

BIO-DATA

1. Name and full correspondence address:

Name: Dr. Nilay Khare
Designation: Professor
Institute's Address: Computer Science and Engineering Department
Maulana Azad National Institute of Technology,
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2. Email(s) and contact number(s) :

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3. Institution: Maulana Azad National Institute of Technology, Bhopal, India

4. Date of Birth: 21-July-1966

5. Gender (M/F/T): Male

6. Category: Gen

7. Whether differently abled (Yes/NO): No

8. Academic Qualification (Undergraduate Onwards)

S.No.	Degree	Year	Subject	University/Institution	% of marks
1.	B.E.	1988	Elect. Engg.	Govt. Engg. College, Jabalpur	80%
2.	M.Tech.	1994	Computer Science & Engineering	IIT Delhi	8.22 CGPA
3.	Ph.D.	2008	Computer Science & Engineering	RGPV, Bhopal	-

9. Ph.D. thesis title, Guide's Name, Institute/organization/University, Year of Award:

Title: **FPGA IMPLEMENTATION OF CORDIC PROCESSOR CHIP FOR WIRELESS COMMUNICATION SYSTEM**

Guide's Name : Dr. J. L. Rana & Dr. S.S. Bhadauriya

Institute: **RGPV, Bhopal**

Year of Award : **2008**

10. Work Experience (in Chronological order)

S.No	Position Held	Name of the Institute	From	To
1.	Lecturer	Dept. Of Technical Education, Govt. of MP	25/2/1989	15/5/1996
2.	Sr. Lecturer	Dept. Of Technical Education, Govt. of MP	3/9/1996	2/9/2001
3.	Reader	Dept. Of Technical Education, Govt. of MP	3/9/2001	31/12/2005
4.	Asso. Professor	Dept. Of Technical Education, Govt. of MP	1/1/2006	2/9/2009
5.	Professor	Dept. Of Technical Education, Govt. of MP	3/9/2009	2/9/2010
6.	Associate Professor	MANIT, Bhopal	3/9/2010	28/12/2018
7.	Professor	MANIT Bhopal	29/12/2018	Till Date

11. Specialization:

Discrete Structures, Data Structures, Data Communication, Theory of Computation, Algorithm Design and Analysis, Operating Systems, Computer Networks, Compiler Design, Artificial Intelligence, Machine Learning, Deep Learning, Parallel Algorithms, Graph Theory, Internet of Things (IoT).

Research Area: ML/DL, Bigdata Privacy, Quantum Computing and IoT

12. Publications (List of papers published in SCI Journals, in year-wise descending order).

SCI Journals:

- 1) Rahul Haripriya, **Nilay Khare**, Manish Pandey, Sreemoyee Biswas. " A privacy-enhanced framework for collaborative Big Data analysis in healthcare using adaptive federated learning aggregation" **Journal of Big Data (2025)**
- 2) Rahul Haripriya, Nilay Khare, Manish Pandey, Shrijal Patel, Jaytrilok Choudhary, Dharendra Pratap Singh, Surendra Solanki, Duansh Sharma, "FWFA: Fairness-Weighted Federated Aggregation for Privacy-Aware Decision Intelligence", **IEEE Access, (2025)**
- 3) Rahul Haripriya, **Nilay Khare**, Manish Pandey, Sreemoyee Biswas. "Navigating the fusion of federated learning and big data: a systematic review for the AI landscape" **Cluster Computing** , vol. 28, article number 303, pages 1-27 **(2025)**
- 4) Sreemoyee Biswas, Kaushiki Tripathi, **Nilay Khare**, Priyank Jain, Pragati Agrawal, Sanyam Shukla, Enhancing Privacy Through Cluster-Based Anonymization of Quasi Identifiers in Correlated Datasets, **Iranian Journal of Science and Technology, Transactions of Electrical Engineering**, Pages 1-22 **(2025)**.
- 5) Rahul Haripriya, **Nilay Khare**, Manish Pandey. " Privacy-preserving federated learning for collaborative medical data mining in multi-institutional settings." **Scientific Reports** ", Volume 15, Article number: 12482 **(2025)**
- 6) Rahul Haripriya, **Nilay Khare**, Manish Pandey, Sreemoyee Biswas, Decentralized big data mining: federated learning for clustering youth tobacco use in India, **Journal of Big Data**, vol.11, article number 179, **(2024)**

