



Scholarly Activities Report



Scholarly Activities Report

January 2022 – March 2022

KEY STATISTICS												
Schools/Departments	Journal/Conference/Patents Publications at a glance: Jan 2022 - March 2022								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	21	5	4	0	7	9	5	0	48	41	14	1
SOPPHI	10	3	1	0	0	0	3	0	29		10	
SOAD	0	0	0	0	0	0	0	0	1			
SOPS-Physics	2	1	1	0	0	0	0	0	11	1	2	
SOPS-Chemistry	3	0	1	0	0	2	0	0	7	2		
SOPS-Mathematics	1	0	1	0	0	0	1	0	9		1	
SOET-EECE	7	1	1	0	0	4	0	0	30	5	2	
SOET-ME	6	0	1	0	0	0	2	0	18	1	4	
SOET_CE	0	0	0	0	0	0	0	0	1			
SOET-PE	2	0	0	0	0	0	1	0	4	1	2	
SOLAM-Humanities	0	0	0	0	0	0	0	0	4			
SOLAM-Management	0	2	0	0	0	0	0	0	6			
Total	52	12	10	0	7	15	12	0	168	51	35	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, **Duration:** 1 Year **Current Status:** On-Going.

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.

Dr. Kuldeep Choudhary

3. **Project Title:** Development of LSPR based optical fiber sensors for bio-medical applications, **PI:** Dr. Kuldeep Choudhary, **CO-PI:** NA (**Project No.** DITU/R&D/2022/03/EECE), **Amount Sanctioned:** ₹ 2, 50,000, **Status:** On going.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray R. Chitme

4. **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, **Duration-**1 Year, **Current Status:** On-going.

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, **Duration-**1 Year, **Current Status:** On-going.

Dr. Dhirodatta Senapati

6. **Project Title:** Hippo signaling inhibitors, a noble therapeutic approach for the treatment of castration resistant prostate cancer (CRPC), **PI:** Dr. Dhirodatta Senapati, **CO-PI:** Dr. Havagiray R. Chitme, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2.52 Lakhs, **Duration-**1 Year, **Current Status:** On-going.

Mr. Rahul Tiwari

7. **Project Title:** Preparation and Characterization of β -Cyclodextrin Inclusion Complex Loaded Nanoparticles for Skin Cancer, **PI:** Mr. Rahul Tiwari, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 1.72 Lakhs, **Duration-**1 Year, **Current Status:** On-going.

Dr. Devendra Kumar

8. **Project Title:** Development of smart Polyplexes for the delivery of CRISPR in the brain to edit fragile X mental retardation 1 (FMR1) gene, **PI:** Dr. Devendra Kumar, CO-PI: Dr. Neeraj K Sethiya, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2.75 Lakhs, **Duration-**1 Year, **Current Status:** On-going.

Dr. Ashish Ranjan Dwivedi

9. **Project Title:** Development of Dual Amyloid β Aggregation Modulators and Metal Chelators as Neuroprotective Agents for the Treatment of Alzheimer's Disease, **PI:** Dr. Ashish Ranjan Dwivedi, CO-PI: Dr. Devendra Kumar, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2.25 Lack, **Duration-**1 Year, **Current Status:** On-going.

Dr. Uddipak Rai

10. **Project Title:** Preclinical evaluation of therapeutic potential of phlorotannins in the amelioration of type-2 diabetes and its nephropathic complication, **PI:** Dr. Uddipak Rai, CO-PI: Dr. Havagiray R. Chitme, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2 Lack, **Duration-**1 Year, **Current Status:** On-going.

Dr. Neeraj Kumar Sethiya

11. **Project Title:** Comparative nutraceutical composition and phytochemical analysis on four variety of Turmeric viz Curcuma longa, Curcuma amada, Curcuma zedoaria and Curcuma caesia for market establishment, **PI:** Dr. Neeraj K. Sethiya, CO-PI: Dr. Manisha Duseja, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 1 Lack, **Duration-**1 Year, **Current Status:** On-going.

Dr. Neeraj Kumar Sethiya

12. **Project Title:** Nutraceutical and phytochemical analysis of Mango seeds (Waste material) for the development of value added cookies (bakery product) with antidiabetic potential, **PI:** Dr. Neeraj K. Sethiya, CO-PI: Mr. Vijay S. Rana, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 0.6 Lack, **Duration-**1 Year, **Current Status:** On-going.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Rakesh Kumar Pandey

13. **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, **Duration**-1 Year, **Current Status:** On-going.

Dr. Gaurav Richhariya

14. Project Title: Development of Acid Rain Resistant Cement Additives for Improved Structural Stability, **PI:** Dr. Gaurav Richhariya, **CO-PI:** Dr. Binay Kumar Singh, **CO-PI:** Dr. Tarumay Ghoshal, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 1.32 Lack, **Duration**-1 Year, **Current Status:** On-going.

DEPARTMENT OF PHYSICS

Dr. Anil Kumar Thakur

15. Project Title: Surface controlled nano arrays in nematics, **PI:** Dr. Anil Kumar Thakur, **Funding agency:** DIT University, Seed Money, **Amount Sanctioned:** 2 Lack, **Duration**-1 Year, **Current Status:** On-going.

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.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray Chitme

2. 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 2023.

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 JAN 1-MARCH 31)

Dr. Rana Acharyya

- Project Title:** Progressive Evaluation of Failure Mechanism for Shallow Foundations on Slope, **PI:** Dr. Rana Acharyya, **Funding Agency:** SERB and Start-up Research Grant, **Project Amount:** Rs. 24.20 Lakhs, **Duration:** 2 Years **Current status:** Under Review.

IV. PUBLICATIONS

a) RESEARCH PAPERS (IN REFEREED JOURNALS) (BETWEEN JAN 1-MARCH 31)

DEPARTMENT OF EECE

Mr. Bhanu Prakash Saripalli, Dr. Gagan Singh and Dr. Sonika Singh

- B. P. Saripalli, G. Singh and S. Singh**, "A Simplified Two Diode Photovoltaic Module: Modelling and Performance Analysis", *International Journal of Computing and Digital Systems*, ISSN (2210-142X), *Int. J. Com. Dig. Sys.* 11, No.1 DOI: <https://dx.doi.org/10.12785/ijcds/110190> **[Indexed in Scopus], March 2022.**

Dr. Amrindra Pal

- B. Karki, A. Pal, Y. Singh, S. Sharma**, "Sensitivity enhancement of surface plasmon resonance sensor using 2D material barium titanate and black phosphorus over the

bimetallic layer of Au, Ag, and Cu," *Optics Communications*, Vol. 508, 2022, 127616, (2020 Thomson Reuters, <https://doi.org/10.1016/j.optcom.2021.127616>. **[Indexed in Web of Science]**, [IF: 2.31]. March 2022

3. B., Karki, S. Sharma, Y. Singh, **A. Pal**, "Sensitivity Enhancement of Surface Plasmon Resonance Biosensor with 2-D Franckeite Nanosheets", *Plasmonics*, **17**, 71-78 (2022). (2020 Thomson Reuters), <https://doi.org/10.1007/s11468-021-01495-6>. **[Indexed in Web of Science]**, [IF: 2.404], Feb 2022.
4. B. Karki, Y. Trabelsi, A. Uniyal, **A. Pal**, "Zinc sulfide, silicon dioxide, and black phosphorus-base ultra-sensitive surface plasmon biosensor", *Opt Quant Electron* 54, 107 (2022). (2020 Thomson Reuters), <https://doi.org/10.1007/s11082-021-03480-z>, **[Indexed in Web of Science]**, [IF: 2.404], Jan 2022.
5. B. Karki, S. H. Dhobi, K. Yadav, S. P. Gupta, J. J. Nakarmi, **A. Pal**, "Comparative study of boron oxides crystal with different sources X-ray production sources (Cu, Ag, Mo, and Fe)", *Materials Letters: X*, Vol. 13, 2022, 100110, <https://doi.org/10.1016/j.mblux.2021.100110>, **[Indexed in Web of Science]**, March 2022.

Mr. Ankit Jha & Dr. Amrindra Pal

6. N. Sathya, B. Karki, K. Rane, **A. Jha, A. Pal**, "Tuning and Sensitivity Improvement of Bi-Metallic Structure-Based Surface Plasmon Resonance Biosensor with 2-D ϵ -Tin Selenide Nanosheets", *Plasmonics* (2022). <https://doi.org/10.1007/s11468-021-01565-9>, **[Indexed in Web of Science]**, [IF: 2.404], Jan 2022.

Mr. Arun Uniyal & Dr. Amrindra Pal

7. B. Karki, **A. Uniyal**, T. Sharma, **A. Pal**, V. Srivastava, "Indium phosphide and black phosphorus employed surface plasmon resonance sensor for formalin detection: numerical analysis", *Optical Engineering*, vol. 61 (1), 017101 (2022). (2020 Thomson Reuters), <https://doi.org/10.1117/1.OE.61.1.017101>, **[Indexed in Web of Science]**, [IF: 1.084], Jan 2022.

Mr. Arun Uniyal, Dr. Amrindra Pal and Dr. Brajlata Chauhan

8. B. Karki, **A. Uniyal, B. Chauhan, A. Pal**, "Sensitivity enhancement of a graphene, zinc sulfide-based surface plasmon resonance biosensor with an Ag metal configuration in the visible region", *J Comput Electron* (2022). (2020 Thomson Reuters) <https://doi.org/10.1007/s10825-022-01854-4>, **[Indexed in Web of Science]**, [IF:1.807], Jan 2022

Mr. Bala Subbanna Bangi, Dr. Kuldeep Choudhary, Dr. Sonika Singh, Dr. Santosh Kumar

9. **B.S. Bangi, K. Choudhary, S. Singh, S. Kumar**, "2D material-based optical sensors: a review," *ISSS J Micro Smart Syst.* Print, ISSN: 2509-7989. [DOI:10.1007/s41683-021-00083-4](https://doi.org/10.1007/s41683-021-00083-4), Jan 2022.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (MANAGEMENT)

Dr. Vijay Kumar Jain, Dr. Pankaj Kumar & Dr. Hemraj Verma & Ms. Aditi Kumari

10. V. K. Jain, P. Kumar, H. Verma, P. Chamola, & K. Aditi, "Responsible Consumption, Consumer Well-Being, and Environment," *International Journal of Social Ecology and Sustainable Development (IJSESD)*, 13(1), 1-18. DOI: [10.4018/IJSESD.293248](https://doi.org/10.4018/IJSESD.293248) [Indexed in Scopus], March 2022.

