

CHHAGAN DADAJI MUNGMODE

ASSOCIATE PROFESSOR
DEPARTMENT OF PHYSICS
MAHATMA GANDHI ARTS, SCIENCE
& LATE N.P. COMMERCE COLLEGE,
ARMORI, DIST. GADCHIROLI (M.S.)
441208



EXPERIENCE

ASSOCIATE PROFESSOR

12/12/2020 - present

ASSISTANT PROFESSOR

07/12/2006 - 11/12/2020

MAHATMA GANDHI ARTS, SCIENCE & LATE
N.P. COMMERCE COLLEGE, ARMORI, DIST.
GADCHIROLI (M.S.) 441208

- Teaching Physics to UG Classes for more than 15 years
- Recognised Ph.D. Guide of Gondwana University, Gadchiroli.
- Member of College Development Committee (CDC) - 2017 - 2022
- Member of IQAC - 2008 - present
- Coordinator - Career Oriented Courses
- Organizing Secretary - National/ International Conferences/ Workshops
- Research Publications - 24 in International Journal

CONTACT

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Flat No. 104, Shivam Apartment
Ganvir Hospital Road, Sheshnagar,
Bramhapuri, Dist. - Chandrapur (M.S.)
441206

EDUCATION

Doctor of Philosophy (Ph.D.)

2014 - 2018

Gondwana University, Gadchiroli

Master Degree (M.Sc.) in Physics

2003 - 2005

Department of Physics,
Pune University, Pune

Bachelor Degree in Science (B.Sc.)

2000 - 2003

N.H. College, Bramhapuri
Nagpur University, Nagpur

PERSONAL INFORMATION

- **Date of Birth:** 30th April, 1982
- Male, Married, Indian
- **Category:** Other Backward Class (OBC)

ACADEMIC QUALIFICATIONS

Degree/Diploma	Name of University/ Board	Year of Passing	% of Marks/GP A	Class/ Grade
M.Sc. in Physics (Bioelectronics)	Department of Physics, University of Pune, Pune	2005	GPA- 6.0	A - Grade
B.Sc. (Phy, Elect, Math)	RTM Nagpur University, Nagpur	2003	58.00 %	Higher Second Class
H.S.C. (XII th)	Nagpur Divisional Board	2000	65.67%	First Class
S.S.C. (X th)	Nagpur Divisional Board	1998	69.86%	First Class
SET Jan. 2006 (Conducted by University of Pune as state agency, approved by UGC Delhi)				
Advance Diploma in Computer Programming & System Management (ADCP & SM) (2002) – IGM Delhi.				

RESEARCH DEGREE

Degrees	Title	Date of award	University
Ph.D.	Synthesis and Characterization of Eu ²⁺ Activated Phosphors For Solid State Lighting	07/03/2018	Gondwana University, Gadchiroli

PROJECT COMPLETED

1. Completed one Minor Research Project, entitled “*Photoluminescence & Thermoluminescence Studies of Some Inorganic Phosphors*”, funded by U.G.C., Delhi. Sanctioned Amount – Rs. 1,85,000/-, Duration – 2 Years (07/08/2012 to 06/08/2014).
2. Carried out M.Sc. Project entitled “*Study of Effect of Different Parameters on the Adhesion of Cr-Cu Thin Film*”, Duration – 6 months.

RESEARCH PUBLICATIONS:

Int. Journal - 24, Nat. Journal - 01, Nat. Conference Proceedings - 06, Paper Presentation - 04

