



Scholarly Activities Report



Scholarly Activities Report

October 2021 - December 2021

| KEY STATISTICS | | | | | | | | | | | | |
|------------------|--|-----------|-----------|-------------------------|-----------|-----------|-----------|----------|---|-----------|-----------|----------|
| Schools/Dept. | Journal/Conference/Patents Publications at a glance: Oct 2021 - Dec 2021 | | | | | | | | Yearly Data Till Date (Cycle July 2021 - June 2022) | | | |
| | Journal Publications | | | Conference Publications | | | Patents | | Journals | Confs | Patents | |
| | WOS | SCOPUS | Other | WOS | SCOPUS | Other | Published | Granted | | | Published | Granted |
| SOC | 8 | 1 | 1 | - | 11 | 9 | 2 | 1 | 18 | 25 | 9 | 1 |
| SOPPHI | 7 | 1 | 2 | - | - | - | 5 | - | 15 | - | 7 | - |
| SOAD | - | - | 1 | - | - | - | - | - | 1 | - | - | - |
| SOPS-Physics | - | 6 | - | - | - | - | - | - | 7 | 1 | 2 | - |
| SOPS-Chemistry | 1 | - | - | - | - | - | - | - | 3 | - | - | - |
| SOPS-Mathematics | 4 | 2 | - | - | - | 1 | - | - | 7 | - | - | - |
| SOET-EECE | 9 | - | 1 | - | - | 2 | - | - | 21 | 1 | 2 | - |
| SOET-ME | 5 | - | - | - | 1 | - | 3 | - | 11 | 1 | 2 | - |
| SOET_CE | - | - | 1 | - | - | - | - | - | 1 | - | - | - |
| SOET-PE | 1 | - | - | - | - | 1 | 1 | - | 2 | - | 1 | - |
| SOLAM-Humanities | - | - | 4 | - | - | - | - | - | 4 | - | - | - |
| SOLAM-Management | - | 3 | - | - | - | - | - | - | 4 | - | - | - |
| Total | 35 | 13 | 10 | 0 | 12 | 13 | 11 | 1 | 94 | 28 | 23 | 1 |

I. ACTIVE SEED PROJECTS UNDERTAKEN AT DIT UNIVERSITY

SCHOOL OF ARCHITECTURE AND DESIGN

Dr. Aanchal Sharma

1. **Project title:** A comparative evaluation of roofing systems thermal performance in the composite climate of Dehradun, **PI:** Dr. Aanchal Sharma, **CO-PI:** Er. Harsh Goyal, **Funding Agency:** DIT University, Seed Money, **Amount Sanctioned:** 1.90 Lakhs, **Current Status:** On-Going, **Duration:** 1 Year, **Approx. Completion Date:** March 2022.

DEPARTMENT OF EECE

Dr. Amrindra Pal and Kuldeep Choudhary

2. **Project Title:** Design Development and Prototyping of Active Denial System for Indian Railways Unmanned Railway Crossings, **PI:** Amrindra Pal **Co-PI:** Kuldeep Chaudhary **Funding Agency:** DIT University, **Amount Sanctioned-**4.80 Lakhs (INR) **Status:** On going, **Approx. Completion Date:** March 2022.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray R. Chitme

3. **Project Title:** Characterization of Proteins Expressed by Stressed Granulosa Cells, **PI:** Dr. Havagiray R. Chitme, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 1.72 Lakhs, **Current Status:** On-going, **Duration-**1 Year, **Approx. completion date:** March 2022.

Dr. Arvind Negi

4. **Project Title:** Addressing bacterial antibiotic resistance: Identification and exploration of new druggable antibiotic targets, **PI:** Dr. Arvind Negi, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 1.59100 Lakhs, **Current Status:** On-going, **Duration-**1 Year, **Approx. completion date:** March 2022.

Dr. Ashok Behra

5. **Project Title:** Synthesis, characterization and In-vitro evaluation of new 5FU-Octreotideconjugates for targeted chemotherapy, **PI:** Dr. Ashok Behra, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2 Lakhs, **Current Status:** On-going, **Duration-**1 Year, **Approx. completion date:** March 2022.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Rakesh Kumar Pandey

6. **Project Title:** Optimized Deep Learning Implementation for Improving the Performance of Upstream Petroleum Operations, **PI:** Mr. Rakesh Kumar Pandey, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** To be supported by centralized GPU computing systems, **Current Status:** On-going, **Duration-**1 Year, **Approx. completion date:** March 2022.

II. ACTIVE EXTERNAL SPONSORED RESEARCH PROJECTS

SCHOOL OF ARCHITECTURE AND DESIGN

Dr. Aanchal Sharma

1. **Project title:** Thermo - physical evaluation of traditional and contemporary building envelope constructions for developing adaptive model for thermal comfort of naturally ventilated and mixed mode residential buildings, **PI:** Aanchal Sharma, **CO-PI:** Dr. Ashok Kumar, **Funding Agency:** TARE – DST SERB, **Amount Sanctioned:** Rs. 15 Lakhs, **Duration:** 3 years, **Currentstatus:-** on-going, **Approx.completion date:-** March 2024.

DEPARTMENT OF EECE

Dr. Santosh Kumar

2. **Project Title:** “Modeling and design of all-optical switching devices for DWDM system and sensors for health monitoring system using metal-insulator-metal plasmonic waveguides” **PI:** Dr. Santosh Kumar, **Funding Agency:** SERB (DST), **Amount Sanctioned:** - Rs. 18.30 Lakhs, **Duration:** - 3 year, **Currentstatus:** - on-going, **Approx.completion date:** -

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray Chitme

1. **Project Title:** Key Biomarkers Differentially Expressed in Cumulus and Mural Cells of Polycystic Ovary Syndrome (PCOS) Patients, **PI:** Dr. Havagiray Chitme, **Amount Sanctioned:** 10,000 Euros, **Funding Agency:** Bayer AG, Drug Discovery – Alliance Management, Germany Focus Research, **Duration:** 1 Year, **Current status:** On-going, **Approx. completion date:** 2022.

Dr. Neeraj kr. Sethiya

3. **Project Title:** Scouting and Documentation of Grassroots Technological Innovations, Novel Agricultural Practices and Outstanding Traditional Knowledge from Remote Villages in Tehri Garhwal District, Uttarakhand, India. **PI:** Dr. Neeraj kr. Sethiya, **Funding Agency:** National Innovation Foundation-India, Department of Science and Technology,

Govt. of India, **Amount Sanctioned:** - Rs. 3.58 Lakhs, **Duration:** - 1 Year, **Current status:** - on-going, **Approx. completion date:** - March 2022.

Dr. Ashok Behera

- Project Title:** Synthesis, Characterization and biological evaluation of smart novel nannotheranostic for cancer **PI:** Dr. Ashok Behera, **Funding Agency:** TARE-SERB, **Amount Sanctioned:** - Rs. 15 Lakhs, **Duration:** - 3 Year, **Current status:** - on-going, **Approx. completion date:** - March 2023.

DEPARTMENT OF CHEMISTRY

Dr. Jabrinder Singh

- Project Title:** Appraisal of environmental streamflow of Rispana with reference to spatio- temporal variation of water quality index and catchment potential, **PI:** Dr. Jabrinder Singh, **Co-PI:** Dr. Naveen Singhal & Dr. Arti Chaturvedi, **Funding agency:** UCOST (DST) Govt. Of Uttarakhand, **Amount Sanctioned:** Rs. 4.05 Lakhs. **Duration:** 1 Year, **Approx. completion date** - June 2022.

III. SUBMITTED EXTERNAL SPONSORED RESEARCH PROJECTS (BETWEEN OCTOBER 1-DECEMBER 31)

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray R. Chitme

- Project Title:** Gene Ontology and Signaling Mechanism of Follicular Fluid Proteins in Pathogenesis of Polycystic Ovary Syndrome, **PI:** Havagiray R. Chitme, **CO PI:** Dr. Dhirodatta Senapati & Dr. Debasish Manna, **Funding agency:** CRG-SERB-DST, **Project Amount:** 38.77500 Lakhs, **Status:** Under Review.

DEPARTMENT OF PHYSICS

Dr. Ravi K. Shukla

- Project Title:** Reduced Graphene oxide/ Graphene Oxide Aqueous and Nonaqueous Lyotropic Liquid Crystals for Energy Storage and Biometric Applications, **PI:** Dr. Ravi K. Shukla, **Co-PI:** Dr. K. K. Raina, **Funding Agency:** SERB, **Project Amount:** 42 Lakhs, **Duration:** 3 Years, **Current Status:** Under Review.

Dr. Anil Kumar Thakur

- Project Title:** Voltage Controlled Configurable Nanoarrays in Nematic Liquid Crystals (VCCNNLC), **PI:** Dr. Anil Kumar Thakur, **Co-PI:** Dr. K. K. Raina, **Funding Agency:** SERB, **Project Amount:** 48.5 Lakhs, **Duration:** 3 Years, **Current Status:** Under Review.

Dr. Samta Manori

9. **Project Title:** Development of Double Perovskite thin films as electrode material for Solid Oxide Fuel Cell, **PI:** Dr. Samta Manori, **Co-PI:** Dr. Ramesh Chandra, **Funding Agency:** SERB, **Project Amount:** 35 Lakhs, **Duration:** 3 Years, **Current Status:** Under Review.

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. Manoj Kumar

10. **Project Title:** Charging and discharging characteristics of finned-tube sensible energy storage system, **PI:** Dr. Manoj Kumar, **Co-PI:** Dr. Anil Kumar Patil, **Funding Agency:** CRG-SERB, **Project Amount:** 8.4 Lakhs, **Duration:** 2 Years, **Current Status:** Under Review.

IV. PUBLICATIONS

a) RESEARCH PAPERS (IN REFEREED JOURNALS) (BETWEEN OCTOBER 1-DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Abhilasha Pathak & Dr. Aanchal Sharma

1. **A. Pathak**, S. K Mishra, **A. Sharma**, "Appraising Materials and their Remedial Measures for the Preservation of Heritage Assemblies", *NVEO-Natural Volatiles & Essential Oils Journal*, Volume 8 Issue 4, (Q3 Category Journal), <https://www.nveo.org/index.php/journal/article/view/1422/1229>, **Nov 2021**.

DEPARTMENT OF EECE

Dr. Amrindra Pal

2. S. Sarker, K. F. Al-Tabatabai, **A. Pal**, D. Vigneswaran, M. A. Arefin, and Md. K. Islam "D-shape photonic crystal fiber for optical coherence tomography: design and analysis," *Optical Engineering* 60, issue-12, 127109. <https://doi.org/10.1117/1.OE.60.12.127109> [**Indexed in Web of Science**], [IF: 1.084], Dec 2021.

Dr. Santosh Kumar

3. B. Kaur, **S. Kumar**, B. K. Kaushik, "Recent advancements in optical biosensors for cancer detection," *Biosensors and Bioelectronics*, Vol. 197, 113805 DOI: <https://doi.org/10.1016/j.bios.2021.113805> [**Indexed in Web of Science**], [IF: 10.618] Nov 2021.

