

nvi.appsci@coep.ac.in

Faculty



Mrs. Nandini Venkat Iyer

Nandini Iyer is a Post Graduate in Biochemistry from University of Mumbai with 20 years of teaching experience in the field of Chemistry. She joined COEP in 2001. Nandini is also a graduate in Education from S.N.D.T University. She is currently pursuing her Doctoral Studies from Symbiosis International University. Nandini is a recipient of the COEP STAR AWARD of 2013 for the BEST Teacher of COEP. She has organized workshops and faculty development programmes for faculty and students. She is also actively involved as a faculty advisor in extra-curricular and co-curricular activities associated with various clubs in COEP. Her areas of interest are Conducting Polymers, Environmental Chemistry and Material Science.

Designation:

Assistant Professor of Chemistry

Department:

Applied Science

Email:

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Phone Number:

+91 20 25507037

Website:

www.coep.org.in

Teaching Experience:

20

Research Experience:

Qualifications:

M.Sc,B.Ed.

EDUCATION

- B.Sc., 1992, University of Mumbai
- M.Sc., 1994, University of Mumbai
- B.Ed.,2007.S.N.D.T University
- (Pursuing Ph.D., Symbiosis International University)

Teaching Responsibility:

Applied Chemistry, Lubrication Technology, Environmental Chemistry, Analytical Instrumentation and Laboratory management.

Additional Responsibility:

Faculty Advisor-Cultural club, Faculty Advisor/Mentor - F.Y. B.Tech., Faculty member of Gymkhana managing committee, Faculty Advisor - Mind Spark, Faculty Advisor - Cultural festival: *Impressions*, Faculty in-charge for Chemistry Laboratory.

Publications:

- 1) Nandini .V. Iyer, J.A.Kher, M.Y.Khaladkar. Electrical Conductivity Of Binary Lanthanum Cuprates. Journal International Journal of Innovative Research in Science, Engineering and Technology 2 (8) 2013.
- 2) Presented a paper in National Conference "WE Meet'2010"on the topic,Challenges faced by women in pursuing their Doctoral studies and won the first position
- 3) Participated and Presented a paper in the International Symposium On Materials Education ,ISME-2011.

Memberships and Affiliations:

Life Membership of The Society for Advancement of Electrochemical Science and Technology

Current Projects :

Conducting Polymers ,Environmental Chemistry, Material Science.

Name: Dr. Kavita Shirish Suranje

Designation: Assistant Professor of Chemistry

Department: Applied Science

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Website: www.coep.org.in

User ID: knj.appsci@coep.ac.in

Teaching Experience: 9 years

Research Experience: 3 years

Qualifications:

Ph.D. (Organic Chemistry), M.Sc, B.Ed.

Teaching Responsibility:

Applied Chemistry ; Organic chemistry

Additional Responsibility:

- 1) Faculty advisor for National Service Scheme
- 2) Departmental Time Table In-charge
- 3) Faculty advisor for Annual Sports Event – ZEST

Publications:

- 1) **Published a research paper in International Journal** of Innovative Research in Science, Engineering and technology (**IJERSET**), **Volume 3, Issue6, June2014**. Title:“Development of Bipolar Plates Using Expanded Graphite as a Raw Material”.
- 2) **Published a research paper in International Journal** of Innovative Research in Science, Engineering and Technology (**IJERSET**), **Volume 3, Issue6, June 2014**. Title: ”Preparation C-Carbon Composite Using Natural Graphite and Novolac Resin”.
- 3) **National Conference** on Materials for Electronic Applications (NCMEA-14) on 30, 31 January &1 February, 2014, College of Engineering Pune. Topic: “Development of Bipolar Plates Using Expanded Graphite as Raw Material”
- 4) **National Conference** on Materials for Electronic Applications (NCMEA-14) on 30, 31 January &1 February, 2014, College of Engineering Pune. Topic: “Preparation Carbon-Carbon composite using natural graphite and novolac phenolic resin”.

- 5) DST Sponsored **National Conference** on “Bioengineering Sciences: Present Status and Future Perspectives” (NCBES-13) held on 15th and 16th March, 2013. Topic: “Use of algae as biofuel sources: an overview”.
- 6) **National Conference** on Energy and Sustainable Development on 28-29 Feb. 2012, College of Engineering Pune. Awarded the **Best Poster** of the Conference. Topic “Hydrogen and Fuel Cells: A Sustainable Energy for Future”.
- 7) **UGC Sponsored National Conference** on Advanced Material and Technology (NCAMT-09) Dec. 29th-30th, 2009 at Department of Chemistry S.S.E.S AMT’s Science College, Nagpur. Topic: “Antimicrobial studies of 3,5-Diaryl4Aroyl-1-Benzoyl Pyrazoles”.
- 8) **CSIR Sponsored National Conference** on Recent Advances in Chemical Research (NCRACR-2009), Feb 6-7, 2009 Department of Chemistry, University College of Science, Osmania University, Hyderabad. Topic: “A contribution in synthesis of Antimicrobial Study of 3, 5-Diaryl4Aroyl-1-Benzoyl Pyrazoles.
- 9) **Souvenir Cum Abstracts Published:** Synthesis and Characterization of 3, 5-Diaryl-4-Aroyl-1-Benzoyl Pyrazoles. UGC Sponsored Regional Seminar on Recent Trends in Heterocyclic Compounds in Chemical, Medicinal and Pharmaceutical, Sciences. 2nd March, 2008, M.F.M. Warud, Dist. Amravati.
- 10) **Asian Journal of Chemistry:** An International Quarterly Research Journal of Chemistry. Synthesis of 3, 5 Diaryl-4-Aroyl-1-Benzoyl- Δ^2 -Pyrazolines. Vol. 15, No.2, 2003.