International / National Journal

Sr. No.	Title of the paper	Name of the authors	Details of the journal	Year of publication
1.	Wet Chemical Synthesis and Luminescence in $\text{Ca}_5(\text{PO}_4)_3\text{M}:\text{Eu}^{2+}$ (M = Br, I) Phosphors for Solid State Lighting	C. D. Mungmode , D. H. Gahane, S. V. Moharil	AIP Conference Proceedings, Vol. 1953, 060037 doi:10.1063/1.5032768 pp. – 060037 – 1 to 060037 - 4	May, 2018
2.	On the Preparation and Photoluminescence of Eu^{2+} - doped Alkaline-Earth Apatites $\text{M}_5(\text{PO}_4)_3\text{Cl}$ (M = Ca, Sr, Ba)	C. D. Mungmode , D. H. Gahane, S. V. Moharil	Journal of Optics, (Springer) Vol. 48, 1 (2019) doi: 10.1007/s12596-018-0498-2 pp. 49 - 53	March, 2019
3.	Luminescence in Eu^{2+} Activated $(\text{Ca}_{5-x}\text{Sr}_x)(\text{PO}_4)_3\text{Cl}$ (x = 0.1, 2.4) Phosphors	C. D. Mungmode , D. H. Gahane, B.V. Tupte, M.M. Bhawe, S. V. Moharil ⁴	Materials Today: Proceedings, (Elsevier) Vol. 15 (2019) 555– 559 doi: 10.1016/j.matpr.2019.04.120	May, 2019
4.	Structural and Dielectric Properties in PVDF/6A Clay Nanocomposites	C. V. Chanmal, S. S. Bandgar, C. D. Mungmode , S. G. Pawar, R. N. Mulik	Macromolecular Symposia (Wiley Publication) 2021, 400, 2100032 https://doi.org/10.1002/masy.202100032	Dec., 2021
5.	Photoluminescence in Eu^{3+} Activated Li_4MoO_5 Phosphors	B.V. Tupte, M.M. Bhawe, C. D. Mungmode , D. H. Gahane, S. V. Moharil	AIP Conf. Proc. Vol. 2104, 020008 (2019). Doi: 10.1063/1.5100376 pp. – 020008 – 1 to 020008 - 5	May, 2019
6.	Synthesis and luminescent properties of Eu^{3+} activated $\text{Li}_3\text{Sr}_2\text{La}_3(\text{MoO}_4)_8$ red emitting phosphors	D. H. Gahane, B.V. Tupte, P.W. Yawalkar, M.M. Bhawe, C. D. Mungmode , S. V. Moharil	AIP Conf. Proc. Vol. 2104, 020009 (2019). https://doi.org/10.1063/1.5100377 pp. – 020009 – 1 to 020008 - 6	May, 2019
7.	Photoluminescence of orthorhombic Yb^{3+} $\text{Li}_2\text{Mg}_2(\text{MoO}_4)_3$ crystal doped with Yb	M.M. Bhawe, B.V. Tupte, C. D. Mungmode , D. H. Gahane, S. V. Moharil	AIP Conf. Proc. Vol. 2104, 030038 (2019). https://doi.org/10.1063/1.5100465 pp. – 030038 – 1 to 030038- 5	May, 2019
8.	Development of Blue Emitting Alkaline Earth Chlorophosphate Phosphors for White Light Emitting Diode	D. H. Gahane, B. M. Bahirwar, C. D. Mungmode , S. V. Moharil	Bionano Frontier, special issue, pp. 38-40	Dec. 2011