4. N. Mishra, B. P Pandey, B. Kumar, **S. Kumar**, "Enhanced electronic and magnetic properties of N₂O gas adsorbed Mn-doped MoSe₂ monolayer," *IEEE Transactions on Electron Devices*, pp. 1-8, DOI: <https://doi.org/10.1109/TED.2021.3116929>, **[Indexed in Web of Science]**, **[IF: 2.917]**, Oct 2021.
5. N. H. Priya, S. Swarnakar, S. V. Krishna, **S. Kumar**, "Design and analysis of a photonic crystal-based all-optical 3-input OR gate for high-speed optical processing," *Optical and Quantum Electronics*, volume 53, Article number: 720, E-ISSN-1572-817X DOI: <https://doi.org/10.1007/s11082-021-03374-0> **[Indexed in Web of Science]**, **[IF: 2.084]**, Dec 2021.
6. V. S. Chaudhary, D. Kumar, **S. Kumar**, "SPR assisted photonic crystal fiber based dual-wavelength single polarizing filter with improved performance," *IEEE Transactions on Plasma Science*, DOI: [10.1109/TPS.2021.3126671](https://doi.org/10.1109/TPS.2021.3126671) **[Indexed in Web of Science]**, **[IF: 1.222]**, Nov 2021.
7. G. P. Mishra, D. Kumar, V. S. Chaudhary, **S. Kumar**, "Design and sensitivity improvement of microstructured-core photonic crystal fiber based sensor for methane and hydrogen fluoride detection," *IEEE Sensors Journal*, pp. 1-8 DOI: [10.1109/JSEN.2021.3131694](https://doi.org/10.1109/JSEN.2021.3131694) **[Indexed in Web of Science]**, **[IF: 3.301]**, Nov 2021.
8. G. Zhu, Y. Wang, Z. Wang, Ragini Singh, C. Marques, Q. Wu, B. K. Kaushik, R. Jha, B. Zhang, **S. Kumar**, "Localized plasmon based multicore fiber biosensor for acetylcholine detection," *IEEE Transactions on Instrumentation and Measurement*, pp. 1-8 DOI: [10.1109/TIM.2021.3133335](https://doi.org/10.1109/TIM.2021.3133335) **[Indexed in Web of Science]**, **[IF: 4.016]**, Dec 2021.
9. P. S. Pandey, S. K. Raghuwanshi, **S. Kumar**, "Recent advances in two-dimensional materials-based Kretschmann configuration for SPR sensors: A Review," *IEEE Sensors Journal*, pp. 1-8, DOI: [10.1109/JSEN.2021.3133007](https://doi.org/10.1109/JSEN.2021.3133007) **[Indexed in Web of Science]**, **[IF: 3.301]**, Dec 2021.
10. N. K. Agrawal, R. Saxena, L. Singh, C. Saha & **S. Kumar**, "Recent advancements in plasmonic optical biosensors: a review," *ISSS Journal of Micro and Smart Systems*, Print ISSN: 2509-7989, DOI: <https://doi.org/10.1007/s41683-021-00079-0>, Nov 2021.

Dr. Nafees Ahamad and Dr. Gagan Singh

11. **N. Ahamad**, A. Sikander, **G. Singh**, "Order Diminution and its Application in Controller Design using Salp Swarm Optimization Technique", *Int J Syst Assur Eng Manag* (2021), <https://doi.org/10.1007/s13198-021-01367-6>, **[Indexed in Web of Science]**, Oct 2021.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Sanjeev Kumar & Dr. Ajay Kumar Singh

12. S. Kumar, F. Pattanaik, and A. K. Singh, "Modeling Trade–Employment Elasticity Nexus: Evidence from India," *Emerging Economy Studies* [Sage Publication], Vol. 7, no. 1, pp. 62-75, ISSN 2394-9015, DOI: <https://doi.org/10.1177/239490152111057927>, Dec 2021.

13. S. Kumar, F. Pattanaik, A. K. Singh, and M. K. Pedi. "A Comparative Analysis of Employment Intensity of Growth in South Asian Countries." *Indian Journal of Industrial Relations*, Vol. 57, no. 2, pp. 189-204, ISSN 0019-5286, DOI: <http://www.publishingindia.com/ijir/22/a-comparative-analysis-of-employment-intensity-of-growth-in-south-asian-countries/31939/66370/>, Oct 2021.

Dr. Ram Kumar Gupta

14. A. Gupta and R. K. Gupta, "A literature review on behavioral attributes of yoga postures and cognition, " *Yoga Mimamsa*, Vol. 53, no. 2, pp. 141-144, ISSN 0044-0507, DOI: <https://www.ym-kdham.in/text.asp?2021/53/2/141/333356> Dec. 2021.

Dr. Deepesh Kumar Thakur

15. D. K. Thakur, "English is used as a lingua-franca in the world for the social and economic exchange between people of different communities & culture", *Quest Journals, Journal of Research in Humanities and Social Science*, Vol. 9, no. 10, pp. 05-10, ISSN 2321-9467, <http://www.questjournals.org/jrhss/v9-i10.html> , Oct 2021.

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. Anil K. Patil & Dr. Manoj Kumar

16. P. Joshi, A. K. Patil, M. Kumar, "Pool Boiling Heat Transfer Enhancement Using Perforated Twisted Tape Fins," *ASME. J. Thermal Sci. Eng. Appl.*, 14(6): 064501, DOI: <https://doi.org/10.1115/1.4052341> [Indexed in Web of Science], [I.F.-1.47], Oct 2021.

Dr. Ravi Kumar, Dr. Anil K. Patil and Dr. Manoj Kumar

17. R. Kumar, M. Kumar, A.K. Patil, "Capacity factor characteristics for a multi-tubular sensible energy storage system with wire coil inserts," *Int J Energy Res.* 2021; 1- 10, <https://doi.org/10.1002/er.7447> [Indexed in Web of Science], [I. F. - 5.164], Nov 2021.

Dr. Manoj Kumar

18. P. Samruaisin, V. Chuwattanakul, M. Pimsarn, P. Promthaisong, P. Saysroy, S. Chokphoemphun, **M. Kumar**, S. Eiamsa-ard, "Heat transfer characteristics of a swirling impinging air jet emerging from a triple spiral-corrugated nozzle with a twisted tape installed," *Case Studies in Thermal Engineering*, 28, 101662. DOI: <https://doi.org/10.1016/j.csite.2021.101662> [Indexed in Web of Science], [I.F. - 4.724], Dec 2021.

Dr. Anshuman Das

19. **A. Das**, S. Pradhan, S. R. Das, M. S. Alsoufi, A. M. M. Ibrahim and A. Elsheikh, "Performance Assessment and Chip Morphology Evaluation of Austenitic Stainless Steel under Sustainable Machining Conditions," *Metals*, Vol. 11, no. 1, pp. 1-23, ISSN 2075-4701, DOI: <https://doi.org/10.3390/met11121931> [Indexed in Web of Science], [IF-2.351], Nov 2021.

Mr. R. Rajan and Dr. Yogesh Kumar Tyagi

20. **R. Rajan**, **Y. K. Tyagi**, Sudhanshu Singh, "Waste and natural fiber based automotive brake composite materials: Influence of slag and coir on tribological performance," *Polymer Composite*, DOI: <https://doi.org/10.1002/pc.26471> [Indexed in Web of Science], [IF-3.171], Dec 2021.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (MANAGEMENT)

Ms. Deepshi Garg & Dr. Prakash Tiwari

21. **D. Garg**, **P. Tiwari**, "Impact of social media sentiments in stock market predictions: A bibliometric analysis." *Business Information Review*, Vol. 38 Pages. (4):170-182. <https://doi.org/10.1177/02663821211058666> [Indexed in Scopus], Nov 2021.

Dr. Vijay Kumar Jain & Dr. Preeti Sharma

22. **K.V. Jain**, Arya, V. & **P. Sharma**, "Social Media and Sustainable Behavior: A Decision-Making Framework Using Interpretive Structural Modeling (ISM)," *Journal of Content, Community & Communication*, Vol 14 (7) ISSN: 2395-7514, DOI: <https://doi.org/10.31620/JCCC.12.21/07>. [Indexed in Scopus], Dec 2021.

Dr. Vijay Kumar Jain & Dr. Hemraj Verma

23. **A. Gupta**, **V. K. Jain**, **H. Verma**, & V. Arya, "Consumer Green Consumption Behavior: A Myth or Reality in the Information Age? A Study Based on Bibliometric Analysis Approach," *Information Resources Management Journal*, Vol 35 (2) ISSN: 1040-1628: DOI: <https://doi.org/10.4018/IRMJ.291690>. [Indexed in Scopus], Nov 2021.

DEPARTMENT OF MATHEMATICS

Dr. Dheeraj Kumar Joshi

24. Manickam, A., Kumar, P., Dasunaidu, K., V. Govindaraj, **D. K. Joshi**, "A stochastic SIR model for analysis of testosterone suppression of CRH-stimulated cortisol in men." *International Journal of Modeling, Simulation, and Scientific Computing*, 2250021. <https://doi.org/10.1142/S1793962322500210> [Indexed in Web of Science], Oct 2021.

Dr. Dheeraj Kumar Joshi & Dr. Natasha Awasthi

25. **D. K. Joshi**, N. Awasthi, & S. Chaube "Probabilistic hesitant fuzzy set based MCDM method with applications in Portfolio selection process". *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.12.52> [Indexed in Scopus], Dec 2021.

Dr. Sandeep Sharma & Dr. Fateh Singh

26. N. Kumari, S. Kumar, **S. Sharma, F. Singh**, R. Parshad, "Basic reproduction number estimation and forecasting of COVID-19: A case study of India, Brazil and Peru," *Communications on Pure & Applied Analysis*, <https://doi.org/10.3934/cpaa.2021170>. [Indexed in Web of Science], Oct 2021.

Dr. Naresh Mohan Chadha

27. S. Raut, A. Roy, K. K. Mondal, P. Chatterjee & **N. M. Chadha**, "Non-stationary Solitary Wave Solution for Damped Forced Kadomtsev–Petviashvili Equation in a Magnetized Dusty Plasma with q-Nonextensive Velocity Distributed Electron," *International Journal of Applied and Computational Mathematics*, SPRINGER Article number: 223 (2021), [Indexed in Scopus], DOI: <https://doi.org/10.1007/s40819-021-01168-2>, Nov 2021.