Memberships and Affiliations:

Life Member of The society for Advancement of Electrochemical Science and Technology (SAEST), India

Current Projects :

Co-Investigator for “Development of direct Inkjet Flexible Electronic Circuits and Chemical Sensors” (Completed)



Name: Mrs. Shubhangi B. Karadkar

Designation: Assistant Professor in Chemistry

Department: Applied Sciences

Email: sbk.appsci@coep.ac.in

Contact Number: 6260428652

Website: (Optional)

Qualifications: M Sc.

Teaching Experience: 16 years

Industrial Experience: 0 years

Research Experience: 0 years

Area of Research: Synthesis and characterization of nanomaterials (Ferrites)

Courses Taught: Applied Chemistry

Responsibilities shouldered: (Central portfolios: past and present)

CollPoll Commite member.

Reviewer for Journals: Organic and Biomolecular Chemistry, Industrial and Engineering Research

Awards / honors received: N/A

Number of PhD/ M.Tech/ B.Tech students guided : 0

Research Project & Publication Details :

1. Published a research paper in GIS Science Journal Volume 9, issue 4 2022
Title-"Synthesis and Characterization of SnO₂ Nanoparticles by Coprecipitation

Method". By M. S. Phalak, Y. R. Toda & S. B. Karadkar.

Professional Body memberships and Affiliations:

Faculty can give link of their own website if any

Name: Dr. G.L. Agawane

Designation: Assistant Professor of Chemistry

Department: Applied Science

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Website: www.coep.org.in

User ID: gla.appsci@coep.ac.in

Teaching Experience: 2

Research Experience: 7

Qualifications:

M.Sc. (Chemistry), PhD (Materials Science & Engineering), Postdoctorate (Laser Physics)

Research interests: Nanotechnology, Solar Cells, Green Chemistry, Material Science, Laser Physics, Optical Telecommunication.

Teaching Responsibility: F.Y.B.Tech.Applied Chemistry, Applied Chemistry Laboratory

Additional Responsibility:Co-teacher for T.Y.B.Tech. Finance for Engineers

Selected Publications:

1. Preparation of $\text{Cu}_2(\text{Zn}_{1-x}\text{Mg}_x)\text{SnS}_4$ thin films by pulsed laser deposition technique for solar cell applications, G.L. Agawane, S.A. Vanalakar, A.S. Kamble, A.V. Moholkar, J.H. Kim, (2018) Materials Science and Semiconductor Processing, 76, 50-54
2. Spectroscopic properties of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped fluorophosphate glasses for NIR luminescence and optical temperature sensor applications, K. Linganna, G.L. Agawane, J.H. In, J. Park, J.H. Choi, (2018) Journal of Industrial and Engineering Chemistry, 67, 236-243
3. Spectroscopic properties of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped fluorophosphate glasses for optical device applications, K. Linganna, G.L. Agawane, J.H. In, J. Park, J.H. Choi, Photonic Fiber and Crystal Devices: Advances in Materials and Innovations in Device Applications XII (2018), International Society for Optics and Photonics, SPIE Optical Engineering + Applications, San Diego, California, United States. DOI: 10.1117/12.2320420
4. The green hydrothermal synthesis of nanostructured $\text{Cu}_2\text{ZnSnSe}_4$ as solar cell material and study of their structural, optical and morphological properties, S.A. Vanalakar, G.L. Agawane, A.S. Kamble, P.S. Patil, J.H. Kim, (2017) Applied Physics A, 123, 782



5. Thermo-Mechanical studies on Er³⁺-doped fluorophosphate glasses for near infrared lasers, G.L. Agawane, K. Linganna, J.H. In, J. Park, J.H. Choi, (2017) *Ceramics International*, 43, 11177-11181
6. Longer lifetime of Er³⁺/Yb³⁺ co-doped fluorophosphate glasses for optical amplifier applications, K. Linganna, G.L. Agawane, J.H. Choi, (2017) *Journal of Non-Crystalline Solids*, 471, 65-71
7. Sulfur ion concentration dependent morphological evolution of CdS thin films and its subsequent effect on photo-electrochemical performance, A. Kamble, B. Sinha, G.L. Agawane, S.A. Vanalakar, I.Y. Kim, J.Y. Kim, S.S. Kale, P. Patil, J.H. Kim, (2016) *Physical Chemistry Chemical Physics*, 18, 28024-28032
8. Influence of laser repetition rate on the Cu₂ZnSn(SSe)₄ thin films synthesized via pulsed laser deposition technique, S.A. Vanalakar, S.S. Mali, G.L. Agawane, A.S. Kamble, I.Y. Kim, P.S. Patil, J.Y. Kim, J.H. Kim, (2016) *Solar Energy Materials and Solar Cells*, 157, 331-336
9. Cu₂ZnSnS₄ solar cells with a single-time spin-coated absorber layer prepared via a simple sol-gel route, N.K. Youn, G.L. Agawane, D.H. Nam, S.W. Shin, J. Gwak, S.W. Shin, J.H. Kim, K.Y. Yoon, (2016) *International Journal of Energy Research*, 40, 662-669
10. Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO₂ sensor, V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure, (2016) *Chemical Engineering Journal*, 286, 36-47
11. Fabrication of 3.01% power conversion efficient high-quality CZTS thin film solar cells by a green and simple sol-gel technique, G.L. Agawane, A.S. Kamble, S.A. Vanalakar, S.W. Shin, M.G. Gang, J.H. Yun, J.H. Gwak, A.V. Moholkar, J.H. Kim, (2015) *Materials Letters*, 158, 58-61
12. Fabrication of Cu₂SnS₃ thin film solar cells using the pulsed laser deposition technique, S.A. Vanalakar, G.L. Agawane, A.S. Kamble, C.W. Hong, P.S. Patil, J.H. Kim, (2015) *Solar Energy Materials and Solar Cells*, 138, 1-8
13. Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness, V.V. Ganbavle, S.V. Mohite, G.L. Agawane, J.H. Kim, K.Y. Rajpure, (2015) *Journal of Colloid and Interface Science*, 451, 245-254
14. Synthesis of simple, low cost and benign sol-gel Cu₂ZnSnS₄ thin films: influence of different annealing atmospheres, G.L. Agawane, S.W. Shin, S.A. Vanalakar, M.P. Suryawanshi, A.V. Moholkar, J.H. Yun, J. Gwak, J.H. Kim, (2015) *Journal of Materials Science: Materials in Electronics*, 26, 1900-1907
15. A review on pulsed laser deposited CZTS thin films for solar cell applications, S.A. Vanalakar, G.L. Agawane, S.W. Shin, M.P. Suryawanshi, K.V. Gurav, K.S. Jeon, P.S. Patil, C.W. Jeong, J.Y. Kim, J.H. Kim, (2015) *Journal of Alloys and Compounds*, 619, 109-121
16. Investigations on Chemo-Mechano Stabilities of the Molybdenum Thin Films Deposited by DC-Sputter Technique, G.L. Agawane, S.W. Shin, S.A. Vanalakar, M.P. Suryawanshi, A.V. Moholkar, J.H. Kim, (2015) *Zeitschrift für Physikalische Chemie (ZPC)*, 229, 377-393
17. Non-vacuum mechanochemical route to the synthesis of Cu₂SnS₃ nano-ink for solar cell applications, S.A. Vanalakar, G.L. Agawane, S.W. Shin, H.S. Yang, P.S. Patil, J.Y. Kim, J.H. Kim, (2015) *Acta Materialia*, 85, 314-321

