singh & Dr. Varsha Singh*
50. **The Contribution of Indian Authors to English Literature** 471-475  
*Ms. Anjali Dalal*
51. **Advanced Technology and its Repercussions on English Literature & Teaching** 476-480  
*Dr. Bharatender Sheoran & Dr. Naveen*

**Session-IV**

**HRM and Organisational Behaviour**

Chair: Prof. Divya Malhan, IMSAR, MDU Rohtak

Co-Chair: Dr. Ritu Gandhi Arora

(Vice Principal, DAV Institute of Management, Faridabad)

- 52. Impact of Human Resource Management on Business Performance** 483-489  
*Ms. Rakhi*
- 53. Human Resource Practices Leading to Employee Expectations and Psychological Contract** 490-497  
*Ms. Shachie & Dr. Sapna*
- 54. Tri-Gunas and Leadership Style in Leaders from the Information Technology Industry** 498-506  
*Ms. Vidya Chandrasekaran & Dr. Vidya Bhate*
- 55. Relationship between Achievement Motives and Leadership Skills in Leaders from Various Sectors Across Pune City** 507-514  
*Sneha Bhattacharya & Dr. Vidya Bhate*
- 56. Embracing Green HR for a Sustainable Tomorrow: A Multidimensional Approach** 515-528  
*Dr. Bhaona Wal*
- 57. Psychological Well-Being of Organizational Employees: A Bibliometric Analysis** 529-548  
*Ms. Pooja & Dr. Rekha Rani*
- 58. Emergent Role of Electronic-hrm in IT Companies** 549-558  
*Dr. Gurjeet Kaur & Jyoti Bansal*
- 59. Work Life Integration: A Shift from Work Life Balance** 559-572  
*Dr. Divya Malhan, Ms. Nisha, Mr. Mohan, Ms. Sushma,  
Ms. Ruby Gothwal, Ms. Neha Nain & Mr. Arvind Goswami*
- 60. Gender Diversity, Work Stress, and Job Satisfaction: A Systematic Review and Bibliometric Analysis** 573-592  
*Dr. Divya Malhan, Ms. Sushma, Mr. Mohan, Mr. Rajesh,  
Ms. Neha Nain, Ms. Preeti Ahlawat*
- 61. Gender Diversity in Healthcare Over 30 Years: Using Bibliometric Analysis** 593-609  
*Ms. Kapila Goyal*

62. **Explorative Analysis of Industry 4.0 Scenario with Human Resource Activities** 610-614  
*Neha Guleria, Dr. Samriti Mahajan & Dr. Savita Yadav*
63. **Comparative Assessment of Job Satisfaction in Public and Private Banks** 615-632  
*Dr. Yogita Satish Garwal*
64. **Organizational Agility at Educational Institution and Ways to Improve it** 633-643  
*Mr. Ibrahim Mohammed, Dr. Jagdeep Singla & Ridhima Goel*
65. **Gig Economy and the Students Post Pandemic, with Special Reference to Mangaluru** 644-651  
*Ms. Carrel Sharel Pereira*

**Session-V**

**Financial Management**

**Session Chair: Dr. Sachita Yadav,**

Arun Jaitely National Institute of Financial Management

**Co-Chair: Dr. Neelam Gulati**

Dean Academics, DAV Institute of Management, Faridabad

66. **Transformations in India's Income Tax System: A Comprehensive Analysis of Reforms from 2011-12 to 2021-22** 655-664  
*Ms. Arti Kumari & Dr. Satish Ahuja*
67. **Investor Sentiments and Stock Market Anomalies: A Study** 665-673  
*Ms. Preeti Gupta, Ms. Shivani, Dr. Ramesh Chander Dalal  
& Dr. Bhag Singh Bodla*
68. **Open Banking: Opportunities and Risks** 674-682  
*Dr. Sajoy P.B.*
69. **Small Finance Banks: A Catalyst for Financial Inclusion** 683-695  
*Ms. Urvashi Suryavanshi & Dr. Rishi Chaudhry*
70. **Exploring the Impact of Bank Mergers on Sustainable Development in India: A Study of Environmental, Social, and Governance Practices** 696-708  
*CS Amit Kumar, Dr. (CS) Vinit Sikka & Dr. Urvashi Kurma*