Ms. Aditi Singhal, Dr. Praveen Dube & Dr. Vijay Kumar Jain

11. A. Singhal, P. Dube, V. K. Jain. (2022), "Modelling barriers of artificial intelligence in banking sectors using total interpretive structural modelling," *International Journal of Applied Decision Sciences* DOI: [10.1504/IJADS.2022.10044758](https://doi.org/10.1504/IJADS.2022.10044758) , [Indexed in Scopus], March 2022.

DEPARTMENT OF MECHANICAL ENGINEERING

Mr. Rahul Kumar, Mr. Siddharth, Dr. Anil K. Patil and Dr. Manoj Kumar

12. R. Kumar, S. Kumar, M. Kumar, A.K. Patil, S. Chamoli, "Study of a perforated hollow cylinder and twisted tape inserts as a compound device in a circular tube for heat transfer enhancement" *Kerntechnik*, 87(2): 137-146, DOI: <https://doi.org/10.1515/kern-2021-1030>. [Indexed in Web of Science], [IF-0.293], Feb. 2022.

Dr. Bipin Kumar

13. R. Maithani, B. Kumar, S. Sharma, S. Kumar & A. Kumar, "Effect of a unique winglet twisted tape insert on thermal and hydraulic properties of tubular heat exchanger" *Experimental Heat Transf.*, DOI: <https://doi.org/10.1080/08916152.2022.2038725> [Indexed in Web of Science], [I.F. - 4.058], Feb 2022.

Dr. Anshuman Das

14. S Pradhan, S.R. Das, A. Das, M.S. Alsoufi, A.M.M. Ibrahim, A. Elsheikh, "Machinability Investigation of Nitronic 60 Steel Using SiAlON Ceramic Tools Under Different Cooling/lubrication conditions," *materials*, Vol. 15, no. 7, pp. 1-16, ISSN: 1996-1944, DOI: <https://doi.org/10.3390/ma15072368> . [Indexed in Web of Science], [IF-3.623], March 2022.
15. A. Das, S. R. Das, A. Panda, S.K. Patel, "Experimental investigation into machinability of hardened AISI D6 steel using newly developed AlTiSiN coated carbide tools under sustainable finish dry hard turning," *Proc IMechE Part E: J Process Mechanical Engineering*, Vol. 1, no. 1, pp. 1-17, ISSN: 0954-4089, DOI: [10.1177/09544089221078137](https://doi.org/10.1177/09544089221078137). [Indexed in Web of Science], [IF-1.620], Feb 2022.
16. M. Rafighi, M. Ozdemir, A. Das, S.R. Das, "Machinability investigation of cryogenically treated hardened AISI 4140 alloy steel using CBN insert under sustainable finish dry hard turning," *Surface Review and Letters*, Vol. 1, no. 1, pp. 1-15, ISSN: 1793-6667, DOI:

<https://doi.org/10.1142/S0218625X22500470>. [Indexed in Web of Science], [IF-1.152], Feb 2022.

17. **A. Das**, M.K. Gupta, S.R. Das, A. Panda, S.K. Patel, S Pradhan, "Hard turning of AISI D6 steel with recently developed HSN2-TiAlxN and conventional TiCN coated carbide tools: comparative machinability investigation and sustainability assessment," *J Braz. Soc. Mech. Sci. Eng*, Vol. 44, no. 138, pp. 1-25, DOI: <https://doi.org/10.1007/s40430-022-03445-7>. [Indexed in Web of Science], [IF-2.220], Mar 2022.

Mr. Surya Prakash Gairola, Dr. Yogesh Kumar Tyagi and Dr. Nitin Gupta

18. **S. P. Gairola, Y. K. Tyagi, N. Gupta**, "Mechanical Properties Evaluation of Banana Fibre Reinforced Polymer Composites: A Review," DOI: <https://doi.org/10.32933/ActaInnovations.42.5>, Jan 2022.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Rakesh K. Pandey & Dr. Anil Kumar Dahiya

19. R. Purbey, H. Parijat, D. Agarwal, D. Mitra, R. Agarwal, **R. K. Pandey**, and **A. Kumar**, "Machine learning and data mining assisted petroleum reservoir engineering: a comprehensive review", *International Journal of Oil, Gas and Coal Technology*, ISSN 1753-3309, DOI: [10.1504/IJOGCT.2021.10043807](https://doi.org/10.1504/IJOGCT.2021.10043807) [Indexed in Web of Science], [IF-0.82], Jan 2022.

Mr. Rakesh Kumar Pandey & Dr. Anil Kumar

20. **R. Kumar Pandey, A. Kumar**, A. Mandal, and B. Vaferi, "Employing deep learning neural networks for characterizing dual-porosity reservoirs based on pressure transient tests," *J. Energy Resour. Technol.*, pp. 1-23, 2022. <https://doi.org/10.1115/1.4054227>, [Indexed in Web of Science] [IF-2.9], Mar 2022.

SCHOOL OF PHARMACEUTICAL & POPULATION HEALTH INFORMATICS

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

21. **M. K. Arora**, S. Pandey, **R Tomar**, **J. Sahoo**, D Kumar, A Jangra, "Therapeutic potential of policosanol in the concurrent management of dyslipidemia and non-alcoholic fatty liver disease", *Future Journal of Pharmaceutical Sciences*, Vol. 8, no. 11, pp. ISSN: 2314-7253. DOI: <https://doi.org/10.1186/s43094-022-00399-4>. [Index in Web of Science], Jan 2022.

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

22. **M. K. Arora**, A. Ratra, S.M. Asdaq, A. A. Alshamrani, A. J. Als Salman, M. Kamal, **R. Tomar**, **J. Sahoo**, J. Ashok, M. Imran, "Plumbagin Alleviates Intracerebroventricular-Quinolinic Acid Induced Depression-like Behavior and Memory Deficits in Wistar Rats", *Molecules*, Vol. 27,

no. 6, pp. 1834, ISSN: 1420-3049. DOI: <https://doi.org/10.3390/molecules27061834>.
[Indexed in Web of Science], [IF- 4.411], March 2022.

Ms. Ritu Tomar, Dr. Mandeep Kr. Arora

23. V. Gupta, A. Garg, **R. Tomar, M. K. Arora**, "Oxidative Stress: Meeting Multiple Targets in Pathogenesis of Vascular Endothelial Dysfunction", *Current Drug Targets*, Vol. 23, ISSN: 1389-4501 DOI: [10.2174/1389450123666220303090413](https://doi.org/10.2174/1389450123666220303090413). [Index in Scopus], [IF-3.465], March 2022.
24. V. D. Ashwlayan, C. Antlash, M. Imran, S. M. B. Asdaq, M. K. Alshammari, M. Alomani, E. Alzahrani, D. Sharma, **R. Tomar, M. K. Arora**, "Insight into the biological impact of COVID-19 and its vaccines on human health", *Saudi Journal of Biological Sciences*, Vol. 29, No.5, pp. 3326-3337, ISSN: 1319-562X. DOI: <https://doi.org/10.1016/j.sjbs.2022.02.010> [Index in Web of Science], [IF-4.219], Feb. 2022.
25. S. K. Sharma, P. Bhatt, S.M.B. Asdaq, M. K. Alshammari, A. Alanazi, N. S. Alrasheedi, B. A. Alrashdi, S. S. Alyami, B. H. Alhazmi, P. Alam, P. Sharma, **R. Tomar, M. K. Arora**, M. Imran, "Combined Therapy with Ivermectin and Doxycycline can effectively alleviate the Cytokine Storm of COVID-19 Infection amid Vaccination Drive: A Narrative Review", *Journal of Infection and Public Health*, ISSN: 1876-0341. DOI: <https://doi.org/10.1016/j.jiph.2022.03.014> [Index in Web of Science], [IF- 3.718], March 2022.
26. A. Chaudhary, **R. Tomar**, B. S. Mohammed, M. Imran, S. S. Alaqel, A. F. Alamri, W. Alsanie, M. Alhomrani, **M. K. Arora**, D. Bisht, K. Dua, R.K. Kant, S. Singh, N. Nayeem, "In silico Screening of Phytochemicals as Potential Inhibitors of SARS-CoV-2 Mpro and Human ACE-2", *International Journal of Pharmacology*, Vol. 18, No. 1, pp. 104-115. ISSN: 1811-7775. DOI: <https://doi.org/10.3923/ijp.2022.104.115>. [Index in Web of Science], [IF- 0.751], March 2022.

Dr. Mandeep Kr. Arora, Ms. Ritu Tomar

27. **M. K. Arora**, D. Singh, **R. Tomar**, A. Jangra, "Neuroprotective Efficacy of Edaravone against Arsenic-Induced Behavioral and Neurochemical Deficits in Rats: Amelioration of Cholinergic and Mitochondrial Functions", *CNS & Neurological Disorders Drug Targets*, Vol. 21 ISSN: 1871-5273. DOI: [10.2174/1871527321666220225112241](https://doi.org/10.2174/1871527321666220225112241) [Index in Web of Science], [IF-4.388], Feb. 2022.

Dr. Manmohan Singhal

28. R. Gupta, **M. Singhal**, Nimisha, "Transferosomes as an efficient carrier system for better therapeutic response of targeted drug delivery system", *Research J. Pharm. and Tech*, Volume 15 Issue 2, 913-920, ISSN: 0974-360X, DOI: [10.52711/0974-360X.2022.0015](https://doi.org/10.52711/0974-360X.2022.0015), [Indexed in Scopus], [IF=1.203], Feb 2022.

29. M. Malarvizhi, K. Chandra Sekhar, **M. Singhal**, MI Anees, AA Raval, S. Binny, "Detection of infections on biomedical devices and prevention with nano technology based bio materials", *International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)*, Volume 10 Issue 11, 976-987, ISSN: 2277-4998, DOI: <https://doi.org/10.31032/IJBPAS/2021/10.11.1084>, **[Indexed in Web of Science]**, **[IF=1.709]**, Dec 2021.

Dr. Bhavna, Dr. Manmohan Singhal, Dr. Sameer Bhargava

30. A. Ojha, **Bhavna, M. Singhal, S. Bhargava**, "Acute Toxicity Studies and Pharmaceutical Effectiveness of Biopolymer from Pulp of *Lageneria siceraria*", *Current Trends in Biotechnology and Pharmacy*, Volume 15 Issue 6, 10-13, ISSN 0973-8916 & 2230-7303, DOI: <https://doi.org/10.5530/ctbp.2021.6.3>. **[Indexed in Scopus]**, **[IF=0.477]**, Jan 2022.