Mr. Awadhesh K Pandey

28. **A. K. Pandey**, G. N. Singh, D. Bhattacharyya, A. Q. Ali, S. Al-Thubaiti, H. A. Yakout "Some Classes of Logarithmic-Type Imputation Techniques for Handling Missing Data" *Computational Intelligence and Neuroscience*, ISSN: 1687-5273 (Online), DOI: <https://doi.org/10.1155/2021/8593261>. [Indexed in Web of Science], [IF-3.633], Dec 2021.
29. D. Bhattacharyya, G. N. Singh, T M. Jawa, N. Sayed-Ahmed, **A. K. Pandey** " An Exponential-Cum-Sine-Type Hybrid Imputation Technique for Missing Data" *Computational Intelligence and Neuroscience*, ISSN: 1687-5273 (Online), DOI: <https://doi.org/10.1155/2021/4845569>. [Indexed in Web of Science], [IF-3.633], Dec 2021.

DEPARTMENT OF CIVIL ENGINEERING

Mr. Harsh Goyal

30. H. Goyal, K. Thakkar, G. C. Ram, LS Thakur, M. Saxena, Nikhil. T. R, "Ground Water Recharging and Reducing Water Logging Condition Using Pervious concrete", *Design Engineering*, Issue, no 9, pp. 3208-3225, ISSN 0011-9342, <https://thedesigengineering.com/index.php/DE/article/view/7298>, Dec 2021.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Rakesh K. Pandey & Dr. Anil Kumar Dahiya

31. R. K. Pandey, A. Kumar, A. K. Pandey, and A. Mandal, "Optimized deep learning model assisted pressure transient analysis for automatic reservoir characterization", *Petroleum Science and Technology*, ISSN 1532-2459, DOI: <https://doi.org/10.1080/10916466.2021.2007122> [Indexed in Web of Science], [IF-1.268], Dec 2021.

SCHOOL OF PHARMACEUTICAL & POPULATION HEALTH INFORMATICS

Dr. Jagannath Sahoo

32. N. Yadav, A. Mittal, J. Ali, J Sahoo "Current updates in transdermal therapeutic systems and their role in neurological disorders, Current Protein and Peptide Science," *Bentham Science*, Vol. 22 Issue 6 pg 458-469.. <https://doi.org/10.2174/1389203721999201111195512>, Nov 2021.

Dr. Mandeep Kumar Arora, Ms. Ritu Tomar & Dr. Jagannath Sahoo

33. M. K. Arora, P. Grover, S. M. B. Asdaq, L. Mehta, R. Tomar, M. Imran, A. Pathak, A. Jangra, J. Sahoo, A. S. Alamri, W. F. Alsanie, M. Alhomrani, "Potential role of nicotinamide analogues against SARS-COV-2 target proteins", *Saudi journal of biological sciences*, Vol.28, Issue 12, pgs. 7567- 7574, Elsevier. <https://doi.org/10.1016/j.sjbs.2021.09.072> [Indexed in Web of Science], [IF: 4.219], Dec 2021.

Dr. Jagannath Sahoo

34. R. K. Gupta, Swain, S. Ranjan; J. Sahoo, S. Chaudhary, U.S. Sara, "Comparative antioxidant and hepatoprotective potential quercetin and corycavidine from *Hedyotis corymbosa* (L.) Lam. and *Solanum xanthocarpum* Schrad & Wendl" *Indian Journal of Experimental Biology*, Vol. 58 pgs. 776-784, ISSN: 0975-1009, <http://op.niscair.res.in/index.php/IJEB/article/view/56831> [Indexed in Web of Science], [IF: 0.818], Nov 2021.

Mr. Himasa Faiza Idris, Dr. Manmohan Singhal & Dr. Bhavna Kumar

35. F. I. Himasa, M. Singhal, A. Ojha, B. Kumar, "Prospective for diagnosis and treatment of diabetic retinopathy", *Curr Pharm Des*, DOI: <https://doi.org/10.2174/1381612827666211115154907>. Online ahead of print [Indexed in Web of Science], [IF:3.116]. Nov 2021.

Dr. Mandeep Kumar Arora

36. A. Jangra, V. Chadha, D. Kumar, V. Kumar, M. K. Arora, "Neuroprotective and acetylcholinesterase inhibitory activity of plumbagin in ICV-LPS induced behavioral deficits in rats", *Current Research in Behavioral Sciences*, Vol. 2, 100060, ISSN 2666-5182, DOI: <https://doi.org/10.1016/j.crbeha.2021.100060>, Nov 2021.

Dr. Manmohan Singhal

37. M. Singhal A, Penchala SK, Rane D, Mohammad MM, Alshar, E M, Sahu DN, " Study on Network on Transmission of Infectious Diseases in Hospitals," *International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)*, Vol. 10, no. 11, pp. 1048-1058, ISSN: 2277-4998, DOI: [10.31032/IJBPAS/2021/10.11.1090](https://doi.org/10.31032/IJBPAS/2021/10.11.1090). [Indexed in Web of Science], [IF=1.709], Nov. 2021.

Dr. Md. Habban Akhter

38. Md. H. Akhter, H. Khalilullah, M. Gupta, M. A. Alfaleh, N. A. Alhakamy, Y. Riadi, Shadab Md, "Impact of Protein Corona on the Biological Identity of Nanomedicine: Understanding the Fate of Nanomaterials in the Biological Milieu," *Biomedicines*, 9(10): 1496. Doi: [10.3390/biomedicines9101496](https://doi.org/10.3390/biomedicines9101496). [Indexed Web of Science], [IF-6.081], Oct, 2021.
39. Shadab Md, N. A Alhakamy, T. Neamatallah, S. Alshehri, Md A. Mujtaba, Y. Riadi, K. Radhakrishnan, H. Khalilullah, M. Gupta, Md. H. Akhter, Shadab Md, "Development, characterization and evaluation of α -Mangostin-loaded polymeric nanoparticle gel for topical therapy in skin cancer," *Gels*. 2021, 7(4), 230; <https://doi.org/10.3390/gels7040230>. [Indexed Web of Science], [IF-4.7], Nov 2021.
40. S. Li, Zhongkai Xu, M. Alrobaian, O. Afzal, I. Kazmi, Waleed H. Almalki, A. S. A. Altamimi, F. A. Al-Abbasi, K. S. Alharbi, W. M. Altowayan, T. Singh, Md H. Akhter, Ma. Gupta, M. Rahman, S. Beg, "EGF-functionalized lipid-polymer hybrid nanoparticles of 5-Fluorouracil and Sulphoraphane with enhanced bioavailability and anticancer activity against colon carcinoma," *Biotech and Appl Biochem*, 2021. DOI: [10.1002/bab.2279](https://doi.org/10.1002/bab.2279), [Indexed Web of Science] [IF-2.43], Nov, 2021.

Mr. Vijay Singh Rana & Dr. Neeraj Kumar Sethiya

41. Bisht D, Rashid M, Arya RKK, Kumar D, Chaudhary SK, V.S. Rana, N. K. Sethiya, "Revisiting liquorice (*Glycyrrhiza glabra* L.) as anti-inflammatory, antivirals and immunomodulators: Potential pharmacological applications with mechanistic insight," *Phytomedicine Plus*

2(1), 100206 (ISSN: 2667-0313) **[Indexed in Scopus]**
<https://doi.org/10.1016/j.phyflu.2021.100206>, Dec 2021.

DEPARTMENT OF PHYSICS

Dr. Vishakha Kaushik & Dr. Surbhi Sachdev

42. **V. Kaushik**, S. Pathak, H. Sharma, **S. Sachdev**, S. Anwer and C Prakash, "Impact of edge functionalization on electron field-emission characteristics of carbon nanotubes: A theoretical approach", *Physica B: physics of Condensed matter*, vol.625, p.p. 413491, ISSN: 0921-4526, DOI: <https://doi.org/10.1016/j.physb.2021.413491>. **[Indexed in Scopus]** [IF-2.46], Oct. 2021.

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Ms. Nisha Singh, Ms. Priyanka Agarwal & Dr. Suheel K. Porwal

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Dr. Pradeep Rawat

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Ms. Khusbhoo Jain

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b) BOOKS (AUTHORED/ EDITED) (BETWEEN OCTOBER 1- DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Manmeet Kaur

1. Published a **book titled** - Ecotourism Development through wetland conservation and management, *Harike Wetlands- A hidden paradise in Punjab*, **Publisher** -LAP Lambert Academic Publishing ISBN: 978-620-4-72884-1.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (MANAGEMENT)

Dr. Preeti Sharma

2. **Dr. Preeti Sharma**, Guest Editor, Special Issue: Innovative Approaches towards Sustainable Development in a Globalised World, *World Review of Sciences, Technology and Sustainable Development*, Vol. 17, Nos. 2/3, 2021, <https://www.inderscience.com/info/inarticletoc.phpicode=wrstd&year=2021&ol=17&issue=4> [Indexed in Scopus]. 2021.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Mandeep Kumar Arora & Dr. Jagannath Sahoo

3. **M. K. Arora**, P. Grover, R. Tomar, L. Mehta, A. Jangra, **J. Sahoo**, "Nicotine in COVID-19: "Friend or Foe"?", in *Applications of Artificial Intelligence in COVID-19. Medical Virology: From Pathogenesis to Disease Control*. Springer, Singapore. https://doi.org/10.1007/978-981-15-7317-0_30, Oct 2021.

DEPARTMENT OF CHEMISTRY

Dr. Nitin Kamboj & Dr. Jabrinder Singh

4. K. Belwal, J. C. Purohit, **N. Kamboj**, **J. Singh**. "Role of Applied Statistical Techniques in Interdisciplinary Research", LAP-Lambert Academic Publishing, European Union. ISBN: 978-620-4-18183-7, Oct. 2021.

c) BOOK CHAPTERS (BETWEEN OCTOBER 1-DECEMBER 31)

DEPARTMENT OF MATHEMATICS

Dr. Sandeep Sharma

1. P. Singh, A. Sharma, **S. Sharma**, and P. Narula, "Estimation of Reproduction Number of COVID-19 for the Northeastern States of India Using SIR Model", in *Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy*, SPRINGER , Vol.1405, DOI: https://doi.org/10.1007/978-981-16-5952-2_16 , Dec 2021.

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2. **Bhavna**, Abhijeet Ojha, **S. Bhargava**, "Chapter 3 - International Council for Harmonisation (ICH) guidelines", in *Regulatory Affairs in the Pharmaceutical Industry*, 2022, Page 47-74 DOI: <https://doi.org/10.1016/B978-0-12-822211-9.00008-3>, (Elsevier - Academic Press). Available Online Nov 2021.

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Dr. Neeraj Kumar Sethiya

4. **N. K. Sethiya**, Walia V, Chaudhary SK, Yadav Y. 2022. Chapter 3: Bioactives and Pharmacology of *Acacia ataxacantha* DC.: A Review, In *Bioactives and Pharmacology of Legumes*, Edited by T. Pullaiah. Book Series: AAP Focus on Medicinal Plants Series, CRC Press, Taylor and Francis Group (ISBN: 9781774911266; Published Online)
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Dr. Kiran Badoni Mamgain

6. K. B. Mamgain, "National Education Policy 2020 and Mother Tongue as a Medium of Instruction: An Analysis", in *New Education Policy: Meeting Goals of 21st Century Education* (ISBN 9789391908188).

