

FACULTY CV

- 1) **FULL NAME** : **Dr. SWATI BHAGWANRAO KALE**
- 2) **ADDRESS** : C/o. Ravikumar Borade, R.H.- A-06, The Venus Society ,Opp.M.I.T.College,Near Mahadev Temple,Beed Bypass, Aurangabad.-431005.
- 3) **E- MAIL ID** : sbkale14@gmailcom.
- 4)* **DATE OF BIRTH** : 14th August, 1980
- 5) **SEX** : Female
- 6) **MARITAL STATUS** : Married
- 7) **NAME OF HUSBAND** : Shri. Ravikumar Marotrao Borade
- 8) **NAME OF FATHER** : Shri. Bhagwanrao Asaramji Kale
- 9) **LANGUAGES KNOWN** : Marathi, Hindi, English.
- 10) **1. CASTE** : Hindu
2. SUB CASTE : Maratha
3. CATEGORY : S.E.B.C.
- 11) **EDUCATION QUALIFICATION** : M.Sc. ; Ph.D. (Physics); B.Ed.

12)* PARTICULARS OF EDUCATIONAL QUALIFICATION

Examination Passes	Name of University / Board	Year of Passing	Class / Division	% of Marks	Special Subjects
S.S.C.	Divisional Board, Aurangabad	March/ April 1996	First Division	68.40	--
H.S.C.	Divisional Board, Aurangabad	March - 1999	First Division	60.33	Physics, Chemistry Biology
B.Sc.	S.R.T.M. University, Nanded	March/ April 2002	First Division	65.00	Physics, Electronics, Comp. Science

M.Sc. Physics	S.R.T.M. University, Nanded	April / May 2004	First Division with Distinction	74.92	1. Nuclear and Particle Physics, 2. Renewable Energy Technology & Astrophysics 3. Microwave and Optoelectronics, Optical Fiber Communication
B.Ed.	S.R.T.M. University, Nanded	April / May 2005	First Division	60.00	Science Method
Ph.D.	Dr. B.A.M. University, Aurangabad	Notification date 19 July, 2018	----	----	Title of thesis “Investigation of the Physical, Electrical and Magnetic Properties of Some Spinel Ferrite Nanoparticles Synthesized Via- Nonconventional Method”

**13)* TEACHING
EXPERIENCE
(Total Teaching Experience
13 Year and 8 Months)**

- :
1. Worked as Lecturer in Physics (Applied Science) at G.S. Mandal's Marathwada Institute of Technology Aurangabad, on Ad-hoc basis since 17th July, 2006 to 18th June, 2011.
 2. Working as Lecturer in Physics at Government Polytechnic, Aurangabad (Selected through M.P.S.C.), from 05th January, 2012 to till date.

- 14)* **Research Degree (Ph.D.)** : Awarded Ph.D. Degree entitled “Investigation of the Physical, Electrical and Magnetic Properties of Some Spinel Ferrite Nanoparticles Synthesized Via-Nonconventional Method” in subject Physics under the guidance of Dr. K. M. Jadhav, Professor, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (Date of Notification 19 July, 2018)
- 15)* **SEMINAR /
CONFERENCES /
WORKSHOP** :
1. Presented Research Paper entitled “Enhancement in Surface Area and Magnetization of CoFe_2O_4 Nanoparticles for Targeted Drug Delivery Applications” in International Conference on Condense Matter Physics (ICC 2017), Organized by Govt. Engineering College, Bikaner during November 24, 25 2017.
- Participated in the National Conference on Current Trends In Material Research for Advanced Technology (NCMRAT - 2007) during 29th to 31st January 2007 held at Department of Physics, Dr.B.A.M. University, Aurangabad.
3. Participated in the 67th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes, sponsored by Board of Research in Nuclear Sciences, DAE, During 11th to 18th August, 2008, held at Department of Physics, Dr. B.A.M. University, Aurangabad.
 4. Participated in the workshop on Micro-Controller & Fiber Optics on the date 27th September 2003 held at Shri.Shivaji College, Parbhani

