

**MKSSS's**  
**Cumminscollege of Engineering for Women, Pune**  
**(An Autonomous Institute Affiliated to Savitribai Phule Pune University)**

**Basic Sciences & Humanities Department**

**List of papers published in SCI / SCOPUS indexed journals**

**A.Y 2024-25**

1. **Vishal Deore<sup>1\*</sup>, Sneha Singh<sup>2</sup>, Jyoti Chitale<sup>3</sup>**, Harish Shinde<sup>4</sup>, Vaibhav Shelar<sup>5</sup>, Harsh Gaikwad<sup>6</sup>, Smita Waghmare<sup>7</sup>, “Role Of Various Higher Education Discipline Students In Indian Rural Development Through Unnat Bharat Abhiyan Mission – Theoretical Interdisciplinary Approach”, *Library Progress International*, Vol 44 Issue 3, P.5894-5901, July 2024
2. **Jyoti Chitale<sup>1\*</sup>**, Vishwas Mohite<sup>2</sup>, **Vishal Deore<sup>3</sup>**, Harish Shinde<sup>4</sup>, Vaibhav Shelar<sup>5</sup>, “Assessing The Impact of IEEE Cloud Computing Platform Training on Students' Knowledge: A Pre- and Post-Study at MKSSS Cummins College of Engineering for Women, Pune.”, *Library Progress International*, Vol 44 Issue 3,, July 2024
3. **Vishal Deore<sup>1,2\*</sup>, Sneha Singh<sup>2</sup>**, Harish Shinde<sup>2</sup>, Vaibhav Shelar<sup>3</sup>, Amol Ladhe<sup>4</sup>, Harsh Gaikwad<sup>5</sup>, Avinash Shinde<sup>2</sup>, Milinda Mahajan<sup>1</sup>, I. Siva<sup>6</sup>, Smita Waghmare<sup>7</sup>, “Reflection EMI Shielding effect on Graphen/Cuo Silicon Rubber Nanocomposites Over Broad Frequency Range of 1 GHz to 20 GHz”, *Nanotechnology Perceptions*, Vol. 20 No. 4 (2024) 519-532, July 2024
4. Smita WAGHMARE<sup>1\*</sup>, **Vishal DEORE<sup>2</sup>**, Harsh GAIKWAD<sup>3</sup>, Vaibhav SHELAR<sup>4</sup>, “ADDITION OF MASKED ACYL ANION TO  $\alpha$ ,  $\beta$  UNSATURATED ESTER IN SYNTHESIS OF 4-, 5-, 6- KETO CARBOXYLIC ESTERS”, *U.P.B. Sci. Bull., Series B*, Vol 86 Issue 3, August 2024
5. Smita Waghmare, **Vishal S. Deore, Sneha Singh**, Vaibhav Shelar+Sonal Shelar, Harsh Gaikwad, “Green One-Pot Synthesis Of Disubstituted Coumarine At Room Temperature: A Practical Approach For The Large-Scale Synthesis”, *African Journal of Biomedical Research*, Vol 27 Issue 1S, September 2024
6. Smita Waghmare<sup>1\*</sup>, **Vishal S. Deore<sup>2</sup>, Sneha Singh<sup>3</sup>**, Harish Shinde<sup>4</sup>, Vaibhav Shelar<sup>5</sup>, Harsh Gaikwad<sup>6</sup>, “Sustainable and Efficient Synthesis of 2-Amino-4-Arylquinoline-3-Carbonitriles”, *African Journal of Biomedical Research*, Vol 27 Issue 1S, September 2024
7. **Vishal Deore a b**, Milinda Mahajan a, I. Siva c, Avinash Shinde b, Smita Waghmare d, Sharul Sham Dol e, K.A. Ahmad f, Mohamed Thariq Hameed Sultan g h, “Silicone rubber nanocomposites: Optimal graphene dosing for mechanical and electrical enhancements”, *Journal of Materials Research and Technology*, 33 (2024) 5543–5550, October 2024
8. **Sangita Mahajan 1**, Veena Beleyur 2\*, “Multi-Stenosis Effect on Jeffrey Fluid Model of Blood Flow”, *CFD Letters*, Vol.17 No.6, June 2025 pp 18-27, Dec. 2024

**A.Y 2023-24**

1. Balasaheb Takle, Yashwant Munde, Avinash Shinde, **Vishal Deore**, Siva Irulappasamy, “Sliding Wear Behavior of Pineapple Leaf/Glass Fiber Reinforced Polyester Composites”, *Macromolecular Symposia*, Volume 412, Issue 1, Dec 2023
2. Awatif Muflih Alqahtania, **Jyoti Geetesh Prasad**, “Solution of local fractional generalized coupled Korteweg–de Vries (cKdV) equation using local fractional homotopy analysis method and Adomian decomposition method”, *Applied Mathematics in Science and Engineering*, Vol. 32, Issue 01, Dec 2023