Dr. Deepesh Kumar Thakur

7. Deepesh Kumar Thakur, "A contemporary approach in Indian Diasporic Literature & English Language Teaching", in *Revisiting Ecology, Culture, Myth, Gender and Diaspora in Literature*, Vol. 1, DOI: <https://www.perceptionpublishing.in/October2021>, Oct 2021.

DEPARTMENT OF PHYSICS

Dr. Samta Manori

8. **S. Manori** and R. Chandra, "Basics of Multiferroic Materials and their types", in *Ferrites and Multiferroics: Fundamentals to Applications, Engineering Materials*. Springer, Singapore, pp. 129-141, **Online ISBN:** 978-981-16-7454-9, **DOI:** https://doi.org/10.1007/978-981-16-7454-9_8. Dec 2021.
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Dr. Ravi Kumar Shukla

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Dr. Anshuman Das

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DEPARTMENT OF EECE

Dr. Nafees Ahamad

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Dr. Amit Kumar Mishra

15. S. Paliwal, V. **Bharti**, **A.K. Mishra**, "Ai Chatbots: Transforming the Digital World", in *Recent Trends and Advances in Artificial Intelligence and Internet of Things*, SPRINGER Intelligent Systems Reference Library, Vol.172, DOI: <https://doi.org/10.1007/978-3-030-32644-9-34>, Jan 2020.

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d) CONFERENCE/SYMPOSIUM/WORKSHOP PROCEEDINGS (BETWEEN OCTOBER 1-DECEMBER 31)

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Rakesh Kumar Pandey, Dr. Anil Kumar Dahiya & Mr. Rahul Ganju

1. R. K. Pandey, A. Kumar, and R. Ganju, "Sequential Modeling for Automatic Interpretation of Pressure Transient Test," in *2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO)*, 2021, pp. 1–4. DOI: [10.1109/ICRITO51393.2021.9596219](https://doi.org/10.1109/ICRITO51393.2021.9596219). 2021.

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Mr. Saurabh Awasthi and Dr. Nafees Ahamad

2. A. Bora, S. Aswasthi, N. Ahamad, "Potential & Challenges in Small Hydro Power Projects in India" *International Conference on Electrical Systems & Automation (ICESA 2021)*, Morocco, 8-9 Dec, 2021.

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4. A. Das, S. Pradhan, S. R. Das, "Analysis on hole overcut during micro-EDM of Inconel 718", *in International Conference on Materials, Machines and Information Technology-2022, Materials Today Proceedings*. ISSN: 2214-7853, DOI: <https://doi.org/10.1016/j.matpr.2021.11.484>, [Indexed in Scopus], Dec 2021.

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Ms. Pooja Gupta & Dr. Srabanti Maji

7. P. Gupta, S. Maji, R. Mehra, "Predictive Modeling of Healthcare Professional's Stress Based on XGBoost Model", in the 18th IEEE India Council Annual International Conference (INDICON-2021) at IIT Guwahati, [indexed in SCOPUS], held from 19th-21st Dec 2021.

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8. B. Kumar, N. Kumar, "Distance Based Energy Efficient Clustering Approach for Wireless Sensor Networks", in Third International Conference on Computing, Communication and Cyber Security (IC4S-2021- Springer) at KEC Ghaziabad, U.P. India, 30-31st October 2021.

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9. V. K. Mishra, V. Kumar, **Neeraj Kumar Pandey** "IBD: A Feedback Framework with Deep-learning for IoT-generated Big Data Processing" 10th International Conference on System Modeling & Advancement in Research Trends (SMART) organized by Teerthankar Mahaveer University Moradabad U.P. DOI: [10.1109/SMART52563.2021.9675302](https://doi.org/10.1109/SMART52563.2021.9675302). **[indexed in SCOPUS]**, on **10-11 Dec. 2021**

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13. R. S. Suri, V. Dubey, N. R. Kapoor, A. Kumar and **M. Bhushan**, "Optimizing the Compressive Strength of Concrete with Altered Compositions Using Hybrid PSO-ANN", 4th International Conference on Information Systems and Management Science (ISMS 2021), Springer, at The faculty of ICT, University of Malta, Msida, Malta. **[Indexed in Scopus], Dec 14-15, 2021.**

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Dr. Pooja Swaroop Saxena

25. **P. S. Saxena**, “Modelling of Aircraft motion by Zermelo Navigation Problem”, (CONIAPS XXVII) Recent Advances in Differential Geometry and Topology (RADGT-2021), during 26-28th October, 2021.

e) ATTENDED CONFERENCE/SYMPOSIUM/WORKSHOP AND INVITED TALKS (BETWEEN OCTOBER 1-DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Dr. Chhabi Mishra

1. Prof Chhabi Mishra organized a Webinar in Collaboration with Development Alternatives (DA) on “Sustainable Construction Practices for Human Settlements” as part of the webinar series on **Oct 22, 2021**
2. Prof Chhabi Mishra participated in the UN Habitat Webinar “River Cities and Climate Actions, Discussions on Global Cities” on **Oct 29, 2021**
3. Prof Chhabi participated in the Virtual conference of EDUtech Asia 2021 on “Meeting the Diverse needs of staff and students across Asia-Pacific with digital transformation” on **Nov 10th, 2021**
4. Prof. Chhabi Mishra, participated in the Webinar “Towards a nature positive economic recovery, *Post-CoVID decision making, an Indian Case Study” on **Nov 24th, 2021**

Dr. Aanchal Sharma

5. Delivered an expert talk entitled, “Enhancing Buildings Thermal Performance in the Hills of Uttarakhand Through Native Green Roofing Retrofitting System: SDG 11.c - Sustainable and Resilient Buildings Utilizing Local Materials”, at a five days National online faculty development program on "SDG11: Safe and Affordable Housing and Sustainable Transport Systems in India" being organized by The Oxford School of Architecture, Bengaluru in association with the COA-TRC Bhopal, from 6th to 10th **Dec 2021**
6. Delivered an expert talk entitled, “Green Building Architecture”, at the Chandigarh Group of Colleges organized by the C-Cube, Department of Civil Engineering on Tuesday, **Nov 30th, 2021**

Ar. Manmeet kaur

7. Attended technical training on “ArcGIS” conducted by CEPTA Infotech Private Limited at School of Architecture and Design, DIT University.

Ar. Meet Fatawar

8. Attended workshop on Resilient Uttarakhand organized by State Disaster Management Authority (USDMA) at Hotel Pacific, Subash Road, Dehradun, Uttarakhand.

Ar. Shraddha Bahukhandi

9. Delivered a talk on “Sustainable Construction Practices for Human Settlements” as the speaker of the first webinar organized by SOAD & Development Alternatives, **Oct 22nd, 2021**.
10. Attended the technical training on “Arc GIS” at School of Architecture & Design, **Oct, 2021**.
11. Attended 3-days conference on Disaster Management at IIT Delhi, **Nov 24th- 27th, 2021**

Ar. Vartica Saxena

12. Attended a webinars organised by Ultratech Cement: Problems and new technologies for rigid pavements.
13. Attended a webinars organised by Ultratech Cement: Concrete for energy efficiency and Comfort in Buildings.
14. Attended a webinars organised by Ultratech Cement: Use of New and innovative technologies for Rapid Mass Housing.
15. Attended a webinars organised by Ultratech Cement: A session on ‘Fusion of Steel and Concrete’-Buildings of Future by Ar. Pooja and Piyush Kapadia.

DEPARTMENT OF MATHEMATICS

Dr. Pooja Swaroop Saxena

1. **Dr. Pooja Swaroop Saxena**, attended Invited talk on “*Applications of Differential Geometry in real world problems*” in First International Conference on Green Economy for sustainable growth in Commerce, Science, Technology, Engineering and Management (IGCGCSTEM-2021) on **October 9th -October 10th, 2021**.

Dr. Dheeraj Kumar Joshi

2. **Dr. Dheeraj Kumar Joshi**: Participated and presented a research paper entitled on “Probabilistic Hesitant fuzzy set based MCDM method with applications in Portfolio Selection Process” in International Conference on Innovation and Application in Science & Technology (ICIAST 2021), **21-23 Dec 2021**.
3. **Dr. Dheeraj Kumar Joshi**: Attended a National Conference on New Trends in Applied Mathematics (NCNTAM) 2021 organized by Chhatrapati Shahu Ji Maharaj University Kanpur, during **Oct 11 - 12, 2021**.
4. **Dr. Dheeraj Kumar Joshi**: Attended four days’ workshop on Statistical data analysis using MS Excel, **Oct 25 - 28, 2021**.
5. **Dr. Dheeraj Kumar Joshi**: Participated and presented a research paper entitled on “Study of Correlated Markov noise channels and its effect on Quantum Speed Limit” in International Conference on Innovation and Application in Science & Technology (ICIAST 2021), **21-23 Dec 2021**.

Dr. Jogendra Kumar

6. **Dr. Jogendra Kumar** served as resource person in the Conference 68th Annual Conference of BGP “**Conference on Analysis and Applications: An International Meet**” (CAAIM-21), jointly organized by Faculty of Mathematical and Statistical Sciences, SRMU and Dept. of Mathematics and Astronomy, Lucknow University during 17-18 Nov 2021.
7. **Dr. Jogendra Kumar** served as resource person in the Refresher Course on “**Mathematical Tools for Physical and Computational Sciences**” organized by the UGC-Human Resource Development Centre, Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) during Sept 24- Oct 08, 2021.

Dr. Biplab Dhar

8. **Dr. Biplab Dhar** attended an “**International Workshop**” on “**Fractional Derivatives: Theory & Computations with Applications 2021**” organized by “IIT BHU” during Nov 12-14, 2021.

DEPARTMENT OF CIVIL ENGINEERING

Mr. Himanshu Pratap Singh

1. Sandhya Joshi, **Himanshu Pratap Singh**, Suprakash Biswas, “Siesmic analysis of Earthen dam” in the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro-2021 International) under the aegis of Indian Society for Hydraulics (ISH) organised by SVNIT (Surat, India) during **Dec 23-25, 2021**– Best paper award (First Prize).

Dr. Tarumay Ghoshal

2. **T. Ghoshal** Presented a research paper entitled on “Regional Ocean Modeling System (Roms) Simulations To Identify The Sensitivity Of Forcing Conditions On The Thermohaline Features Of The Bay Of Bengal,” national Conference on Sustainable Environment Engineering and Science (SEES2021). **Dec 3, 2021**.

Mr. Harsh Goyal, Dr. Tarumay Ghoshal & Dr. Naveen Singhal

3. V. Devlal, R. S. Bisht, P. Tiwari, A. Bisht, **H. Goyal, T. Ghoshal, N. Singhal**, Presented a research paper entitled on “a case study on water quality parameters of upstream portion of Rispana River, Dehradun,” in national Conference ISG-ISRS National Symposium 2021, at Ludhiana, Punjab. **Dec 15-17, 2021**.

