

CURRICULUM VITAE

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 (M. Sc., M.Phil., Ph. D.)
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Area of Specialization : Physics with Electronics.
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ACADEMIC QUALIFICATION

Examination Passed	Board/ University	Group/ Subject	Class/Grade
Ph.D.	North Maharashtra University, Jalgaon	Physics	--
M.Phil.	North Maharashtra University, Jalgaon	Physics	O
M.Sc.	North Maharashtra University, Jalgaon	Physics	B ⁺
B.Sc.	North Maharashtra University, Jalgaon	Physics	B ⁺
MS-CIT	MSBTE	IT	First class

Teaching Experience : **UG:** 14 Years, **PG:** 10 Years.

Sr. No.	Name of the College	Position held	From	To
1	PSGVPM's Arts, Science and Commerce College, Shahada	Contractual	21.09.2008	30 April 2009
2	PSGVPM's Arts, Science and Commerce College, Shahada	Assistant Professor (Regular appointment)	24.07.2009	Till this date

Research Experience and Training

Research Stage		Title of Thesis/ No. of Students Working	University
M.Phil. (December 2008)		Studies related to Giant Magnetoresistance (GMR) in samples of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$	KBC NMU, Jalgaon
Ph. D. (November 2014)		Manganite Perovskite Oxide: Studies related to Giant Magnetoresistance (GMR) & Tunneling Magnetoresistance (TMR) in samples of $\text{La}_{1-x}\text{A}_x\text{MnO}_3$	KBC NMU, Jalgaon
Professional Training			
Sr. No.	Training programme	Date and place	Place
1	Orientation Course	17 February 2012 to 15 March 2012	UGC-ASC, Guru Nanak Dev University, Amritsar
2	Refresher Course in experimental physics	10 march 2014 to 29 march 2014	Rani Durgawati University, Jabalpur
3	Refresher course in Physical science/Nano science	27 August 2018 to 20 September 2018	HRDC, JNU, New Delhi
4	Online Short term course on Human Rights	17 January 2022 to 22 January 2022	Online ASC DAVV, Indore
5	MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for UG Teachers	14 th to 16 th December 2021	Online organized by IISER, Pune (MSFDA)
6	MS-DEED Level 1 Master Training Workshop	16 th to 28 th May 2022	IISER, Pune (MSFDA)

Publications

➤ Research Article:

- 1) *A novel Solution Combustion Method for the synthesis of CMR material $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$, Indian Journal of Cryogenics, 33, 2-4 (2008).*
- 2) *Edge dislocation by etchant on cleavage planes of Glycine Potassium Sulphate (GPS) crystal, Archives of Physics Research, 2(1), 169-175 (2011).*
- 3) *Enhanced Ferroelectric and dielectric properties of $\text{BiFe}_{0.95}\text{Zn}_{0.05}\text{O}_3$ Multiferroics ceramics by solution combustion method (SCM), Archives of Physics Research, 2(3), 60-66 (2011).*
- 4) *Topographical studies of Ferro-electric domains in Glycine Potassium Sulphate (GPS) crystals, Archives of Physics Research, 2(3), 186-189 (2011).*
- 5) *Large Magnetoresistance in Manganite Perovskite Oxide $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ ”, Advanced Science Letters, 16, 76-78 (2012).*

- 6) *Structural, magnetic and dielectric properties of nano-crystalline Ni-doped BiFeO₃ ceramics formulated by self-propagating high temperature synthesis*", *Journal of Advanced Ceramics* **2(2)**, 135-140 (2013).
- 7) *Ferroelectric and dielectric properties of nanocrystalline BiFeO₃ multiferroic ceramics synthesized by solution combustion method (SCM)*", *Materials Science-Poland*, **31(2)**, 221-225 (2013).
- 8) *GMR Materials: A new generation of miniaturized Technology*, *IOSR Journal of Applied Physics*, **5(1)**, 76-81 (2013).
- 9) *Structural, Electrical and Magnetotransport properties of La_{0.7}Ca_{0.2}Sr_{0.1}MnO₃ by self propagating high temperature synthesis*", *IOSR Journal of Applied Physics*, **5(3)**, 64-68 (2013).
- 10) *Multiferroic properties in Zn and Ni co-doped BiFeO₃ ceramics by solution combustion method (SCM)*", *Journal of Magnetism and Magnetic Materials*, **347**, 153-160 (2013).
- 11) *A Review of Renewable Energy Sources*, *Journal of Research and Development*, 119-124 (2017).
- 12) *Structural and Morphological Studies of Strontium doped Lanthanum Manganite by Solution Combustion Synthesis*, *International Journal for Chemical and Physical Sciences*, ISSN 2319-6602, **7**, 535-540 (2008).
- 13) *Characterization and growth of Glycine Potassium Sulphate [NH₂CH₂COOH-K₂SO₄] (GPS) Ferroelectric crystal*, *Ajanta*, **VIII(1)**, 84-90 (2019).
- 14) *Dislocation on cleavage face of Tri-Glycine Potassium Sulphate [TGPS] crystal*, *Journal of Engineering Science*, **7(1)**, 362-368 (2020).
- 15) *Growth and Dislocation Studies of Ferroelectric Tri-Glycine Potassium Sulphate [TGPS] Crystal*, *Journal of Engineering Sciences*, **11(4)**, 1225-1229 (2020)