- 16)* STAFF DEVELOPMENT PROGRAMME** :
- 1 Successfully completed the Staff Development Program “Induction Porgramme Phase-I”, Organized by –MHRD-NITTTR ,Bhopal, during 21st May to 1st June,2012 at M.I.T., Aurangabad.
 - 2 Successfully completed the Staff Development Program “Induction Porgramme Phase-II”, Organized by –MHRD-NITTTR, Bhopal, during 17th September to 29th September,2012 at Government Polytechnic, Aurangabad.
 - 3 Successfully completed six week “Fundamental Training progamme Phase –I, II and III” under Maharashtra State Training Policy 2011 ,Organized by –Government of Maharashtra, during 16 December 2013 to 25 January ,2014 at Yashwantrao Chavan Academy of Developmnet Administration (YASHADA), Rajbhavan Campus, Baner Road, Pune.
 - 4 Successfully completed One Week State Level Training Programme On “WOMEN EMPOWERMENT FOR TECHNICAL TEACHERS” during 18/12/2017 TO22/12.2017 Sponsored by Directorate of Technical Education, Maharashtra State, Organized by Women Empowerment Cell, Government Polytechnic, Mumbai.
 - 5 Successfully completed One Week TEQIP-SHORT TERM TRAINING PROGRAMME ON “Quantum GIS & QSWAT applications in Water Resources Engineering” during 3 – 7 March, 2018 Sponsored by TEQIP Phase III ,Organized by Department of Civil Engineering ,Government College of Engineering, Aurangabad.

- 6 Successfully completed Training Programme on “Personality Development” during 12 and 13 January, 2016, Sponsored by Directorate of Technical Education, Maharashtra State, Organized by Government Polytechnic, Aurangabad
- 7 Successfully completed One Week AICTE RECOGNIZED SHORT TERM TRAINING PROGRAMME ON “Classroom Communication through ICT” conducted by Educational Management Department, Government Polytechnic, Aurangabad during 28/05/2018 to 01/06/2018 .
- 8 Successfully completed One Week TEQIP-Short Term Training Programme On “Electromagnetic Transient Analysis Using EMTP-RV” during 13 – 23 January , 2019 Sponsored by TEQIP Phase III ,Organized by Department of Electrical Engineering ,Government College of Engineering, Aurangabad.

17)* PROJECT WORK CARRIED OUT :

Completed a project work entitle "Moving Display using Microprocessor," in fulfillment of degree course in Master of Science in Physics.

18)* DST-INSPIRE FELLOW / AWARD :

Awarded by a **CERTIFICATE OF MERIT** For Passing M.Sc. Physics Examination April / May-2004, **First Class with distinction and stood First Rank in order of merit** among the successful candidates in S. R. T. Marathwada University, Nanded. (www.inspire-dst.gov.in)

19)* CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES :

Passed MS-CIT examination conducted by Maharashtra State Board of Technical Education held in December 2004.

WORK DONE IN THE AREA OF TECHNICAL EDUCATION:

- Worked as subject expert for Interviews for post of lecturer in MGM polytechnic Aurangabad Region at DTE level.
- Worked as member of the Course Curriculum Development committee for revision of Curriculum.
- Many times worked as Chairman/ member of internal monitoring committee formed by Institute level

- Worked as member of the committee for “Outcome based Curriculum” for Physics
- Worked as coordinator of Dental mechanics certificate course run under MOU with G.P.Aurangabad
- Worked as Warden of Girl Hostel at G.P.Aurangabad
- Worked as member of internal institute squad for winter/summer 2019-20 Examination.
- Worked as member of Distribution Center-019 for summer 2015 Exam.
- Worked as Guest/Visiting Lect.for physics in “Yamaha Training Center” “Paramedical “and “Comminute Polytechnic”.
- Worked as co-coordinator for girls sport for G.P.Aurangabad.

PROJECT GUIDANCE:

Micro Project guidance for I Year Students in I and II semester at G.P.Aurangabd.