- 7) Saurabh Shrivastava, Sanyam Shukla, **Nilay Khare**, “Support vector machine with eagle loss function”, **Expert Systems with Applications**, vol. 238(2024).
- 8) Saurabh Shrivastava, Sanyam Shukla, **Nilay Khare**, “A stable variant of linex loss SVM for handling noise with reduced hyperparameters” , **Information Sciences**, vol. 646 (2023).
- 9) Sreemoyee Biswas, Anuja Fole, Nilay Khare, Pragati Agrawal, “Enhancing correlated big data privacy using differential privacy and machine learning” **Journal of Big Data** , vol. 10, article number 30 (2023).
- 10) Barkha Soni, **Nilay Khare**, “Quantum principal component analysis based on the dynamic selection of eigenstates”. **Europhysics Letters**, vol. 139, (2022)
- 11) Hema Dubey, Nilay Khare, “Fast parallel computation of PageRank scores with improved convergence time” **International Journal of Data Mining, Modelling and Management** , vol. 14(2022).
- 12) Sreemoyee Biswas, Nilay Khare, Pragati Agrawal, Priyank Jain, “Machine learning concepts for correlated Big Data privacy” **Journal of Big Data**, vol. 8, article number 157 (2021).
- 13) Shriya Sahu, Meenu Chawla, Nilay Khare, Bhasha Singh, “Mining approximate frequent subgraph with sampling techniques” **Materials Today: Proceedings** , Volume 81, Part 2, pages: 395-402 (2021)
- 14) Chiranjit Das, Akhtar Rasool, Aditya Dubey, **Nilay Khare**, “Analyzing the Performance of Anomaly Detection Algorithms” **International Journal of Advanced Computer Science and Applications**, Vol. 12, No. 6 (2021).
- 15) Priyank Jain, Manasi Gyanchandani, Nilay Khare, “Improved k-anonymize and l-diverse approach for privacy preserving big data publishing using MPSEC dataset” **Computing and Informatics**, Vol.39,Pages 537-567 (2020).
- 16) Gouri Shankar Prajapati, **Nilay Khare**, “A Novel Parallel Approach for Disjoint Rule Generation and Optimization (DRGO) in Reconfigurable Firewall Using FPGA” **National Academy Science Letters**, vol. 43, pages 321–325 (2020).
- 17) Priyank Jain, Manasi Gyanchandani, **Nilay Khare**, Enhanced secured map reduce layer for big data privacy and security”, **Journal of Big Data**, Vol. 6 , Pages 1-17(2019).
- 18) Akhtar Rasool, Gulfishan Firdose Ahmed, Raju Barskar, **Nilay Khare**, “Efficient multiple pattern matching algorithm based on BMH: MP-BMH” , **The International Arab Journal of Information Technology**, vol. 16, pages 1121-1130 (2019).
- 19) Dharendra Singh, **Nilay Khare**, “Parallel batch dynamic single source shortest path algorithm and its implementation on GPU based machine” , **The International Arab Journal of Information Technology** , vol. 16, pages 217-225 (2019).
- 20) **Nilay Khare**, Hema Dubey, “Fast parallel PageRank technique for detecting spam web pages” **International Journal of Data Mining, Modelling and Management** , vol. 11, pages: 350-365 (2019).
- 21) Ashish Mishra, **Nilay Khare**, “Energy and performance improvement using real-time DVFS for graph traversal on GPU” **International Journal of Energy Technology and Policy**, vol. 15, pages: 254-279 (2019)
- 22) Priyank Jain, Manasi Gyanchandani, **Nilay Khare**, “Differential privacy: its technological prescriptive using big data”, **Journal of Big Data**, Vol 5, article number 15, pages : 1-24 (2018).
- 23) **Nilay Khare**, Alind Khare, Farhan Khan, “HCudaBLAST: an implementation of BLAST on Hadoop and Cuda” **Journal of Big Data**, vol. 4, pages: 1-8 (2017).
- 24) Priyank Jain, Manasi Gyanchandani, **Nilay Khare**, “Privacy and Security Concerns in Healthcare Big Data: An Innovative Prescriptive” **Journal of Information Assurance & Security**, vol. 12 pages 18-30 (2017).
- 25) AK Dadoria, K Khare, TK Gupta, **Nilay Khare**, “Integrating sleep and pass transistor logic for leakage power reduction in FinFET circuits” **Journal of Computational Electronics**, vol. 16, pp. 867-874, (2017).