DEPARTMENT OF EECE

Mr. Mohammad Samir and Dr. Gagan Singh

1. **M Samir, G. Singh**, "Analysis of Proportional-Integral-Derivative Controller for Doubly Fed Induction Generator Optimized Using Ant Lion Optimization", in 10th IEEE *International Conference on System Modeling & Advancement in Research Trends (SMART)*, Moradabad, India, **Dec 2021**.

Dr. Nafees Ahamad

2. **Dr. Nafees Ahamad**, 3 days ISO training: Attended three days ISO 21001-2018 Internal Audit training at DIT University Dehradun, **Nov 29-30 & Dec 1, 2021**.

Dr. Gaurav Dhiman

3. **Dr. Gaurav Dhiman**, participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Nanoelectronics Devices: Materials and Applications" from **06/12/2021 to 10/12/2021** at Indian Institute of Information Technology, Ranchi.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Jagannath Sahoo

1. **Dr. Jagannath Sahoo** attended two weeks PDP (Professional Development Program) from 9th November'2021 to 23rd November'2021, Integral University, Lucknow on Role of Artificial Intelligence in Personalized Medicine.

Dr. Mandeep K Arora

2. **Dr. Mandeep K Arora** delivered invited talk as Key note speaker theme- Pharmacist: An integral part of health care on 60th National Pharmacy Week Celebration at Glocal University. Nov 2021.
3. **Dr. Mandeep K Arora** delivered invited lecture on "Over the counter drugs: Concern and Indian Scenario" organized by HRIT group of Institutions, Ghaziabad. Nov 2021.
4. **Dr. Havagiray Chitme** attended two days CPCSEA Nominee Training Program conducted by CPCSEA, Govt. of India on 1-2nd **Dec 2021**.

Dr. Dhirodatta Senapati

5. **Dr. Dhirodatta Senapati** attended seminar organised by Med genome on "Genomic Landscape of Lung Cancer Confirmation" on **Oct 12, 2021**.

Dr. Havagiray Chitme

6. **Dr. Havagiray Chitme** organized DIT University Innovation & Intellectual Property Day -2021, on 25/11/2021 at DIT University, Dehradun.
7. **Dr. Havagiray Chitme** organized Staff Development Program on 'Experimental Animal Handling Techniques' 23/10/2021, Animal House, DIT University, Dehradun.
8. **Dr. Havagiray Chitme** organized National Pharmacy Week – 2021, 17-23rd October, 2021, DIT University Dehradun.
9. **Dr. Havagiray Chitme** organized ORIENTATION-CUM-TRAINING ON National Ethical Guidelines for Biomedical and Health Research Involving Human Participants Conducted by: University Research Ethics Committee, DIT University, Saturday, 20th **Nov 2021**.

Dr. Neeraj Kr. Sethiya

10. Dr. Neeraj Kr. Sethiya acted as Organizing secretary for physical One-Day Live Indigenous Medicinal Plant Exhibitions and Poster Competitions at Faculty of Pharmacy, DIT University Dehradun on **29th November 2021** in association with Society of Pharmacognosy (formerly Indian Society of Pharmacognosy) and Uttrakhand State Branch of Society of Pharmaceutical Education and Research (SPER).
11. **Dr. Neeraj Kr. Sethiya**, Oral Presentation (Virtual) of paper entitled as “Formulation and evaluation of dispersible tablets for selective Antiretroviral Protease Inhibitor” during First International Conference on Technologies for smart green connected societies 2021 on 29th **Nov 2021**.

DEPARTMENT OF PHYSICS

Dr. Samta Manori

1. **Dr. Samta Manori** attended the ACS Science Talk on “Highly Versatile Atomically Thin Metallic Transition Metal Dichalcogenide Nanosheets”, **8th Oct 2021**.
2. **Dr. Samta Manori** attended the ACS Seminars on “Advances in Polymer Nanocomposites”, **18th & 19th Oct 2021**.

Dr. Natasha Awasthi

3. **Dr. Natasha Awasthi** Participated and presented a research paper entitled on “Study of Correlated Markov noise channels and its effect on Quantum Speed Limit” in International Conference on Innovation and Application in Science & Technology (ICIAST 2021), **21-23 Dec 2021**.
4. **Dr. Natasha Awasthi** Participated and presented a research paper entitled on “Probabilistic Hesitant fuzzy set based MCDM method with applications in Portfolio Selection Process” in International Conference on Innovation and Application in Science & Technology (ICIAST 2021), **21-23 Dec 2021**.

Dr. Ravi Kumar Shukla

5. **Dr. Ravi Shukla** delivered an **Invited Talk** on “Lyotropic Liquid Crystals for Dye Adsorption and Rheological Applications”, at National Conference on Liquid Crystals organized by Department of Chemistry, Assam University, Silchar INDIA.
6. **Dr. Ravi Shukla** attended the ACS Seminars on “Advances in Polymer Nanocomposites”, 18th & 19th Oct 2021

SCHOOL OF COMPUTING

Dr. Pradeep Singh Rawat

1. **Dr. Pradeep Singh Rawat**, has participated as an expert speaker on “Hands on Application of Utilities based Cloud Computing” organized by the Department of Computer Science and Engineering of Amity University, Ranchi Jharkhand on 7th October 2021.

Dr. Rakesh Kumar Saini

2. **Dr. Rakesh Kumar Saini** chaired a session of 3rd International Conference on “Computing, Communication, and Cyber Security (IC4S-2021)” (Springer Conference) organized by Krishna Engineering College, Ghaziabad, India during 30th -31th **October, 2021**.
3. **Dr. Rakesh Kumar Saini** chaired a session of 4th International Conference on "Futuristic Trends in Networks and Computing Technologies (FTNCT-2021)" (Springer Conference) organized by Department of Computer Science and Engineering Institute of Technology, Nirma University, Gujarat, India during 10th -11th **December, 2021**.

Dr. Amit Kumar Mishra

4. **Dr. Amit Kumar Mishra** attended 14 Days Training the Trainer Program on "Artificial Intelligence" from CDAC, Pune, **2021**.

Dr. Ajay Narayan Shukla

5. **Dr. Ajay Narayan Shukla** chaired a session of 10th IEEE international conference on “System Modelling & Advancement in Research Trends (SMART-2021) organized by Faculty of Engineering & Computing Sciences. TMU, Moradabad held on 10-11 **December 2021**.

Dr. Srabanti Maji

6. **Srabanti Maji** attended 14 Days Training the Trainer Program on "Artificial Intelligence" from CDAC, Pune, **2021**.

Dr. Jyoti Rawat

7. **Dr. Jyoti Rawat** attended a workshop on ““Explainable Artificial Intelligence and the Future”, from **20/12/2021 to 24/12/2021** at Indian Institute of Information Technology Kota, sponsored by AICTE Training and Learning (ATAL) Academy.

Sisir Kumar Jena

8. **Sisir Kumar Jena** attended a virtual Colloquium on “International Colloquium on Technology Readiness for High Volume Semiconductor Chip Manufacturing (fab)” (ictfab-2021) organized by the Indian Institute of Technology (IIT) Mandi. Date: **15-16 Nov. 2021**.
9. **Sisir Kumar Jena** attended a workshop on “Introduction to Matlab from a Numerical Analysis Perspective” organized by Student's Academic Board, Indian Institute of Technology (IIT) Guwahati. Date: 18 Dec. 2021.

Mr. Nitin Thapliyal

10. **Nitin Thapliyal** attended a DST-SERB sponsored one-week online workshop on Statistical Techniques for Data Analysis held from 22/11/2021 to 26/11/2021 Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India).
11. **Nitin Thapliyal** participated in AICTE sponsored online STTP- [Phase III] on “BIG DATA ANALYTICS USING SOFT COMPUTING TOOLS (FOR DATA ENGINEERING)” held from 29 Nov 2021 to 04 Dec 2021 organized by Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh, India.

Dr. Bharti Sharma

12. **Bharti Sharma**, chaired a session on Big Data Analytics, Data Mining and Computational Intelligence in 3rd International Conference on Information Management and Machine Intelligence (ICIMMI-2021), Poornima Institute of Engineering & Technology, India, [indexed in Scopus & Web of Science], **Dec 23-24, 2021**.
13. **Bharti Sharma**, attended 14 Days “Training the Trainer” Program with “BRONZE Grade”, on “ARTIFICIAL INTELLIGENCE” from CDAC, PUNE, **2021**.

Mr. Devendra Prasad

14. **Devendra Prasad** attended the 9th International Conference on Big Data Analytics (BDA 2021) organized by the Indian Institute of Information Technology (IITT) Allahabad. Date: 15-18 Dec. 2021.

Ms. Sneh Lata Aswal

15. **Ms. Sneh Lata Aswal** has presented the paper titled SITF: an algorithm for secured image transmission using Fractals authored by Sneh Aswal, Ashish Negi and Anuj Saxena at 2021 International Conference on Computational Performance Evaluation (ComPE) by Department of Biomedical Engineering, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India during 1st – 3rd December 2021.

16. Sneh Lata Aswal has successfully completed a certified NPTEL course on “computer Graphics” on swayam portal.

Mr. Deep Kumar

17. Deep Kumar, attended & completed successfully AICTE sponsored (ATAL) Quality Improvement Programme (QIP) short-term course on “Advanced Technologies for Societal Changes: A 360-degree view” from 22/11/2021 to 26/11/2021 at University of Petroleum and Energy Studies, Dehradun.

Mr. Aditya Dev Mishra

18. ADITYA DEV MISHRA, participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Advanced FDP on "Cyber Security" from 08/11/2021 to 12/11/2021 at National Institute of Technology Nagaland, November, 2021.

Dr. Ranjeet Kumar Ranjan

19. Dr. Ranjeet Kumar Ranjan participated as Technical Session Chair for 2021 IEEE IAS 6th International Conference on Computing, Communication and Automation (ICCCA) held online, December 17-19, 2021.

Mr. Naveen Kumar

20. Naveen Kumar, Chaired a Technical Session of Third International Conference on Computing, Communication and Cyber-Security (**IC4S-2021-Springer**) organized by Krishna Engineering College, Ghaziabad, U.P., India, during 30-31st October, 2021.

21. Naveen Kumar Attended AICTE sponsored (ATAL) Quality Improvement Programme (QIP) short-term course on "Application Areas of Data Analytics" organized via online mode during 23-10-2021 to 27-10-2021 by the Department of Computer Science and Engineering, **Indian Institute of Information Technology Allahabad**.

22. Naveen Kumar Attended AICTE sponsored (ATAL) Quality Improvement Programme (QIP) short-term course on " Advanced Technologies for Societal Changes: A 360-degree view" organized via online mode during 21-11-2021 to 26-11-2021 by the Department of Computer Science and Engineering, **University of Petroleum and Energy Studies, Dehradun**.