### A.Y 2022-23

1. **Vikram Athalye**, Emmanuel Haven, “Causal Viewpoint and Ensemble Interpretation: From Physics to the Social Sciences”, *Philosophical Transactions of the Royal Society A*, 19 June 2023
2. Kholoud Saad Albalawi , ,Ibtehal Alazman, **Jyoti Geetesh Prasad** and Pranay Goswami, “Analytical Solution of the Local Fractional KdV Equation”, *Mathematics* 2023, 11(4), 882, February 2023
3. Rujuta Agavekar , Poonam Bhore , Himani Kadam , **Mrunal Moharir**, “Effective Application of One Minute Paper and Muddiest Point Technique to Enhance Students' Active Engagement: A Case Study” , *Journal of Engineering Education Transformations* , Volume 36 , No. 3, January 2023
4. Ashish B. Itollikar and **Anand S Joshi**, “Experimental Validation of Dielectric Models for Sugarcane Vegetation at C – Band Microwave Frequency”, *International Journal of Agricultural and Natural Sciences*, Vol. 15 (3), 2022, pp 336 – 345, December 2022
5. **Mrunal Moharir**, Rujuta Agavekar, Poonam Bhore, Himani Kadam and Anand Bewoor, “Effective Implementation of Peer Review as an Active Learning Technique to Attain Course Outcome: A Case Study”, *Journal of Engineering Education Transformations*, Volume No 36, December 2022, Special issue

### A.Y. 2021-22

1. **M Bapat**, H Singh, S Shukla, P P Singh, Dai-Viet N Vo, A Yadav, A Goyal, A Sharma, D Kumar , “Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint” ,*Chemosphere* , Vol 286, 131761, Jan 2022.
2. **V Athalye**, E Haven , “Socio-Economic Sciences: Beyond Quantum Math-like Formalisms” ,*Quantum Reports*, Vol 3, pp 656-663, Oct 2021.
3. S Althobaiti, R S Dubey, **J G Prasad**, “Solution of Local Fractional Generalized Fokker-Planck equation using Local fractional Mohand Adomian Decomposition Method” ,*Fractals*, Vol 30, No 1, Sept 2021.
4. A Shinde, I Siva, Y Mundhe, **V Deore**, M T H Sultan, A U Md Shah, F Mustapha, “Testing of Silicon Rubber/Montmorillonite Nanocomposite for Mechanical and Tribological Performance” , *Nanomaterials*, Vol 11, No 11, Nov 2021.
5. **D R Bhosale**, S Patil, "Oxygen nonstoichiometry effects in spin Seebeck insulating  $Y_{3-x}Pr_xFe_{5O_{12+\delta}}$  materials (Editor's Pick)", *AIP Advances*, 12, 065103, June, 2022
6. **A S Joshi**, A Itollikar, "Interpretation of backscattering coefficient for distinct Indian lakes using Sentinel-1 SAR imagery", *The Journal of Indian Geophysical Union*, Vol 26, Issue 3, pp- 195-206 May 2022.

### A.Y. 2020-21

7. H Jafari, **J G Prasad**, P Goswami, R S Dubey , “Solution of the Local Fractional Generalized KDV Equation Using Homotopy Analysis Method” ,*Fractals*, Vol 29 Issue no 5, pp 2140014 1-10, March 2021.

8. **V S Deore**, V R Kasar, S R Waghmare, A S Shinde, "Agro-Industrial and Domestic Waste Water Treatment by Using UASB Reactor", *Science and Engineering Journal*, Volume 25 Issue 5, Page No: 13 - 25, May 2021.

**A.Y. 2019-20**

9. **D R Bhosale**, S I Patil, , "Conduction pathways and Mixed Ionic-Electronic Conductivity below 500 °C in  $\text{Ca}_x\text{Y}_{3-x}\text{Fe}_5\text{O}_{12-d}$  Materials" , *Physical Review Materials*, Vol 3 Issue no 9, pp 95007 1-7, Sept 2019.

**A.Y. 2016-17**

10. **D R Bhosale**, S M Yusuf, A Kumar, M D Mukada, S I Patil, , "High Oxide Ion Conductivity below 500 °C in Garnets  $\text{La}_x\text{Y}_{3-x}\text{Fe}_5\text{O}_{12+d}$ " , *Physical Review Materials*, Vol 1 Issue no 1, pp 015001-1 to 015001-5 , 2017.