9.	Optical Properties of Eu^{2+} Activated Li_2MgBr_4 & Li_6MgBr_8 Phosphors	C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Basic and Applied Research, special vol. 4, pp. 1-3	Jan. 2013
10.	Synthesis and Photoluminescence of Blue Emitting $\text{Ca}_5(\text{PO}_4)_3\text{Cl}$ Phosphor	C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Luminescence and Application, vol. 5, no. 1, pp. 24-25	Feb. 2015
11.	Photoluminescence Properties of $\text{K}_2\text{Sr}(\text{MoO}_4)_2:\text{Eu}^{3+}$ Red Emitting Phosphor by the Combustion Synthesis	B.V. Tupte, C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Luminescence and Application, vol. 6, no. 1, pp. 79-81	Feb. 2016
12.	Wet Chemical Preparation and Photoluminescence in $\text{Cs}_2\text{MCl}_4:\text{Eu}^{2+}$ (M = Ba, Ca) Phosphor for pLED Application	C. D. Mungmode , M.M. Bhawe, B.V. Tupte, D. H. Gahane, S. V. Moharil	International Journal of Current Engineering and Scientific Research, vol. 5, no. 1, pp. 44-46	Jan. 2018
13.	Synthesis and Optical Properties of Yb^{3+} Doped $\text{Li}_3\text{Ba}_2\text{La}_3(\text{MoO}_4)_8$	M.M. Bhawe, B.V. Tupte, C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Current Engineering and Scientific Research, vol. 5, no. 1, pp. 111-115	Jan. 2018
14.	Synthesis and Photoluminescence Properties of the High-Brightness Eu^{3+} Doped $\text{Li}_{0.5}\text{Al}_{0.5}\text{Mg}_2(\text{MoO}_4)_3$ Red Phosphors	B.V. Tupte, M.M. Bhawe, C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Current Engineering and Scientific Research, vol. 5, no. 1, pp. 298-303	Jan. 2018
15.	Combustion Synthesis and Luminescence Properties of Red Emitting $\text{Sr}_{4-x}\text{Al}_x\text{MoO}_{16}:\text{xEu}^{3+}$ Phosphors	B.V. Tupte, M.M. Bhawe, C. D. Mungmode , D. H. Gahane, S. V. Moharil	International Journal of Scientific Research in Science and Technology", vol. 4, no. 1, pp. 319-323	Jan. 2018
16.	Photoluminescence Properties of Novel Red Emitting $\text{Ca}_{2-x}\text{ZnMoO}_6:\text{Eu}^{3+}$ Phosphor	B.V. Tupte, M.M. Bhawe, C. D. Mungmode , D. H. Gahane	Int. J. Current Engineering And Scientific Research Vol. 6, 1 (2019) pp. 1058 - 1062	January, 2019
17.	Synthesis And Optical Characterization of Yb^{3+} Doped $\text{LiY}(\text{MoO}_4)_2$	M.M. Bhawe, B.V. Tupte, C. D. Mungmode , D. H. Gahane	Int. J. Current Engineering And Scientific Research Vol. 6, 1 (2019) pp. 757 - 760	January, 2019
18.	Photoluminescence Studies of Eu^{3+} Doped $\text{CsAl}(\text{MoO}_4)_2$ Phosphor	D. H. Gahane, B.V. Tupte, M.M. Bhawe, C. D. Mungmode	Int. J. Current Engineering And Scientific Research Vol. 6, 1 (2019) pp. 211 - 215	January, 2019
19.	Photoluminescence Properties of Eu^{3+} Doped $\text{Li}_3\text{AlMo}_3\text{O}_{12}$ Red Phosphor	D. H. Gahane, B.V. Tupte, M.M. Bhawe, C. D. Mungmode , S. V. Moharil	Int. Multidisciplinary Journal Ajanta Vol. VIII, I (2019) pp. 62 - 67	March, 2019

20.	Photoluminescence Properties of Eu ³⁺ Doped NaMg ₃ Al(MoO ₄) ₅ Red Phosphor	B.V. Tupte, M.M. Bhave, C. D. Mungmode , D. H. Gahane, S. V. Moharil	Int. Multidisciplinary Journal Ajanta Vol. VIII, I (2019) pp. 95 - 100	March, 2019
21.	Photoluminescence Properties of Yb ³⁺ Doped Ca ₈ [Al ₁₂ O ₂₄](MoO ₄) ₂	M.M. Bhave, B.V. Tupte, C. D. Mungmode , D. H. Gahane, S. V. Moharil	Int. Multidisciplinary Journal Ajanta Vol. VIII, I (2019) pp. 147 - 152	March, 2019
22.	Synthesis and Photoluminescence of Near UV Exciting Eu ²⁺ Activated Ba ₅ (PO ₄) ₃ Cl Blue Phosphor	C. D. Mungmode , D. H. Gahane, S. V. Moharil	N. H. Res. J. Multidisciplinary Studies, vol. 1, no.2, pp. 16-18	July 2016
23.	Photoluminescence in NaCa ₂ Br ₅ :Eu ²⁺ Novel Phosphor.	C. D. Mungmode , D. H. Gahane, S. V. Moharil	Int. Res. J. of Science & Engineering, (2020); Special Issue pp. A7:64-67	Feb., 2020
24.	Synthesis and Characterization Zinc Oxide Thin Films Prepared by Chemical Bath Deposition	C. V. Chanmal, S. S. Bandgar, C. D. Mungmode , S. G. Pawar, R. N. Mulik	International Journal of Scientific Research in Science and Technology, Vol. 8, no. 1 (2021) pp. 94-99	Feb., 2021
25.	Photoluminescence Properties of Some Molybdate Phosphors Containing	B.V. Tupte, D.H. Gahane, M.M. Bhave, C.D. Mungmode , S.V. Moharil	International Journal of Scientific Research in Science and Technology, Vol. 8, no. 1 (2021) pp. 130-132	Feb., 2021