Dr. Neeraj Kumar Pandey

23. Dr. Neeraj Kumar Pandey Chaired Session in the “5th International Conference on Information Systems and Computer Networks (ISCON 2021)” organized by GLA University Mathura UP on October 23, 2021.

24. Dr. Neeraj Kumar Pandey Completed Online training “Harappa Education- Inspiring Faculty Program” consisting of 4 online courses: Speaking Effectively, Leading Self, Establishing Trust and Building Presence) for 4 weeks from 6th July- 30th **July, 2021**.

Dr. Megha Bhsuhan

- 25. Dr. Megha** has chaired a Session on “Machine Learning: Emerging Trends” In the Fourth International Conference on Information Systems and Management Science (ISMS 2021) jointly organized by the faculty of ICT, University of Malta, Malta & Department of Computer Science and Engineering, National Institute of Technology, Raipur, India during **December 14-15, 2021** (in Virtual Mode)."
- 26. Dr. Megha** has chaired a session for “Analytics, Contextual Algorithms & Applications” in the IEEE 2021 Conference on IoT for Rural Healthcare (CRIH) organized by the Department of Electronics and Communication Engineering, Vignan’s Foundation for Science, Technology & Research, **16-18 Dec 2021**.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (MANAGEMENT)

Dr. Sonia Munjal

- 1. Dr. Sonia Munjal** attended the Six days Faculty Development Program (FDP) on “Data Driven Decision Making” organized by NIT Calicut, Kerala, **2021**.
- 2. Dr. Sonia Munjal** attended the One-week Online Training Program on Statistical Data Analysis using “R” Software organized by Science Tech Institute, Lucknow from 21st - 27th **December 2021**.
- 3. Dr. Preeti Sharma** presented research paper titled “A Study of interrelationship of Environmental and Social Disclosure with Corporate Attributes” in MAIMS 9th International Conference Organized by MAIMS, Delhi on **7th October 2021**.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Sakshi Semwal

- 1.** Presented a paper on the topic “*Brothers in Arms: Fighting the common Enemy in Habila’s Oil on Water and Ghosh’s Gun Island*” in International Virtual Conference on Humanities through Literature, Films and Media” organised by the School of Social Sciences and Languages, VIT Chennai on **19-20 Oct 2021**.
- 2.** Presented a paper on “Sunderbans and Beyond: Environmental Crisis and Cultural Shifts in Amitav Ghosh’s Gun Island in Second International conference of South Asian Research Centre, SOKA University Japan on **26-27 Nov 2021**.

Dr. Jeeten Krishna Giri

- 3.** Presented a paper titled, “*Poverty, Crisis and Government Expenditure: An Empirical Analysis*” at 91st Annual Meetings, Southern Economic Association, Houston, TX, USA, (virtual) **Nov 20-22**.

Dr. Monika Srivastava

4. Conducted a Lecture the topic - "Love your ego and Defend it" for the students and faculty members of Atal Bihari Vajpayee School of Management & Entrepreneurship, Jawaharlal Nehru University, New Delhi. This was conducted online on 1st **Dec 2021**.
5. Chaired the Session and reviewed the research paper of presenters of First International E-Conference on "Innovative and Sustainable Business Practices in Social Sciences & Technology in Prevailing COVID Era" organized by STEP HBTI, Kanpur on 11th **Nov 2021**.

Dr. Deepesh Kumar Thakur

6. Paper presented "A contemporary approach in Indian Diasporic Literature & English Language teaching", 'Effects of creative writing activities in Education pedagogy', in Two Days AICTE sponsored National Conference by SCMS school of Technology & Management, Kerala, India on **26th & 27th Nov 2021**.
7. Paper presented "Language Mapping of Maithili: Beyond the boundaries", an International Symposium organised by Central Institute of Indian Languages-CIIL, Mysore-Karnataka with Darbhanga Sanskrit University & Mithila University, Darbhanga, Bihar-India, India on **12th & 15th Dec 2021**

DEPARTMENT OF MECHANICAL ENGINEERING

Mr. Rajeev Pandey and Dr. Manoj Kumar

1. **R. Pandey, M. Kumar, J. S. Saini**, "Experimental Heat Transfer and Friction factor study with Correlation development for a Rectangular duct having Staggered Racetrack-shaped perforated V-up baffle blocks," 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference, IHMTC 2021, **17-22 Dec 2021**.

Mr. Ravi Kumar, Dr. Anil K. Patil & Dr. Manoj Kumar

2. **R. Kumar, M. Kumar, A. K. Patil**, "Energy efficiency of a sensible energy storage system with multi-tubular passages and coil inserts," 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference, IHMTC 2021, **17-22 Dec 2021**.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. A. Sivasakthi

1. **Dr. A. Sivasakthi**: Attended four days' Workshop on "Practical Introduction to MATLAB" held from 15.11.2021 to 18.11.2021 conducted by SoPS, DIT University, India.
2. **Dr. A. Sivasakthi**: Attended One-week Expert Lecture on **Advances in "Multiphase Flow and Heat Transfer"** held from 29.12.2021 to 04.01.2022 organized by CMR Engineering College, Telangana state, India.

3. **Dr. A. Sivasakthi:** Attended a National Webinar on “**Research Methodology**” - **Science and Technology of Nanomaterials** held on 30.12.2021 conducted by Shri Muktanand College, Gangapur, India.
4. **Dr. A. Sivasakthi:** Attended a National level Webinar on “**National Education Policy**” - **Vision to Action** held on 31.12.2021 conducted by Internal Quality Assurance of Sankara College of Science and Commerce, Coimbatore, India.

Dr. Gaurav Richhariya

5. **Dr. Gaurav Richhariya:** organised a guest lecture on “Remote Sensing for Engineering an Exploration” by Dr. K.S Misra Ex Additional Director General Geological Survey of India/Director General of Hydrocarbons on **27th Oct 2021**.
6. **Dr. Gaurav Richhariya:** Organised a webinar on “Geomechanical Support for Drilling Operations” by Dr. Taha Hussian Petrophysist at Shell U.S on **29th Oct 2021**.

Rakesh K. Pandey

7. **R. K. Pandey** attended webinar on “Potential of Dimethyl Ether as an Alternative Fuel for Internal Combustion Engines” by Dr. Kamei Wittison, Principal Scientist, IIP-CSIR, at DIT University on **14th Oct 2021**.

DEPARTMENT OF CHEMISTRY

Dr. Jabrinder Singh

1. **Pre-Commission Course:** Three months Associate NCC Officer Course from Officer Training Academy, Kamptee (**26 July-23 Oct. 2021**) with **A- grade**.

Dr. Naveen Singhal

2. International Conference “Advances in Chemistry and Biology of Carbohydrates”. Dec. 4-5, 2021. ICFRE, Dehradun.

f) BOOK REVIEWS (BETWEEN OCTOBER 1-DECEMBER 31)

Nil

g) MONOGRAPHS/ POLICY PAPERS (BETWEEN OCTOBER 1-DECEMBER 31)

Nil

h) CREATIVE WORK AND PERFORMANCES (BETWEEN OCTOBER 1- DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Dr. Chhabi Mishra

As Chairperson of Cultural Awareness committee:

1. Organized a **play** on DIT Campus "*Where there's a will*" by Doon Theater group on **Dec, 18th, 2021**
2. Organized **Poetry Recital** competition on Gandhi Jayanti , **painting competition** on occasion of Durga Puja.
3. Organized University Wide **Lantern making competition** on the Occasion of Diwali, **October 29th, 2021**
4. Organized **University wide Extempore competition** on Guru Nanak Jayanti as part of cultural literacy awareness committee.
5. Led the SoAD team for **Design and drawing preparation** for Upgradation of Existing Sports facilities, DIT University, Dehradun.

Ar. Vartica Saxena

6. Actively participated and anchored the event organized for the Farewell of Pro-vice Chancellor sir, Brig. (Retired) Dr. M. Srinivasan sir.
7. Actively participated and anchored the event organized to welcome the new head and Leader of DIT University, Prof. G. Raghurama, as the Vice-Chancellor.

Dr. Seema Praliya

8. Participated in Cultural Literacy Awareness Programme i.e. "Poetry Recital" on the occasion of Gandhi Jayanti on **Oct 1, 2021**

Ar. Manmeet kaur and Ar. Meghna Chatterji

9. Organized Poetry **Recital** competition on Gandhi Jayanti, **painting competition** on occasion of Durga Puja, **Lantern making competition** on Diwali **and Extempore competition** on Guru Nanak Jayanti as part of cultural literacy awareness committee.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Dhirodatta Senapati

1. **Dr. Dhirodatta Senapati** submitted review article to "Translational Oncology", 10/13/2021.

i) NEWSPAPER/MAGAZINE ARTICLE AND EDITORIALS (BETWEEN OCTOBER 1-DECEMBER 31)

Nil

V. PATENTS PUBLISHED (BETWEEN OCTOBER 1-DECEMBER 31)

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. Anshuman Das

1. D. K. Rajak, A. Kumar, A. K. Behura, **A. Das**, S. Ranjan Das, A. Agrawal, S. Padhan, P. A. Patil, S. S. Hengade, "Instant electric heating water faucet system and structure," Indian Patent, **Application No. 202121044569**, Publication Date: **Nov 2021. Published.**
2. D. K. Rajak, A. Kumar, A. K. Behura, **A. Das**, S. R. Das, A. Agrawal, S. Kaswan, "Employing Multi-energy Sources to Heating the Water In a Thermos Bottle Comprising With Power Storage System" Indian Patent, **Application No. 202121035368 A**, Publication Date: **Oct 2021. Published.**

DEPARTMENT OF EECE

Dr. Santosh Kumar

3. S. K Raghuwanshi, Y. Singh, P. S. Pandey, M. Singh, **S. Kumar**, A. Shadab, R. Kumar, Md T. I. Ansari "An IoT monitoring system for underground mines using a fiber Bragg grating chemical sensor", Indian Patent, Application No. 202131051640, Publication Date: **Dec. 2021, Published.**

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. Gaurav Richhariya

4. **Dr. Gaurav Richhariya** et al. "APPARATUS FOR ASSESSMENT & TESTING OF ROCK CUTTINGS SETTLING RATE IN INCLINED WELLS" Application number 348194-001. The Patent Office Journal No. 42/2021 Dated, Publication Date: **Oct 2021. Published.**

SCHOOL OF COMPUTING

Dr. Amit Kumar Mishra

5. **Dr. Amit Kumar Mishra** et al. "I- Neuro: Efficient IOMT Based Seizure Detection Based on Machine Learning" Indian Patent, Application No. 202111052089, dated: **Dec 2021 [Published].**

Dr. Priyanka Dahiya

6. Thirupathaiiah Atthapu, Kumar Anup, Kour Manjit, Jenitta A, Paul Manas, Kalita Sanjib, Joshi Aarchit, Kumar Raj, Chandra Panda, Ramesh Talukdar, Jyotismita Bohra, Saroj

Gupta, Gaurav, **Dahiya, Priyanka**, "IoT Based Method and System for Rainwater Harvesting and Storage by Converting it to a Drinkable Water", Patent Application No. 2021102967, **Nov 2021**, Australian Patent, **[Granted]**.

