



Mrs. Madhura Mahesh Karale
(Nee Name: Ms. Sandhya Shamrao Pargaonkar)

Ph.D. Scholar (Pharmaceutical sciences),
Jaipur National University.

M. Pharm. (Pharmaceutics)
Yashoda Technical Campus,
Faculty of M. Pharmacy,
Wade,
Satara
Maharashtra
India

B. Pharm,
Govt. College of Pharmacy, Karad, India.

Permanent Address

1401, Mangium M-2 Adhiraj Garden,
Sector-5, Kharghar,
Navi Mumbai - 410210.

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Personal Data

Father's Name: Mr. Shamrao Pargaonkar.
Mother's Name: Smt. Shashikala Pargaonkar
Husband's Name: Mr. Mahesh S. Karale
Date of Birth :02th Nov. 1978
Marital Status: Married

Hobbies & Interests

- Travelling
- Listening Music
- Reading holy books.
- Research

Languages Known

- Marathi
- English
- Hindi

OBJECTIVE

Seeking a challenging career as teacher in a professionally managed institute where I can effectively contribute my skills and knowledge and be a part of the committed and dedicated team that works towards achieving organizational goals.

STRENGTHS

- ❖ Technically Sound.
- ❖ Willing to take responsibility.
- ❖ Good communication skill.
- ❖ Comprehensive problem-solving abilities.
- ❖ Focus and achieve target in given time span.
- ❖ Active involvement and participation as a Team Member.
- ❖ Share and gain knowledge in easy ways.
- ❖ Willingness to learn new technology.
- ❖ Sincere hard worker.
- ❖ Punctual and responsible.
- ❖ Total 16.9 years' experience: 15 years teaching, 2.9 years other.

PROFESSIONAL EXPERIENCES

- ❖ **Bharati Institute of Pharmacy (Poly),**
- ❖ 8, YMCA Marg, Sector 3A, CBD Belapur,
Navi Mumbai, Maharashtra 400614.
- ❖ Designation: Assistant Professor.
- ❖ Duration: January 2021 to till date.
- ❖ **Ideal College of Pharmacy, Bhal, Kalyan, N.S.S. College of Pharmacy, Tardeo, Mumbai, N.C.R.D.'s Institute of Pharmacy, Nerul, Mumbai, S. D. Patil Institute of Pharmacy, Islampur, Sangali.**
- ❖ Designation: Lecturer.
- ❖ **Total Experience: 17.9 years.**
- ❖ **Academics: 15 years.**
- ❖ **Mrecord Healthcare Solutions, Lower Parel, Mumbai.**
- ❖ Designation: Medical Transcriptionist.
- ❖ **Total Experience: 1.8 years.**
- ❖ Apollo Hospitals Enterprise Limited, Mumbai.
- ❖ Designation: Pharmacist.
- ❖ **Total Experience: 1.1 years.**

PROFESSIONAL QUALIFICATIONS

- ❖ **Ph.D. Scholar in Pharmaceutical sciences** (Jaipur National University).
- ❖ **M. Pharmacy (Pharmaceutics) with first class with distinction 2016.**
(Yashoda Technical Campus, Satara. Faculty of M. Pharm)
- ❖ **B. Pharmacy with first class 2000.**
(Government College of Pharmacy, Karad).

JOB RESPONSIBILITIES - Teaching

- ❖ **Academic year: 2024-25:**
- ❖ In charge Biochemistry & Clinical Pathology Laboratory and Human Anatomy & Physiology Laboratory.
- ❖ Arrangement of analytical & pathological lab visit.
- ❖ Arrangement of industry expert lectures.
- ❖ Arrangement of entrepreneurship development lectures.
- ❖ In charge of Sessional Examination,
- ❖ In charge of Improvement Sessional Examination,
- ❖ Preparation & maintenance of M.S.B.T.E. Practical Examination documents.
- ❖ Maintenance of remedial coaching classes documents.
- ❖ Faculty Co-ordinator Green Club, Unicef, Thane-Raigad region.
- ❖ Maintenance of Governing Body Meeting register.
- ❖ Additional In charge in RAC,
- ❖ Maintenance of Alumni meet record.
- ❖ Subject expert in preparing Model answer paper MSBTE.
- ❖ Subject expert in MSBTE Model answer paper preparation.
- ❖ **Academic year: 2023-24:**
- ❖ In charge Biochemistry & Clinical Pathology Laboratory and Human Anatomy & Physiology Laboratory.
- ❖ Arrangement of analytical & pathological lab visit.
- ❖ Arrangement of industry expert lectures.
- ❖ Arrangement of entrepreneurship development lectures.
- ❖ In charge of Sessional Examination,
- ❖ In charge of Improvement Sessional Examination,
- ❖ Preparation & maintenance of M.S.B.T.E. Practical Examination documents.
- ❖ Maintenance of remedial coaching classes documents.
- ❖ Faculty Co-ordinator Green Club, Unicef, Thane-Raigad region.
- ❖ Maintenance of Governing Body Meeting register.
- ❖ Additional In charge in RAC,
- ❖ Maintenance of Alumni meet record.
- ❖ Subject expert in preparing Model answer paper MSBTE.