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

31. **F. I. Himasa, M. Singhal, A. Ojha, Bhavna Kumar**, "Prospective for diagnosis and treatment of diabetic retinopathy", *Current Pharmaceutical Design*, 2022, 28 (7), 560-569. [Scopus/ Web of Science], ISSN: 1873-4286. Online ahead of print, doi: [10.2174/1381612827666211115154907](https://doi.org/10.2174/1381612827666211115154907) **[IF :3.116]**, March 2022.

Dr. Md. Habban Akhter

32. **Md. H. Akhter**, I. Ahmad, , M. Y. Alshahrani, Alhanouf I. Al-Harbi, H. Khalilullah, O. Afzal, Abdulmalik S. A. Altamimi, S. N. Mir N. Ullah, A. Ojha, S. Karim, "Drug Delivery Challenges and Current Progress in Nanocarrier-Based Ocular Therapeutic system," *Gels* 2022, 8(2), 82; <https://doi.org/10.3390/gels8020082>. **[Indexed Web of Science]** **[IF-4.7]**, Jan 2022.
33. S. Karim, **Md. H. Akhter**, I. Ahmad, , M. Y. Alshahrani, Alhanouf I. Al-Harbi, H. Khalilullah, O. Afzal, Abdulmalik S. A. Altamimi, S. N. Mir N. Ullah, Shadab Md. Phytosterol-Loaded Surface-Tailored Bioactive-Polymer Nanoparticles for Cancer Treatment: Optimization, In Vitro Cell Viability, Antioxidant Activity, and Stability Studies. *Gels* 2022, 8(4), 219; <https://doi.org/10.3390/gels8040219>. **[Indexed Web of Science]**, **[IF-4.7]**, March 2022.
34. M. J. Ansari, M. Rahman, K. S. Alharbi, W. M. Altowayan, A. M. A. Ali, W. H. Almalki, Md. A. Barkat, T. Singh, S. Nasar, **Md H. Akhter**, Sa. Beg, and H. Chaudhry, "Hispolon-Loaded Liquid Crystalline Nanoparticles: Development, Stability, In Vitro Delivery Profile, and Assessment of Hepatoprotective Activity in Hepatocellular Carcinoma," *ACS Omega*, <https://doi.org/10.1021/acsomega.1c06796> **[Indexed in Web of Science]**, **[IF-3.51]**, March 2022.

DEPARTMENT OF PHYSICS

Dr. Samta Manori

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Dr. Natasha Awasthi, Dr. Dheeraj Kumar Joshi & Dr. Surbhi Sachdev

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12. **H. Pandey, Y. P. Singh, Y. Singh, P. Singh, M. Diwakar and N. K. Pandey** "Comparative analysis of different mining approaches for Blockchain in infant care application on IoT" in *5th IEEE International Conference on Information Systems and Computer Networks (ISCON-2021)*, Mathura U.P. India DOI: [10.1109/ISCON52037.2021.9702357](https://doi.org/10.1109/ISCON52037.2021.9702357) [Indexed in Scopus], Feb 2022.

13. M Diwakar, R Pandey, R Sharma, S Saun, P Singh and **N. K. Pandey**, "Internet of Medical Things: A CT image denosing in tetrolet domain" in *5th IEEE International Conference on Information Systems and Computer Networks (ISCON-2021)*, Mathura U.P. India DOI: [10.1109/ISCON52037.2021.9702462](https://doi.org/10.1109/ISCON52037.2021.9702462) [**Indexed in Scopus**], **Feb 2022.**
14. P. Singh, M. Koranga, R. Prasad, A. Dubey, M. Diwakar and **N K Pandey** "E-MFIF-NSST: Entropy-based Multi-Focus Image Fusion technique in NSST domain" in 5th IEEE International Conference on Information Systems and Computer Networks (ISCON-2021) Mathura U.P. India DOI: [10.1109/ISCON52037.2021.9702327](https://doi.org/10.1109/ISCON52037.2021.9702327) [**Indexed in Scopus**], **Feb 2022.**
15. A Kothari, P Vashishtha, P Singh, M Diwakar and **N K Pandey**, "Ensemble Methods On NSL-KDD" in *5th IEEE International Conference on Information Systems and Computer Networks* Mathura U.P. India (ISCON-2021) DOI: [10.1109/ISCON52037.2021.9702439](https://doi.org/10.1109/ISCON52037.2021.9702439) [**Indexed in Scopus**], **Feb 2022.**

Dr. Megha Bhushan

16. R. Goel, A. Bansal, S. Sharma, K. Verma, **M. Bhushan** and A. Kumar, "An insight on Latest Technologies of Cyber Security", in *3rd International Conference on Emerging Technologies in Data Mining and Information Security*, Springer, **Feb, 2022.**
17. S. N. Singh and **M. Bhushan**, "Smart ECG Monitoring and Analysis System using Machine Learning", in *3rd IEEE Conference on VLSI Device, Circuit and System*, **Feb, 2022.**
18. S. Pal, N. Mishra, P. S. Kholiya, M. Rana, **M. Bhushan** and A. Negi, "Deep Learning Techniques for Prediction and Diagnosis of Diabetes Mellitus", in *IEEE International Mobile and Embedded Technology Conference (MECON - 2022)*, doi: [10.1109/MECON53876.2022.9752176](https://doi.org/10.1109/MECON53876.2022.9752176), **March, 2022.**
19. M. Rana and **M. Bhushan**, "Advancements in Healthcare Services using Deep Learning Techniques," in *IEEE International Mobile and Embedded Technology Conference (MECON - 2022)*, doi: [10.1109/MECON53876.2022.9752020](https://doi.org/10.1109/MECON53876.2022.9752020), **March, 2022.**
20. U. Verma, C. Garg, **M. Bhushan**, P. Samant, A. Kumar, and A. Negi, "Prediction of students' academic performance using Machine Learning Techniques," in *IEEE International Mobile and Embedded Technology Conference (MECON - 2022)*, DOI: [10.1109/MECON53876.2022.9751956](https://doi.org/10.1109/MECON53876.2022.9751956). **March, 2022.**
21. P. Rai, E. E. Kothari, **M. Bhushan** and A. Negi, "Vehicle Theft Identification using Machine Learning and OCR" in *4th International Conference on Machine Intelligence and signal Processing (MISP 2022)*, Springer, NIT Raipur, **March, 2022.**

Dr. Sarvesh Vishwakarma

22. **S. Vishwakarma**, B. Chilwal, "Detection and classification of leaf blast disease using decision tree algorithm in rice crop," *3rd International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-2022)*, Accepted for publication in Mathematics and Computer Science Volume 2: Industrial Applications by Scrivener Publishing, USA, **Feb 2022**.

e) ATTENDED CONFERENCE/SYMPOSIUM/WORKSHOP AND INVITED TALKS (BETWEEN JAN 1-MARCH 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Akhilesh Kumar

1. Paper presented on the Title: Pneumatic waste collection system a proposed innovation for IITR, Campus at 1st International Conference on Design Innovations and Management for Sustainable Environment (ICDIMSE 2022), Satyabhama Institute of Science and Technology, Chennai on 16th **March 2022**.
2. 5-days online course and workshop on the topic: "IEC (Information education communication) and BCC (Behaviour Change Communication) in Solid Waste Management online training programme" from **February 7th to February 11th, 2022** organized by the Centre of Science and Environment, N. Delhi, AAETI.

DEPARTMENT OF CHEMISTRY

Dr. Suheel Porwal

1. **Dr. Suheel Porwal** Participated in a one-week FDP virtually organized jointly by GMR Institute of Technology and NIT Warangal on "Green Technologies towards Sustainable Future (GTTSF 2022) from **08-12 March.2022**
2. **Dr. Suheel Porwal** attended a virtual symposium organized by American Chemical Society on **23 Feb_2022** about "**Why You Need to Care about Ethics**" given by **KELLY ELKINS** - Associate Professor of Chemistry, Towson University, **SUSAN SCHELBLE** - Professor, Department of Chemistry and Biochemistry, Metropolitan State University of Denver and **JUDITH CURRANO** - Head, Chemistry Library, University of Pennsylvania.
3. Dr. Suheel Porwal attended a virtual symposium organized by American Chemical Society on **14 Feb_2022** about "10 Tips for Creating Abstracts with Substance and Style" given by OSVALDO OLIVEIRA JR. Executive Editor, ACS Applied Materials & Interfaces and Professor, São Carlos Institute of Physics and Regiane Bracchi Manager, Latin America, ACS Publications.

Dr. Naveen Singhal

4. **Dr. Naveen Singhal**, chaired the session in the international Conference Recent Advances in Applied Sciences (ICRAAS) organized by the Department of Chemistry, Maharishi Markandeshwar (Deemed to be University), Mullana, India in association with World Researchers Association (WRA) during **March 23-24, 2022**.
5. **Dr. Naveen Singhal**, attended the national seminar on 'Advance Functional Materials' organised by Department of Applied Sciences in association with Materials Research Society of India from **Feb 24th -25th 2022**.

DEPARTMENT OF EECE

Dr. Gagan Singh

1. **Dr. Gagan Singh** organized a webinar on 'Smart City, Smart Energy and Industry 4.0' under the flagship of ICEIT-DITU on **23rd Feb'2022**, in collaboration with Schneider Electric
2. **Dr. Gagan Singh** served as member of Technical Committee in 2nd IEEE International Conference on "Power Electronics and IoT Applications in Renewable Energy and its Control (PARC 2022) organized by GLA University, Mathura, India during 21st - 22nd **January, 2022**.
3. **Dr. Gagan Singh**, has successfully participated in IP Awareness/Training program under National Intellectual Property Awareness Mission on **25th February 2022**, organized by Intellectual Property Office, India
4. **Dr. Gagan Singh** chaired a session of 2nd IEEE International Conference on "Power Electronics and IoT Applications in Renewable Energy and its Control (PARC 2022) organized by GLA University, Mathura, India during 21st - 22nd **January, 2022**.

Dr. Sonika Singh

5. **Dr. Sonika Singh** organized webinar under the aegis of ICEIT DITU Organisational Member on 'Smart City, Smart Energy and Industry 4.0' on **23rd Feb'2022**, in collaboration with Schneider Electric. Speaker: Mr. Mehul Shah, Senior Manager - Education & Training, Schneider Electric; Moderator: Dr. Gagan Singh, Professor EECED, DIT University
6. **Dr. Sonika Singh**, has successfully participated in Training program on 'IP Awareness' under National Intellectual Property Awareness Mission on **25th February 2022**, organized by Intellectual Property Office, India.

Mr. S Bhanu Prakash

7. Attended in one week online Short-Term Training Programme on "Tomorrow's Electrical Power Grid: Challenges, Trends and Upcoming Paradigms" organized by the Department of Electrical Engineering, ST. FRANCIS INSTITUTE OF TECHNOLOGY and co-sponsored by IEEE Bombay Section, **Jan 3th - 7th, 2022**.