71. **Retirement Financial Planning for Pre-retirees: Systematic Literature Review and Future Research Recommendations** 709-752  
*Ms. Divya Jain*
72. **Influence of Capital Structure on Firm Performance: Evidence from India** 753-778  
*Mr. Gagandeep, Dr. Amit Kumar & Dr. Jyoti Yadav*
73. **Measuring the Impact of Green Banking Activities on Profitability of Commercial Banks: An Empirical Analysis** 779-787  
*Komal Dhiman & Dr. Ashok Kumar*
74. **Relevance of Kautilya in Indian Foreign Policy** 788-792  
*Dr. Sheo Harsh Singh & Mr. Devendra Kumar Dubey*
75. **A Study on Role of Financial Awareness on Investment Decisions** 793-804  
*R. Banibrata Sarkhel*
76. **Socially Responsible Investing - An Emerging Concept in Investment Management** 805-811  
*Ms. Poonam, Ms. Jyoti & Ms. Jyoti*
77. **Impact of Mega-Merger on the Financial Performance of Public Sector Bank** 812-819  
*Monika Ahlawat & Dr. Sunita Bishnoi*
78. **Corporate Governance Practices Enhance the Firm Intellectual Capital Performance: A Conceptual Review** 820-828  
*Dr. Kavita & Mr. Mohit Mohan & Ms. Pooja*
79. **Role of Fintech in Financing MSMEs; in Context of Attaining SDGs** 829-840  
*Jyoti Prajapati, Kamranullah, Jyoti Rajput & Dr. Jai Kishan Chandel*
80. **A Comprehensive Review Paper on Behavioral Finance Biases and Investment Decision Making** 841-845  
*Ms. Sakshi Gupta & Dr. Kamalpreet Kaur*
81. **Life Insurance in India: The Individual's Perspective** 846-860  
*Srishti Nagarajan & Dr. Ekta Duggal*
82. **A Study of Pre and Post Amalgamation Financial Performance of Punjab National Bank After Merging Oriental Bank of Commerce & United Bank of India** 861-867  
*Cma Bhawna Thakur*



83. **An Effective Tool for Economic Sustainability: "Green Finance"** 868-875  
*Ms. Madhu Bala & Ms. Seema*
84. **Technological Transformation and Digital India** 876-885  
*Ms. Hemlata & Ms. Aarti Sharma*

**Session-VI**

**Financial Management**

**Chair: Prof. Ashutosh Nigam**

Dept of Business Studies, JC Bose University of Science & Technology

**Co-Chair: Dr. Meera Arora**

(HOD, MBA, DAV Institute of Management, Faridabad)

85. **India's E-Vehicle Market Competitive Strategy: A Comparative Analysis of Mahindra and Hyundai** 889-897  
*Ms. Simran Sehgal & Dr. Ajay Kumar Sharma*
86. **The Impact of Digital Marketing on Sales of Businesses: An Empirical Study with Special Reference to Pathshala** 898-910  
*Dr. Richa Arora, Dr. Dimpy Sachar, Dr. Richa Nangia,  
Dr. Rashmi Singel & Dr. Suman Yadav*
87. **A Conceptual Study about the Types of Mobile Marketing and its Benefits for Online Sellers** 911-921  
*Ms. Anuradha*
88. **The Dark Side of Online Shopping: A Study on Deshopping Phenomenon** 922-931  
*Ms. Suruchi Saini & Dr. Nisha*
89. **Role of Artificial Intelligence in Marketing** 932-939  
*Ms. Khushi Singh*
90. **A Study on Factors Influencing Online Shopping Towards Electronic Goods** 940-952  
*Ms. Savita Dr., Varsha Goel & Dr. Parmod Kuma*
91. **An Analytical Study of Mineral Water Marketing in Aurangabad District** 953-965  
*Rameshwar Jaju*
92. **Influence of Social Media on College Students** 966-973  
*Dr. Jagadish J.R*