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- ❖ Subject expert in MSBTE Model answer paper preparation.
 - Academic Year: 2022-23**
 - ❖ In charge cultural activities.
 - ❖ Organization of technical quiz/Paper/Poster Presentation.
 - ❖ In charge, Celebration of Internal College Days.,
 - ❖ Maintenance of anti-ragging cell record.
 - ❖ Maintenance of women grievance cell record.
 - ❖ Maintenance of Student's grievance cell record
 - ❖ Maintenance of staff meeting register.
 - ❖ Maintenance of Exit exam record.
 - ❖ Participation of students in quiz/paper & poster presentation competitions
 - ❖ Paper setter in MSBTE Exam.
 - ❖ Arrangement of Alumni meet.
 - ❖ Magazine In-charge.
 - ❖ Examination documentation of Annual Practical Exam.
 - ❖ Worked as External Examiner for Annual Practical Exam. MSBTE.

- ❖ **Research interest:** Development and characterization of polymeric Hydrogel films for drug delivery.
- ❖ **Area of Specialization:** Pharmaceutical sciences.
- ❖ **Total Publications:** Total 10
 International: Research articles- 02.
 National: Review articles-05.
Patent: 02
Book: 01
Paper presented in Conference: 02
- ❖ **Co-ordinator:**
- ❖ Worked as Additional Officer-In charge at Regional Assessment Centre under M.S.B.T.E. Summer 2023 and Winter 2023.
- ❖ Worked as Examination Officer In-charge for 'Summer-2017 Exam.' under M.S.B.T.E.
- ❖ Worked as Officer In-charge and Additional Officer In-charge in Regional Assessment Centre under M.S.B.T.E.
- ❖ Worked as Controller of Examination under M.S.B.T.E.
- ❖ Worked as Assessor, Moderator, Paper setter, Model answer paper setter under M.S.B.T.E.
- ❖ **Industry expert guest lectures:**
 - ❖ Attended an expert talk on "Repurposing of drugs and polymer considerations for ocular applications" organized by Jaipur National University dated on 08th April 2025.
 - ❖ Attended an expert talk on "Introduction to computer aided drug design: Basics & applications" organized by School of pharmaceutical research, Jaipur National University, Rajasthan and IQAC dated on 04th April 2025.
 - ❖ Attended Skill Development Workshop on "Investigating the effects of luteolin on polycystic ovary syndrome using an animal model" by Dr Azimova Bahtigul, Scientist and Head of Department, Tashkent Pharmaceutical Institute, Tashkent, Uzbekistan on 26.03.2025.
 - ❖ Attended the FDP on - "How to Make Research Proposal for Govt. Institutions and Other Funding Agencies" held on 10th 15th June 2023 organized by Bharati Vidyapeeth Deemed University, Institute of Management & Research, New Delhi.
 - ❖ Participated in the webinar entitled "Antiviral and Anticancer activities of biological compounds from natural resources" conducted jointly by Global Biomedical Research Foundation, Chennai and Kairos Kinetic (OPC) Private Limited, Chennai on behalf of Dr. Sree Academy on 16th February 2023.
 - ❖ Participated as delegate in Orientation program on "START-UP & INSTITUTIONAL INCUBATION CENTRE" held on 27th August, 2022 at BHARATI VIDYAPEETH'S COLLEGE OF PHARMACY Sector-8, CBD Belapur, Navi Mumbai-400614 in association with Institution's Innovation Council, Ministry of HRD Initiative.
 - ❖ Participated in IP Awareness/Training program under on August 26, 2022 organized by Intellectual Property Rights, India.
 - ❖ Participated as delegate in 2 Days Faculty Development Program on "Orientation on S.Y.D. PHARMACY Syllabi based on ER-2020" Organized in Online Mode by D Y Patil Deemed to be University School of Pharmacy, Navi Mumbai, Maharashtra, India in collaboration with Indian Pharmaceutical Association Community Pharmacy Division & Western Regional Centre-Association of Community Pharmacists of India held on 11th and 12th August 2022.
 - ❖ Enthusiastic participation in the Virtual Talk on topic "Empowering Educator in Teaching Social Pharmacy as per ER-2020" organized by Western Regional Centre of Association of Community Pharmacists of India in collaboration with Indian Pharmaceutical Association - Community Pharmacy Division on Saturday, 29th January 2022.
 - ❖ FDP Patents India Global Perspectives Special Reference to Academic Institutions dated on 18-11-2021 organized by Bharati Vidyapeeth Institute of Management Studies and Research, CBD

