FACULTY ACADEMIC PROFILE

Assessment Period: 2019-20 to 2025-26

1. Personal & Faculty Information



- **Name:** DR. SHABANA BI ABDUL REHMAN KHATIK
- **Designation:** Associate Professor
- **Department:** Department of Physics
- **Institution:** H. J. Thim College of Arts and Science, Mehrun, Jalgaon
- **Email ID:** shabnam20oct@rediffmail.com
- **Photograph:**

2. Educational Qualifications

Degree	Specialization / Subjects	University / Board	Year of Award
B.Sc.	Physics	NMU, Jalgaon	2004
M.Sc.	Physics	NMU, Jalgaon	2006
M.Phil.	Physics	NMU, Jalgaon	2009
Ph.D.	Physics	KBCNMU, Jalgaon	2019

3. Research Interests

- Microwave Frequencies
- Dielectric Constant Measurement of Wood at Microwave Frequencies.
- Study of Dielectric, Emissive and Scattering Properties of Leaves of Different Tree Species at Microwave Frequencies.

4. Publications (2019-20 to 2025-26)

S.No.	Title of the Paper	Journal Name	ISSN / Impact Factor	Year
1	Dielectric and Emissive Properties of Emblica officinalis and Tectona grandis Tree Leaves at 4.1GHz Frequency	Journal of Research and Development, Jan.2020, 10(2), 37-39.	ISSN: 2230-95789 4.270 Peer Reviewed	2020
2	Role of social media	B. Adhar Multidisciplinary International Research Journal, Feb.202l, CCXLIV (274), 53-55.	ISSN-2278-9378 7.675 Peer Reviewed	202l
3	Dielectric Properties and Emissivity Estimation for Eucalyptus Citriodora Tree Leaves at X-Band Microwave Frequencies	International Journal of Advanced and Applied Research, Nov-Dec 2023, Vol. 4(42), 53-56.	ISSN: 2347-7075 7.328 Peer Reviewed	2023
4	Review on Dielectric, Emissive and scattering Properties of Vegetation at various Band of Microwave Frequencies	Platinum A Peer Reviewed Multidisciplinary Journal, Jan.2025, Vol. 15(2), 65-69	ISSN: 2231-0096 5.35 Peer Reviewed	2025
5	Correlation of Complex Dielectric Constant of Tree Leaves With their Chemical Properties at C-Band Frequency	Vidyawarta Peer Reviewed International Journal, Jan.2025, Vol. 14(53), 41-44	ISSN: 2319-9318 9.45 Peer Reviewed	2025
6	Dielectric-Based Estimation of Scattering Behavior of Azadirachta indica Tree Leaves at C-Band Frequencies	Akshara Multidisciplinary Research Journal Peer Reviewed and Refereed International Research Journal, Jan.2025, Vol.III(23), 83-86.	E-ISSN-2582-5429 6.86 Peer Reviewed	2025
7	Renewable Energy Sources: Technological Challenges and Future Prospects	Akshardhara Research Journal single Blind Peer Reviewed and Refereed International Research Journal, Jan Aplril.2026 Vol.II(A)-(03),102-104.	E ISSN-3048-8095 5.16 Peer Reviewed	2026

5. Books & Book Chapters Published

S.No.	Title of the Book / Chapter	Publisher	ISBN	Year	Status (Book/Chapter)
1	PH 217: Space Technology & Applications(India) KBCNMU Physics S.Y.B.Sc. Semester-III(NEP-2020)	Prime publication House (2025)	ISBN 978-93-7344-831-2	(2025)	Completed

6. Research Projects Undertaken: - Nil

7. Conferences, Seminars & FDPs

S.No.	Title of the Event / Program	Role	Level	Date & Duration
1	National Seminar - [National Education Policy-2019] Akhil Bharatiya Rashtriya Shaikshik Mahasangh,N-MUKTA,KBC NMU,Jalgaon,	Participation	National	26/06/2019
2	Faculty Development Program *MOOC 's course* SWAYAM NPTEL-AICTE Online Course Certification	Participation	National	4 week: (Jul-Aug.2019)
3	Faculty Development Program (Advanced Materials and Processes)	Participation	National	12 week : (Jul-Oct.2019)
4	Faculty Development Program (Physics of Materials)	Participation	National	12 week : (Jul-Oct.2019)
5	Refresher Course	Participation	National	16/12/2019 to 28/12/2019
6	National Conference on 'Innovative Ideas in Chemical Science and Environmental Sciences'	Participation	National	21/01/2020
7	Refresher Course (Online)	Participation	National	16 Week: Completed on 16th Feb. 2020

8	National Conference on 'Nanostructure and Amorphous Materials: Synthesis, Characterization and Application'	Participation	National	28/02/2020 and 29/02/2020
9	National webinar-[Empowering teacher with Moodle LMS, KBCNMU, Jalgaon and R.S.S.P.M Ltd sanchalit Nananasaheb Y N chavan Arts, Science & commerce College, chalisgaon. Dist. Jalgaon.]	Participation	National	11/05/2020
10	International Seminar series on Nanotechnology for Environment and Sustainability	Participation	International	12/01/2021 and 13/01/2021
11	National conference on" Impact of COVID-19 on Higher Education"	Participation	National	28/01/2021
12	Faculty Development Program (Online)	Participation	National	10/05/21 to 18/05/21
13	National Symposium on "Nano Science and Nano Technology"	Participation	National	31/01/2021
14	National conference on "New Perspectives and Opportunities in Physics(NCNPOP-2021)"	Participation	National	13/10/2021
15	Faculty Development Program (Online)	Participation	National	13/01/22 to 19/01/22
16	NSS workshop Art's, Science and commerce college ,Dharangaon	Participation	University	24/02/2022
17	International conference on" Recent Trends in Humanities, Commerce and Management and Science and Technology"	Participation	International	09/04/2022
18	One Day Syllabus Restructuring of F.Y.B.Sc. Physics. Sem. I & II (CBCS Pattern	Participation	University	11/04/2022
19	National seminar on "Sustainable Development goals and Their Implementation in India"	Participation	National	30/11/2022
20	Atmanirbhar Yuvati Abhiyan	Coordinator	College	30/01/2023 to 04/02/2023

21	International seminar on “Innovation and Technology for Gender Equality”	Participation	International	08/03/2023
22	International E- conference on “Science, Technology and Society:A Global Perspective(IESTSGP-2023)”	Participation	International	28/12/2023.
23	National E-seminar on “Intellectual Property Rights”	Participation	National	08/02/2024
24	Mishan Sahasi Abhiyan	Organizer	College	13-02-24 to 17-02-24
25	International E- conference on“ Recent Trends in Materials Science(ICRTMS-2024)”	Participation	International	27/02/2024
26	One Day Syllabus Restructuring Workshop on S.Y.B.Sc. Physics Sem-III & IV (NEP-2020)	Participation	University	27/12/2024
27	*one day State Level Conference on “Recent Advances in Chemical, Biological and Environmental Sciences”*	Organizer	State	18/01/ 2025
28	*National multidisciplinary conference on “Indian knowledge system for sustainable development”*	Participation	National	31/01/2025
29	Refresher Course (Online)	Participation	National	17/03/25 to 29/03/25
30	One Day Workshop on Inauguration of “Physics Society”	Participation	University	10/02/2026
31	One Day National e-conference on “IPR Patents and Design Filing”	Participation	National	5/03/2026
32	One Day Multidisciplinary National level e-conference on “ Environmental Imprints: Representation of Nature Across Disciplines”	Participation	National	12/03/2026

8. Awards, Honors & Professional Memberships

Awards & Recognitions

S.No.	Name of the Award / Honor	Awarding Agency / Body	Year
1	National Excellence Teacher Award	Janki Narayan Foundation Dhule	2026
2	B.O.S. member in Physics	Dr. A. G. D. Bendale Mahila Mahavidyalaya Jalgaon	2024

Professional Institutional Responsibilities & Memberships

• N.S.S. Ladies Progamme Officer, Yuvati Sabha, Coordinator, Member of Cultural Committee, Student welfare Ladies Assistant Program Officer, Member of Science Association, H. J. Thim College.

09. Digital Research Identifiers: Nil

10. Research Guidance & Collaborations

Research Guidance: - Nil

Academic Collaborations:- Nil