18. Next generation promising $\text{Cu}_2(\text{Zn}_x\text{Fe}_{1-x})\text{SnS}_4$ photovoltaic absorber material prepared by pulsed laser deposition technique, G.L. Agawane, S.W. Shin, S.A. Vanalakar, A.V. Moholkar, J.H. Kim, (2014) *Materials Letters*, 137, 147-149
19. Novel reduced toxic route synthesis and characterization of chemical bath deposited ZnSe thin films, G.L. Agawane, S.W. Shin, M.P. Suryawanshi, K.V. Gurav, A.V. Moholkar, J.Y. Lee, P.S. Patil, J.H. Yun, J.H. Kim, (2014) *Ceramics International*, 40, 367-374
20. Gas sensing properties of hydrothermally grown ZnO nanorods with different aspect ratios, K.V. Gurav, M.G. Gang, S.W. Shin, U.m. Patil, P.R. Deshmukh, G.L. Agawane, M.P. Suryawanshi, S.M. Pawar, P.S. Patil, C.D. Lokhande, J.H. Kim, (2014) *Sensors and Actuators, B: Chemical*, 190, 439-445
21. Fabrication of 5.2% efficient $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ solar cells using DC-sputtered metal precursors followed by sulfo-selenization, H.S. Yang, G.L. Agawane, S.W. Shin, S.A. Vanalakar, W.L. Jung, J.H. Kim, (2015) *Physica Status Solidi C*, 12, 708-712. 19th International Conference on Ternary and Multinary Compounds (ICTMC-19), Niigata, Japan, Sept. 1-5, 2014
22. Non-toxic novel route synthesis and characterization of nanocrystalline $\text{ZnS}_x\text{Se}_{1-x}$ thin films with tunable band gap characteristics, G.L. Agawane, S.W. Shin, S.A. Vanalakar, A.V. Moholkar, K.V. Gurav, M.P. Suryawanshi, J.Y. Lee, J.H. Yun, J.H. Kim, (2014) *Materials Research Bulletin*, 55, 106-113
23. Studies on the controlling of the microstructural and morphological properties of Al doped ZnO thin films prepared by hydrothermal method, M.G. Gang, S.W. Shin, K.V. Gurav, Y. Wang, G.L. Agawane, J.Y. Lee, J.H. Moon, J.H. Kim, (2013) *Japanese Journal of Applied Physics*, 52, Art. No. 10MA06-1-10MA06-5
24. Green route fast synthesis and characterization of chemical bath deposited nanocrystalline ZnS buffer layers, G.L. Agawane, S.W. Shin, M.S. Ki, M.P. Suryawanshi, K.V. Gurav, A.V. Moholkar, J.Y. Lee, J.H. Yun, P.S. Patil, J.H. Kim, (2013) *Current Applied Physics*, 13, 850-856
25. CZTS based thin film solar cells: A status review, M.P. Suryawanshi, G.L. Agawane, S.M. Bhosale, S.W. Shin, P.S. Patil, J.H. Kim, A.V. Moholkar, (2013) *Materials Technology*, 28, 98-109
26. Preparation and characterization of chemical bath deposited nanocrystalline ZnSe thin films using Na_3 -citrate and hydrazine hydrate: A comparative study, G.L. Agawane, S.W. Shin, M.P. Suryawanshi, K.V. Gurav, A.V. Moholkar, J.Y. Lee, P.S. Patil, J.H. Yun, J.H. Kim, (2013) *Materials Letters*, 106, 186-189
27. Thickness dependent H_2S sensing properties of nanocrystalline ZnO thin films derived by advanced spray pyrolysis, P.S. Shewale, G.L. Agawane, S.W. Shin, A.V. Moholkar, J.Y. Lee, J.H. Kim, M.D. Uplane, (2013) *Sensors and Actuators B: Chemical*, 177, 695-702
28. A facile and low cost synthesis of earth abundant element $\text{Cu}_2\text{ZnSnS}_4$ (CZTS) nanocrystals: Effect of Cu concentrations, S.W. Shin, J.H. Han, C.Y. Park, S.R. Kim, Y.C. Park, G.L. Agawane, A.V. Moholkar, J.H. Yun, J.H. Jeong, J.Y. Lee, J.H. Kim, (2012) *Journal of Alloys and Compounds*, 541, 192-197
29. A facile and low-cost synthesis of promising absorber materials on $\text{Cu}_2\text{ZnSn}(\text{S}_x\text{Se}_{1-x})_4$ nanocrystals consisting of earth abundant elements with tunable band gap characteristics, S.W. Shin, J.H. Han, Y.C. Park, G.L. Agawane, C.H. Jeong, J.H. Yun,