8. Attended Webinar series on “Communication & Information Technology” organised by IETE SF, EECE DITU in collaboration with DEAL, DRDO, Dehradun, **Jan 13th – 28th, 2022.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Neeraj Kumar Sethiya

1. **Dr. Neeraj Kumar Sethiya** delivered virtual invited talk entitled as ‘Entrepreneurship and Startup possibilities in Pharmaceuticals and Healthcare Industries through Ideation, research and Innovation’ as a Resource person for AICTE sponsored International conference on “Natural Products for discovery and development towards healthier life in the 21st century: research, innovation and ideas” conducted by Modern Institute of Pharmaceutical Sciences, Indore, India on **12th March 2022.**
2. **Dr. Neeraj Kumar Sethiya** delivered physical invited talk entitled as ‘Innovation and Intellectual Property Right Protection: Prospects with Higher Education’ a Resource person for UCOST sponsored workshop on “Intellectual Property Rights and IP Management for Startup” conducted by Shivalik Engineering College, Dehradun, India on 11th March 2022.
3. **Dr. Neeraj Kumar Sethiya** completed Short Term Certificate Course (30 hrs) on Intellectual Property from 1st Feb 2022 to 28th Feb 2022 jointly conducted by IPR Cell and Center of Teaching and Learning, DIT University and IPTSE Academy.

Dr. Rajeev Kr. Sharma

4. **Dr. Rajeev Kr. Sharma** completed short-term Certification course (30 Hrs Duration) on Intellectual Property organised by IPR cell and centre of Teaching and Learning DIT University and IPTSE academy in association with Ericsson from 1st Feb to 28th February 2022 at DIT University.

Dr. Uddipak Rai

5. **Dr. Uddipak Rai** attended conference on “Adverse Drug Reactions: Issues and Challenges during COVID-19” held on 10th-11th January, 2022 at School of Health Sciences and Technology, UPES, Dehradun, UK, India.
6. **Dr. Uddipak Rai** attended an IP Awareness/Training program under “National Intellectual Property Awareness Mission” held on 25th February, 2022 organized by Intellectual Property Office, India.
7. **Dr. Uddipak Rai** attended an International Faculty Development Program on “Basics of Research Statistics” held on 1st-3rd March, 2022 through online mode organized by A2Z EduLearning Hub.

Dr. Bhavna

8. **Dr. Bhavna** successfully participated in IP Awareness/Training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on February 25, 2022.

Dr. Havagiray Chitme

9. **Dr. Havagiray Chitme** attended 30 Hrs. Short-Term Course on IP Organized in Association with IPTSE and Ericsson as Knowledge Partners, 1-28th Feb, 2022, DIT University Dehradun.
10. **Dr. Havagiray Chitme** attended 'Awareness and Training program on IP' to commemorate the 75th Anniversary of India's Independence 'Azadi ka Amrit Mahotsav'. The program was conducted by the Indian Patent Office, Ministry of Commerce & Industry, Government of India under the special drive National Intellectual Property Awareness Mission (NIPAM) for students and faculty members. 25th Feb, 2022.

Dr. Rajeev Kr. Sharma

11. **Dr. Rajeev Kr. Sharma** attended and successfully completed five-day Webinar Organised by UGC on Universal Human Values from 21 to 25th February 2022.

Dr. Bhavna

12. **Dr. Bhavna** presented e-poster on "Repurposing of Linagliptin as Anti-Diabetic to Anti-Alzheimer's", at 20th International e-symposium on "ADVANCES IN TECHNOLOGY & BUSINESS POTENTIAL OF NEW DRUG DELIVERY SYSTEM", 24th-26th Feb. 2022, by Controlled Release society, Indian Chapter.

DEPARTMENT OF PHYSICS

Dr. Natasha Awasthi

1. **Dr. Natasha Awasthi** delivered an **Invited Talk** on "Universal Quantum uncertainty between loss of information and non-ergodicity", at International Conference ICQIF-2022 organized by Physics and Applied Mathematics Unit, Indian statistical Institute Kolkata, INDIA, **14-24 Feb 2022**.

Dr. Samta Manori

2. **Dr. Samta Manori** attended the ACS Science Talk on First principle computational chemistry: From Molecules to Materials, 25th February 2022.
3. **Dr. Samta Manori** attended the ACS Science Talk on Semiconductor Nanostructures for Optoelectronics Applications, **4th March 2022**.
4. **Dr. Samta Manori** attended National Seminar on Advanced Functional Materials organized by Department of Applied Sciences MAIT Rohini, Delhi in association with Materials Research Society, India, **24th - 25th February 2022**.
5. **Dr. Samta Manori** participated in one-week **short term course** on Emerging trends and Modelling in Advanced Functional Materials and Devices organized by NIT Jalandhar, Punjab, India, **28th March - 1st April 2022**.

Dr. Parveen Kumar

6. **Dr. Parveen Kumar** delivered an **Expert lecture** on Novel Processing Techniques for Ferroelectric Materials (14.02.2022) in UGC sponsored Two-week Online Interdisciplinary Refresher Course on Advanced Instrumentation Techniques [07.02.2022 to 19.02.2022] being organised by Human Resource Development Centre (Erstwhile ASC), Guru Jambheshwar University of Science and Technology, Hissar.
7. **Dr. Parveen Kumar** attended one **AICTE FDP** on Characterization Tools and Techniques conducted by Applied Science Department, NITTTR Chandigarh from **07.02.2022 to 11.02.2022 (1 Week)**.
8. **Dr. Parveen Kumar** participated in Two days' workshop on Renewable Energy: Materials and Devices conducted by NITTTR Chandigarh from **03.02.2022 to 04.02.2022 (online mode)**.
9. **Dr. Parveen Kumar** attended Two Day National Seminar on Advanced Functional Materials organized by Maharaja Agrasen Institute of Technology (MAIT), Delhi, **from 25.02.2022 to 26.02.2022**,
10. **Dr. Parveen Kumar** attended Two Day International Conference on Integrated Approaches in Science & Technology for Sustainable Future "IASTSF-2022", organised by J.C. Bose University of Science and Technology, YMCA, Faridabad from **28.02.2022 to 01.03.2022**.

Dr. Manoj Bhatnagar

11. **Dr. Manoj Bhatnagar** attended **STC** on Analytical Techniques for Materials Characterization conducted by NITTTR Chandigarh from **7-03-2022 to 11-03-2022**.
12. **Dr. Manoj Bhatnagar** completed **four-week online course** on Introduction to Nanoscience conducted by uLektz Academy.
13. **Dr. Manoj Bhatnagar** attended one **AICTE FDP** on Characterization Tools and Techniques conducted by Applied Science Department, NITTTR Chandigarh from **07.02.2022 to 11.02.2022 (1 Week)**.
14. **Dr. Manoj Bhatnagar** participated in Two days' workshop on Renewable Energy: Materials and Devices conducted by NITTTR Chandigarh from **03.02.2022 to 04.02.2022 (online mode)**.
15. **Dr. Manoj Bhatnagar** attended Two Day National Seminar on Advanced Functional Materials organized by Maharaja Agrasen Institute of Technology (MAIT), Delhi, from **25.02.2022 to 26.02.2022**.
16. **Dr. Surbhi Sachdev** attended one **AICTE FDP** on Characterization Tools and Techniques conducted by Applied Science Department, NITTTR Chandigarh from **07.02.2022 to 11.02.2022 (1 Week)**.

17. **Dr. Surbhi Sachdev** participated in Two days workshop on Renewable Energy: Materials and Devices conducted by NITTTR Chandigarh from **03.02.2022 to 04.02.2022 (online mode)**.
18. **Dr. Surbhi Sachdev** attended Two Day National Seminar on Advanced Functional Materials from 25.02.2022 to 26.02.2022, organized by Maharaja Agrasen Institute of Technology (MAIT), Delhi from **25.02.2022 to 26.02.2022**.
19. **Dr. Surbhi Sachdev** Attended Two Day International Conference on Integrated Approaches in Science & Technology for Sustainable Future "IASTSF-2022" organised by J.C. Bose University of Science and Technology, YMCA, Faridabad from **28.02.2022 to 01.03.2022**,

Dr. Vishakha Kaushik

20. **Dr. Vishakha Kaushik** attended a virtual International Conference on "Hierarchically structured materials (ICHSM-2022)" from **March 24-25, 2022**.
21. **Dr. Vishakha Kaushik** Attended a national Seminar on "Advanced Functional Materials" sponsored by DRDO from **February 24-25, 2022**.

Dr. Ravi Shukla

22. **Dr. Ravi Shukla** attended the ACS Science Talk on Laser spectroscopy applications to biology and medicine, **28th January 2022**.
23. **Dr. Ravi Shukla** attended the ACS Science Talk on First principle computational chemistry: From Molecules to Materials, **25th February 2022**.
24. **Dr. Ravi Shukla** attended the ACS Science Talk on Semiconductor Nanostructures for Optoelectronics Applications, **4th March 2022**.
25. **Dr. Ravi Shukla** attended National Seminar on Advanced Functional Materials organized by Department of Applied Sciences MAIT Rohini, Delhi in association with Materials Research Society, India, **24th - 25th February 2022**.
26. **Dr. Ravi Shukla** participated in **one-week short term course** on Emerging trends and Modelling in Advanced Functional Materials and Devices organized by NIT Jalandhar, Punjab, India, **28th March - 1st April 2022**.

Dr. Sonam Mahajan

27. **Dr. Sonam Mahajan** Mishra presented a poster on "Effects of Quadratic Coupling on Optical Response of a hybrid optomechanical cavity assisted by a Kerr nonlinear medium" in an online international conference on Recent Advances in Functional Materials (RAFM-2022) organized by Atma Ram Sanatan Dharma College (University of Delhi), **14-16 march 2022**.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (MANAGEMENT)

Ms. Anjali Dimre & Dr. Pankaj Kumar

1. Ms. Anjali Dimre and **Dr. Pankaj Kumar** (2022), presented paper on title “Stress, Depression and Anxiety: The effect of Covid-19 on IT employees in India during **28th march to 29th March 2022** organized by IMS University, Dehradun

Ms. Anu Gupta & Dr. Vijay Kumar Jain

2. **Anu Gupta** and **Vijay Kumar Jain** presented a research paper titled “Moving towards: Embracing Minimalism as a way of Life” in national E- conference organised by School of Management, IMS Unison University Dehradun on **March 28-29, 2022.**

Dr. Vijay Kumar Jain

3. **Vijay Kumar Jain** and Varghese Joy presented research paper titled” Responsible consumption and its Linkage to Consumer Wellbeing” in International Conference on Sustainable Marketing for better world, organized, by Rajagiri Business School Kocchi on **4-5 February 2022.**

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Monika Srivastava

1. Session taken for faculty members on ‘Effective Learning Styles’ in Faculty Development Program during **25-26 March 2022** at DIT University, Dehradun.
2. Chaired the International Seminar on ‘Trends and Future Possibilities in Humanities and Social Sciences’ **25-26 march, 2022.** Organized by School of Liberal arts and Management, DIT University, Dehradun.