Ms. Khusbhoo Jain

7. Arun Agarwal, Mahesh Kumar Chaubey, Jitendra Singh, **Khusbhoo Jain**, Kamlesh Kumar Raghuvanshi, VB Singh, Vikas Kumar, Chandra Bhooshan Singh, Santosh Kumar Pandey, Manu Pratap Singh. "Cloud Supported and Machine-Learning Driven Efficient IoT Based Watering System for Home Based Plants". Indian Patent, Application Number-202111056538, Publication Date: **Dec 2021. Published.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Mandeep K. Arora & Dr. Jagannath Sahoo & Ms. Ritu Tomar

8. **M.K. Arora, J. Sahoo, A. Sahoo, R. Tomar**. "Therapeutic Inhalation Formulation and Preparation Method Thereof" has been published by Indian Patent, Patent application 202011019678. Publication Date: **Nov 2021. Published.**

Dr. Bhavna & Dr. Neeraj Kumar Sethiya & Jagannath Sahoo

9. **Bhavna**, Mansi Vashney, **Neeraj Kumar Sethiya**, Arpita Sahoo, **Jagannath Sahoo** "BAICALEIN LOADED SOLID-LIPID NANOPARTICLES, AND METHOD OF PREPARATION THEREOF" Filed- Application no: 202111052175, Publication Date: **14th Nov. 2021. Published.**

Dr. Havagiray Chitme

10. Ashish Kukreti, Sharad Visht and **Havagiray Chitme**, "Microemulgel Composition Comprising Clove Oil for the Treatment of Fungal Infection and Method of Preparation thereof," Indian Patent, Patent Application No. 202111055015 Filed on 28/11/2021 Published on **Dec 2021. Published.**
11. Ashish Kukreti, Sharad Visht and **Havagiray Chitme**, "Microemulgel Composition Comprising Eucalyptus Oil for the Treatment of Fungal Infection and Method of Preparation thereof," Indian Patent, Patent Application No. 202111055016 filed on 28/11/2021. Published on **Dec 2021. Published.**

Ms. Farheen, Dr. Mohd. Habban Akhter & Dr. Havagiray Chitme

12. **Farheen, Mohd. Habban Akhter** and **Havagiray Chitme**, "Surface Functionalized Biopolymeric Nanoparticles Comprising Cinnamomum zeylanicum biopolymer encapsulating Doxorubicin and Gefitinib," *Composition and Method of Preparation Thereof*. Indian Patent, patent application no. 202111053842 Filed on 23.11.2021. Published on **Dec 2021. Published.**

VI. ORGANIZATION OF NATIONAL/INTERNATIONAL CONFERENCES/ MEETINGS/ WORKSHOPS (BETWEEN OCTOBER 1-DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Dr.Aanchal Sharma

1. Jointly organized a Series of 4 Hands-on “**Workshops with Department of Civil Engineering on Brick Bonds, RCC Roof, Truss Roof, Green Roof**” for students of architecture and civil engineering, Granted under the DITU Seed Money Project entitled “A comparative evaluation of roofing systems thermal performance in the composite climate of Dehradun” starting Friday, **October 8th, 2021** at the Construction Yard, SoAD.

Ar. Meet Fatawar

2. Organized “**Technical Training of GIS**” conducted by CEPTA Infotech Pvt. Ltd. at DIT University, Dehradun, Uttarakhand.
3. Organized a webinar on “**Sustainable Construction Practices for Human Settlements - A dialogue on resources, livelihoods and disaster resilience**” with Society for Development Alternatives (DA) at School of Architecture and Design, DIT University, Dehradun.

Ar. Shraddha Bahukhandi

4. Organized a hands-on workshop on “Exploring Design Possibilities with Wood & Pipe” at School of Architecture & Design, **Nov 15th- 17th, 2021**.

DEPARTMENT OF EECE

Dr. Nafees Ahamad

1. **Dr. Nafees Ahamad:** ISO-21001-2018 Internal Auditor Training Programme for faculties of DIT University, three days training program was conducted to create the internal ISO auditor for DIT University, Dehradun, India, **Nov 29-30, and Dec 1, 2021**.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. A. Sivasakthi

1. **Dr. A. Sivasakthi and Mr. Rahul Ganju:** Organized a one-day webinar on “**Potential of Dimethyl Ether as an Alternative Fuel for Internal Combustion Engines**” held on 14.10.2021 delivered by Dr. Kamei Wittison, Principal Scientist, IIP-CSIR Mohkampur, Dehradun.

SCHOOL OF COMPUTING

Dr. Megha Bhushan

1. **Dr. Megha**, Technical Chair in 4th International Conference on Information Systems and Management Science (ISMS 2021), The faculty of ICT, University of Malta, Msida, Malta, Department of Computer Science and Engineering, National Institute of Technology Raipur, India, **December 14-15, 2021**

VII. MEMBERSHIP OF PROFESSIONAL BOARDS/ COMMITTEES (OUTSIDE DIT UNIVERSITY), REFEREEING FOR JOURNALS/CONFERENCES/PROJECTS

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Sandeep Saxena

1. Primary membership (RVOESMA/PM/2021/0737) recognised by Insolvency & Bankruptcy Board of India.

DEPARTMENT OF EECE

Dr. Brajlata Chauhan

1. Member of IETE Council DEAL Dehradun Uttarakhand (2018-20, 2020-2022).

Mr. Vivek Kumar Gupta

2. Membership of "The Society of Photo Optical Instrumentation Engineers (SPIE)"

DEPARTMENT OF PHYSICS

Dr. Natasha Awasthi

1. **Dr. Natasha Awasthi** reviewed a technical paper for International Conference on Innovation and Application in Science & Technology, **Dec 21-23, 2021**.

Dr. Ravi Kumar Shukla

2. **Dr. Ravi Kumar Shukla** reviewed a paper for **IEEE Sensors Journal [IF: 3.06], Oct, Nov. & Dec. 2021**.
3. **Dr. Ravi Kumar Shukla** reviewed a paper for **Biomedical Optics Express [IF: 3.9], Oct. 2021**
4. **Dr. Ravi Kumar Shukla** reviewed a paper for Journal of **Molecular Liquids [IF: 6.1], Dec. 2021**
5. **Dr. Ravi Kumar Shukla** reviewed a paper for **journal Zeitschrift für Naturforschung A**

[IF: 1.4], Dec. 2021

6. **Dr. Ravi Kumar Shukla** reviewed a paper for journal **Applied Physics A**, [IF: 2.5], Dec. 2021

DEPARTMENT OF MATHEMATICS

Dr. Dheeraj Kumar Joshi

1. **Dr. Dheeraj Kumar Joshi** reviewed three research papers for International Conference on Innovation and Application in Science & Technology, **Dec 21-23, 2021**.

Dr. Fateh Singh

2. **Dr. Fateh Singh** reviewed one research papers for “Journal of Plant Physiology”, **Dec 09, 2021**.

Dr. Biplab Dhar

3. **Dr. Biplab Dhar** Life Executive Member of “Assam Academy of Mathematics, Cachar Branch”, Silchar, Assam, Membership Number: 192968, Parent Organization: AAM Guwahati, Assam.
4. **Dr. Biplab Dhar**, Conference Paper Reviewer: International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC – 2021).

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray Chitme

1. **Dr. Havagiray Chitme** Life Member of Indian Fertility Society Control Release Society Indian Chapter, Quinquennial membership, CRSIC – 509, **Dec.2021**.
2. **Dr. Havagiray Chitme** Member, Jury Committee for Evaluation of articles of ‘Pharmaceutical Education’ Published in SCOPUS indexed Indian Journal of Pharmaceutical Education & Research - for Prof. B. M. Mithal Memorial Award - **2021**

Dr. Manmohan Singhal

3. **Dr. Manmohan Singhal** awarded as Life member of Indian Pharmaceutical Association.

Dr. Neeraj Kr. Sehtiya

4. **Dr. Neeraj Kr. Sehtiya** became Life Member of Society of Pharmacognosy (LM/UK/-S-183).

DEPARTMENT OF CIVIL ENGINEERING

Dr. Rana Acharyya

1. **Dr. Rana Acharyya** reviewed a technical paper on Performance Evaluation of Polythene Sheets on Bearing Capacity of Soft Soil for Journal of Scientific Reports, Nature Research, Springer on **21th December 2021**.
2. **Dr. Rana Acharyya** reviewed a technical paper on Probabilistic Slope Stability Analysis: State-of-the-Art Review and Future Prospects for Journal of Innovative Infrastructure Solutions, Springer on **12th December 2021**.
3. **Dr. Rana Acharyya** reviewed a technical paper on A New Method for Piping Risk Evaluation on Unconfined Aquifers under Dewatering of Deep Foundation Pits for KSCE Journal of Civil Engineering, Springer on **4th December 2021**.
4. **Dr. Rana Acharyya** reviewed a technical paper on Brain fMRI segmentation under emotion stimuli incorporating attention-based deep convolutional neural networks for Journal of Applied Soft Computing, Elsevier on **4th November 2021**.
5. **Dr. Rana Acharyya** reviewed a technical paper on A Multi-Agent Meta Reinforcement Learning-Based Task Offloading Strategy for Mobile Edge Computing for the Journal of Applied Soft Computing, Elsevier on **17th October 2021**.

SCHOOL OF COMPUTING

Dr. Ranjeet Kumar Ranjan

1. **Dr. Ranjeet Kumar Ranjan** reviewed a survey paper for the Journal Archives of Computational Methods in Engineering, Springer, **Oct 2021**.

Dr. Megha Bhsuhan

2. **Dr. Megha** has received Certificate for reviewing a manuscript for Global research and development journals, **2021**.
3. **Dr. Megha** has received Certificate of Reviewing for 2nd International Conference on Advances in Computer Engineering and Communication Systems, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, **2021**.
4. **Dr. Megha** has received Certificate of Reviewing for 2nd Global Multi-Track Virtual Conference and Awards, Advancing Research for Innovation (ARISE 2021), Sustainability and Enhancement, **2021**.
5. **Dr. Megha** has received Certificate for reviewing book chapters for the book titled "Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization", IGI Global publications, **2021**.
6. **Dr. Megha** has received Certificate for reviewing book chapter for the book titled "Achieving Full Realization and Mitigating the Challenges of the Internet of Things", IGI Global publications, **Nov, 2021**.