- 93. Customer-Based Brand Equity: Bibliometric Review of Academic Documents Published in Scopus Indexed Sources** 974-1000  
*Mr. Vikas Yadav & Dr. Sunita Bishnoi*
- 94. Study of the Effect of Employer Brand Image on Organizational Pursuit Intention** 1001-1011  
*Ms R Sreeprabha & Dr. Vandana Madhav Kumar*
- 95. Profiling the Indian Online Purchaser** 1012-1019  
*Dr. Usha S & Mr. Abdul Majid Khan*
- 96. Contributory Factors to Economic Well-beingfor Small & Marginal Farmers** 1020-1029  
*Ms. Pooja R.*

## Techno-Pedagogical Competency of Senior Secondary School Teachers

Saket Bihari\*

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### ABSTRACT

*This study aimed to investigate the awareness of senior secondary school teachers towards techno-pedagogical competency skills, which are essential for effectively integrating technology into classroom practices. The study hypothesized that there would be no significant difference in the mean scores of senior secondary school teachers' awareness towards technology in preparing for teaching, providing motivation, presentation, evaluation, and techno-pedagogical competency. The researcher used a descriptive survey method, and a sample of 100 senior secondary school teachers from the North West district of Delhi was randomly selected. The Techno-pedagogical competency scale developed by S. Rajashekhar and K. Sathiyaraj (2020) was used to collect data. The statistical technique of 't' test was used to analyze the data. The findings of the study can be used to provide insights into the current level of techno-pedagogical competency skills among senior secondary school teachers and identify areas that need improvement to enhance teaching and learning outcomes.*

### Introduction

The knowledge, abilities, and attitudes instructors require to successfully incorporate technology into their classroom practices are referred to as "techno-pedagogical competency skills." Given the growing significance of technology in the classroom, it is essential that instructors have the techno-pedagogical competency abilities necessary to improve the caliber of both teaching and learning. These abilities include knowing how to choose, create, and apply suitable technology tools to support teaching and learning objectives as well as being able to assess these tools' efficacy. To effectively engage and excite students in the digital age, teachers also need to be skilled in digital communication,

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\* School of Education (SOED), K R Mangalam University, Gurugram.

content development, and collaboration. For instructors to successfully use technology into their teaching practice, they must possess the necessary techno-pedagogical competency skills. To make sure that it improves learning outcomes rather than detracting from them, instructors must critically evaluate how technology is used in the classroom. Examining the efficiency, suitability, and moral implications of employing technology in education is part of critical analysis. Teachers that possess techno-pedagogical competency are better able to evaluate how technology is used in their classrooms.

It is the application of technology to learning and teaching circumstances. Teachers successfully combine pedagogy and technology in the classroom by using that skill. Teachers' that are adept at integrating technology into their lessons might involve students from around the globe. The most recent theories of online learning, such as LMS, MOOCs, and MOODLE, are the result of the development of techno-pedagogical knowledge. These theories are the best illustrations of the integration of technical knowledge into pedagogy. In techno-pedagogy, there are three knowledge domains: content, pedagogy, and technology.

### **Significance of the Study**

In today's educational system, the demand for techno-pedagogical competency skills is essential. When technology is used effectively in the classroom, students' learning is greatly improved. Teachers may design immersive and interesting learning experiences that encourage critical thinking and active learning by utilizing technology resources like interactive software, multimedia content, and virtual simulations. Thanks to technology, students now have easy access to a wealth of data and materials that weren't previously available. Teachers that possess the necessary techno-pedagogical competency abilities can instruct students on how to find, assess, and use information from a variety of sources using technology. Because technology is so pervasive nowadays, students must acquire the abilities required to function well in a digital setting. Teachers can aid students in preparing for the job, where technology is used in a variety of tasks, by teaching them how to use it in the classroom. With the help of technology, students may connect and work with classmates and professionals from all around the world. Teachers that possess technological pedagogical competency skills are able to design and facilitate global learning activities that advance cultural knowledge and understanding. In conclusion, techno-pedagogical competency skills are essential for teachers to create a modern and engaging learning environment that prepares students for the challenges of the digital age.

## **Review of the Related Literature**

**Gloria and Benjamin (2014)** concluded in their article that Learn to teach and teach to learn are two goals of teacher education. According to recent research, teacher education changes that create more closely linked programmes with coursework on both learning and teaching result in more effective teachers who are also more likely to enroll and remain in the profession. The development of teachers' capacities to evaluate instruction from the perspective of students who bring a variety of experiences and frames of reference to the classroom is a significant contribution made by teacher education. While teacher educators and training graduates are becoming more familiar with information and communication technology (ICT) outcomes, it is crucial to note that they still possess the knowledge or abilities necessary to incorporate those technologies into their teaching practices. The significance of teaching teachers' technological pedagogical skills is discussed and detailed in this work.