- A.V. Moholkar, J.Y. Lee, J.H. Kim, (2012) Journal of Materials Chemistry, 22, 21727-21732
30. Non-toxic complexing agent Tri-sodium citrate's effect on chemical bath deposited ZnS thin films and its growth mechanism, G.L. Agawane, S.W. Shin, A.V. Moholkar, K.V. Gurav, J.H. Yun, J.Y. Lee, J.H. Kim, (2012) Journal of Alloys and Compounds, 535, 53-61.
 31. Design and growth of quaternary Mg and Gacodoped ZnO thin films with transparent conductive characteristics, S.W. Shin, I.Y. Kim, G.H. Lee, G.L. Agawane, A.V. Moholkar, G.S. Heo, J.H. Kim, J.Y. Lee, (2011) Crystal Growth and Design, 11, 4819-4824
 32. Influence of deposition temperature on morphological, optical, electrical and opto-electrical properties of highly textured nano-crystalline spray deposited CdO:Ga thin films, A.V. Moholkar, G.L. Agawane, K.U. Sim, Y.B. Kwon, K.Y. Rajpure, J.H. Kim, (2010) Applied Surface Science, 257, 93-101
 33. Temperature dependent structural, luminescent and XPS studies of CdO:Ga thin films deposited by spray pyrolysis, A.V. Moholkar, G.L. Agawane, K.U. Sim, Y.B. Kwon, D.S. Choi, K.Y. Rajpure, J.H. Kim, (2010) Journal of Alloys and Compounds, 506, 794-799

Memberships and Affiliations:

- Member of the Korean Optoelectronics and Telecommunication Society since 2017, South Korea
- Member of the Korean Ceramic Society since 2016, South Korea
- Member of the Korean Photovoltaic Society since 2012, South Korea
- Associate Editor of Research in Medical and Engineering Sciences (RMES), Crimson Publishers, USA
- Editorial Board Member of Journal of Energy, Science Research Association (SCIREA), USA

Current Projects:

- Number of completed research projects: 3
- Total number of international publications: 64
- Most cited & downloaded articles and Invited talks: 15+



Name: Dr. Chandan Patel

Designation: Adjunct Faculty of Chemistry

Department: Applied Sciences

Email: patelc.appsci@coep.ac.in

Contact Number: 6260428652

Website: (Optional)

Qualifications: PhD. Ecole Normale Superieure de Lyon (France)

Teaching Experience: 3 years

Industrial Experience: 0 years

Research Experience: 3 years

Area of Research: Computational chemistry, reaction mechanism, catalysis, protein-ligand interactions

Courses Taught:

Responsibilities shouldered: (Central portfolios: past and present)

Member of team responsible for setting up and maintenance of the High Performance Computing Facility (Corona) at Indian Institute of Technology Bombay.

Reviewer for Journals: Organic and Biomolecular Chemistry, Industrial and Engineering Research

Awards / honors received: N/A

Number of PhD/ M.Tech/ B.Tech students guided : 0

Research Project & Publication Details :

1. Activation mechanism of plasmepsins, pepsin-like aspartic proteases from

Plasmodium, follows a unique trans-activation pathway

Rathore, I.; Mishra, V.; Patel, C. ; Xiao, H. ; Gustchina, A. ; Wlodawer, A. ; Yada, R. Y. ; Bhaumik, P. The FEBS Journal, *Accepted*, **2020**. DOI :10.1111/febs.15363

2. Hypercoordinate Iodine catalysts in enantioselective transformations : The role of catalyst folding in stereoselectivity

Sreenithya A.; Patel, C.; Hadad, C. M.; Sunoj, R. B. *ACS catal.* **2017**, *7*, 4189.

3. Mechanism and reactivity in the Morita-Baylis-Hillman reaction : the challenge of accurate computation

Liu, Z. ; Patel, C. ; Harvey, J. N. ; Sunoj, R. B. *Phys. Chem. Chem. Phys.* **2017**, *19*, 30647.

4. Mechanistic Insights and the Origin of Regioselective Borylation in an Iridium-Catalyzed Alkyl C(sp³)–H Bond Functionalization

Patel, C.* ; Abraham, V. ; Sunoj, R. B.* *Organometallics*, **2017**, *36*, 151.

*Corresponding Authors

5. Understanding the structural basis of substrate recognition by *Plasmodium falciparum* plasmepsin V to aid in the design of potent inhibitors

Bedi, R. K.‡; Patel, C.‡ ; Mishra, V. ; Xiao, H. ; Yada, R. Y. ; Bhaumik, P. *Sci. Rep.* **2016**, *6*, 31420.

‡Equal first authors

6. Structure, dynamics and interactions of a C4'-oxidized abasic site in DNA : a concomitant strand scission reverses affinities

Patel, C.; Tomàs, D. ; Lankas, F. ; Dumont, E. *Biochemistry*, **2013**, *52*, 8115.

7. Addressing the competitive formation of tandem DNA lesions by a nucleobase peroxy radical : a DFT-D screening

Dupont, C. ; Patel, C.; Ravanat, J. –L. ; Dumont, E. *Org. Biomol. Chem.* **2013**, *11*, 3038.

8. What Singles Out the G[8–5]C Intrastrand DNA Cross-Link? Mechanistic and Structural Insights from Quantum Mechanics/Molecular Mechanics Simulations

Patel, C.; Garrec, J.; Dupont, C.; Dumont, E. *Biochemistry*, **2013**, *52*, 425.