Mr. Ram Kumar Gupta

3. Talk on Stress Management in Faculty Development Program during **25-26 March 2022** at DIT University, Dehradun.

Dr. Vikash Kumar Mishra

4. International Seminar on ‘Trends and Future Possibilities in Humanities and Social Sciences’ **25-26 march, 2022.** Organized by School of Liberal arts and Management, DIT University, Dehradun.

Dr. Deepesh Kumar Thakur

5. 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.**
6. Participated in “Innovation Hub”, Seed Inaugural program organised by Rein Labs-Research, Innovation & Incubation India, **24th December 2021.**

7. Attending in “Turnip Innovation Festival”, an International Symposium organised by Andhra University on **22nd Jan 2022**.
8. Empowering Diversity in Science”, an international webinar organised by Kamla Nehru Mahavidyalaya, Nagpur-Maharashtra on **16th February 2022**.
9. Co-Convener in “Interdisciplinary International Seminar on “Trends and Future Possibilities in Humanities and Social Sciences”, organised by School of Liberal Arts and Management, DIT University, Dehradun-India, India on **March 25-26, 2022**.
10. “Water Quality, Biodiversity, Global Environmental Issues and Solutions”, National Conference on WORLD WATER DAY CONCLAVE 2022, for Presenting Paper online, Title- “Globalization in National Conference (Hybrid Mode) World Water Day Conclave”, on **22 March 2022** organised by Department of Science & Technology, Ajmer, Rajasthan University, Rajasthan.
11. 6th SHODH- 2022, 6th” Doctoral Conference on Multi-Disciplinary Approach to Research: Emerging Paradigms, National Conference on WORLD WATER DAY CONCLAVE 2022, for Presenting Paper entitled “INDIAN ENGLISH LANGUAGE AND COMMUNICATION”, organised by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.

Dr. Sakshi Semwal

12. Presented a paper Entitled Historical, Regional and Cultural Consciousness: A study of Oral traditions and Folklore of Uttarakhand in YOUNG RESEARCHERS’ CONFERENCE ON INDIAN LITERATURES Organized by Department of Languages, Presidency University, Bengaluru in Collaboration with National Institute of Indian Languages, Mysuru and Sahitya Akademi, New Delhi on **21-22 January 2022**.
13. Presented a paper Entitled “Preeti Monga’s Other Senses: Analyzing the connection between Sexuality and Disability” in a national webinar on Literature and Disability: New Paradigms organized by department of English, ARSD college, New Delhi on **22nd Feb 2022**.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. A. Sivasakthi

1. Dr. A. Sivasakthi: Attended a One-day National Level Workshop on “Academic and Research Writing” organized by Shri Muktanand College, Gangapur, India, **January 4, 2022**.
2. Dr. A. Sivasakthi: Attended a One-day Faculty Development Programme on “Applications of Artificial Intelligence in Real time Domains” organized by Karpagam College of Engineering, Coimbatore, India, **January 7, 2022**.
3. Dr. A. Sivasakthi: Attended Five-days AICTE ATAL Faculty Development Programme on “Advanced Experimental and Simulation Research Trends in Chemical Engineering” conducted by NIT Hamirpur, Himachal Pradesh, India, **January 7-11, 2022**.

4. Dr. A. Sivasakthi: Attended Two-days SPARC sponsored IITH-Hokkaido University Workshop on “Hot and Multi Electron Mediated Photoelectrochemical Methods of High Efficiency Water Splitting” organized by IIT Hyderabad, India, **January 21-22, 2022**.
5. Dr. A. Sivasakthi: Attended Five-days AICTE ATAL Faculty Development Programme on “Management of Hydrocarbon Exploration and Production Waste” conducted by Dibrugarh University, Assam, India, **February 07-11, 2022**.
6. Dr. A. Sivasakthi: Attended a Short-Term Course on “Recent Advances in Oil and Gas Production Enhancement” conducted by Rajiv Gandhi Institute of Petroleum Technology, Amethi, Uttar Pradesh, India, **February 14-18, 2022**.
7. Dr. A. Sivasakthi: Attended Five-days National Level Faculty Development Programme on “Methods of Material Synthesis” organized by Bhavan’s Vivekananda College, Sainikpuri, Secunderabad, India, **February 18-22, 2022**.
8. Dr. A. Sivasakthi: Attended Five-days AICTE ATAL Faculty Development Programme on “Workshop on Advanced Research Methodology” conducted by Government of Maharashtra Sydenham Institute of Management Studies Research and Entrepreneurship Education, India, **February 21-25, 2022**.
9. Dr. A. Sivasakthi: Attended One-week Faculty Development Programme on “Recent Trends in Upstream Petroleum Technology” conducted by Dibrugarh University, Assam, India, **March 7-11, 2022**.
10. Dr. A. Sivasakthi: Attended a webinar on “offshore Installations and Cargo Transport for Oil & Gas Industry” by Mr. Anil Kumar Sachan, Former Executive Director, ONGC, conducted by Department of Petroleum and Energy Studies, DIT University, **March 19, 2022**.
11. Dr. A. Sivasakthi: Attended a webinar on “Rewired: Intelligent Drilling Operations in Real Time” by Dr. Robello Samuel, Adjunct professor at the University of Houston, conducted by Department of Petroleum and Energy Studies, DIT University, **March 24, 2022**.
12. Dr. A. Sivasakthi: Attended Two-days Faculty Development Programme on “Effective Classroom Engagement by Enhancing Personal Effectiveness” conducted by Teaching-Learning Centre, DIT University, India, **March 25-26, 2022**.
13. Dr. A. Sivasakthi: Attended Two-days DITU Student Chapter SPETECH FEST conducted by Department of Petroleum and Energy Studies, DIT University, **March 30-31, 2022**.

DEPARTMENT OF MATHEMATICS

Dr. Seema Yadav

14. **Dr. Seema Yadav** participated in an International workshop on “Data Analysis using R Commander” from **Feb. 20th -22nd, 2022**, conducted by Global Institute of Statistical Solutions.
15. **Dr. Seema Yadav** Participated in a workshop on “Computational Mathematical Software (Mathematica, Maxima & R)” from **Feb. 22nd -28th, 2022**, organized by Department of Mathematics, Atma Ram Sanatan Dharma College, University of Delhi.

Dr. Shilpi Singhal

- 16. Dr. Shilpi Singhal** Participated in FDP on “Astronomy and Astrophysics” conducted by AICTE Training and learning (ATAL) Academy from **21 Feb '22 to 24 Feb '22** at Regional Science centre and Planetarium Calicut.
- 17. Dr. Shilpi Singhal** Participated in training program under National Intellectual Property Awareness Mission on **25 Feb'2022** conducted by Government of India, Ministry of commerce and Industry.

Dr. Awadhesh Kumar Pandey

- 18. Dr. Awadhesh Kumar Pandey** participated and successfully completed five days international webinar on “Industrial Mathematics and Scientific Computing”, organized by the Department of Mathematics, BMS Institute of Technology and Management, Bengaluru, India, during **Jan 10-14, 2022**.
- 19. Dr. Awadhesh Kumar Pandey** participated and successfully completed one week workshop on “Computational Mathematical Software (Mathematica, Maxima & R)”, organized by the Department of Mathematics, Atma Ram Sanatan Dharma College, University of Delhi, India, during **Feb. 22-28, 2022**.
- 20. Dr. Awadhesh Kumar Pandey** participated and successfully completed one-week workshop on “Research Methodology & Data Analysis Using Open-Source Software”, organized by RGSC Banaras Hindu University Varanasi, India, during **March 8-12, 2022**.
- 21. Dr. Awadhesh Kumar Pandey** attended invited talk on “Finance and Data Science” organized by the Department of Mathematics, School of Basic and Applied Sciences, Adamas University on February 02, 2022, in virtual mode.
- 22. Dr. Awadhesh Kumar Pandey** attended invited talk on “Machine Learning Techniques and its Applications” organised by the Department of Mathematics, School of Basic and Applied Sciences, Adamas University on **26-02-2022** in virtual mode.

Dr. Pooja Swaroop Saxena

- 23. Dr. Pooja Swaroop Saxena, chaired a session** in International Conference on “Advancement in Science, Management & Engineering (ICSME) organized by Nrupathunga University, Bengaluru on 26th & 27th **February, 2022**..

SCHOOL OF COMPUTING

Ms. Vishakha Arya

- 1. Ms. Vishakha Arya**, participated in 2 Days Faculty Development Program on "Effective Classroom Engagement by Enhancing Personal Effectiveness" during **March 25-26, 2022**, organized by Teaching-Learning Centre, DIT University, Dehradun.

Dr. Narendra Kumar

2. **Dr. Narendra Kumar**, Paper presented “Application of Internet of Things in Image Processing”, in IEEE DELCON 2022(The Maiden Edition of IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering), Organised by NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY, NEW DELHI, INDIA, Held between **11th-13th February 2022**.
3. **Dr. Narendra Kumar**, Participation in International Conference on Intelligent Systems (ICIS-2022), Organised by Uttaranchal University, Dehradun, Uttarakhand, held between 11th -12th March 2022.

Ms. Khushboo Jain

4. **Valued Speaker** in the One Week Online Faculty Development Programme on the topic “**Designing Machine Learning Using Python**” on **20th January 2022** at Ramanujan College (University of Delhi) under the aegis of **Ministry of Education** (Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching).
5. Successful Participation and Completion of one week FDP on “**Artificial Intelligence, Robotics and Automation**”, from **9th March 2022 to 14th March 2022**, at Banasthali Vidyapeeth under the scheme of **CURIE-AI, DST, Govt. of India**.

Dr. Megha Bhushan

6. **Dr. Megha Bhushan** has chaired a Session on Data Science and Data Analytics II in 3rd International Conference on Emerging Technologies in Data Mining and Information Security Organized by Institute of Engineering and Management Group, KOLKATA, Technically Sponsored by: The Smart Society, USA, Scientific Innovation Research Group (SIRG), Egypt, Scientific Research Group in Egypt (SRGE), Egypt, SETIT Research Lab. Sfax University –Tunisia, **23rd-25th February 2022** (Hybrid Mode)
7. **Dr. Megha Bhushan**, Technical Program Committee of the 4th International Conference on Machine Intelligence and Signal processing (MISP2022) organized by National Institute of Technology Raipur, India, during **12-14 March, 2022**.
8. **Dr. Megha Bhushan** has chaired a session in IEEE VLSI DCS 2022, organized by IEEE EDS MSIT Student Branch Chapter on **26th-27th February, 2022**.