Belapur Navi Mumbai.

- ❖ Online Short-Term Training Program Phase III on Hands on Training on Cell and Tissue Culture Based Bioactivity Assessment dated on 04-10-2021 to 09-10-2021, organized by IQAC Bharati Vidyapeeth College of Pharmacy, Kolhapur MS.
- ❖ Attended AICTE, New Delhi sponsored One Week Online STTP on "Educational Program for Pharmacy Teachers on Orientation of Recently Admitted Students" from 09 to 14 August 2021.
- ❖ Attended Three days e-Faculty Development Programme on 'Patenting in Pharmaceuticals' from 15th to 17th July 2021 organized by NCRD's Sterling Institute of Pharmacy, Nerul, Navi Mumbai in association with Intellectual Property Talent Search Examination.
- ❖ EFDP on Pandemic in Pharmaceuticals dated on 15-07-2021 to 17-07-2021 organized by NCRD College of Pharmacy, Nerul Navi Mumbai.
- ❖ Health and Stress Management Post Pandemic webinar dated on 21-06-2021 to 21-06-2021 organized by Bharati Vidyapeeth Institute and College of Pharmacy CBD Belapur Navi Mumbai.
- ❖ Attended an International Webinar on Liver Health on Occasion of World Liver Day, dated on 9-04-2021 to 19-04-2021 held at G. H. Raisoni University National Service Scheme Saikheda Madhya Pradesh.
- ❖ FDP Emerging Trends in Pharmaceutical Research, dated on 20-02-2021 to 15-05-2021 held at DY Patil Institute of Pharmaceutical Sciences and Research, Pimpri Pune.
- ❖ A Six days FDP Innovative Pedagogical Techniques for Teaching Learning on 10-02-2021 to 16-02-2021 was organized by Dhote Bandhu Science College, Gondia.
- ❖ Three days industrial training at '**Bluecross, Nashik**' dated on October 2016 successfully completed.
- ❖ Two days training programme on "**Patenting System in India**" dated on 17th to 18th June 2008 has successfully completed, organized by '**National Institute for Intellectual Property Management**', **Nagpur** under Government of India.
- ❖ Three days training programme on "**Positive Attitude & Self-Motivation**" dated on 8th to 10th February 2010 has successfully completed, organized by '**National Institute of Technical Teachers Training & Research**', **Bhopal** under Government of India.
- ❖ Three days' workshop on "**Effective Teaching and Lesson Planning**" dated on 1st to 3rd September 2010 has successfully completed, organized by '**Government Polytechnic, Miraj**' under A.I.C.T.
- ❖ One day seminar on "**Perspectives in clinical Research**" dated on 4th February 2012 has attended, organized by '**Mumbai Educational Trust's Institute of Pharmacy, Bandra, Mumbai**'.
- ❖ A 1.5 months practical training has completed in '**Waison Pharmaceuticals, Kolhapur**' dated on 17th August 2000 to 17th September 2000.
- ❖ **Papers Published:**
 1. **Sandhya Shamrao Pargaonkar** (Madhura M. Karale), Vishwajeet Sampatrao Ghorpade, Kailas Krishnat Mali, Remeth Jacy Dias, Vijay Daultrao Havaldar, Vilasrao Jagganath Kadam: **Hydrogel Films of Citric Acid Cross-linked Hydroxypropyl Methylcellulose/Methylcellulose for Hydrophilic Drug Delivery**: Ind.J.Pharm.Edu.Res.,2023, 57(3):718-727.