**Thakur (2015)** concluded in his research that one of the main determining factors for the hybrid meta-teaching method is techno-pedagogy. In the last two decades, higher education systems all around the world have incorporated advancements in techno-pedagogical skills. Some of the hurdles that cause underachievement, student disaffection, and educational exclusion can be removed through the use of techno-pedagogical skills. However, a quick glance around reveals that this potential is not being fully utilized in the majority of schools and institutions across the nation. A study of the current situation reveals a number of factors that have been preventing the integration of technology in the higher educational sector, despite the fact that planning and implementing initiatives to improve the role of techno-pedagogical skills in higher education have received priority.

**Sathya and Venkateshwaran (2018)** studied the techno-pedagogical abilities of B.Ed. students in the Salem district of Tamil Nadu State are examined in terms of gender and kind of institutions. For the study, 300 B.Ed. students from government and self-finance colleges are chosen at random. T-test is used to analyze the data. Results showed that there are no gender or institution-related differences in the techno-pedagogical skills of B.Ed. students.

**Sibichen (2018)** carried out a study to determine the technological pedagogical abilities of secondary teacher education students. The study used the survey method. The findings show that graduate and post-graduate secondary teacher education students differ significantly in their abilities to implement instructional strategy and direction. The findings also show that there is a considerable difference in learning, evaluating, and techno-pedagogical skills between

secondary teacher education students who have taken computer courses and those who have not.

**Ali (2018)** conducted in his article that people all over the world rely extensively on technology in every aspect of their daily lives in the twenty-first century. As part of today's knowledge-based culture, students are increasingly using technology to find information. Therefore, if the lecture approach is regularly used in the classroom as the process of teaching and learning will become monotonous. So as to enhance the learning outcome, it is expected of the teachers to integrate technology into the design of the teaching-learning environment. Teachers can use electronic resources to motivate students, prepare lessons, present information, carry out evaluations, and create engaging lesson plans.

**Habib (2018)** attempted to analyze how senior secondary school teachers' technological pedagogical proficiency affects their effectiveness as teachers. On a sample of 400 senior secondary school teachers, including 220 men and 180 women, correlation, t-test, and ANOVA were used. The study used two different kinds of data collection tools: the Teacher's Techno-pedagogical Competency Scale (TTPCS-RSSR), created by Dr. Rajeshkar and K. Sathiyaraj in 2017, and the (TES-KU), produced by Dr. Umme Kulsum in 2017. The association between senior secondary school teachers' techno-pedagogical ability and their effectiveness as teachers was shown to be both positive and substantial. Teacher effectiveness and techno-pedagogical proficiency demonstrated a direct and proportional relationship. Compared to senior secondary school teachers with lower levels of techno-pedagogical ability, those with greater levels tend to have better levels of teacher effectiveness.

**Jia Prakash and Hooda (2018)** attempted to compare the technological pedagogical proficiency of instructors in public vs. private schools in the state of Haryana. A sample of 200 teachers from higher secondary schools in the state of Haryana was chosen at random from 20 public schools and 20 private schools for the current study. A descriptive survey method was also used. Results indicate that private higher secondary school instructors have higher mean values for technological pedagogical ability than do government higher secondary school teachers. Urban government and private higher secondary school teachers have greater technological pedagogical skills than rural government and private higher secondary school teachers.

**Kumar (2018)** concluded in his article that technological pedagogical abilities are highly helpful in making the teaching and learning process enjoyable since it would transform the way teachers engage with students in noticeable ways.

Although technological pedagogy is a boon to teaching and learning, it is a fact that the stakeholders do not fully utilize the benefits of these abilities. There are numerous factors at play in this illness. Some significant obstacles in this respect include instructors' lack of awareness of technological pedagogical abilities, their unfavourable attitudes, a lack of ICT resources in schools, and a lack of time. Being one of the fundamental requirements for practicing, absence of teachers' expertise of technological pedagogy deserves special attention.