CONFERENCE PROCEEDINGS

1. **C. D. Mungmode**, D. H. Gahane, S. V. Moharil, "Luminescence Characteristics of Eu²⁺ Activated RbSr₂Br₅ Phosphor," in *Nat. Conf. Advanced Materials*, Katol, Mah., 2014, pp. 161-163.
2. **C. D. Mungmode**, D. H. Gahane, S. V. Moharil, "Eu²⁺ Emission in Rb₃ZnBr₅ and Rb₂ZnBr₄ Phosphors," in *Nat. Conf. Novel Synthesis and Advanced Materials*, Gondia, Mah., Dec. 2014, pp. 15-17.
3. **C. D. Mungmode**, D. H. Gahane, "Effect of Different Parameters on Adhesion & Thickness of Cr-Cu Film on Al₂O₃ Substrate," in *Nat. Conf. Synthesis of Materials: Characterization and Application*, Bhandara, Mah., Dec. 2013, pp. 53-57.
4. **C. D. Mungmode**, "Review of Recent Developments in Display Phosphors," in *Nat. Conf. Nanoscience & Nanotechnology*, Armori, Mah., Jan. 2011, pp. 92-95.
5. K. G. Bhaiya, D. H. Gahane, **C. D. Mungmode**, S. V. Moharil, "Luminescence of Eu²⁺

Activated Double Chlorides KMgCl_3 , KCaCl_3 & KSrCl_3 ,” in *Nat. Conf. Synthesis of Advance Materials & their Applications*, Bramhapuri, Mah., Mar. 2010, pp. 99-102.

6. D. H. Gahane, N. S. Kokode, C. D. Mungmode, S. V. Moharil, “Luminescence of Eu^{2+} in Some Iodides,” in *Nat. Conf. Recent Trends in Basic & Applied Materials*, Nagpur, Mah., Jan. 2009.

PAPER PRESENTED

1. C. D. Mungmode, D. H. Gahane, S.V. Moharil, “Preparation and Photoluminescence in $(\text{CaBa}_{0.96})\text{PO}_4\text{Cl}:0.04\text{Eu}^{2+}$ ” in *Nat. Conf. on Luminescence and its Applications*, Trivendrum, Kerala, Feb. 2018.
2. C. D. Mungmode, D. H. Gahane, S.V. Mohari, “Wet Chemical Synthesis and Luminescence in $\text{Ca}_5(\text{PO}_4)_3\text{M}:\text{Eu}^{2+}$ (M = Br, I) Phosphors for Solid State Lighting”, in *2nd Int. Conf. on Condensed Matter and Applied Physics*, Bikaner, Rajasthan, Nov. 2017.
3. D. H. Gahane, C. D. Mungmode, S. V. Moharil, “Development of Blue Phosphor for White Light Emitting Diode,” in *Nat. Conf. Lasers and Advance Materials*, Amravati, Mah., May 2012.
4. C. D. Mungmode, “Advances in Solid State Lighting Phosphors and Techniques,” in *Nat. Conf. Advances in Innovative Materials and Applications*, Umerkhed, Mah., Sept. 2013.

SEMINAR/CONFERENCE/WORKSHOPS ORGANIZED

1. Joint Organizing Secretary - 26th International Conference (CONIAPS XXVI) on “Advances in Physics” held online during 18th - 20th, December 2020 organized by Gondwana University in collaboration with International Academy of Physical Sciences, Prayagraj.
2. Organizing Secretary – Six Days Workshop on ‘Research Methodology and Computer Application in Research’ held during 25th to 30th Sept. 2015.
3. Organizing Secretary - National Conference on ‘Nanoscience and Nanotechnology’ held on 06/01 2011
4. Organizing Secretary – One Day National Workshop on ‘Intellectual Property Rights (IPR)’ held on 22nd Feb. 2019.
5. Organizing Secretary – One Day University Level Workshop on ‘Recent Advances in Ph.D. Guidelines, Paper Publication and IPR’ held on 03rd March, 2020.
6. Organizing Secretary – National e-Seminar on ‘Advances in Physical & Mathematical Science’ held on 10th October, 2020.