**A.Y. 2015-16**

11. M Murugan, **M S Bapat**, V K Kokate, "Composites of nanosized strontium titanate epoxy resin as microwave absorber" , *Journal of Electromagnetic waves and applications*, Vol 30 Issue no 3, pp 366-374, Oct 2015.

**A.Y. 2014-15**

12. K S Jadhav, P R Agrawal , **M A Purandare**, "Bianchi Type-III Cosmological Model with Quadratic Equation of State" , *International -The African Review of Physics* , vol 10, pp65-68 , 2015.
13. D R K Reddy, K S Adhav , **M A Purandare**, "Bianchi type-I cosmological model with quadratic equation of state." , *International -Journal of Astrophysics and space Science*. April 2015.

**A.Y. 2012-13**

14. A G Murugkar, **A S Joshi**, M L Kurtadikar, "Dielectric Properties and Emissivity of sea water at C-band Microwave Frequency" , *J Environ Science & Engineering* , vol 54, No.4 p495-501 , Oct 2012

**A.Y. 2011-12**

15. M Murugan, V K Kokate, **M S Bapat**, "Synthesis, Characterization and Evaluation of Reflectivity of Nanosized  $\text{CaTiO}_3$ " , *Bulletin of Materials Science*, vol. 34, , issue 4, pp 699-704, July 2011.
16. **V Athalye**, S S Roy , T S Mahesh, "Investigation of the Leggett – Garg inequality for precessing nuclear spins" , *Physical Review Letters*, vol. 107, 19, pp 130402, Sept 2011.
17. M A Iqbal, P K Gupta , **V S Deore**, S K Tak, G Tiwari, N K Gupta, "Effect of target span and configuration on the ballistic limit" , *International Journal of Impact Engineering*, vol. 42, pp 11-24, April 2012.

#### A.Y. 2010-11

18. M Murugan, V K Kokate, **M S Bapat**, "Synthesis of nanosized barium titanate/epoxy resin composites and measurement of microwave absorption," *Bulletin of Materials Science*, vol. 33, , issue 6, pp 657-662, Dec 2010.

#### List of Papers in Non-Scopus/SCI indexed journals

#### A.Y. 2022-23

1. **Vishal Deore**, Avinash Shinde, Harish Shinde, **Sneha Singh**, "Study on Importance, Procedure, and Scope of UNNAT Bharat Abhiyan –A Scoping Review", *Graduate Research in Engineering and Technology*, Vol 1, Issue 8, September 2022.
2. **Namrata Karandikar**, **Pradnya Nanavare**, "Use of Assignment mode for effective assessment of students to achieve course outcomes", *Graduate Research in Engineering and Technology*, Vol 1, Issue 8, September 2022

#### A.Y. 2020-21

1. **M A Purandare**, Prachi Agrawal, " Bianchi Type-VIhCosmological Model with Quadratic EOS in f(R, T) Theory", *IJSRST*, Vol8,issue1,pp 196-201, 2021

#### A.Y. 2017-18

2. **M Jail**, R Urkude, L Deshmukh, "Bio-Efficacy and Relative Performance of Chlorpyrifos and Cypermethrin against Pod Borers Infesting Pigeon Pea." ,*IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*, Volume 13, Issue 2 Ver. III pp 80-84 (Mar. – Apr. 2018)

#### A.Y. 2014-15

3. K S Jadhav, P R Agrawal , **M A Purandare**, "Higher Dimensional spherically symmetric Cosmological Model with quadratic Equation of state." ,*Eruopean International Journal of Science and Technology*, June 2015.
4. K S Adhav, M V Dhawade , **M A Purandare**, "Plane Symmetric Cosmological Model with quadratic Equation of state." ,*International -Bulg.J Phys*, Vol 42 PP 20-28.
5. **M Jail**, "Studies On The Impact Of Pesticides On Soil Microbial Respiration." ,*International Journal of plant,Animal and Environmental Science*, Vol.5 Issue 1,Jan-Mar2015.
6. **M Jail**, R Urkude, L Deshmukh, "Evaluation of effect of different pesticides on pigeon pea using statistical tool in field experiment." ,*IOSR Journal of Environmental Science, Toxicology and food Technology*, Volume 8,issue 7,pp 01-02 , July 2014.
7. **S Singh**, P Adavi, "Guidelines of EIA for Hydropower Projects." ,

**A.Y. 2013-14**

8. R Urkude, **M Jail**, " Studies on Pysico-chemical properties of Commertially available EC formulations of Cypermethrin andChlorpyrifos Pesticides.", *International Journal of engineering in research & technology*, vol 2 Issue 8, pp 2342-2352 August-2013.
9. **A S Joshi**, P M Kokane, A N Ardad, A B Itolikar, N P Barde, " Least Square Fitting Method and Application to Estimate Microwave Permittivity", *Journal of Basic and Applied Sciences*, Special Issue, Feb 2014.