- 26) Priyank Jain, Manasi Gyanchandani, **Nilay Khare**, “Big data privacy: a technological perspective and review” **Journal of Big Data**, vol. 3 pages 1-25 (2016)
- 27) V Vipin Tiwari, **Nilay Khare**, “Hardware implementation of neural network with Sigmoidal activation functions using CORDIC” , **Microprocessors and Microsystems**, vol. 39 pages: 373-381(2015).
- 28) Mukesh Kumar Mishra, **Nilay Khare**, Alka Bani Agrawal , Scenario analysis of the CO2 emissions reduction potential through clean coal technology in India's power sector: 2014–2050, **Energy Strategy Reviews** Vol. 7, pages 29-38 (2015).
- 29) Mukesh Kumar Mishra, **Nilay Khare**, Alka Bani Agrawal, “Small hydro power in India: Current status and future perspectives”, **Renewable and Sustainable Energy Reviews** , Vol. 51 , pages 101-115 (2015)
- 30) Kavita Khare, R P Singh, **Nilay Khare**, “Comparison of pipelined IEEE-754 standard floating point multiplier with unpipelined multiplier”, **Journal of Scientific & Industrial Research**, Vol. 65, pages 900-904 (2006)
- 31) Kavita Khare, R P Singh, **Nilay Khare**, “ Comparison of pipelined IEEE-754 standard floating point adder with unpipelined adder”, **Journal of Scientific & Industrial Research**, Vol. 64, pages 354-357 (2005)

13. Detail of Patents

Title	Year	Agency	Co-Investigator(if any)	Published/Granted
A METHOD FOR ENHANCED ENCRYPTION IN A HADOOP™ BASED DISTRIBUTED CLUSTER	2021	Australian Government	Dr. Priyank Jain+	Grant
SENSOR PLACEMENT OPTIMIZATION TOOLKIT (SPOT) Copy Rights	2021	Government of India	Dr. Meenu Chawla+	Grant
PORTABLE FACE RECOGNITION CUM ATTENDANCE RECORDING DEVICE	2022	Government of India	Dr. Priyank Jain+	Grant
SYSTEM AND METHOD OF DETECTING AND REGULATING 15 PARAMETERS IN A GREENHOUSE ENVIRONMENT	2021	Government of India	Dr. Hema Dubey+	Published
A SMART AGRICULTURE SYSTEM AND METHOD INTEGRATED WITH IOT DEVICES	2021	Government of India	Dr. Manasi Gyanchandani+	Published

14. Sponsored Research Projects Undertaken:

S. No.	Title	Sponsoring Agency	Duration	Amount
1	NVIDIA Hardware Grant	NVIDIA Ltd.	2016-18	230000
2	Creation of Virtual Classroom	Ministry of Communication, IT, Govt. of India	2011 - 14	41. 78 Lacs
3	Implementation of Training and Development	Govt. of MP	2009 - 10	50 Lacs
4	MIS Development	Govt. of MP	2008 - 10	2 Crores
5	Staff Development	Govt. of MP	2008 - 10	55 Lacs