BOOKS PUBLISHED

Sr. No.	Title with page no.	Publisher	Year of Publication	ISSN/ ISBN No
1.	Physics B.Sc. Sem. II	Himalaya Publishing House, Mumbai	2018	978-93- 5299-034- 4
2.	Physics B.Sc. Sem. I	Himalaya Publishing House, Mumbai	2018	978-93-5299-329-1
3.	Physics B.Sc. Sem. IV	Himalaya Publishing House, Mumbai	2019	978-93-5299-761-9
4.	Physics B.Sc. Semester III	Himalaya Publishing House, Mumbai	2019	978-93-5367-630-8
5.	Synthesis and Photoluminescence in Eu^{2+} Activated Alkali/ Alkaline Earth Halides and Chlorophosphate Blue Phosphors. Edited Book - Phosphor Handbook	Woodhead Publishing Series In Electronic and Optical Materials, Elsevier Limited	Under Publication	-
6.	Mathematical Physics, Mechanics, Properties of Matter	Registrar, MP Bhoj (Open) University, Bhopal; Vikas Publishing House Pvt. Ltd., Noida	Under Publication	-
7.	Thermodynamics and Statistical Physics	Registrar, MP Bhoj (Open) University, Bhopal; Vikas Publishing House Pvt. Ltd., Noida	Under Publication	-

EXAMINATION WORK

- Worked as paper setter.
- Conducted winter – 2014 Examination as Chief Supervisor.
- Conducted winter – 2017 Examination as External Supervisor.
- Conducted winter – 2018 Examination as Joint Chief Supervisor

TRAINING COURSES ATTENDED

Sr. No.	Training Course	University/ Institution	Duration
1.	Orientation Programme	ASC, University of Pune	10 April to 7 May, 2009
2.	Refresher Course in ICT	ASC, RTM Nagpur University, Nagpur	21 Nov. to 11 Dec. 2013
3.	Workshop on Research Methodology & Computer Application in Research	M.G. College, Armori	25 – 30 September, 2015
4.	Refresher Course in Scientific Computation	HRDC, RTM Nagpur University, Nagpur	02 Dec. to 22 Dec., 2015
5.	Course on Research Methodology and Computer Application	Gondwana University, Gadchiroli	04 Nov. to 13 Nov., 2016
6.	One Week Workshop on Intellectual Property Rights	Rashtriya Uchattar Shiksha Abhiyan (RUSA) & RGNIIPM, Nagpur	21 Nov. to 25 Nov., 2016
7.	Refresher Course in Experimental Physics	UGC-HRDC, University of Hyderabad, Hyderabad	24 th Oct. to 6 th Nov., 2019
8.	One week online International Faculty Development Program on Novel Materials for Energy and Biomedical (Covid-19) Applications	Department of Science and Humanities, M. Kumarasamy College of Engineering, Karur, Tamilnadu.	11 th to 16 th May 2020
9.	One Week Pedagogical Training for Teachers on Tools for Online Teaching Learning and Evaluation	School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.	1 st July to 6 th July 2020

RESPONSIBILITIES HELD IN COLLEGE

- Member – College Development Committee (2017 – 2022)
- Co-coordinator – IQAC (2014 - 2017)
- Member – SSR Drafting Committee (NAAC Reaccreditation 3rd Cycle -2017)
- Member – IQAC (2008 – till date)
- Member - NACC Documentation Committee (2010 – 2016)
- Member – Research and Development Committee (2016 – 2019)
- Member- Admission Committee (2007 – 2008, 2008 – 2009, 2009-2010, 2010 - 2011)
- Member - UGC Committee (2010 – 2013)
- Coordinator - two career oriented courses viz. Office Automation & Maintenance of Home Appliances (2010 – 2017)
- Head - College Website Committee (2010 – 2014).
- Member – Employment & Guidance Bureau (2012 - 2014)

I hereby declare that the information provided above is authentic. I shall be responsible for incorrectness of information, if any found subsequently.

Dr. C.D. Mungmode