**A.Y. 2012-13**

10. **M Bhosale**, P S Swami, "Life estimation of SF6 circuit breaker" ,*Journal of information, knowledge and research in electrical engineering*, VOLUME – 02, ISSUE – 02, NOV 2012.
11. **T H Thange, N P Karandikar**, "Eigen Function Wavelet Transform for functions of Two variables", *International Journal of Multidisciplinary Research*, Vol I, Issue 12(11), March 2013.
12. **A Joshi**, M L Kurtadikar "Study of Seawater Permittivity Models and Laboratory Validation at 5 GHz", *Journal of Geomatics, SAC-ISRO, The Indian Society of Geomatics* , vol 7. April 2013
13. **A Joshi**, S S Deshpande, M L Kurtadikar, "Dielectric Properties of North Indian Ocean Seawater at 5 GHz", *International Journal of Advances in Engineering and Technology IJAET*, Vol. 2, Issue 1, pp 220-226.
14. **S Singh**, " A STUDY OF GUIDELINES OF EIA FOR INFRASTRUCTURE PROJECTS", *IJARSE*, Vol 1, Issue 2, pp 22-26

## List of papers published in Conferences Scopus indexing

### A.Y. 2024-25

1. **Vikram Athalye**, "Unifying Perspectives: All-encompassing Reality vs. All-inclusive Physics", *Journal of Physics: Conf. Series (IOP Publishing)*, Conference series 2948 012012, Feb 2025

### A.Y. 2020-21

1. A B Itolikar, **A S Joshi**, S Deshpande, M Kurtadikar, "Dielectric Response Due to Combine Effect of Soil and Vegetation Layer (Grass) at C-Band Microwave Frequency", *IGARSS*, pp 9-12, Dec 2020.

### A.Y. 2019-20

2. A B, Itolikar, **A S Joshi**, S S Deshpande, V M Arole, M L Kurtadikar, "Dielectric and Emissive Properties of Sorghum(Jowar)Vegetation at C band Microwave Frequency.", *International Conference on Materials and Environmental Sciences, ICMES*, Proceedings 23(2020)236-245, 2020.

## List of papers published in Conferences Non-Scopus indexing

### A.Y. 2023-24

1. **Sneha Singh**, Shreeni Kalyanshetti, "Assessing the Environmental and Infrastructure Impacts: A Comparative Analysis of Traditional Roadways vs. Electric Vehicle (EV) Roads", *International Research Journal on Advanced Engineering Hub (IRJAEH)*, Vol. 02, Issue: 03, 450 - 456, March 2024

### A.Y. 2016-17

1. **D R Bhosale**, S M Yusuf, S I Patil, "Revealing Conduction Pathways by the Soft Bond Valence Sum Distribution Analysis of Neutron Diffraction Data in Iron Garnet Oxides", *5th Conference on Neutron Scattering 2015*, INIS 48. Issue 8, 2016.

### A.Y. 2014-15

2. K S Adhav, P R Agrawal, S L Munde, **M A Purandare**, " Early decelerating and late time accelerating B-V cosmological model with qudra equation of state in general relativity." *Proceedings of ICFM 2015 International Conference on Frontiers in Mathematics 2015*. Gauhati University, Guwahati, Assam, India, March 2015, pp 82-86

### A.Y. 2012-13

3. S S Deshpande, **A S Joshi**, M L Kurtadikar, "Dielectric Properties of Agra, Haldigati and Chennai saline soils at 5 Ghz.", *8 th International Conference on Microwaves, Antenna, Propagation & Remote Sensing*. Jalna(MS), Dec 2012.

### A.Y. 2011-12

4. **M Moharir**, Sunil Gaikwad, "Real Time Measurement of Power System frequency using DSP", *National conference on smart grids*, organized by AISSPMS, Pune. pp 21-26 March, 2012

### List of Books Published by Faculty

Sr No	Name of Faculty	Book Title	Name of Publication	Year of Publication
1	Dr. Manisha Jail	Engineering Chemistry (SPPU 2024)	Technical Publication	2024
2	Sangita S Gambhir	Engineering Mathematics-I (SPPU 2022)	Fortflag Books and Media Pvt. Ltd.	2023
3	Sangita S Gambhir	Engineering mathematics-II (SPPU 2022)	Fortflag Books and Media Pvt. Ltd.	2023
4	Dr. Manisha Jail	Engineering Chemistry	Technical Publication	Latest Edition 2019 First Edition 2012
5	Dr. Malini Bapat	Encyclopedia of sensors. (book chapter)	American Scientific Publishers	2006