15. STTP/Workshops/Conference Attended-

SNo.	Name	Period	Institute
1.	System Dynamics & System Simulation	17-18 feb 1992	IIFM, Bhopal
2.	Advanced Microprocessor Technology	1-23 Dec 1992	IIT, Kanpur
3.	Local Area Networks	24 May-04 June 1993	REC, Warangal
4.	Introductory Methodology	06-11 June 1994	IIT, Delhi
5.	Curriculum Development for UG & PG	30-31 Jan 1995	MACT, Bhopal
6.	16-Bit Microprocessor & Applications	05-17 June 1995	MACT, Bhopal
7.	TQM in Technical Education	16-29 Dec 1996	GEC, Bhopal
8.	Computer Networks	24-28 Nov 1997	IIT, Kanpur
9.	Telematics	10-20 June 1997	IIISc Bangalore
10.	Internet, Intranet & Programming	22 Nov-04 Dec 1999	KREC, Suratkal
11.	Applications of ISO-9000 in Technical Education	20-31 Dec 1999	BEC, Bhopal
12.	Wind Energy Generation & Commercialization	18-30 Dec 2000	MACT, Bhopal
1.	Standardization & Quality Systems	10-11 Aug 2000	RGPV, Bhopal
2.	MP Young Scientist Congress	29-30 July 2000	RGPV, Bhopal
3.	Matlab, Simulink & Pspice	02-30 July 2001	MACT, Bhopal
4.	Team Work with Faculty	10-Aug-01	RGPV, Bhopal
5.	Data Mining & its Applications in Supporting very large Database	24 Jun - 05 July 2002	BEC, Bhopal
6.	World Bank Procurement Procedure	21-26 July 2003	NIFM, Faridabaad
7.	Virtual Instruments, Embedded Systems & Robotics	01-05 March 2004	Gwalior
8.	Modelling & Simulation	06-08 July 2005	Rouen France
9.	Total Quality Management	28 Aug-01 Sept 2006	RCVPN Ad. Academy , Bhopal
10.	Effective Management of Technical Education	30 July-03 Aug 2007	CRISP, Bhopal
11.	Database Management System	13-23 Dec 2010	IIT, Bombay & MANIT, Bhopal

12.	Mission 10x Workshop on High Impact Teaching Skills	21-25 Feb 2011	Wipro & MANIT, Bhopal
13.	Pilot Phase of Procurement Management Support System	23-25 March 2011	COE, Pune
14.	Digital Image and Signal Processing	28Nov to 2 Dec 2011	MANIT, Bhopal
15.	Writing Effective Conference Paper	18-19, Feb 2012	IIT Mumbai & MANIT Bhopal
16.	Database Management System	13-23 Dec 2010	IIT, Bombay & MANIT, Bhopal
17.	Mission 10x Workshop on High Impact Teaching Skills	21-25 Feb 2011	Wipro & MANIT, Bhopal
18.	Pilot Phase of Procurement Management Support System	23-25 March 2011	COE, Pune
19.	Digital Image and Signal Processing	28Nov to 2 Dec 2011	MANIT, Bhopal
20.	Writing Effective Conference Paper	18-19, Feb 2012	IIT Mumbai & MANIT Bhopal

16. List of Training Program/Workshop etc Organized:

SNo	Name of Program	Institute	Sponsor	Year
1.	Internet Technology	Govt. Engineering College, Bhopal	Partially Sponsored (Govt. Of India)	1997
2.	Local Area Networks	Bhopal Engg College, Bhopal	Partially Sponsored (Govt. Of India)	2000
3.	Team Building	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2009
4.	Enhancing communication and Team Management skill	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2009
5.	Development of Management Skill	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2009
6.	Pedagogical Training (3 rd phase)	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2009
7.	Pedagogical Training (4 th phase)	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2010
8.	Computer Training –I	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2010
9.	Computer Training –II	Directorate of Tech. Education, Govt. of MP	Fully Sponsored (Govt. Of India)	2010
10.	Short Term Training Program on “Network Forensics”	MANIT, BHOPAL	Fully Sponsored (Govt. of MP)	2014
11.	Short Term Training Program on “Hands on experience in Big Data Analysis Using Hadoop”	MANIT, Bhopal	Self-financed	2015

12.	Short Term Training Program on “Basic Concept of Internet and E-mail”	MANIT, Bhopal	Self-financed	2015
13.	Faculty Development Programme on “Parallel Algorithms for Computational Biology”	MANIT, Bhopal	Fully Funded by AICTE Training and Learning Academy (ATAL)	2021
14.	International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2022)	MANIT, Bhopal	Self-Financed	2023

17. Any other Information (maximum 500 words)

Google Scholar ID: <https://scholar.google.co.in/citations?user=p7rnuEEAAAAAJ>

Citation-1624

H-index: 17

i10-index: 27

Google Scholar: <https://scholar.google.co.in/citations?user=p7rnuEEAAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=8409433500>