➤ **Books:**

- 1) Heat and Thermodynamics- for F.Y.B.Sc. Sem. II- N.M. Publications (2016).
- 2) Theoretical Physics – for F.Y.B.Sc. Sem. II- N.M. Publications (2016).
- 3) Mechanics and properties of matter – for F.Y.B.Sc. Sem. I- N.M. Publications (2017).
- 4) Electricity and magnetism – for F.Y.B.Sc. Sem. I- N.M. Publications (2017).
- 5) Waves and oscillations – for S.Y.B.Sc. Sem. I- N.M. Publications (2017).
- 6) Electronics – II – for S.Y.B.Sc. Sem. I- N.M. Publications (2017).
- 7) Practical Physics – For S.Y.B.Sc. Sem. III- Prashant Publication (2019).
- 8) Practical Physics – For S.Y.B.Sc. Sem. IV- Prashant Publication (2020).

Paper Presentation

Sr. No.	Title of Paper	Level	Place	Period
1	Manganite Perovskite Oxides: Fire Synthesis of CMR Material La _{1-x} Sr _x MnO ₃ -Optimization of process parameters and Physical Properties	State	P. S. G. V. P. Mandal's ASC College, Shahada,	6-7 February 2009

2	<i>Nanosized Particles in samples of LSMO using Fire Synthesis method</i>	National	PSGVP M's College of Pharmacy, Shahada	19-20 September, 2009
3	<i>Etchant's to reveal the sites of edge dislocations on cleavage planes of glycine crystals</i>	State	SGP college, Sakri	8-9 March, 2010
4	<i>Synthesis of Nanocrystalline $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ by solution Combustion process exhibiting Magnetoresistance</i>	National	D.N. Bhole College, Bhusawal	22-23 January, 2011
5	<i>Large Magnetoresistance in Strontium doped lanthanum Manganites using Solution combustion process</i>	National	N.M.U, Jalgaon	7 March 2011
6	Structural and Microstructural Studies of Strontium doped Lanthanum Manganite by Solution Combustion Synthesis	National	A.S.C. College, Taloda	22-23 January 2013
7	Magnetoresistance in Nanocrystalline Manganite Perovskite Oxide	National	SVS's Arts and Science College, Dondaicha	1-2 February 2013
8	Synthesis and Characterization of Manganite Perovskite Oxide (Oral presentation)	National	A.S.C. college, OZAR (MIG)	23-24 December 2014
9	Structural and microstructural studies of calcium and strontium doped lanthanum manganite by solution combustion synthesis.	National	GTP College, Nandurbar	5-6 February 2016
10	Structural, Electrical and Magnetotransport properties of calcium and strontium doped Lanthanum manganite ($\text{La}_{0.7}\text{Ca}_{0.2}\text{Sr}_{0.1}\text{MnO}_3$).	National	Nutan Maratha college, Jalgaon	9-10 December 2016
11	Studies on impurities of cleavage phases of GPS crystals	State	M.J.M. ACS college, Karanjali	27-28 January 2017
12	A Review of Renewable Energy Sources	National	Uttamrao Patil college, Dahiwel	6 Jan. 2018
13	Structural and Microstructural studies of Strontium doped lanthanum	International	KTHM College, Nashik	12-13 Jan. 2018

	manganite by solution combustion synthesis			
14	Tunneling Magnetoresistance in LSMO	National	P.R. Ghogrey Science college, Dhule	20 February 2019
15	Magnetoresistance measurements in Manganite Perovskite Oxide	National	V.N.Naik SPS's ACS College, Nashik	14-15 February 2020
16	A comparative study of structural properties of LSMO and LCSMO	National	M.J. College, Jalgaon	28-29 February, 2020
17	Synthesis of strontium doped Lanthanum manganite for GMR applications	International	Online Shri Pancham Khemraj College, Sawantwadi	30 April 2020
18	Metal – Insulator Transition in Manganite Perovskite Oxides	International	Online Vasantao Naik College, Shahada	20 June 2020
19	A comparative study of resistivity measurements of LSMO and LCSMO samples	International	Online KBC NMU, Jalgaon	18-20 March 2021

Conference / Symposium / Workshop Organized:

- **Co Convener** for University level workshop on Syllabus restructuring of T.Y.B.Sc. Physics held at P.S.G.V.P.M's Arts, Science and Commerce college, Shahada on 25th February 2017.
- **Organizing Secretary** for National level workshop on NET/SLET in physical sciences held at P.S.G.V.P.M's Arts, Science and Commerce college, Shahada during 4-5 January 2018.
- **Co Convener** for University level workshop on Syllabus restructuring of M.Sc. Physics held at P.S.G.V.P.M's Arts, Science and Commerce college, Shahada on 16th July 2018.