Dr. Amit Kumar Mishra

7. Chaired a Session on “Global Evolution of Artificial Intelligence and Machine Learning in Smart Healthcare Systems” at 13th International Conference on Soft Computing and Pattern Recognition (SoCPaR)_organized by Machine Intelligence Research Labs (MIR Labs), Auburn, Washington, USA during **Dec 15-17, 2021** (in Virtual Mode).
8. Chaired a Session on “Advances and trends from machine learning to explainable AI: a case study for health care” in 11th International Advanced Computing Conference (IACC) Jointly organized by University of Malta, Malta and Bennett University, Noida, India during **Dec 18-19, 2021** (in Virtual Mode).
9. Contributed as reviewer for the journal “International Journal of System Assurance Engineering and Management. **[Indexed in Web of Science]**.
10. Contributed as reviewer in “13th International Conference on Soft Computing and Pattern Recognition (SoCPaR)” organized by Machine Intelligence Research Labs (MIR Labs)”, Auburn, Washington, USA during **Dec 15-17, 2021**
11. Contributed as reviewer in “1st Indo - Serbian International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA 2022)” jointly organized by Kolkata, India and, Serbia, from March 26-27, 2022.
12. Contributed as reviewer in “2nd International Conference on Computational Methods”, organized by Chandigarh Engineering College, Mohali, India, during **December 17-18, 2021**.
13. Contributed as Reviewer in 5th International Conference on Information Systems and Computer Networks (ISCON), organized by GLA Mathura, India held from **22nd-23rd October 2021**.

VIII. AWARDS/ HONORS/ FELLOWSHIPS (BETWEEN OCTOBER 1- DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Vartica Saxena

1. Ar. Vartica Saxena went through an ISO certification by DIT University for ISO 21001:2018 on **Nov 29, 30, 2021** & Dec 1, 2021. This training provided by an external tutor of BSI in offline mode from 9 Am to 5 PM.

Ar. Manmeet kaur

2. Reviewed paper for a conference on CPTED, 2022 organized by School of Planning and Architecture, New Delhi, held on **8th Jan, 2022**.

DEPARTMENT OF EECE

Dr. Nafees Ahamad

1. **Session Chaired:** Emerging Techniques in the 3rd International Conference on Communication and Intelligent System, ICCIS 2021, organized by NIT Delhi & Soft Computing Research Society, Dec 18-19, 2021.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. Gaurav Richhariya

1. Received Young Scientist Award at Second International Science and Technology Festival for research work on "**Optimized Managed Pressure Drilling Performance in Inclined Wells**" organized by UCOST at Vigyan Dham 29 Nov 2021.

DEPARTMENT OF CHEMISTRY

Dr. Naveen Singhal:

1. Two Scholars receive Young Scientist Award at DISTF-2021, Dehradun Organised by UCOST, Uttarakhand.
 - i) Richa Pandey
 - ii) Dr. Gaurav Ricchhariya

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Jagannath Sahoo

1. **Dr. Jagannath Sahoo** received award of Academic Excellence from Arab Translators Academic Association (ArTA)

Dr. Havagiray Chitme

2. **Dr. Havagiray Chitme** elected as President, Indian Pharmaceutical Association, Uttarakhand State Branch.
3. **Dr. Havagiray Chitme** nominated as President, Association of Community Pharmacists in India, Uttarakhand State Branch.

Dr. Bhavna

4. **Dr. Bhavna** received award "Certificate of Achievement", ranked 16th by "Ambhos Scientific Profile Outreach Campaign 2021" - an initiative to Promote Science & Innovation and to give ideals to the future of country, Dec. 2021.

5. **Dr. Bhavna** received award of Academic Excellence, presented by Arab Translators Association (ArTA), in the recognition in the field of Biomedical and Pharmaceutical Sciences, **Nov. 2021**.

Dr. Manmohan Singhal

6. **Dr. Manmohan Singhal** has been awarded by “Award of Academic Excellence” (International Award) by Arab Translators Association in **Nov 2021**.

Dr. Neeraj Kr. Sethiya

7. **Dr. Neeraj Kr. Sethiya** enlisted in Top 2% of World Scientist List (by Stanford University and Elsevier) on **Oct 2021**.
8. **Dr. Neeraj Kr. Sethiya** received International Award of Academic Excellence by Arab Translator Association by **Nov 2021**.

DEPARTMENT OF CIVIL ENGINEERING

Dr. Rana Acharyya

1. **Dr. Rana Acharyya** has been awarded for, “**Recognized Reviewer for The Journal of Scientific Reports**” by Nature on **Dec 12, 2021**.

Dr. Tarumay Ghoshal

2. **Dr. Tarumay Ghoshal** has been awarded for **Best paper presentation award for the Journal of “Regional Ocean Modeling System (Roms) Simulations To Identify The Sensitivity Of Forcing Conditions On The Thermohaline Features Of The Bay Of Bengal,”** by **Sustainable Environment Engineering and Science (SEES2021)** on **Dec 3, 2021**.

SCHOOL OF COMPUTING

Dr. Neeraj Kumar Pandey

1. **Dr. Neeraj Kumar Pandey** awarded as “**Best Academic Coordinator Award**” for his role as UG coordinator CSE in “Global Education and Corporate Leadership (GECL-2021) Awards, 4th International Annual Awards summit” by Life Way Tech India on **18 December 2021**.

Dr. Megha Bhushan

2. **Dr. Megha** awarded with “**Excellence in Research**” for contribution in research at DIT University Dehradun on **Oct 2021**.

IX. DOCTORAL STUDENTS AWARDS/ACHIEVEMENTS (BETWEEN OCTOBER 1-DECEMBER 31)

NIL

X. CONSULTANCY DETAILS (BETWEEN OCTOBER 1-DECEMBER 31)

NIL

XI. OTHER ACHIEVEMENTS (BETWEEN OCTOBER 1-DECEMBER 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Dr. Aanchal Sharma

1. Completed a 1.5 FDP equivalent course "Regression Analysis" offered by IISER Pune on SWAYAM online course certification, with a consolidated score of 61% (ELITE Category) from the evaluation based on continuous online assessments and the proctored examination held in the month of **Oct 2021**.
2. Completed a 4 credit course "Descriptive Statistics" offered by the University of Mysore on SWAYAM online course certification, with a consolidated score of 75% from the evaluation based on continuous online assessments and the proctored examination held in the month of August 2021. (result declared in **Nov 2021**)

Ar. Manmeet kaur

3. Attended an online course on "**Foundations of User Experience Design**" authorized by Google and offered through courser.
4. Attended an online course on "**Introduction to User Experience**" offered by HEC MontrealX through edX.

Ar. Meet Fatawar

5. Upgradation of Existing Sports facilities, DIT University, Dehradun.

Ar. Shraddha Bahukhandi

6. Completed the Google Coursera online course on "Foundations of User Experience (UX) Design, **Oct 27th, 2021**.

Ar.Vartica Saxena

7. Member of the Internal Audit team for conducting

8. Qualified the NPTEL course in User Interface Design with a consolidated score of 90 percent.

Ar. Sandeep Saxena

9. Qualified the NPTEL course in User Interface Design with a consolidated score of 90 percent.

DEPARTMENT OF MATHEMATICS

Dr. Pooja Swaroop Saxena

1. **Dr. Pooja Swaroop Saxena**, Chaired a session in International Conference on “Recent Advances in Pure and Applied Algebra (RAPAA-2021)” in association with International Academy of Physical Sciences, Prayagraj from **26th to 28th Oct 2021** organized by NIT Jamshedpur.

Dr. Jogendra kumar

2. **Dr. Jogendra kumar** chaired a technical session in 3rd National Conference of International Academy of Physical Sciences on “Recent Advancements in Physical Sciences” organized by NIT Uttarakhand, **Dec19-20, 2021**.
3. **Dr. Jogendra kumar** chaired a technical session in 87th International Conference on “Recent Advances in Pure & Applied Algebra (RAPAA)” organized by NIT Jamshedpur, Jharkhand, **Oct 26-28, 2021**.

SCHOOL OF COMPUTING

Dr.Rakesh Kumar Saini

1. **Dr.Rakesh Kumar Saini** participated as reviewer/Member of 4th International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT-2021) (Springer Conference) organized by Department of Computer Science and Engineering Institute of Technology, Nirma University, Gujarat, India during 10th -11th December, 2021.

Mr. Sisir Kumar Jena

2. **Sisir Kumar Jena** contributed as a reviewer at International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021) held on 17th & 18th December 2021, organized by Department of Computer Science, Banaras Hindu University (BHU), Varanasi, India.

Dr. Neeraj Kumar Pandey

3. **Dr. Neeraj Kumar Pandey** Participated as reviewer of 10th IEEE International Conference on System Modelling & Advancement in Research Trends (SMART-2021)

organized by Teerthanker Mahaveer University, Moradabad, U.P. on 10th-11th **December, 2021.**

4. **Dr. Neeraj Kumar Pandey** Participated as Reviewer of 3rd IEEE International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC-2021) organized by Krishna Engineering College (KEC, Ghaziabad) U.P. on **10th-11th December, 2021.**
5. **Dr. Neeraj Kumar Pandey** Participated as Reviewer of 8th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2021) organized by Tula's Institute, Dehradun, Uttarakhand. On **11-13 October, 2021.**
6. **Dr. Neeraj Kumar Pandey** Participated as Reviewer of 5th IEEE International Conference on Information Systems and Computer Networks (ISCON-2021) organized by GLA University Mathura U.P. on **22-23 October, 2021.**

Mr. Nitin Thapliyal

7. **Nitin Thapliyal** participated as reviewer of 10th IEEE International Conference SMART 2021 on survey on cloud computing and security organized by TMU, 10-11 **December 2021.**
8. **Nitin Thapliyal** participated as reviewer of 10th IEEE International Conference SMART 2021 on An automated abstract approach for investigating Bitcoin balances and wallet addresses organized by TMU, **10-11 December 2021.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray Chitme

1. **Dr. Havagiray Chitme** invited as a Chief-Guest, National Pharmacy Week -2021, Shree Dev Bhoomi Institute of Technology, **27th November, 2021.**

Dr. Bhavna

2. **Dr. Bhavna** received Certificate of Appreciation by DIT University Innovation & Intellectual Property Day -2021 (DUIIP-2021) on **25th Nov. 2021.**
3. **Dr. Bhavna** received a Certificate of Appreciation, as Guest Speaker, for presenting "Role of Pharmacist: For Awareness of Viral Fever", **18 Nov. 2021**, by Six Sigma Institute of Technology & Science, Rudrapur, Uttarakhand.

Dr. Neeraj kr. Sethiya

4. **Dr. Neeraj kr. Sethiya** recognized as a Startup Mentor for Atal Innovation Mission, Indian Institute of Technology Mumbai and Kharagpur, and Indian Institute of Management Bodhgaya, India.
5. **Dr. Neeraj kr. Sethiya** became Editor in Chief for Current Indian Science: Natural Product (Published by Bentham Science).
6. **Dr. Neeraj kr. Sethiya** become Advisory Board Member for Yuva Incubator ED and KITES to develop policy and recognition process for start-up.



DIT UNIVERSITY-DEHRADUN

Scholarly Activities Report, October 2021 - December 2021