

Vidwan Expert Database and National Researcher Network [INFLIBNET, MHRD]

- Prof. Seema Verma [Vidwan ID: 131342; <https://vidwan.inflibnet.ac.in/profile/131342>]
SCORE:9.6/10
 - Web of Science Researcher ID: HKM-7298-2023
- Google Scholar Id: 5Gm0VfQAAAAJ
 - Scopus Id: 57208309260
- Orcid ID: https://orcid.org/0000-0001-6299-2576

Achievements:

No. of papers published:

- **Journals:** 80 [SCI=22, SCOPUS = 14, UGC = 07]
- **Conferences (International/National):** 63
- **Total Scopus Publications = 105**

No. of Books published: 06

No. of Book Chapter published: 20 [04 in Scopus listed books]

No. of Conference/Symposia/Workshop attended: 38

- **Conclave:** 01
- **Symposia / Conference:** 25
- **Workshop:** 13

No. of Ph.D awarded: 27

Patent Granted: 03

1. Patent Number 352075 : 1281/del/2011; An improved Method of Data Broadcast in Wireless Environment; Savita Kumari, **Dr. Seema Verma**; Dr. Rakhee [SL no. 011128664, 24th November, 2020]
2. Patent Number 391269: 201911025496[ref. no.], temporary application no. TEMP./E-1/26882/2019-DEL; filing date: 27th June, 2019; A Nanotube Biosensor for DNA and Biomolecule Detection; Anubha Goel, **Dr. Seema Verma**, Sonam Rewari, RC Gupta [Date of Grant: 07/03/2022]
3. Patent Application Number : 100/del/2012; FILING DATE: 01/01/2012, Improved Real Time Analysis for Securing Web Server; Amity University as Applicant, Inventors: **Dr. Seema Verma**, Mrs Tanya Singh [Patent Granted, No. 427656, Date of Patent Grant: 30/03/2023]

4. Patent Application Number: 201911030848[ref. no.]; filing date: 31st July, 2019; published in The Patent Office Journal No. 34/2019 Dated 23/08/2019; “Improved Routing Scheme for Airborne Ad-hoc Networks”; Banasthali Vidyapith, Pardeep Kumar, Dr. Seema Verma, Ms. Monika [Status: Granted]

Patent Published/filed: 13

5. Patent Application Number: 201911023674[ref. no.] published in Patent Journal Number-27/2019, Journal Date-05/07/2019; filing date: 14th June, 2019; A cost-effective smart solution to drivers’ situational awareness on Indian Roads; Rishu, Dr.Seema Verma, Dr. Ramakrishna Challa [Status: FER reply filed, Application under Amended Examination]

6. Patent Application Number: 202111019641, filing date: 28/05/2021: “An Improved Routing Algorithm for Flying Adhoc Networks [FANETs]”, Banasthali Vidyapith, Dr. Anshuman Shastri, Dr. Seema Verma, Amrita, [Status: Reply not Filed Deemed to be abandoned U/s 21(1)]

7. Patent Application Number: 202111031725[ref. no.]; filing date: 14th July, 2021; “A novel system for Diabetic Foot Ulcer (DFU) Classification using Deep Learning Framework and Embedded GPU”, Banasthali Vidyapith, Dr. Seema Verma & Madhava Prabhu S [Status: Reply Filed. Application in amended examination]

8. Design Patent: NANO PORTABLE INTENSIVE CARE UNIT Application Number: **352279-001**; CBR no.: 209288; CBR Date: 12/10/2021; Applicant’s Name: CHITKARA INNOVATION INCUBATOR FOUNDATION team, SN Panda, **Seema Verma**; [Status: Application Accepted, Design Accepted and Published, Journal No is 03/2023 and Journal Date is 20/01/2023]

9. Adaptive Quantum Error Correction using Artificial Intelligence Techniques (Application No.: 202111045821) dated 8th October, 2021. **Seema Verma**, Rakesh, Savita Sheoran.

10. Patent Application Number: 202211011700[ref. no.]; filing date: 3rd March, 2022; Improved Aviation Safety Prediction Techniques”, Banasthali Vidyapith, Pardeep Kumar, Dr. Seema Verma, Monika. [Reply Filed. Application in amended examination]

11. Patent Application Number: 202211069854[ref. no.]; filing date: 5th Dec, 2022; Aviation MRO: A case study of social Psychology Elements of Human

FactorAffecting Work Performance”, Kamal Jaiswal, **Dr. Seema Verma**, Balgopal Singh.