Dr. Kriti

9. **Dr. Kriti** attended and successfully completed AICTE Training and Learning Academy (ATAL) FDP on “Deep Learning and Computer Vision”, from **Jan 03-07, 2022**, organized by Manipal University, Jaipur.
10. **Dr. Kriti** attended a Webinar on **Artificial Intelligence (AI) and Mass Media**, organized by BVICAM, New Delhi on **Jan. 29, 2022**.

11. Dr. Kriti attended and successfully completed FDP on “Effective Classroom Engagement by Enhancing Personal Effectiveness” from **Mar 25-26, 2022** organized at DIT University, Dehradun.

Dr. Hemraj Saini

12. Keynote Speaker, “*On IoT, Cloud, Edge and Machine Learning*”, International conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications, 28-29 March 2022, CMR Institute of Technology, Kandlakoya, Medchal Road, Hyderabad-501401, Telangana, India. **March 2022.**

Dr. Deepshikha Bhargava

13. Dr. Deepshikha Bhargava served as **resource person and Judge** in National Environment Youth Parliament (NEYP) 2022- Regional Level jointly organized by RV University, M. S. Ramaiah Institute of Applied Sciences and JAIN (Deemed-to-be University), Bangalore on **23 Jan 2022.**

Dr. Anurag Aeron

14. Dr. Anurag Aeron has participated in One - Week Online Joint Faculty Development Programme on “*Machine Learning Application in Signal Processing and Communication Engineering*” jointly organised by Electronics and ICT Academies held from *03 - 08 January, 2022* under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the *Ministry of Electronics and Information Technology (MeitY), Government of India.*

Mr. Chandra Prakash

15. Chandra Prakash has successfully completed MOOC Course with honors on “**IoT Devices**” authorized by University of Illinois at Urbana-Champaign and offered through Coursera, **Jan 2022.**

Mr Anuj Kumar Yadav

16. One Week ONLINE Faculty Development Program(FDP) on “Recent Trends in Cyber Security and Machine Intelligence”, organized by Inderprastha Engineering College, Ghaziabad, from **January 31- February 4, 2022.**

Mr. Nitin Thapliyal

17. FDP on "Applications of Advanced Computing Techniques in Electronics Engineering " **2-6 march 2022.**

Dr. Anil Kumar

18. Expert Lecture on **Machine Learning and Cyber Security on 25th Feb, 2022**, FDP on Cyber Security and Artificial Intelligence during Feb 21-26, 2022 at Sharda University.
19. Expert Lecture on **Machine Learning and Its Application on 12th Feb, 2022**, at Mody University.

f) BOOK REVIEWS (BETWEEN JAN 1-MARCH 31)

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Sakshi Semwal

1. P. Maurya, **S. Semwal**, "Biofiction: An Introduction, by Michael Lackey: Routledge (2021)," pp. 180, ISBN: 978036774763; <https://doi.org/10.1080/10131752.2022.2028424>. **Feb 2022.**

g) MONOGRAPHS/ POLICY PAPERS (BETWEEN JAN 1-MARCH 31)

Nil

h) CREATIVE WORK AND PERFORMANCES (BETWEEN JAN 1-MARCH 31)

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Ram Kumar Gupta

1. Coordinated an Industrial tour of students of psychology to Patanjali Research Foundation and Dev Sanskriti University, Haridwar on **12 March 2022.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Rajeev Kr. Sharma

1. **Dr. Rajeev Kr. Sharma** delivered a Lecture on World Tuberculosis day on 24th March 2022.

i) NEWSPAPER/MAGAZINE ARTICLE AND EDITORIALS (BETWEEN JAN 1-MARCH31)

NIL

V. PATENTS PUBLISHED (BETWEEN JAN 1-MARCH31)

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. Nalin Somani

1. S.A. Bansal, A. Anwar, N. Bhatt, P. Gupta, S.K. Sharma, **N. Somani**, "Implementation of mixed reality in banking sector for financial transactions," Indian Patent, **Application No. 202211002426 A**, Publication Date: **Jan 2022. [Published]**.

Dr. Manoj Kumar and Dr. Anil Kumar Patil

2. S. Singh, **M. Kumar, A. K. Patil**, "A Boiling Surface with Engraved Concentric Circles," Indian Patent, Application No. **202211014915 A**, Publication Date: **March 2022. [Published]**.

DEPARTMENT OF MATHEMATICS

Dr. Dheeraj Kumar Joshi

3. V. Dubey, B. P. Joshi, **D. K. Joshi**, H. K. Joshi, N. Joshi, S. Lata, M. Manu, Ohene-Akoto, S. Verma, D. Kumar, "An intelligent home automation system ", **German Patent**, File number: 20 2022 100 120.0, Publication date: **Feb 2022. [Published]**.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Gopal Kumar

4. **G. Kumar** et al. "AN Amine grafted AGRICULTURAL WASTE BASED aerogel with in-situ hydrophobicity for CO2 capture" Indian Patent, **Application No. 202141057075**. The Patent Office Journal No. 51/2021, Publication Date: **Dec. 2021, [Published]**.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Manmohan Singhal

5. R.V. Reddy, M. Sivabalan, **M. Singhal**, H. Rajak, D. Ramoliya, S. Chandre, V.N.K. Reddy, "A machine learning model to predict the severity of cancer and to decrease surgical treatment", **Indian Patent**, Application No. **202141059326 A**, Publication Date: **04 Feb 2022. [Published]**

Dr. Havagiray Chitme

6. Ankur Pachauri, Pankaj Pant, Sharad Visht, and **Havagiray Chitme**, Liposomal Gel Formulation Comprising 5-Fluorouracil and Clove Oil for the Treatment of Skin Cancer. Indian Patent, patent application no. **202211014979**, Publication Date: **April 01, 2022. [Published]**
7. Ankur Pachauri, Pankaj Pant, Sharad Visht, and **Havagiray Chitme**, Liposomal Gel Formulation Comprising 5-Fluorouracil and Clove Oil for the Treatment of Melanoma. Indian Patent, patent application no. **202211014980**, Publication Date: **April 01, 2022. [Published]**

SCHOOL OF COMPUTING

Dr. Narendra Kumar

8. K. Kumar, **N. Kumar**, R. S. Raw, A. Kumar, R. P. Singh, G. Saini, Automatic Real-Time Weather Condition-Based Home Appliances Control and Monitoring System, **Indian Patent, Application No.202211003658**, Publication Date: **Jan 2022. [Published]**

Dr. Neeraj Kumar Pandey

9. Shekhar, U Garg, A K Mishra, D Bansal, **N K Pandey**, C Prabha “Health monitoring system based on cloud data and Internet of Things”, **Indian Patent**, Application Number-**202211001896**, Publication Date: **Feb 2022. [Published]**.
10. N Gupta, P K Juneja, A K Mishra, **N. K. Pandey**, F. Jeelani, A Chauhan filed on “A system for resource management in Blockchain based Internet of Things” **Indian Patent**, Application Number-**202211006032** Publication Date: **Feb 2022. [Published]**.
11. A.K. Mishra, N. Tripathi, U. Garg, V. S Soni, P Bagla, **N.K. Pandey** “Static Malware Analysis Using Deep Learning” **Indian Patent**, Application No. **202211013696** Publication Date: **March 2022. [Published]**.

Mr. Aditya Dev Mishra

12. S. Balamurugan, A. Sharma, D. Dembla, P. Tripathi, Y. Chaba, B. B. Jain, S. Singla, V. Garg, I. Pan, **A. D. Mishra**, P. Purohit, K. Dhayalini, Pavithra G, T.C.Manjunath, D.P. Kothari, “Machine Learning Based System to Translate Text to Sign Language Using Natural Language Processing to Assist Deaf and Hearing-Impaired People,” **Indian Patent**, Application Number: **202241014150**, Publication Date: **March 2022. [Published]**.

VI. ORGANIZATION OF NATIONAL/INTERNATIONAL CONFERENCES/ MEETINGS/ WORKSHOPS (JAN 1-MARCH 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Meet Fatewar

1. Organised a Webinar titled 'Urban Management and Governance: A Dialogue on Smart City-Systems Framework' on **11 February 2022**.

Ar. Manmeet kaur

2. Organized a workshop on "**Working drawings**" conducted by Ar.Ashok Grover from **24th March ,2022 to 26th March , 2022**. For B. Arch 4th year.
3. Organized a workshop on "**Blender**" by Ar.Rick De from **24th Feb, 2022 to 26th feb,2022**.
4. Organized a workshop on "**Portfolio Making**" conducted by Ar. Debeshi Chakraborty from **11th Feb,2022 to 12th Feb,2022**.
5. Conducted a guest lecture on **Architectural Conservation: Passion to the Profession** by Dr.Vishakha Kawathekar from School of Architecture and Planning , Bhopal .on **15th Feb,2022**.
6. Conducted a guest lecture on **Wetland Management in India: Challenges and opportunities** by Dr.Sanil Kumar on **31st Jan ,2022**.
7. Conducted a guest lecture on **ECBC, ENS and Green Building Rating Systems** by Ar.Prachi Gupta on **4th Feb,2022**.

Dr.Seema Praliya

8. Conducted a guest lecture on **Wetland Management in India: Challenges and opportunities** by Dr. Sanil Kumar on **31st Jan ,2022**.
9. Conducted a guest lecture on **ECBC, ENS and Green Building Rating Systems** by Ar. Prachi Gupta on **4th Feb,2022**.

Ar. Meghna Chatterjee

10. Conducted a guest lecture on **Architectural Conservation: Passion to the Profession** by Dr.Vishakha Kawathekar from School of Architecture and Planning , Bhopal on **15th Feb,2022**.

Ar.Vartica Saxena

11. Organized a workshop on "**Working drawings**" conducted by Ar.Ashok Grover from **24th March ,2022 to 26th March , 2022**. For B.Arch 4th year.

Ar. Kunuku Tamogna

12. Organized a workshop on “**Working drawings**” conducted by Ar.Ashok Grover from **24th March ,2022 to 26th March , 2022**. For B.Arch 4th year.

Dr.Akhilesh Kumar

13. Successfully organized an online workshop on “**Research Methodology on Architecture and Planning**” as co-convenor in the School of Architecture, Planning and Design DIT, from **14th Feb. ,2022 to 18th feb,2022**.