- **Organizing Secretary** for National level workshop on NET/SLET in physical sciences held at P.S.G.V.P.M's Arts, Science and Commerce college, Shahada during 5-6 February 2019.
- **Co Convener** for University level workshop on Syllabus restructuring of T.Y.B.Sc. Physics held at P.S.G.V.P.M's Arts, Science and Commerce college, Shahada on 25th February 2017.
- **Organizing Secretary** for online workshop on Curriculum Development in Physics for T. Y. B.Sc. on 15-16 May 2020.

Conference / Symposium / Workshop Attended:

Sr. No.	Title of Conference / Symposium / Workshop	Level	Place	Period
1	Seminar- <i>Current Trends in Astronomy</i>	National	Sathaye College, Vile Parle, Mumbai	16-17 Nov. 2009
2	Workshop - <i>Visit to laboratories for exploring current trends and career opportunities in physics</i>	University	KBC NMU, Jalgaon	23 Feb. 2010
3	Seminar- <i>Gandhi Thought: The only solution for corruption and terrorism</i>	National	PSGVPM's A.S.C. College, Shahada	23-24 Dec. 2011
4	Workshop - <i>First year B.Sc syllabi revision</i>	University	SGP College, Sakri	27 March 2012
5	Conference - <i>Nanostructures & Nanomaterials (NCNN-2012)</i>	National	Eklavya Study Centre, Nandurbar	28 March 2012
6	Workshop - syllabus framing of S.Y.B.Sc Physics	University	A.S.C College, Jamner	10 February 2013
7	Workshop - Research methodology presentation	University	PSGVPM's College of Pharmacy, Shahada	21 Sept. 2013
8	Workshop - Syllabus Re-structuring in Physics	University	R.C.Patel College, Shirpur	23-24 Feb. 2014
9	Workshop - Syllabus framing for M.Sc Physics	University	Pratap College, Amalner	29 April 2014
10	Workshop - First year B.Sc. syllabus revision	University	P.R. Ghogrey Science college, Dhule	17 January 2015
11	Workshop - T.Y.B.Sc. physics practical	University	N.Y.N.C. college, Chalisgaon	27 January 2015

12	Workshop - Syllabus restructuring for M.Sc.(I) physics	University	R.C. Patel college, Shirpur	23 February 2017
13	Workshop - Syllabus restructuring for T.Y.B.Sc. physics	University	PSGVPMs ASC College, Shahada	25 February 2017
14	Workshop - NET/SET in physical sciences	National	PSGVPMs ASC College, Shahada	4-5 January 2018
15	Workshop- restructuring the syllabus for F.Y.B.Sc. physics	University	A.S.C. college, Taloda	30 June 2018
16	Workshop - Syllabus restructuring of M.Sc.(II) physics	University	PSGVPM's A.S.C. college, shahada	16 July 2018
17	Workshop- Capacity building: New Mantra for Higher Education	University	PSGVPM's ASC college, Shahada	29 October 2018
18	Workshop- Syllabus restructuring at S.Y.B.Sc. physics	University	D.N. College, Faizpur	27 February 2019
19	Bal Vigyan Mela - Bal Vigyan Mela for Tribble Childrens	University	PSGVPMs ASC College Shahada	23-24 September 2019
20	Workshop - Curriculum Development in Physics for T. Y. B.Sc.	University	Online PSGVPMs ASC College Shahada	15-16 May 2020
21	Workshop - Role of IQAC in Assessment & Accreditation Process.	National	Online PSGVPMs ASC College Shahada	22 May 2020
22	E-Conference - Smart Materials & Nanotechnology	National	Kamla Nehru Mahavidyalaya, Nagpur	30 May 2020
23	E-Seminar - latest trends in Nanomaterials Synthesis, Advanced Microprocessors & Challenges	National	P.R. Ghogrey Science college, Dhule	June 9-10, 2020
24	Seminar- Applied materials and their Applications	National	Rajarshi Chhatrapati Shahu college, Kolhapur	19 June 2020
25	Web Conference- Advanced nanostructured materials for energy generation, storage and smart applications	International	Shardabai Pawar college, Baramati	09-10 Oct. 2020
26	E-Conference- Engineered Science	International	Online Kolhapur University	5-6 Dec 2020

27	Multifunctional electronic materials and processing	International	Online C-MET, Pune	8-10 March 2021
24	Workshop – Syllabus restructuring at F.Y.B.Sc. (CBCS pattern) Physics	University	N.Y.N.C. college, Chalisgaon	11 April 2022

➤ **Awards and Honors:**

Secured second prize for oral presentation in National Conference on Material and devices for future technology held at **North Maharashtra University, Jalgaon** on March 7, 2011.

Date: July 17, 2022

Place: Shahada

(Dr. Prashant Prabhakar Jagtap)