9. Insights into Intrastrand Cross-Link Lesions of DNA from QM/MM Molecular

Dynamics Simulations

Garrec, J.; Patel, C.; Rothlisberger, U.; Dumont, E. *J. Am. Chem. Soc.*, **2012**, *134*, 2111.

10. Improved DFT Description of Intrastrand Cross-Link Formation by Inclusion of London Dispersion Corrections

Dupont, C.; Patel, C.; Dumont, E. *J. Phys. Chem. B*, **2011**, *115*, 15138.

11. TiCl₄-Promoted Baylis–Hillman Reaction: Mechanistic Rationale toward Product Distribution and Stereoselectivity

Patel, C.; Sunoj, R. B. *J. Org. Chem.*, **2010**, *75*, 359.

12. Mechanistic Insights and the Role of Cocatalysts in Aza-Morita–Baylis–Hillman and Morita–Baylis–Hillman Reactions

Roy, D.; Patel, C.; Sunoj, R. B. *J. Org. Chem.*, **2009**, *74*, 6936.

13. Probing Intramolecular Interactions in Arylselenides Using a Property Descriptor Based Approach

Roy, D.; Patel, C.; Liebman, J. F.; Sunoj, R. B. *J. Phys. Chem. A*, **2008**, *112*, 8797.

Professional Body memberships and Affiliations:

Faculty can give link of their own website if any

Name Mahesh Shindikar

Designation: Assistant Professor of Biology

Department: Applied Science

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alternative maheshshindikar@gmail.com



Phone Number: 9422518291

Website: www.coep.org.in

User ID: 410917026

Teaching Experience: 13 years (after Ph.D.)

Research Experience: 12 years (after Ph.D.)

Qualifications: M.Sc., M.Phil., Ph.D.

Teaching Responsibility: Science of Living Systems (SY B.Tech. level)
Environmental Studies (TY B.Tech. level)

Additional Responsibility: Departmental level – Nil
Institute level – Coordinator -TEQIP (EAP), MOOC,
Garden Activities, Scholarship Schemes

Publications: 20

Memberships and Affiliations: Expert Member – Maharashtra State Coastal Zone Management Authority (MCZMA); Wetland Complaint Redressal Committee

Current Projects : Herbal Garden



Dr. Ketaki Kamble

Dr. Ketaki has a long standing enthusiasm for developing and implementing teaching modules that facilitate scientific enquiry, while carrying out research that reinforces understanding of scientific concepts among learners. During doctoral research at Indian Institute of Science, Bangalore; Ketaki explored genetic basis of muscle diversity in flight muscles of *Drosophila*. Her teaching interests shape research interests and vice versa. Dr. Ketaki strives at guiding learners through complex information to recognize critical principles, relationships and patterns governing the development and functioning of living forms. At the same time she endeavors to implement her research skills to explore research interests.

Designation: Assistant Professor of Biology

Department: Applied Science

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Phone Number: +91-9850646472

Website: www.coep.org.in

User ID: 421817118

Teaching Experience: July 2018-Present

Research Experience:

Ph. D in *Development and Genetics* (2013-18):

Muscle is a highly plastic tissue; that responds to neuromuscular activity, patho-physiological conditions, and exercise etc. predominantly by change of isoforms of sarcomeric as well as regulatory proteins. During my doctoral research, I addressed the question of how isoform

transitions are regulated in response to development and/or environmental conditions. One of major strategies of isoform transition is by alternative splicing (AS). RNA binding proteins (RBPs) are key players of regulating AS. The objective of the study was to dissect the role of one such RBP, Ataxin 2 Binding Protein 1 (A2BP1) in isoform transitions, using muscles of *Drosophila melanogaster* as model system. *Drosophila* has two types of muscles- the tubular muscles (similar to vertebrate skeletal muscles) and the fibrillar muscles (similar to vertebrate cardiac muscles). We identified novel roles of A2BP1 in generation of muscle diversity during development. A2BP1 regulates muscle fiber-type specific isoform changes during development as a result of which structural protein stoichiometry is maintained in adult muscles. Rbfox1 mediates the specification of tubular muscle fibers by negatively regulating the determinants of fibrillar muscle fate, Extradenticle, Spalt (major) and Arrest, in tubular muscles. Conversely, negative regulation of Rbfox1 by Salm and/or Arrest is crucial to fibrillar muscle fate in the DLMs. It is responsible for conferring muscle fiber specific isoform of structural protein, Troponin-I, failure of which leads to a muscle hypercontraction phenotype in the DLMs.

MS (2011-2013):

As part of Integrated PhD program in IISc, I completed 64 credits in 4 semesters with total grade point average (TGPA) score of **6.3/8**. The subjects studied as part of course work are- Biochemistry, Microbiology, Genetics, Laboratory techniques, Introduction to Biophysical Chemistry, Proteomics, Evolutionary Biology, Gene expression during Development, Protein structure, Folding and Design, Mathematics and statistics for biologists, RNA biology, Molecular and cellular biology, Current trends in Drug Discovery, Topics in Theoretical Biology, Quantitative Ecology, Science and Technology, Principles of Genetic Engineering

1. *Ropalidiamarginant* behaviour - Raghavendra Gadakar lab, Department of Ecological Science (CES), IISc.

2. *Arabidopsis thaliana* leaf growth - Utpal Nath lab, Department of Molecular and Cellular Biology (MCB), IISc

Qualifications:

- Qualified the joint UGC-CSIR exam of National Eligibility Test (NET) for Lectureship (LS), with 53.2% and All India Rank **46**. (June 2016)
- Qualified Joint Admission Entrance exam for Integrated Ph. D at Indian Institute of Technology (IIT-JAM) with All India Rank **138**. (June 2011)
- Qualified all India entrance test for Jawaharlal Nehru University (JNU) with All India Rank **4**. (June 2011)

- **First** rank in first year, second year and third year in B. Sc. Biotech in BAMU.