2. Savita Satpute, **Sandhya Pargaonkar** (Madhura M. Karale), Jeevan Deshmukh, Rupali Aldar: **Review on Michelia Champaca**, GIS Science Journal, **2023**, 10 (5), 1099-1107.
3. Savita Satpute, Pallavi Kambale, Swapnali S. Patil, **Sandhya Pargaonkar** (Madhura M. Karale), Jeewan Deshmukh, Snehal Mane: **Ficus Racemosa linn (Umber): An Overview**, GIS Science Journal, **2023**, 10(5), 1108-1116.
4. REVIEW ARTICLE, PHARMACY: AN ULTIMATE SOLUTION FOR YOUR HEALTH, **Madhura M. Karale**^{1*}, Nirmal M. Kasekar¹, Aniket Ananda Bhosale¹, Ashwini Kaluram Dagadel, Vilasrao J. Kadam¹ ¹Bharati Vidyapeeth Institute of Pharmacy, C.B.D. Belapur, Navi Mumbai, Maharashtra-400614, Pharmaceutical Resonance 2022 Vol. 4 - Issue 2.
5. PATIL HC, POL SL*, KADAM VJ, KASEKAR NM AND KARALE MM, Phytochemistry: Recent Trends and Application International Journal of Biology, Pharmacy and Allied Sciences, August, 2021, 10(8): 2805-2817
6. Vishwajeet Sampatrao Ghorpadea, *, Adhikrao Vyankatrao Yadavb, Remeth Jacky Diasc, Kailas Krishnat Malia, Sandhya Shamrao Pargaonkar, Pooja Vikram Shindea, Nikhil Sampat Dhanea, **Citric acid crosslinked carboxymethylcellulose-poly (ethylene glycol) hydrogel films for delivery of poorly soluble drugs**, International Journal of Biological Macromolecules, xxx (2018) xxx-xxx, <https://doi.org/10.1016/j.ijbiomac.2018.06.142> 0141-8130/ © 2018.
7. A patent filed, Application No.202421067021 A (19) INDIA, dated on 4th September 2024, and published dated on 11th October 2024, titled **“ANTI-TUBERCULAR HERBAL COMPOSITION OF COLOCASIA ESCULENTA THEREOF”**.
8. UK Design Patent design number 6436012, filed dated on 09th April 2025, and granted dated on 22th April 2025, and published dated on 23rd April 2025, titled **“Apparatus for Developing Thin Film Forming Topical Hydrogel Membrane for Diabetic Foot Ulcer”**. <https://www.registered-design.service.gov.uk/find/>.
9. A book is published for the subject **“Human Anatomy & Physiology”** for First Year D. Pharm students as per PCI, ER2020, dated on June 2024.
10. A review paper on: **“Diabetic Foot Ulcer and Hydrogel-Based Advanced Drug Delivery System”** is presented in the 12th world conference on pharmaceutical science and drug manufacturing organized by Association of Pharmaceutical Research (APR) in association with Sri Adichunchanagiri University, Karnataka, India on 19th and 20th September 2024.

❖ **Technical Skills:**

• **Instruments:**

• **Key Knowledge**

- Handling of UV, Dissolution Apparatus, ATR-FTIR, Probe sonicator, Fluidized tray drier, Rotary shaker, Hot air oven, Autoclave, Desiccator, Mechanical stirrer, Magnetic stirrer, Centrifuge Machine, Soxhlet apparatus, Hardness tester, Tablet compression machine, Laminar air hood, Micropipette, compound microscope etc.
- Familiar with Motic Microscope, disintegration apparatus, Tablet coating machine, stability chamber etc.

❖ **Research specialization at Post Graduation (M. Pharm):**

Project Title:

“Development of cellulose-based hydrogels for controlled delivery of Antimicrobial agent.”

❖ **Research specialization at Ph.D.:**

Project Title:

“Development and characterization of crosslinked basil seed mucilage hydrogel for the treatment of diabetic foot ulcer”.

Date: 17/07/2025.

Place: Navi Mumbai.

(Mrs. Madhura M. Karale).