**Anand (2019)** discussed the technological pedagogical abilities of faculty members who work in higher education. Using the Teacher's Techno-Pedagogical Competency Scale (TTPCS), which Rajsekar and Sathiyaraj developed in 2013, the data was gathered from 40 faculty members who were chosen at random from the scientific and social science departments of Visva-Bharati in Santiniketan, West Bengal. The study's concluded that the faculty members had above-average technological pedagogical competence. Additionally, it was discovered that there are no appreciable differences in faculty members' Techno-Pedagogical Competency between male and female, as well as between science and social science. According to a study, professors should use platforms like SWAYAM and NPTEL to keep themselves and their students informed.

**Gurua and beura (2019)** attempted to assess the technological and pedagogical proficiency of instructors in higher secondary schools in connection to scientific students' academic progress. This study is descriptive in nature. The survey model was employed during the process. This study intends to determine whether there is a statistically significant association between the academic performance in science of higher secondary school pupils and the techno-pedagogical proficiency of their teachers in terms of some characteristics like gender and location. One hundred teachers and one hundred pupils from the Cuttack district participated in the study. The majority of instructors had moderate levels of techno-pedagogical proficiency, according to the study's findings, and teachers who worked in urban areas had higher levels of techno-pedagogical proficiency than those who worked in rural areas.

**Senturk (2019)** aimed to look at the connection between teacher candidates' technological pedagogical content knowledge and their propensity for lifelong learning. The correlational survey model served as the foundation for the study's design. 271 senior teacher candidates at Ondokuz May University's Education Faculty who are enrolled for the 2018–2019 academic year are the study's participants. The study employed a method of deliberate sampling. Finding shows that while there is no significant gender difference for teacher candidates' Techno-Pedagogical Education Competency and its sub-dimensions, there is a significant gender difference for their Lifelong Learning Tendency.

**Sindhvani (2019)** attempted to examine senior secondary school teachers' technological pedagogical proficiency in connection to their gender, academic stream, and teaching experience. The descriptive survey method was employed for this exact reason. 160 senior secondary teachers from C.B.S.E. schools, both male and female, who taught in the arts and sciences, were chosen as a sample. The data was analyzed using the mean, standard deviation, t-test, and three-way ANOVA. Regarding gender, stream, and years of teaching experience, there are clear variances in the techno-pedagogical ability of teachers.

**Palanisamy et al (2020)** concluded that in order to improve society and human resources, education is crucial. Only if they are organized in a professional, innovative, and effective manner to apply technical skills to grow pupils in demand of changing times can teacher educators and undergraduates perform a good job. Innovative technology that can improve student engagement must also be able to be adapted by teacher educators and their graduates. In our fast-paced environment, educating with contemporary technological tools improves student knowledge and the teaching and learning process. The smart classroom is a one-stop shop for students who need support with their writing, technical research, or both. The current educational system should promote the use of this new phrase.

**Asab et al (2021)** remarked that the most effective teachers bring a variety of experiences and resource materials to the classroom. Innovative educators are essential in today's environment for teaching and learning. Technology has improved education and increased the rigour of instruction. So that the technical teaching method has a positive attitude, it is required to further develop the lecturer's technical teaching skills. The technical teaching method may be the primary option for the cross-method of meta-teaching. The advancement of technical teaching abilities has been taken into account in the higher education framework around the world over the last twenty years.

**Baregama (2021)** aimed to assess secondary school teachers' technological pedagogical content proficiency in regard to English and Science Subjects. To determine the teachers' technological pedagogical subject competency, this study used a descriptive survey method. 600 secondary school teachers from the Tonk district make up the study's sample. The sample is chosen using a straightforward random sampling method. An internally devised TPCC Scale was created to determine the techno-pedagogical content competency. Mean, standard deviation, and t-test calculations were made for the data analysis. The study's findings showed that there is no significant difference in secondary school teachers' technological content competency, but there is a significant



difference between urban and rural secondary school teachers' technological content competency in relation to English and science subjects.

**Kamaludheen (2021)** conducted a study on a convenience sample of 168 elementary teachers from 84 schools in the State of Kerala, India, spanning all 14 districts. The study makes use of a normative survey method. The research tool is the Techno-pedagogical Competency Scale (TPCS), which the investigator created and standardized. The study found that the techno-pedagogical proficiency of elementary teachers is low. There is no discernible difference in elementary school teachers' technological pedagogical proficiency according to their years of experience. Depending on the management style they have, primary school instructors have Significantly Different Techno-pedagogical Competencies.