Teaching Responsibility:

Courses-

- Science of Living System (Credits 3:0)
- Environmental Studies (Mandatory audit course)

Additional Responsibility:

- Mentorship First Year Engineering students
- Organizing workshops/talks for students about health and lifestyle awareness.

Publications:

- Poster “Role of dA2BP1 in IFM development and function.” **Kamble K.**, and Nongthomba U. Biennial *Drosophila* Research Conference, December **2015**.
- Poster “Roles of the dA2BP1 in maintaining structural protein stoichiometry and fiber diversity of *Drosophila* muscle” **Kamble K.**, and Nongthomba U. 58th Annual *Drosophila* Research Conference, March-April **2017**.

Memberships and Affiliations: None

Current Projects: None

EDUCATION

Program	Institute	Year	Academic performance
B. Sc.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	2088-11	79.82%
M.S	Part of Integrated PhD program in Indian Institute of Science, Bangalore	2011-13	6.3/8

Ph.D	Indian Institute of Science, Bangalore	2018	Thesis defended
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Research Interests

- I am interested in exploring computational biology for answering persistent questions related to the emergent properties of neural networks like learning, memory and consciousness.
- I also intend to explore strategies to enhance use of biocontrol agents for fungal infections in agricultural crops.



Name: Mrs. Shalaka Deshpande

Designation: Adjunct Professor, Applied Science Dept.

Department: Applied Science

Email: sdd.appsci@coep.ac.in

Phone Number: +91-9823091023

Website: www.coep.org.in

User ID: sdd.appsci@coep.ac.in

Teaching Experience: Total Teaching Experience: 22 yrs,

Institute Based: 12 years+

COEP: 7 years+

Research Experience: NA

Qualifications: B.COM, LLB, LLM, MCPM,

Professional Course in French...

Teaching Responsibility: Intellectual Property Rights & Constitution of India Course for TYBTech, BTech, MTech.

Additional Responsibility: NA

Publications: NA

Memberships and Affiliations: Member of Bar Council of Maharashtra and Goa

President of Rotary Club of Pune Sahyadri,
Member of Rotary International
District Officer under Rotary International.

Current Projects: NA

Kshipra V. Moghe (Ph.D.)

Designation: Assistant Professor of Psychology

Department: Applied Science

Email: kam.appsci@coep.ac.in

Phone Number: +91 20 25507038

Website: www.coep.org.in

User ID: kam.appsci@coep.ac.in

Teaching Experience: 12 years

Research Experience: 5 years

Qualifications:

M.A.-Clinical Psychology, SET, PGDHRM,

Ph.D. Psychology from Savitribai Phule Pune University (SPPU)

Certificate training in Cognitive Behaviour Therapy (CBT)

Teaching Responsibility:

Teaching Professional Ethics and Values (PEV) to SYBTech

Industrial Psychology as an Institute Level Open Elective to TYBTech students

Subject matter for PEV includes tutorials on topics such as Self-Awareness, Time management, Adjustment, Emotional Intelligence, Stress Management, from the ethical perspective

Subject matter for Industrial Psychology includes basics of the specialization with focus on practical learning that includes Mock Interviews, Research Projects and Papers, Seminars, Guest lectures and Industrial Visits

Additional Responsibility:

Professional Psychological Counseling to students in need, and as and when required (with prior appointment)

Co-Faculty advisor for CoEP Cultural & Impressions

Faculty advisor for Mindspark

Faculty Advisor for COEP Newsletter 'Abhijaat' since 2012-13

Publications:

- “CBT in Disguise: Success and Challenges with Engineering Students” presented in International Conference on Cognitive Behaviour Therapy (RCI Accredited) organized by Indian Association of Cognitive Behaviour Therapy at SGT University, Gurugram, Haryana in September 2018; publication in pipeline



- “Communication & Personality: Exploring Mother-Daughter Relationship” presented in the 2nd International Conference of the Bombay Psychological Society “Family at Crossroads: 21st Century” at Sophia College, Mumbai in December, 2013; published in Bombay Psychologist (ISSN:0975-0738)
- “Parenting the Gifted: Role of Perception and Communication,” presented in the National Conference “Beyond Horizons: Exploring Giftedness in 21st Century,” organized by Jnana Prabodhini’s Institute of Psychology, at YASHADA in February 2013; published in Conference Proceedings (ISBN: 978-93-5258-225-9)
- Co-author of Research Paper “Work Life Balance in Indian Public Sector,” which has been published in the Annual Journal of University of Allahabad, U.P. (2008-2009)

Memberships and Affiliations:

Annual Member of Member of Indian Association of Clinical Psychology (IACP)

Life member of National Academy of Psychology (NAOP)

Current Projects :

Career choices of Engineering students

Identifying the satisfaction level of stakeholders from engineering education (awaiting confirmation)

Establishing a Wellness Centre for students at COEP (in process)

Assessing employability (in process)



Name: Tanuja Jayant Kher

Designation: Assistant Professor of Psychology

Department: Applied Science

Email: tjk.appsci@coep.ac.in

Phone Number: +91 20 2550 7538

Website: www.coep.org.in

User ID: tjk.appsci@coep.ac.in

Teaching Experience: 25 years

Research Experience:

Qualifications:

- B.A., 1983, Pune University
- M.A., 1985, Pune University
- B.Ed., 1987 S.N.D.T. University
- M.Phil 1991 Pune University
- Diploma in Professional Skills in Psychology

Teaching Responsibility:

Teaching courses –Personnel Psychology and Professional ethics and human values

Additional Responsibility:

Counseling for students, support staff and faculty Trainers' training, Teacher's training, Life skill trainer

Conducted number of workshops and delivered lectures for college students on self awareness personal excellence, motivation and stress management

Certificate courses in Flower remedy, Reiki and SUJOK therapy.