12. Patent Application Number: 202211072105 [ref. no.]; **filings date:** 14/12/2022; **Publication Date:** 30/12/2022; “AN AMALGAMATED PREDICTION METHOD FOR BREAST CANCER DETECTION USING FUZZY FEATURES”, Banasthali Vidyapith, Dr. Seema Verma, Dr. Rajesh Kumar, Dr. Smita Jhajharia, Dr. Manisha Jailia, Dr. Manisha Agarwal. [Status: Reply Filed. Application in amended examination.]

13. Inventor: Dr. Seema Verma Dr. Vimlesh Tanwar Dr. Kamal Jaiswal Mr. Aashutosh Mishra

Application No: 202311012533

Title: Virtual Avionics Maintenance Training Method for Providing Training of Aircraft Maintenance to An Aircraft Maintenance Officer

[Filed Date: 24-02-2023]

[Published Date: 17-03-2023]

[Online Status: Awaiting Request for Examination]

14. Inventor: Dr. Pooja Asopa Dr. Trilok Chand Avasthi Mr. Jay Y Patel Prof. Seema Verma

Application No: 202311014538

Title: Electronic Framework For Speaking And Understanding Sanskrit

[Filed Date: 03-03-2023]

[Published Date: 17-03-2023]

[Online Status: Awaiting Request for Examination]

15. Inventor: Prof. Seema Verma Dr. Sandhya Gupta

Application No: 202311019116

Title: Deriving Psychological State Assessment Of Student Via Behaviour Patterns Using Artificial Intelligence

[Filed Date: 21-03-2023]

[Published Date: 12-05-2023]

[Online Status: Awaiting Request for Examination]

16. Banasthali Vidyapith, Seema Verma, “ Non Invasive Glucose Monitoring System

17. Seema verma, Sandhya Gupta

Copyrights Granted/Registered [14] & Filed [03]

- 1. Diary Number:** L-135207/2023; **Class of Work:** Literary/Dramatic; **Title of Work:** Questionnaire for Ph.D thesis in Aircraft Maintenance Organization Management; **Applicant Name:** Deepak Chandra Chandola, Kamal Jaiswal, Prof. Seema Verma [STATUS-REGISTERED on 02nd November, 2023]
- 2. Diary Number:** 9082/2019-C0/L; **Class of Work:** Literary/Dramatic; **Title of Work:** A study of operational challenges of managers in aircraft maintenance organization in a globalized regulatory environment.; **Applicant Name:** Kamal Jaiswal, Prof. Seema Verma, Dr. Balgopal [STATUS-REGISTERED on 29th July, 2019]

3. **Diary Number:** 9984/2019-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Driver Behaviour and Road status detection and Dissemination using Smartphones; **Applicant Name:** Rishu Chabra, **Dr. Seema Verma**, Dr. C. Ramakrishna[**STATUS-REGISTERED on 19th Sept, 2020**]
4. **Diary Number:** 54201/2014-C0/L; **Class of Work:** Literary/ Dramatic; **Title of Work:** A Frequency Domain Parallel Algorithm for Reed - Solomon Decoding with VLSI Implementation; **Applicant Name:** DR. SEEMA VERMA, MR. SANJEEV KUMAR [**STATUS-REGISTERED**]
5. **Diary Number:** 53800/2014-C0/L; **Class of Work:** Literary/ Dramatic; **Title of Work:** SWSN Code; **Applicant Name:** SEEMA VERMA, PRACHI [**STATUS-REGISTERED**]
6. **Diary Number:** 10087/2019-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Hardware Implementation of Airborne Optimized Link State Routing Protocol; **Applicant Name:** Pardeep Kumar, **Dr. Seema Verma** [**STATUS-REGISTERED on 01st November, 2019**]
7. **Diary Number:** 9898/2019-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Airborne Optimized Link State Routing Protocol; **Applicant Name:** Pardeep Kumar, **Dr. Seema Verma**[**STATUS- REGISTERED on 08th November, 2019**]
8. **Diary Number:** 3452/2020-C0/SW; **Class of Work:** Computer Software; **Title of Work:** Weighted Fuzzy Spatial Association Rules Miner for Wasteland Reclamation for Agriculture; **Applicant Name:** Dr. Mainaz Faridi, Dr. Seema Verma, Prof. Saurabh Mukherjee [**STATUS-REGISTERED on 1st June, 2020**; SW-13476/2020]
9. **Diary Number:** 5103/2020-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Nanotube MOSFET based Bio-Sensor; **Applicant Name:** Anubha Goel, **Dr. Seema Verma**, Dr. R.S.Gupta, Sonam [**STATUS- REGISTERED on August, 2020**, SW-13543/2020]
10. **Diary Number:** 5085/2020-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Dual-Metal Junctionless Accumulation Mode Overlap MOSFET for High Frequency Applications; **Applicant Name:** Anubha Goel, **Dr. Seema Verma**, Dr. R.S.Gupta, Sonam [**STATUS- REGISTERED on August, 2020**; SW-13633/2020]
11. **Diary Number:** 5098/2020-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Dual-Metal Junctionless Nanotube FET; **Applicant Name:** Anubha Goel, **Dr. Seema Verma**, Dr. R.S.Gupta, Sonam [**STATUS- REGISTERED on August, 2020**; SW-13632/2020]
12. **Diary Number:** 5101/2020-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Triple-Metal Gate All Around Based Bio-Sensor; **Applicant Name:** Anubha Goel, **Dr. Seema Verma**, Dr. R.S.Gupta, Sonam [**STATUS- REGISTERED on August, 2020**; SW-13641/2020]
13. **Diary Number:** 1825/2020-C0/SW; **Class of Work:** Computer Software works; **Title of Work:** Temperature Dependent Gate Induced Drain Leakage Assessment using Dual Metal Nanowire Field Effect Transistor; **Applicant Name:** Anubha Goel, **Dr. Seema Verma**, Dr. R.S.Gupta, Sonam[**STATUS- REGISTERED on October, 2020**]
14. **Diary Number:** 6775/2020-C0/L; **Class of Work:** LITERARY/ DRAMATIC WORK; **Title of Work:** CUSTOMER SATISFACTION SURVEY REGARDING DIGITAL BANKING & FINANCIAL SERVICES; **Applicant Name:** Dr. Suruchi Sharma, **Dr. Seema Verma**, Brijesh Verma[**STATUS- REGISTERED on October, 2020**; registration no. L-95999/2020]
15. **Diary Number:** 9979/2019-C0/L; **Class of Work:** Literary/Dramatic; **Title of Work:** Factors for Intelligent Transportation Systems for Highway Driving; **Applicant Name:** Rishu Chabra, **Dr. Seema Verma**, Dr. C. Ramakrishna [Pending for Hearing]