**Qurasi and Jan (2022)** explored to evaluate the techno-pedagogical proficiency of Kashmiri secondary school instructors from both private and public schools. This study employed a quantitative, descriptive, and comparative survey research design. A sample of 600 secondary school teachers (347 private and 253 public) was chosen. The specimen was selected from 85 secondary schools (45 private and 40 public) in Srinagar (Urban) and Baramulla (Rural) districts of Kashmir using the stratified proportionate random sampling approach. Rajasekar and Sathiyaraj's (2013) Teacher's Techno-Pedagogical Competence Scale was utilized for data gathering. On the measure of technological pedagogical competence, a considerable gap between Kashmir's private and public secondary school instructors was Discovered.

**Roy (2022)** concluded that teachers should be aware of the varied requirements for using technology in teaching and learning. The only constant in our constantly changing world is change. Progress is impossible without adapting to changing conditions. The paradigm for teaching and learning needs to adapt as a result of advances in science and technology, and those that do so will benefit. Technology has a noticeable impact on the education sector and is viewed as a god in disguise because it is assisting in removing the obstacles that are present in the technique of instruction at even the most basic levels of education.

**Singh and Gupta (2022)** concluded that A key determining component in the composite meta-teaching approach is techno-pedagogy. Techno-pedagogical developments have been incorporated into educational institutions all around the world over the past number of years. Techno-pedagogical competences can be used to overcome some of the barriers that cause academic failure, learner discontent, and educational marginalization. However, it is clear from looking outside that practically all institutions and organizations across the nation are unable to succeed.

**Kumari and Rani (2023)** concluded that apart from content knowledge Along with good topic understanding, technological pedagogical abilities are crucial for effective output in regard to e-learning. However, there are a number of difficulties for teacher educators in this respect, but with the aid of appropriate technological pedagogical abilities, they may reduce these difficulties, which further contributes to high-quality education.

### **Statement of the Problem**

“Techno-Pedagogical Competency of Senior Secondary School Teachers”

### **Operational Definitions of the termed used**

#### **Techno-Pedagogical Competency**

The capacity and knowledge of teachers to use required technology in the classroom successfully and appropriately is known as techno-pedagogical competency. In the current study, “Techno-Pedagogical Competence” refers to the responses’ results on the Rajasekar and Sathiyaraj (2020) Teacher’s Techno-Pedagogical Competence Scale (TTPCS).

#### **Senior Secondary School Teachers**

In the current study, senior secondary school teachers refer to those teachers who are teaching to 11th and 12th class students in either Private or Government senior secondary schools of Delhi.

#### **Objective of the Study**

To compare the significant difference between the mean scores of senior secondary school teachers on their awareness towards techno pedagogical competency with respect to their gender, locality and types of school management.

#### **Hypotheses of the Study**

1. There is no significant difference between the mean scores of male and female senior secondary school teachers on their awareness towards techno pedagogical competency.
2. There is no significant difference between the mean scores of rural and urban senior secondary school teachers on their awareness towards techno pedagogical competency.
3. There is no significant difference between the mean scores of government and private senior secondary school teachers on their awareness towards techno pedagogical competency.

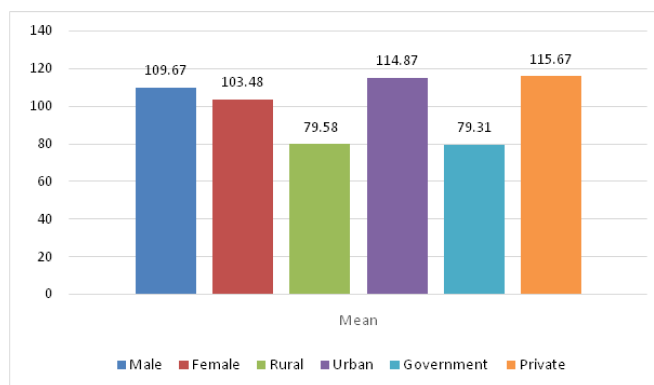
## Research Methodology

The researcher used descriptive survey method in the present study. Sample of the present study was randomly selected from 100 senior secondary school teachers from North West district of Delhi. Teachers' techno-pedagogical competency scale was used standardized by S. Rajashekhar and K.Sathiyaraj (2020).The scale has 40 statements, each of which has five possibilities, Always, Sometimes, Rarely, and Never, with weights of 5, 4, 3, 2, and 1. 't' test was used as statistical technique.