ORCID: <https://orcid.org/0000-0003-0450-9157>

Vidwan: <https://vidwan.inflibnet.ac.in/profile/61707>

Professional Memberships:

- Life Member CSI (No LM 9497)
- Life Member ISTE (No LM 10147)
- Annual Member IEEE

Visiting Faculty –

1. Indian Institute of Science Education and Research (IISER), Bhopal
2. Indian Institute of Information Technology (IIIT), Jabalpur
3. Indian Institute of Information Technology (IIIT), Bhopal
4. Gati Shakti Vishwavidyalaya, Vadodara

Coach in International Programming Contest:

S.No.	Name	Period	Institute
1	ACM Asia Programming Contest	7-Dec-02	IIT, Kanpur
2	ACM Asia Programming Contest	6-Dec-01	IIT, Kanpur
3	ACM Asia ICPC Contest	13-Oct-03	IIT, Roorkee
4	ACM International Collegiate Prog. Contest	8-Dec-11	IIT, Kanpur

Details of Talks/ Expert:

- 1) IGNOU Bhopal Centre
- 2) Govt. Gitanjali College, Bhopal
- 3) MACT, Bhopal
- 4) LNCT, Bhopal

- 5) JNCT, Bhopal
- 6) Sagar Group, Bhopal
- 7) IIITDM, Jabalpur

Reviewer:

- 1) Signals and Systems, Elsevier
- 2) IJMNCT International Journal
- 3) International Journal on Adhoc Network Systems
- 4) SCEECS-12, IEEE International Conference, MANIT, Bhopal
- 5) IEEE International Conference on Computer and Communication, Sagar Group, Bhopal
- 6) Journal of Big Data (SCI-E Journal, Impact Factor – 10.852)

Advisory/Programme Committee Member:

- 1) CITIS-11, CSI Bhopal Chapter Convention
- 2) ICC-2012, IEEE International Conference, Sagar Group, Bhopal
- 3) SCEECS-12, IEEE Conference, MANIT, Bhopal
- 4) IACC-13, IEEE International Conference, Ghaziabad

Details Of Foreign Visit:

Participated and Presented Paper at International Conference on Modeling and Simulation MS-05 at Rouen, France. Received **BEST PAPER AWARD** of the conference and year and was Published in AMSE YEAR BOOK. Interactions with various renowned dignitaries and scholars of various international institutions and Universities was remarkable.

18. Administrative Experience :

S.No.	Organization	Post	Nature of Responsibility	Duration		Experience	
				From	To	Year	Month
1	MANIT Bhopal	Dean (AI)	Admin and Teaching	June 2023	Till Date		
2	MANIT Bhopal	HOD, AI	Admin and Teaching	Sept 2022	Till Date		
3	MANIT Bhopal	Head, CSE	Admin and Teaching	Sep 2019	Aug 2022	3	
4	MANIT Bhopal	Chairman, Central Computing Facility	Administration	Sep 2015	Aug 2017	2	
5	MANIT Bhopal	Head CSE	Admin and teaching	Sep 2011	Aug 2015	4	
6	MANIT Bhopal	Co coordinator TEQIP	Project Management	Oct 2010	April 2016	5	6
7	MANIT Bhopal	Chairman Networking	Develop and maintain campus network	Sep 2011	Aug 2015	4	
8	MANIT Bhopal	Nodal Officer NKN and NMEICT	NKN activities	Nov 2010	Till Date	6	8

9	MANIT Bhopal	DRPC Coordinator CSE	PhD and research admn.	Oct 2010	Sep 2011	1	
10	MANIT Bhopal	In-charge VCR	Maintain Virtual Class	Oct 2012	Till Date	4	10
11	Govt. Of MP	Head, State Project Facilitation Unit	Project Management	March 2008	Aug 2010	2	6
12	UIT, RGPV Bhopal	Head, Dept. of CSE/ IT	Admin and teaching	1998	2007	7	
13	UIT, RGPV Bhopal	Superintendent(Controller) Exams	Institute Exam	March 2002	Dec 2006	4	
14	UIT, RGPV Bhopal	Coordinator TEQIP	Project Management	Feb 2002	July 2005	3	6
15	GEC bhopal	TPO	Training and Placement	Jan 1999	April 2000	1	4