Publications:

1 International conference paper

5 National level papers

3 Textbooks of Psychology

1 Book 'Introduction to psychology' for School of Distance Education, Bharati Vidyapeeth, Pune

Memberships and Affiliations:

- Worked as a Secretary and founder member of Academy for Personality Development
 - Life Member of Indian Association of Human behavior
 - Life member of Human Education Society
-

Current Projects :

Pursuing Ph.D.



Name: Anvay Aher

Designation: Assistant professor of psychology

Department: Applied Science

Email: ava.appsci@coep.ac.in

Contact Number: 8390636792

Website: (Optional)

Qualifications: M.A. (NET)

Teaching Experience: 1 ½ years

Industrial Experience: 1 years

Research Experience: 0 years

Area of Research: Clinical psychology

Courses Taught: Professional Ethics and Human Values, Professional Law Ethics, Values and Harmony, Design Thinking

Responsibilities shouldered: (Central portfolios: past and present) Faculty advisor Impressions, Faculty Advisor Mitra, LLC Japanese coordinator, Guiding students for Vishwakarma awards, Coordinating Open Space activity, Coordinating syllabus for PLEVH

Awards / honors received:

Number of PhD/ M.Tech/ B.Tech students guided :

Research Project & Publication Details : (**hyperlink for these details, it can be you own website of detailed data or PDF file of below listed attributes**)

(may consisting of below details)

- Projects
- Patents
- Consultancy
- Publications

Professional Body memberships and Affiliations:

Faculty can give link of their own website if any



Name: Aparna Khandekar

Designation: Adjunct Professor - Communication Skills

Department: Applied Sciences

Email: ask.appsci@coep.ac.in

Contact Number: 020-25507553 ; 9822840978

Website: (Optional)

Qualifications: MPM; NET; MA - English; PGCTE; M Phil - English (Thesis to be submitted);
Dipl. in Fashion Designing; Certi. course in French Language (Pune Uni.)

Teaching Experience: 18 years

Industrial Experience: 8 years

Research Experience: 1 yr

Area of Research: English as Second Language

Courses Taught: Effective Communication Skills, Effective Technical Communication, English Language Proficiency I&II, H R Management, Organisational Behaviour, Corporate Governance and Corporate Social Responsibility,

Responsibilities shouldered: Faculty Advisor - Debate and Quiz Club

Awards / honors received:

Number of PhD/ M.Tech/ B.Tech students guided : N A

Research Project & Publication Details : (**hyperlink for these details, it can be your own website of detailed data or PDF file of below listed attributes**)

(may consisting of below details)

- Projects

- Patents
- Consultancy
- Publications

Professional Body memberships and Affiliations:



Name: Dr. LeenaJadhav

Designation: Adjunct Professor of Communication Skills

Department: Applied Sciences

Email: luj.appsci@coep.ac.in

Phone Number: +91 20 2550 7554

Website: www.coep.org.in

User ID: luj.appsci@coep.ac.in

Teaching Experience: 14 years

Research Experience: 10 years

Qualifications:

- B.A., 2002, SavitribaiPhule Pune University
- M.A., 2004, SavitribaiPhule Pune University
- M.Phil., 2010, SavitribaiPhule Pune University
- Ph.D.,2017, Shivaji University Kolhapur

Other Qualifications

- Completed ‘NLP SUBCONSCIOUS REIMPRINTING MASTER PRACTITIONER CUM COACH PROGRAMME’ organized by Midas Touch at Pune from July 19-23, 2017.

- Completed ‘A Basic Course in Spanish’ from Let’s Talk Academy, Pune.
- Completed a Post-Graduate Diploma in Sanskrit Linguistics from Pune University in the academic year July 2005 – March 2006.

Teaching Responsibility:

- A course in “Professional Communication” to F.Y. B. Tech students
- A course in “Humanities” to F.Y. M. Tech students
- A remedial course in English entitled “A Course in Communicative English” to M. Tech students

Additional Responsibility:

- Prepared a syllabus for a remedial course in English to be conducted for M. Tech students
- Mentor of a batch formed during the induction programme of F.Y. B. Tech students

Publications:

- Jadhav, L. &Karekatti, T. (2019). The Verb Phrase in English and Marathi: A Study in Markedness Differential Hypothesis. FORTELL, 38.
- Jadhav, L. (2019). ‘Using Whatsapp to Teach English to the School Teachers in Rural India’ in ‘*Selected Papers from the 8th National Conference on ‘Empowering Students of Bharat with English for Career Development’*, ELTIS, Gayatri Printers, Pune, 119-37.
- Jadhav, L. &Karekatti, T. (2017). The Acquisition of the Perfect Progressive Construction in English by Management Students: A Study in Error Analysis. *The Journal of English Language Teaching (JELT)*, LIX (6),17-25.
- Jadhav, L. &Karekatti, T. (2017).The Acquisition of the Perfect Aspect in English by Engineering Students. *Asian Journal of English Studies*, 6 (3), 35-47.
- Jadhav, L. (2016). The Use of English Verb Phrase in English by Marathi Speakers of English: A Case Study. *LangLit*, 2(4), 469-74.