## Interpretation and Data Analysis

**Table 1: Comparison of Mean scores of Techno-Pedagogical Competency of Senior Secondary School Students with respect to their Gender, locality and Types of School Management**

Techno Pedagogical Competency	Group	N	Mean	SD	't' Value	Level of Significant
	Male	50	109.67	21.43	1.34	Not Significant at 0.05 level of significance
	Female	50	103.48	24.59		
	Rural	37	79.58	27.52	5.23	Significant at 0.01 level of significance
	Urban	63	114.87	23.91		
	Government	50	79.31	29.53	7.04	Significant at 0.01 level of significance
	Private	50	115.67	21.47		



Histogram depicting mean scores of male-female, rural- urban and government - private senior secondary school teachers towards techno-pedagogical competency

H1:

It is clear from the table 1 and graph that the estimated t-value, which is 1.34, is less than the critical t-value, which is 1.96 at the 0.05 level with df 98. It shows that there are no appreciable differences in the mean Techno-Pedagogical Competence ratings between male and female senior secondary school teachers. Accordingly, the proposed hypothesis that "There is no significant difference between the mean scores of male and female senior secondary school teachers on their awareness towards techno pedagogical competency" is accepted. Additionally, the mean score for male senior secondary school teachers (M=109.67) is marginally higher than the mean score for female senior secondary school teachers (M=103.48), indicating that male senior secondary school teachers have higher Techno-Pedagogical Competency than female senior secondary school teachers.

The difference in mean Techno-Pedagogical Competence scores between male and female senior secondary school teachers may be due to a number of variables, including training, experience, and access to technology resources. In contrast to female instructors, men teachers may have received greater training or exposure to technology-related courses or programmes, which may have contributed to their higher levels of Techno-Pedagogical Competence. Additionally, the degree of Techno-Pedagogical Competence among male and female teachers may have been impacted by variations in access to technological resources including computers, software, and internet connectivity. However, it is challenging to reach any firm conclusions in the absence of sufficient details.

H2:

It is clear from the table 1 and graph that the estimated t-value, which is 5.23, is higher than the critical t-value, which is 2.61 at the 0.05 level with df 98. It shows that there is appreciable differences in the mean Techno-Pedagogical Competence ratings between rural and urban senior secondary school teachers. Accordingly, the proposed hypothesis that "There is no significant difference between the mean scores of rural and urban senior secondary school teachers on their awareness towards techno pedagogical competency" is rejected. Additionally, the mean score for urban senior secondary school teachers (M=114.87) is marginally higher than the mean score for rural senior secondary school teachers (M=79.58), indicating that urban senior secondary school teachers have higher Techno-Pedagogical Competency than rural senior secondary school teachers.

The accessibility and availability of resources and technology may be a factor in this discrepancy. Compared to rural areas, urban areas typically have better access to resources and a more developed technological infrastructure. Urban instructors may have additional opportunity to grow and improve their techno-pedagogical competence as a result of this. Another factor might be the caliber of instruction and preparation given to instructors. Urban schools may have better-funded and more sophisticated teacher training programmes, which may lead to teachers in urban schools having greater Techno-Pedagogical Competence than those in rural schools. Overall, the large gap in Techno-Pedagogical Competence between rural and urban senior secondary school teachers is shown by the significant disparity in mean scores between the two groups. This can be accomplished by giving all teachers, regardless of their location, equal chances and access to resources and training programmes.

H3:

It is clear from the table 1 and graph that the estimated t-value, which is 7.04, is higher than the critical t-value, which is 2.61 at the 0.05 level with df 98. It shows that there is appreciable differences in the mean Techno-Pedagogical Competence ratings between government and private senior secondary school teachers. Accordingly, the proposed hypothesis that "There is no significant difference between the mean scores of government and private senior secondary school teachers on their awareness towards techno pedagogical competency" is rejected. Additionally, the mean score for private senior secondary school teachers (M=115.67) is marginally higher than the mean score for government senior secondary school teachers (M=79.31), indicating that private senior secondary school teachers have higher Techno-Pedagogical Competency than government senior secondary school teachers.

The amount of financing and resources available to private schools in comparison to public schools may be one cause for this discrepancy. Private schools frequently receive greater funding and have more funds available to spend on technology and teacher training programmes. This could give private school teachers greater opportunity than government school teachers to grow and improve their techno-pedagogical competence. Another factor might be the caliber of programmes for professional development and teacher preparation. Compared to government schools, private schools may offer more sophisticated and focused teacher training programmes. Because of this, private school teachers might possess greater techno-pedagogical competence than teachers in public schools. Overall, the notable disparity in mean scores between government and private senior secondary school instructors emphasizes the necessity for government schools to increase their investments in technology and teacher training programmes

in order to enhance the Techno-Pedagogical Competence of their faculty. The pupils at government schools who will benefit from the enhanced teaching techniques will also gain from this, in addition to the teachers.

### **Conclusion**

In order to determine whether there was any gender-based disparities in senior secondary school teachers' Techno-Pedagogical Competency. There was no discernible difference in the mean scores between male and female teachers. However, although not significantly, the mean score for male teachers was marginally higher than that for female teachers. Therefore, it cannot be said that men are much better qualified as instructors than women. These results imply that male and female senior secondary school instructors are equally aware of and knowledgeable about techno-pedagogical competence, a critical component of successful instruction in the contemporary digital era. However rural and urban as well as government and private senior secondary school teachers were found statistically differ significantly.

### **Recommendations**

On the basis of the study's findings, the following suggestions can be made:

1. Rural senior secondary school teachers scored worse than their urban counterparts, it is advised that training programmes be created and put into place to raise their techno-pedagogical competency. These training programmes, which could take the shape of workshops, seminars, or online courses, should be geared towards giving instructors the knowledge and abilities they need to successfully incorporate technology into their classrooms.
2. To facilitate the incorporation of technology in teaching and learning, rural senior secondary schools should be given access to sufficient resources including computers, the internet, and other digital tools. Rural instructors will be better able to provide their students with high-quality instruction thanks to this improvement in their techno-pedagogical competency.
3. To share best practices in integrating technology into teaching and learning, collaboration across senior secondary public and private schools could be promoted. All senior secondary school teachers' total Techno-Pedagogical Competence will increase as a result of this.
4. Efforts should be made to encourage more female teachers to enroll in training programmes and incorporate technology into their teaching,

notwithstanding the non-significant difference in Techno-Pedagogical Competence scores between male and female senior secondary school teachers. This will support the advancement of equity and gender balance in the teaching profession.

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## A Study on the Impact of Population Growth on the Sustainable Livelihood of People in the 21st Century Society

Fr. Baiju Thomas\*

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### ABSTRACT

*The present study addresses the impact of population growth on the sustainable livelihood of people in 21<sup>st</sup>-century society. The world's population has now exceeded three billion people, representing the fastest-ever increase in human population recorded by the historian. Before recently, the rate of population increase has been constant, but it has recently increased. The world's population grows in lockstep with the global population. If the global maps are revised on the population density rather than land area, the world's population can be seen entirely. For the most part, human people have been relatively constant. The population explosion is a global issue, and the early stages of population growth are predicted. As per the thorough analysis, the world's population would rise from 7 billion to between 8.8 and 10 billion by the middle of this century. Population growth has a significant effect on livelihood across the challenges that will become more pressing in the 21<sup>st</sup>-century society. Population growth can be considered to some extent, and numerous countries have managed to improve median earnings while their populations have increased quickly over the last three decades. Population growth has been addressed in this regard. The purpose of development, on either hand, is to enhance people's lives rather than merely to handle an increasing population. As an outcome, the planet's population has over tripled in the last century, reaching 6 billion people. The purpose is to promote human development and make the most effective human resources possible. It is possible to make better use of available human capital in the twenty-first century to achieve rapid economic growth and improved quality of life in society.*

**Keywords:** *Impact, Population Growth, Livelihood, People, 21st Century, and Society.*

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