16. Diary Number: 12615/2019-CO/SW ; **Class of Work:** Computer Software works; **Title of Work:** Hybrid Probabilistic Triple Encryption Technique; **Applicant Name:** Vartika Kulshrestha, **Dr. Seema Verma**, Dr. C. Ramakrishna [Re-scrutiny]

17. Diary Number: 1060/2015-CO/SW; **Class of Work:** Computer Software; **Title of Work:** Hardware Implementation of Pattern Matching Algorithm (Aho- Corasic Cache Algorithm) to Detect Malicious Packets Using Field Programmable Gate Array (FPGA); **Applicant Name:** Dr. Seema Verma, Tanya Singh[Abandoned]

18. Diary Number: 3784/2021-CO/L; **Class of Work:** Literary/Dramatic; **Title of Work:** Questionnaire Farmer Knowledge & Usage of Information Communication & Technology; **Applicant Name:** Surabhi Solanki, **Dr. Seema Verma**, Kishore Chahar

Projects Sanctioned/completed: 3

| S.No. | Project Title | Duration | Funding Agency |
|-------|--|------------------------------|---|
| 1. | Performance Education of Turbo Codes | 2 Years (2000-02) | All India Council of Technical Education, New Delhi |
| 2. | Quality of service in wireless sensor networks: issues and graph theoretic solutions (worth Rs. 11,95,800/-) | 3 years (2012-15) | UGC, India |
| 3. | Bachelor of Science [Aviation Science] under innovative course scheme (worth 60 Lakhs approx) | 5 Years (2013-2018) | UGC, India |
| 4. | “An Improved ML Algorithmic approach for UAV based rice crop and weed discrimination system using Spectral Imaging” Under DST ASEAN-India Collaborative R & D Scheme | 02 Year (2021-23) | DST, India |
| 5 | AICTE IDEA Lab 2024 [2024-26] | 90 lakhs [Granted] | AICTE |
| 6 | Drone Proposal to MoE | 05 years, 25 Cr [submitted] | MoE, GOI |
| 7. | Advancing National Competitiveness: Skilling Students in Semiconductor Technology and Packaging, submitted to NITTTR Bhopal for internal funding | 20 lakhs [Granted] 2025-2027 | NITTTR Bhopal |
| 8. | Centre for Innovation in Outsourced Semiconductor Assembly and Testing (OSAT) | 29.50 Cr. [Submitted] | MoE, Govt. of India |
| 9. | Centre of Excellence for Outsourced Semiconductor Assembly and Testing (CoE for OSAT) | 24.70 Cr [Submitted] | Ministry of Skill Development and Entrepreneurship, GoI |

UGC Refresher Course: 01

ATAL FDP Course: 03

M.Tech Guided: 10(one year UIL project)

Member of Editorial Board: Twenty Seven International Journals [of impact factor]