19. Book Chapters:

- 1) Barkha Soni, Manish Pandey, **Nilay Khare** “Quantum-Enhanced Algorithmic Advancements for Solving Curse of Dimensionality Problem”, Second International Conference on Computational Intelligence and Network Security (ICCINS, April-2025), NIT Raipur, **Communications in Computer and Information Science (CCIS)** – Springer, (2025).
- 2) Sai Pravallika Palli, Barkha Soni, and Dr. **Nilay Khare**, “Quantum Machine Learning in Cardiovascular Disease Prediction: A Comprehensive Review”, **Lecture Notes in Networks and Systems (LLNS)**, Springer, (2025).
- 3) **Nilay Khare**, Deepak Singh Tomar, Mitul Kumar Ahirwal, Vijay Bhaskar Semwal, Vaibhav Soni, “Machine Learning, Image Processing, Network Security and Data Sciences: 4th International Conference, MIND 2022, Virtual Event, January 19–20, 2023, Proceedings Part I”, **Communications in Computer and Information Science**, Book Series Springer Publications, Vol. 1762 , ISBN: 978-3-031-24352-7 (2023)
- 4) **Nilay Khare**, Deepak Singh Tomar, Mitul Kumar Ahirwal, Vijay Bhaskar Semwal, Vaibhav Soni, “Machine Learning, Image Processing, Network Security and Data Sciences: 4th International Conference, MIND 2022, Virtual Event, January 19–20, 2023, Proceedings, Part II” , **Communications in Computer and Information Science**, Book Series Springer Publications Vol. 1763, ISBN: 978-3-031-24367-7 (2023)
- 5) Hema Dubey, **Nilay Khare**, Prabhat Kumar, “A Novel Approach to Analyse Lung Cancer Progression and Metastasis Using Page Rank Technique”, **Communications in Computer and Information Science**, Book Series Vol. 1762, pages 153-161 (2023)
- 6) Ayush Soni, Akhtar Rasool, Aditya Dubey, **Nilay Khare**, “Visualizing Commenters Opinions Through Topic Analysis” , **Lecture Notes in Networks and Systems**, Book Series Springer Publications Vol. 517, pages 249-257 (2022)
- 7) Vikesh Kumar Gond, Aditya Dubey, Akhtar Rasool, **Nilay Khare**, “Missing Value Imputation Using Weighted KNN and Genetic Algorithm”, **Lecture Notes in Networks and Systems**, Book Series Springer Publications Vol. 517, pages 161-169 (2022)
- 8) Amarjeet Yadav, Akhtar Rasool, Aditya Dubey, **Nilay Khare**, “A Hybrid Approach for Missing Data Imputation in Gene Expression Dataset Using Extra Tree Regressor and a Genetic Algorithm” , **Lecture Notes in Electrical Engineering** , Book Series Springer Publications Vol. 998, pages 127-138 (2022)

- 9) Shriya Sahu, Meenu Chawla, **Nilay Khare**, “Viable Crop Prediction Scenario in BigData Using a Novel Approach”, **Advances in Intelligent Systems and Computing**, Book Series Springer Publications Vol. 813, pages 165–177 (2019)
- 10) Manju Pandey, **Nilay Khare**, S Shrivastava, “Transform for simplified weight computations in the fuzzy analytic hierarchy process” , **Advances in Intelligent Systems and Computing**, Book Series Springer Publications Vol. 182, pages 109-117 (2013)
- 11) Aakanksha Pandey, **Nilay Khare**, String matching technique based on hardware: A comparative analysis, **Advances in Intelligent Systems and Computing**, Book Series Springer Publications Vol. 182, pages 339-347 (2012)

Declaration

I hereby declare that:

1. I am not a defaulter of any previous ICSSR grant.
2. I have neither been subjected to any disciplinary action nor found guilty of any offence in my career.
3. I have not concealed any information in my application. If ICSSR finds any contrary information at any stage, it may cancel the study out rightly and/or impose any penalty as it deems fit.

Place: MANIT Bhopal

Date:

Signature