Dr.Pankaj Verma

14. Successfully organized an online workshop on “**Research Methodology on Architecture and Planning**” as convenor in the School of Architecture, Planning and Design DIT, from **14th Feb. ,2022 to 18th feb,2022**.

DEPARTMENT OF EECE

Dr. Brajlata Chauhan, Dr. Amrindra Pal, Dr. Gaurav Dhiman and Dr. Sanjiv Tomar

1. IETE Student Forum, EECE DITU in collaboration with DEAL DRDO Dehradun conducted a webinar series on “**Communication & Information Technology**” in online mode from **13th Jan 2022 to 28th Jan 2022**.

Dr. Brajlata Chauhan and Dr. Sanjiv Tomar

2. A one-day symposium on **Applications of Cutting-edge Technologies in Defence Domain and Poster Presentation** was organised by the IETE SF, EECE DITU in collaboration with DEAL DRDO at DIT University on **30th March 2022**.

Dr. Sanjiv Tomar

3. Organised leadership Lecture Series for the students of DITU.
4. Talk by Dr Sanjeev Chopra, IAS (Retd) on 22nd Mar 022.
5. Talk by Sh Anil Raturi, IPS (Retd) on 29th Mar 2022.

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Dr. Gaurav Richhariya

1. Dr. Gaurav Richhariya Organised a Webinar on "Offshore Installations and Cargo Transport" by Mr. Anil Sachan, Executive Director, ONGC (Retd.) on **10th March 2022**.
2. Dr. A. Sivasakthi: Organised a Webinar on "Reservoir Characteristics and Importance of Well Testing for Optimum Production" by Mr. A. Jayasekaran, Group General Manager, ONGC (Retd.) on **23rd March 2022**.

3. Dr. Gaurav Richhariya Organised a Webinar on "Rewired: Intelligent Drilling Operations in Real Time " by Dr. Robello Samuel, Chief Chief Technical Advisor and Senior Fellow, Huston Texas on **24th March 2022**.
4. Dr. Gaurav Richhariya invited the Executive Director, GGM, GM including various section heads of IDT/ONGC for an interactive session with students and faculties during SPE Techfest. **30th March 2022**.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Monika Srivastava

1. Chaired the International Seminar on 'Trends and Future Possibilities in Humanities and Social Sciences' **25-26 march, 2022**. Organized by School of Liberal arts and Management, DIT University, Dehradun.

Dr. Ram Kumar Gupta

2. Program Coordinator of a training session on Drug Abuse and Prevention in collaboration with Boon Foundation on **30 March 2022** at DIT University, Dehradun.

Dr. Sakshi Semwal

3. Organised an Interdisciplinary International Seminar on Trends and Future Possibilities in Humanities & Social Sciences on **25-26 March** at DIT University Dehradun.

DEPARTMENT OF CHEMISTRY

Dr. Suheel Porwal, Dr. Naveen Singhal, Dr. Jabrinder Singh & Dr. Manisha Duseja

1. Faculties of Department of Chemistry organized 'National Science Day- 2022' in a hybrid mode from 28 Feb – 02 March 2022 at DIT University Dehradun.

DEPARTMENT OF PHYSICS

Dr. Sonam Mahajan Mishra

1. **Dr. Sonam Mahajan Mishra** organized a Webinar on "Hybrid Quantum Technologies" delivered by Dr. Aranya B. Bhattacharjee, BITS-Pilani, Hyderabad on **25th March 2022**.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Havagiray Chitme

1. **Dr. Havagiray Chitme** organized 30 Hrs. Short-Term Course on IP Organized in Association with IPTSE and Ericsson as Knowledge Partners, 1-28th Feb, 2022, DIT University Dehradun.
2. **Dr. Havagiray Chitme** organized an International Conference on Current Advances in Pharmaceutical Industry and Development held on 10th and 11th March 2022 in Jawaharlal Nehru Technological University Hyderabad, India and as well as Live on zoom platform.
3. **Dr. Havagiray Chitme** organized 'Awareness and Training program on IP' to commemorate the 75th Anniversary of India's Independence 'Azadi ka Amrit Mahotsav'. The program was conducted by the Indian Patent Office, Ministry of Commerce & Industry, Government of India under the special drive National Intellectual Property Awareness Mission (NIPAM) for students and faculty members. 25th Feb, 2022 at 11.00 AM to 1.00 PM on MS Team.

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

DEPARTMENT OF EECE

Dr. Gagan Singh

1. **Dr. Gagan Singh** reviewed two technical paper of 2nd IEEE International Conference on "Power Electronics and IoT Applications in Renewable Energy and its Control (PARC 2022) organized by GLA University, Mathura, India during 21st - 22nd **January, 2022**.

Dr. Kuldeep Choudhary

1. Early Career Professional-SPIE
2. Early Career Professional-OPTICA (Formerly OSA)

DEPARTMENT OF MATHEMATICS

Dr. Biplab Dhar

1. **Dr. Biplab Dhar** Life Executive Member of "Assam Academy of Mathematics, Cachar Branch", Silchar, Assam, Membership Number: 192968, Parent Organization: AAM Guwahati, Assam.

DEPARTMENT OF CHEMISTRY

Dr. Suheel Porwal

1. Life member of Vigyan Bharti
2. Life member of the Indian Society of Analytical Scientists – Delhi Chapter (**ISAS**)
3. American Chemical Society (ACS)

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Jagannath Sahoo

1. Indian Pharmaceutical Association membership no. UTT/DEHR/ON/LM/000029.

Dr. Havagiray Chitme

2. **Dr. Havagiray Chitme** as PG Examiner for the Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR) University, Govt of NCT, New Delhi.
3. **Dr. Havagiray Chitme** "Saposhnikovia divaricata attenuates type I allergic reaction via inhibiting IgE-mediated mast cell degranulation" Reviewed for Pharmaceutical Biology.

DEPARTMENT OF CIVIL ENGINEERING

Dr. Rana Acharyya

1. **Dr. Rana Acharyya** reviewed a technical paper on Low-epsilon Adversarial Attack Against a Neural Network Online Image Stream Classifier for Journal of Applied Soft Computing, Elsevier on **13th March 2022**.
2. **Dr. Rana Acharyya** reviewed a technical paper on Earth Pressure on The Retaining Wall of Limited-width Backfill Based on Curvilinearly Layered for KSCE Journal of Civil Engineering, Springer on **12th March 2022**.
3. **Dr. Rana Acharyya** reviewed a technical paper on Evaluation of ASTM d1143 / d1143m-07 and Chinese code JGJ 106-2014 for pile load test using finite element method for Journal of Practice Periodical on Structural Design and Construction, ASCE on **3rd March 2022**.
4. **Dr. Rana Acharyya** reviewed a technical paper on A Novel Method for Synchronous Prediction of Coal and Electricity Consumption in Cement Calcination Process for Journal of Applied Soft Computing, Elsevier on **16th Feb 2022**.
5. **Dr. Rana Acharyya** reviewed a technical paper on A Multi-Agent Meta Reinforcement Learning-Based Task Offloading Strategy for Mobile Edge Computing for Journal of Applied Soft Computing, Elsevier on **9th Feb 2022**.
6. **Dr. Rana Acharyya** reviewed a technical paper on Multi Expression Programming (MEP) in Predicting the Modified Compaction Parameters of Sand-Bentonite Mixtures for KSCE Journal of Civil Engineering, Springer on **10th January 2022**.

7. **Dr. Rana Acharyya** reviewed a technical paper on Mechanism of Packing Rigidity Gain in Sand Aging: From the Perspective of Structural Order Evolution for KSCE Journal of Civil Engineering, Springer on **6th Jan 2022**.

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Ram Kumar Gupta

1. Invited for being member of Mind-Body Medicine Council of the American Academy of Yoga and Meditation, Germantown, TN, USA on **19 Feb 2022**

SCHOOL OF COMPUTING

Ms. Khushboo Jain

1. **Reviewer at the following Journal:** [Indexed in Web of Science]
 - I. International Journal of Communication System (IJCS), Wiley.
 - II. Journal of International Journal of Information Security and Privacy (IJISP), IGI-Global.
 - III. International Journal of Systems Assurance Engineering and Management, Springer.
 - IV. Journal of ambient intelligence & humanized computing, Springer
 - V. The Journal of Supercomputing, Springer
 - VI. IAES International Journal of Artificial Intelligence (IJ-AI).

Dr. Megha

2. **Dr. Megha** has reviewed a research paper for Journal of Information Systems and Telecommunication (JIST), Jan 2022.
3. **Dr. Megha** has reviewed research papers for 4th International Conference on Machine Intelligence and signal Processing (MISP 2022), Springer, NIT Raipur, held from 12-14 March, 2022.
4. **Dr. Megha** has reviewed research papers for International Health Informatics Conference (IHIC 2022) in Feb 2022.
5. **Dr. Megha** has reviewed research papers for EAIT, Feb 2022

Dr. Kriti

6. **Dr. Kriti** reviewed 10 technical papers for IEEE Region 10 Symposium (TENSYMP 2022) VMCC, IIT Bombay, India, **March 29-31, 2022**.

Dr. Hemraj Saini

7. **Member, Technical Program Committee (TPC)**, 8th International Conference on Signal Processing and Communication (ICSC 2022), Department of Electronics and Communication Engineering, Jaypee Institute of Information Technology (JIIT), Noida, 01st to 03rd Jan, 2022.