WORK DONE AT ORGANIZATIONAL LEVEL:

- Many times acted as Document verification committee member of diploma I Year and pharmacy admission committee.
- Many times **acted** as Controller for other institute in MSBTE for winter/summer Examination.
- Worked as moderator, assessor and paper setter in LAC and RAC for G.P.Aurangabad
- Worked as coordinator of prize distribution committee in college gathering 2019
- Worked as member in library verification committee

WORK DONE FOR SOCIETY:

- Active participation in tree plantation with staff and students, within campus of G. P. Aurangabad.
- Worked as supervisor for several MPSC/UPSC examinations.
- Worked as Polling Officer for General Parliamentary Election 2014 for Aurangabad. (April –May 2014)

20)* Research Publications:

- 1) Effect of propionic acid as a chelating agent on the synthesis and structural investigations of cobalt ferrite nanoparticles; **Swati B. Kale**, Pallavi B. Nalle, Pankaj P. Khirade, V. D. Murumkar, K. M. Jadhav, *International Journal of Advanced Research In Basic and Applied Science vol.3 Iss.1. (July-2016), 35-38.*
- 2) Mechanochemical synthesis of Benzimidazoles using sulphated tin oxide as recyclable catalyst; Ravikumar M. Borade, Pavan R. Shinde, **Swati B. Kale**, Rajendra P. Pawar, *International Journal of Advanced Research In Basic and Applied Science vol.3 Iss.1. (July-2016), 45-50.*
- 3) Enhancement in Surface Area and Magnetization of CoFe₂O₄ Nanoparticles

for Targeted Drug Delivery Applications, **Swati B. Kale**, Sandeep B. Somvanshi, M. N. Sarnaik, S. D. More, S. J. Shukla, K. M. Jadhav, *AIP Conference Proceedings* **1953**, 030193 (2018); doi: 10.1063/1.5032528.

- 4) Preparation, Characterization and Catalytic Application of CoFe_2O_4 nanoparticles in the Synthesis of Benzimidazoles, Ravikumar M. Borade, Pavan R. Shinde, **Swati B. Kale**, Rajendra P. Pawar, *AIP Conference Proceedings* **1953**, 030194 (2018); doi: 10.1063/1.5032529
- 5) Effect of Zinc Substitution on Structural and Infrared Properties of Spinel Cobalt Ferrite Nanoparticles, **Swati B. Kale**, Mahesh K. Babrekar, Dilip R. Sapate, K. M. Jadhav, *International Journal of Research Culture Society*, Vol. 2(3), 2018,51-54. ISSN: 2456-6683.
- 6) Sol-gel synthesis, Structural and Infrared Properties of Zinc substituted $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ($x = 0.2, 0.6$ and 1.0) Nanoparticles; **Swati B. Kale**, Mahesh K. Babrekar, Dilip R. Sapate, K. M. Jadhav, *International Journal of Chemical and Physical Sciences*, Vol. 7, No. 2, 2018, 97-102 (ISSN 2319-6602).
- 7) Cu^{2+} substituted NiFe_2O_4 thin films via spray pyrolysis technique and their high-frequency devices application; Apparao R. Chavan, Jitendra S. Kounsalye, Rahul R. Chilwar, **Swati B. Kale**, K.M. Jadhav; *Journal of Alloys and Compounds*, Vol. 769, 2018, 1132-1145. <https://doi.org/10.1016/j.jallcom.2018.08.061>
- 8) Magnetic and Mössbauer Investigations of Mg^{2+} Substituted Nanocrystalline Cobalt Ferrite; **Swati B. Kale**, Ashok v. Humbe, Ravikumar M. Borade, Arun Kumar, Mahavir Singh, K. M. Jadhav, *Journal of Materials Science, Springer (Communicated)*.

Place Aurangabad

Date : 26/12/2019

Yours Faithfully,

[Dr.Swati Bhagwanrao Kale]

Lecturer in physics

G.P. Aurangabad

9405525854

sbkale14@gmail.com