- Jadhav, L. (2015). The Progressive Aspect in English and Marathi: A Comparative Study. *Journal of Higher Education and Research Society: A refereed international*, 3(2), 488-97.
- Jadhav, L. (2014). The Verb Phrase in Marathi. *ETL Voices – India*, 4(2), 107-24.
- Jadhav, L. (2011). ‘Honing Communication Skills of Students’ in *ELTWeekly* Vol.3 Issue 85, 20-32 <http://www.elweekly.com/eltnewsletter/2011/03/85-research-article-honing-communication-skills-of-students-by-leena-u-jadhav/>
- Jadhav, L. (2012). ‘Acquisition of the English Perfect Aspect by Marathi Speakers of English Language’ in ‘*Selected Papers from the 1st National Conference on ELT: Language and Culture*’, ELTIS, Gayatri Printers, Pune, 153-58.
- Jadhav, L. (2015). ‘Teaching Grammar Through Songs’ in *Selected Papers from an International Conference on ‘Language, Literature and Culture’*, IASE, Pune, 76-82.
- Jadhav, L. (2013). ‘Practising Grammar through Activities’ in ‘*Selected Papers from the 2nd National Conference on Making the Teaching and Learning of Grammar a Pleasure: Challenges and Solutions*’, ELTIS, Gayatri Graphics, Pune, 198-204.
- Jadhav, L. (2012). ‘Let’s Talk: Enhancing Speaking Skills of Students’ Activities’ in ‘*Selected Papers from the 3rd National Conference on Developing Speaking Skills*’, ELTIS, Gayatri Graphics, Pune, 65-73.

Teacher Training Workshops Attended:

- ‘A Workshop on Statistical Data Analysis Using SPSS’ organized by the Department of Statistics, Shivaji University, Kolhapur. (Duration: 6th June 2016 – 11th June 2016)
- Participated in the ‘Training Programme on Development & Delivery of Self-Learning

Material (SLM)' organized by Indira International Distance Education Academy, Pune. (Duration: 23rd April 2010 – 24th April 2010)

- Cambridge English Teachers Support Workshop in 'Developing the Four Skills in Preparation for Cambridge English Business Certificates (BEC)' organized by Cambridge English Language Assessment. (Duration: 28th September 2013 to 29th September 2013.
- Workshop for English Language Teachers and Trainers in 'Teaching Business English in the Classroom' organized by University of Cambridge ESOL Examinations.

(Duration: 2nd September 2010 to 3rd September 2010)

- Workshop for BEC Trainers focusing on 'Developing Business English Teacher/Trainers' organized by University of Cambridge ESOL Examinations on 17th December 2010.
- Attended teacher training programmes by Trinity College London for GESE examination.

Memberships and Affiliations:

- Executive Joint Secretary of the Pune Chapter of English Language Teachers' Association
- Life member of Linguistic Society of India



Name: Avinash D. Khandizod

Designation: Adjunct Faculty

Department: Applied Science

Email: ank.appsci@coep.ac.in

Contact Number: 020-25507032

Website: (Optional)

Qualifications:

- B.A. in English, 2011, Savitribai Phule Pune University
- M.A. in English, 2013, Department of English, Savitribai Phule Pune University
- MPhil (Applied Linguistics), 2018, Department of English, Savitribai Phule Pune University
- NET (JRF)
- SET
- Registered for PhD in English, at the Department of English, Savitribai Phule Pune University in January 2019

Teaching Experience: 7 years

Industrial Experience: N.A.

Research Experience: 3 years

Area of Research: Applied Linguistics, English Language Teaching, Business Communication, British Literature, Indian Writing in English and in English Translation

Courses Taught: Effective Communication Skills, Effective Technical Communication

Responsibilities shouldered: (Central portfolios: past and present)

Coordinator-Liberal Learning Courses

Awards / honors received:

Junior Research Fellowship

Number of PhD/ M.Tech/ B.Tech students guided : N.A.

Research Project & Publication Details : (**hyperlink for these details, it can be you own website of detailed data or PDF file of below listed attributes**)

(may consisting of below details)

- Projects
 - Patents
 - Consultancy
 - Publications
1. The paper titled '**Situating Marathi Dalit Autobiographies**' in a UGC referred international journal 'Research Journey', **Vol.-V, Issue-I** with ISSN No. 2348-7143
 2. A paper on '**A Study of Linguistic Innovations in *The God Small Things and The Inheritance of Loss***' published in a book proceeding of the SPPU sponsored National Seminar on *Postcolonial Indian Writing in English* with **ISBN No. 978-93-24457-18-3**
 3. A paper on '**A Feministic Reading of Arundhati Roy's *The God of Small Things***' published in a book proceeding of SPPU sponsored National Seminar on *Recent Trends in English Studies in India* with **ISBN No.978-81-930245-7-6**
 4. Presented a paper titled '**Baluta: A Reconsideration Touching Upon Politics of Consumption**' in a two-day National Conference organized by Ahmednagar College, Ahmednagar on 16th Feb 2019

Professional Body memberships and Affiliations:

Office Bearers, ELT@I Pune Chapter

Faculty can give link of their own website if any



Name: Ms.Viveka Singh

Designation: Adjunct Faculty

Department: Applied Science

Email: vss.appsci@coep.ac.in

Contact Number: 9923215484

Website: (Optional)

Qualifications: B.A, M.A, SET (English)

Teaching Experience: 05 years

Industrial Experience: 03 years

Research Experience: years

Area of Research: English Language and Literature Teaching

Courses Taught: Communication Skills, English for practical purposes, Literature for Life, English Literature for Communicative purposes.

Responsibilities shouldered: (Central portfolios: past and present)

Awards / honors received:

Number of PhD/ M.Tech/ B.Tech students guided : NA

Research Project & Publication Details : (**hyperlink for these details, it can be you own website of detailed data or PDF file of below listed attributes**)

(may consisting of below details)

- Projects
- Patents
- Consultancy
- Publications- 1) ELT Voice- an International Peer-Reviewed Journal published by ISEL research article- “ A Critical Analysis of Allusions used in Bob Dylan’s Desolation Row”.

2) National Conference on “USE OF ICT TOOLS IN EDUCATION”. Paper published- Role of ICT in teaching of English Language and Literature

3) INCON’s International Conference on “ONGOING RESEARCH IN MANAGEMENT AND IT”. Paper published- Global Capitalism and its Impact on English Language Teaching

Professional Body memberships and Affiliations: