

**Rayat Shikshan Sanstha's**  
**R. B. Narayanrao Borawake College, Shirrampur, Dist. Ahmednagar**

**Format for preparing the faculty profile**

(Provide the information for last five years from 2012-13 to 2020-21)

- 1.Name of the faculty: **Dr. Jadhav P. S.**
- 2.Name of the Department: **Physics**
- 3.Educational qualifications: **M.Sc. Ph.D.**
- 4.Present position: **Asst. Professor**
- 5.Address for correspondence: **12 B, Patilwada, Godoli, Satara.**
6. E-mail and contact number: [jadhavpragati09@gmail.com](mailto:jadhavpragati09@gmail.com) **Mob:8483878779**
- 7.Specialization: **Material Science**
- 8.Total teaching experience: **3 Years**
- 9.Courses taught: **Physics**
- 10.Research experience: **Nil**
- 11.Major research projects completed:

Sr. No.	Title of the project	Date of sanction and duration	Grant received	Funding agency	PI or Co-PI
1	Nil	Nil	Nil	Nil	Nil

- 12.Minor research projects completed:

Sr. No.	Title of the project	Date of sanction and duration	Grant received	Funding agency	PI or Co-PI
1	Nil	Nil	Nil	Nil	Nil

- 13.Number of students awarded M. Phil/Ph.D. degree:

Sr. No.	Name of the student	Topic of research	Date of registration	Date of declaration of Ph.D. degree
1	Nil	Nil	Nil	Nil

Number of students registered for Ph.D. degree: Sr. No.	Name of the student	Topic of research	Date of registration
1	Nil	Nil	Nil

14. Participation in conferences, symposia, seminars and workshops: International, national, state or university level, attended. Presented paper, chaired session. Resource person

Sr. No	Name of Conference/ Seminar etc.	Organized by	Dates and Year	National/ International/ State/ University level	Attended/ Paper presented/ Chaired session/Resource person etc.
01	International Conference on Multifunctional and Hybrid Materials for Energy and Environment	Yashawantrao Chavan Institute of Science, Satara	2020	International	Paper presented
02	International Conference on Chemistry, Environment and Energy	Yashawantrao Chavan Institute of Science, Satara	2019	International	Paper presented
03	International Conference on Materials Science and Ionizing Radiation Safety & Awareness	Department of Physics, Shivaji University, Kolhapur	2016	International	Paper presented
04	Conference on Neutron Scattering	BARC, Mumbai	2015	International	Paper presented
05	International Conference on Physics of Materials and Material Based Device Fabrication	Department of Physics, Shivaji University, Kolhapur	2014	International	Paper presented
06	International Conference on Magnetic Materials and Applications	Department of Physics, Pondicherry University, Pondicherry	2014	International	Paper presented

07	National conference on Materials for Future Technology	Department of Physics, Rajaram College, Kolhapur	2014	National	Paper presented
08	National seminar on Physics of Materials and Materials Based Device Fabrication	Department of Physics, Shivaji University, Kolhapur	2013	National	Paper presented
09	Materials Research Society of India	Indira Gandhi Centre for Atomic Research, Kalpakkam.	2013	International	Paper presented
10	Recent Developments and Measurement Techniques in Astronomy and Astrophysics	Dept. of Physics, Shahajiraje Mahavidyalaya Khatav, Maharashtra	2013	National	Paper presented
11	International Conference on Physics of Materials and Materials Based Device Fabrication	Department of Physics, Shivaji University, Kolhapur	2012	International	Paper presented
12	International Symposium on Macro and Supramolecular Architecture and Materials (Coimbatore)	R. S. Rangaswami College of Technology, Tiruchengode, Tamilnadu	2012	International	Paper presented
13	National Seminar on Physics of Materials and Material Based Device Fabrication	Department of Physics, Shivaji University, Kolhapur	2011	National	Paper presented
14	International Confernce on Nanoscience and Nanotechnology	School of Physics, SRTMU, Nanded	2011	International	Paper presented

15	National Seminar on Advanced Materials	Department of Physics, Shivaji University, Kolhapur	2010	National	Paper presented
16	Department of Atomic Energy-Solid State Physics Symposium	Baroda, Gujarat	2009	International	Paper presented

15 Innovative processes developed in teaching and learning. PPTs, Study material, video lectures etc. : Video lectures and PPT.

16. Participation in curricular development:

17. Participation in co-curricular and extra-curricular activities.

1. COVID-19 Awareness program for self management by Department of Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
2. General awareness program (COVID-19) by Ashokrao Mane College of Pharmacy, Peth- Vadgaon.
3. Attended Maharashtra Day Quiz Competition arranged by R. B. N. B. College, Shirampur.
4. Attended quiz on “ADR In current pandemic: The appropriate alternative” by Lords Universal Law College, Mumbai.
5. Attended online quiz “C- Optics” by S. M. R.P. Science College, Ramdurg.

**b. As a Member:**

18. Refresher/Orientation/Faculty development Programme / short term courses attended

Sr. No	Name of programme	Year	Duration
01	Physics in Daily Life (Short term course)	2020	6 days ( 25 April – 1 may)
02	Faculty Development Programme	2020	5 days (20 May -25 May)
03	Faculty Development Programme	2020	5 days ( 30 May – 3 June)
04	Faculty Development Programme	2020	12 days (18 July – 29 July)

19. Publication of research papers: in peer reviewed journals, non-peer reviewed journals, conference proceedings, impact factors, citations, h-index. Numbers in SCOPUS.

Sr. No.	Name of faculty	Publications	Citations	Impact factor	h-index
1.	Dr. P. S. Jadhav	11	33	2	2
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**ii) Full Papers in Conference Proceedings**

**Full Papers in Seminar/ Conference Proceeding**

Sr. No	Title with page Nos.	Details of Conference Publication	ISSN/ISBN No.	No. of co-authors	Whether you are the main author
01	Linear ME response of Ni-Co-Cu Mn ferrite+PZT composite thick films prepared through screen printing technique			4	Yes
02	Magnetization and Mössbauer studies of $Ni_{0.8}Co_{0.1}Cu_{0.05}Mn_{0.05}Fe_2O_4$ and $Ni_{0.8}Co_{0.06}Cu_{0.07}Mn_{0.07}Fe_2O_4$ prepared by solution combustion route			4	Yes
03	Structural and Electrical Properties of Ni-Co-Cu-Mn ferrites in planar form			5	Yes
04	Structural Magnetic and Mössbauer Studies of $Ni_{0.8}Co_{0.14}Cu_{0.03}Mn_{0.03}Fe_2O_4$ and $Ni_{0.8}Co_{0.1}Cu_{0.05}Mn_{0.05}Fe_2O_4$ via low temperature route			5	Yes
05	Structural and dielectric Study of PZT prepared via different synthesis route			4	Yes
06	Structural and Microwave properties of $Ni_{0.8}Co_{0.2-2x}Cu_xMn_xFe_2O_4$ prepared by solution combustion Method			4	Yes
07	Raman and Microwave properties of $Ni_{0.8}Co_{0.2-2x}Cu_xMn_xFe_2O_4$ in 14- 18 GHz frequency range			4	Yes
08	Effect of Cu and Mn doping on Structural,Electrical and Magnetic properties of Ni-Co nanocrystalline ferrite system			4	Yes

09	Comparative study of $\text{Ni}_{0.8}\text{Co}_{0.1}\text{Cu}_{0.05}\text{Mn}_{0.05}\text{Fe}_2\text{O}_4$ prepared by dry combustion and solution combustion methods			4	Yes
10	Synthesis and characterization of $\text{CoFe}_{2-x}\text{Y}_x\text{O}_4$ ( $x = 0.05-0.2$ ) by auto combustion method			5	No
11	Structural and optical properties of N-doped $\text{TiO}_2$ nanomaterials			5	Yes
12	Tailoring the dielectric properties of pyrochlore free lead zirconium titanate by synthesising it through different synthesis routes			4	Yes

20. Books published: with ISBN No., Without ISBN No., Chapters in books.

Sr. No.	Year	Name of faculty	ISBN/ISSN No.	Name of book and publisher	National/International
1	2021	Dr. P. S. Jadhav	Accepted book chapter	Fundamentals and Industrial Applications of Magnetic Nanoparticles	International

21. Consultancy services provided and revenue generated: Nil

22. Examination /Evaluation reforms initiated: Syllabus restructuring etc. Nil

23. Conferences, seminars, symposia and workshops organized as convener/coordinator:  
“Recent Perspectives in Modern Physics” Webinar organized as coordinator.

24. Awards /recognitions received: International, National, State, University level: Editorial board, Reviewers for Journals, Teachers awards, Prize in poster presentation, paper reading in conference/seminar, awards related to social work etc.  
Department of Physics, Rajaram College, Kolhapur organized “National Conference on Materials for Future Technology, (NCMFT-2014)” at Rajaram College, Kolhapur, II<sup>nd</sup> prize in poster presentation.

25. Guidance for Research project to students.

Two years (2018-19 and 2019-20) experience of guidance for research project to M.Sc. Students.