8. **Review Editor**, Wireless Communications, Frontiers in Communications and Networks Journal, since 8th April, 2022.
9. **Article Reviewed**: Crowdsourcing, privacy protection, performance optimization, fault tolerance, hybrid Blockchain, Future Generation Computer Systems, 3rd February, 2022. **IF: 7.187.**
10. **Article Reviewed**: “Wolf Optimization for secure communication in MANET”, Journal of Ambient Intelligence and Humanized Computing, 18th January, 2022, **IF: 7.104.**
11. **Article Reviewed**: “A Novel Energy Aware Reliable Communication in WSNs with the Help of Optimal CH Selection and Routing”, Journal of Ambient Intelligence and Humanized Computing, 25th March, 2022, **IF: 7.104.**
12. **Article Reviewed**: “Design of Novel Multi-Class Intrusion Detection System Based on Panthera Leo Hunting Optimized Deep Learning Algorithm for VANET Systems”, Journal of Ambient Intelligence and Humanized Computing, 28th March, 2022, **IF: 7.104.**

Dr. Ranjeet Kumar Ranjan

13. Reviewed a research manuscript “Class Balancing Framework for Credit Card Fraud Detection Based on Clustering and Similarity-Based Selection (SBS)” for IAES International Journal of Artificial Intelligence (IJ-AI) on **26th March 2022.**
14. Reviewed a research manuscript "Credit Card Fraud Detection Using State-of-the-art Machine Learning and Deep Learning Algorithms" for IEEE Access on **10th March 2022.**

Dr. Pradeep Kumar Rawat

15. Participated as a PC member during the International Conference on Innovative Practices in Technology and Management (ICIPTM 2022) held during **23rd-25th Feb, 2022.**
16. Participated as a PC member during the 4th International Conference on Intelligent Engineering and Management (ICIEM) in Association with IEEE United Kingdom and Ireland Section held during **27th to 29th April, 2022.**

VIII. AWARDS/ HONORS/ FELLOWSHIPS (BETWEEN JAN 1-MARCH 31)

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Gopal Kumar

1. **G. Kumar** has been awarded “Certificate of Appreciation” from Society of Petroleum Engineers, North India Section, Dehradun on **7th March 2022.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Neeraj Kumar Sethiya

1. **Dr. Neeraj Kumar Sethiya** received Bharat Gaurav Purushkar by KTK Outstanding Achievers and Foundation, New Delhi on 20th Feb 2022 for outstanding contribution in field of Pharmacy.
2. **Dr. Neeraj Kumar Sethiya** received an International Award on Excellence in Performance of Community outreach through Projects by Indo Universal Collaboration for Engineering Education during Ninth International Conference on Transformation in Engineering Education on 09/01/2022.
3. **Dr. Neeraj Kumar Sethiya** received ranking as 2nd top most scientist from DIT University, 6649 in India and 271431 in world as declared in March 2022 by World Scientist University Ranking, AD Scientific Ranking.
4. **Dr. Neeraj Kumar Sethiya** honoured as Editor in Chief Current Indian Science: Natural Product, Bentham Science Publisher (International).

Dr. Manmohan Singhal

5. **Dr. Manmohan Singhal** received Certificate of Excellence (Bharat Gaurav Puraskar) for outstanding achievements and remarkable contribution in the field of pharmacy recognised by KTK Outstanding achievers and Education Foundation, New Delhi on 20th February 2022.

Dr. Bhavna

6. **Dr. Bhavna** recognised as Advisory board member in Emerging Scientist 2022; SEASON III, 20-21 February, 2022, Faisalabad, Pakistan, Committee: Emerging Scientist 2022 (theacse.com), <https://theacse.com/es2022/committee.php>.

SCHOOL OF COMPUTING

Ms. Meghavi Rana

1. Received award "Certificate of Excellence" in recognition of being second best paper at 3rd International Conference on VLSI DEVICES, CIRCUITS and SYSTEMS (IEEE VLSI DCS 2022) for research work on "**Comparative Study of Supervised Machine Learning Methods for Prediction of Heart Disease**" organized by IEEE ED MSIT SBC held on 26-27th February, 2022.

IX. DOCTORAL STUDENTS AWARDS/ACHIEVEMENTS (BETWEEN JAN 1-MARCH 31)

DEPARTMENT OF EECE

Dr. Amrindra Pal

1. Ms. Bhawna Sharma (Ph. D Jan 2017): Design and Development of Integrated Optical Components using Fourier Domain Optical Coherence Tomography Awarded **Jan 2022**.
2. Ms. Padmini Nigam (Ph. D July 2017): Design and Analysis of Substrate Integrated Waveguide for Self-Diplexing & Self-triplexing Applications Awarded **Jan 2022**.

DEPARTMENT OF MECHANICAL ENGINEERING

Dr. Manoj Kumar & Dr. Anil Kumar Patil

1. Mr. Ravi Kumar, "Experimental Investigation of sensible heat energy storage system with multiple cylindrical passages" Awarded **Jan 2022**.
2. Mr. Gaurav Prakash Srivastava, "An experimental investigation of heat transfer and pressure drop in a circular tube with perforated conical inserts," Awarded **Jan 2022**.

Dr. Manoj Kumar

3. Mr. Rajeev Pandey, "Heat transfer and fluid friction characteristics of a solar air heater duct having racetrack-shaped perforated V-baffle blocks with staggered openings," Awarded **Jan 2022**.

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Jagannath Sahoo

1. Ms. Kiran Sharma, Uttar Pradesh Technical University, UP, **March 2022**.

X. CONSULTANCY DETAILS (BETWEEN JAN 1-MARCH 31)

Dr. Priyadarsan Patra, Dr. Jyoti Rawat & Dr. Kriti

1. **Project Title:** Machine learning model to detect closed shops in a mall during working hours, **PI:** Prof. Priyadarsan Patra, **Co-PIs:** Dr. Jyoti Rawat, Dr. Kriti, **Funding Agency:** RaSpect Intelligence Inspection Limited, **Amount Sanctioned:** 60,000 HKD, **Status:** On-going, **Duration:** 06 weeks, **Approx. completion date:** April 2022.

XI. OTHER ACHIEVEMENTS (BETWEEN JAN 1-MARCH 31)

SCHOOL OF ARCHITECTURE AND DESIGN

Ar. Vartica Saxena

1. Worked with the internal BOS Team to prepare, frame and then compile the minutes of the meeting for all the programmes (B.Arch., B. Design-Interiors and UX/UI, VGA, M. Plan and M. Design.) that are run in SoAPD.

Ar. Manmeet kaur

2. Completed a short term course on **“UX Research”** conducted by HEC Montreal on edx on **2nd March ,2022.**
3. Attended a Faculty Development Programme on **“Effective Classroom Engagement by enhancing Personal Effectiveness”** organized by Teaching Learning Centre, DIT University from **25th March ,2022 to 26th March ,2022.**

Ar. Shraddha Bahukhandi

4. Attended a Faculty Development Programme on **“Effective Classroom Engagement by enhancing Personal Effectiveness”** organized by Teaching Learning Centre, DIT University from **25th March ,2022 to 26th March ,2022.**

Rahul Kumar

5. Attended a Faculty Development Programme on **“Effective Classroom Engagement by enhancing Personal Effectiveness”** organized by Teaching Learning Centre, DIT University from **25th March ,2022 to 26th March ,2022.**

Ar. Meet Fatewar

6. Successfully completed a training on **“M.S. Word”** from **January to February 2022** through ‘LearnVern Pvt. Ltd.’

DEPARTMENT OF EECE

Mr. S Bhanu Prakash

1. Completed an Online course on **“Work Smarter with Microsoft Word”** authorized by Microsoft and offered through Coursera, **Mar 21st, 2022.**
2. Received certificate for completing **“ISO 21001:2018 Internal Auditor Training Course”** by BSI Training Academy organized by DIT University, Dehradun, **March 8th, 2022.**

Dr. Nafees Ahmad

3. Received certificate for completing "ISO 21001:2018 Internal Auditor Training Course" by BSI Training Academy organized by DIT University, Dehradun, **March 8th, 2022.**

Dr. Sanjiv Tomar

4. Received certificate for completing "ISO 21001:2018 Internal Auditor Training Course" by BSI Training Academy organized by DIT University, Dehradun, **March 8th, 2022.**

DEPARTMENT OF PETROLEUM & ENERGY STUDIES

Mr. Gopal Kumar

1. **G. Kumar** has attended an online 5-days FDP on "**Green Technologies towards Sustainable Future GTTSF-2022**" (**08th - 12th March 2022**) Jointly Organized by the Department of Chemical Engineering, GMR Institute of Technology, Rajam, Srikakulam, Andhra Pradesh, and National Institute of Technology-Warangal, Telangana, India.

Rakesh K. Pandey

2. Successfully completed 30 hours "Short term course on IPR" conducted by IPTSE Academy and DIT University in association with ERICSSON from **01st - 28th Feb 2022.**

SCHOOL OF LIBERAL ARTS & MANAGEMENT (HUMANITIES)

Dr. Monika Srivastava

1. Session taken for Students on 'Effective Communication' on **19th February** under school connect program of DIT University, Dehradun.

Dr. Sakshi Semwal

2. Coordinated SPIC Macay Event "Odissi Dance" on **18th March 2022.** She also organized Artrature and Open Mic on 7-8 April under the banner of Clickratti Litterrati.

DEPARTMENT OF PHYSICS

Dr. Ravi Kumar Shukla

1. **Dr. Ravi Kumar Shukla** reviewed 3 papers for **IEEE Sensors Journal [IF: 3.06], Jan.-Mar. 2022.**
2. **Dr. Ravi Kumar Shukla** reviewed a paper for **Biomedical Optics Express [IF: 3.9], Feb. 2022.**
3. **Dr. Ravi Kumar Shukla** reviewed 3 papers for **IEEE Access [IF: 3.37], Jan.-Mar. 2022.**
4. **Dr. Ravi Kumar Shukla** reviewed a paper for **Biomass Conversion and Biorefinery [IF: 4.9], Feb. 2022.**

Dr. Samta Manori

5. **Dr. Samta Manori** reviewed a paper for **Biomedical Optics Express [IF: 3.9], Mar. 2022.**
6. **Dr. Samta Manori** reviewed a paper for **IEEE Sensors Journal [IF: 3.06], Mar. 2022.**

SCHOOL OF PHARMACEUTICAL & POPULATIONS HEALTH INFORMATICS

Dr. Neeraj Kumar Sethiya

1. **Dr. Neeraj Kumar Sethiya** received an appreciation from Chemical Biology and Drug Design (Wiley), Phytomedicine Plus (Elsevier) and Plant Science Toady Journal for reviewing tasks during March 2022.

Dr. Rajeev kr. Sharma

2. **Dr. Rajeev kr. Sharma** successfully completed three days ISO 21001:2018 Internal Auditor Training course from 29/11/2021 to 1/12/2021 Conducted by BSI Training academy.
3. **Dr. Rajeev kr. Sharma** successfully participated in IP awareness training programme under National Intellectual Property awareness mission conducted by Intellectual Property office India On 23rd March 2022.

Dr. Bhavna

4. **Dr. Bhavna** successfully completed the SHORT-TERM CERTIFICATION COURSE (of 30Hrs. duration from 1st- 28th Feb) on INTELLECTUAL PROPERTY, Organized by IPR Cell & Centre of Teaching and Learning, DIT University, Dehradun and IPTSE Academy.

SCHOOL OF COMPUTING

Dr. Srabanti Maji

1. Review 10 manuscripts of TENSYP 2022 (IEEE Conference at IIT Bombay 2022).

Mr. Nitin Thapliyal

2. Received certification for "Internal Auditor Training on ISO-21001" on **8th March 2022**

Dr. Anil Kumar

3. Received certification for "Internal Auditor Training on ISO-21001" on **8th March 2022**