Name of Faculty : Dr. Mahesh B. Shelar						
Designation : Ass	sistant	Professor				
0						
Qualification : M	I.Sc., 1	Ph.D.				
Cracializations C		tata Dhuning, Matariala				
Specialization: So Science	ona Si	ale Physics, Malerials				
Stichet						
Official Email ID): <u>mbs</u>	helar.dypcet@dypgroup.edu.in				
Courses Taught	•	Applied Physics				
	•	Basic Electrical Engineering				
	•	Basics of Electronics (BE & CP)				
Roles and	•	Associate Dean Academics, DYPCET				
Responsibilities	• Member, NEP implementation Cell, DYPCET					
	•	Member, Academic Audit Committee, DYPCET				
	•	Program Coordinator, F. Y. B. Tech				
	•	IQAC Coordinator, F. Y. B. Tech				
	•	NAAC Coordinator, F. Y. B. Tech				
Research Contribution		Research Publications: International Journals- 22				
Contribution		No. of citations – 253 (by IRINS) h- index –07				
		i-10 index -07				
	1	Electrodeposited zinc oxide thin films: Nucleation and growth mechanism				
		Solar Energy Materials and Solar Cells, 91 (10) (2007)864-870				
		A.I. Inamdar, M.B. Shelar, P.S. Shinde, P.S. Patil*				
	2	Structural and electrical properties of nickel cadmium ferrites prepared through				
		self propagating auto combustion method				
		Journal of Alloys and Compounds, 476 (1-2) (2009) 760-764				
	3	M.D. Shelar , S.S. Chougule, M.M. Manapur, B.K. Chougule Magneto electric effect in three phase y (Nie Cue Zne Eeo() + $(1 - y)$ (50%)				
	5	BaTiO ₂ + 50% PZT) ME composites				
		Journal of Allovs and Compounds, 479 (2009) 385-389				
		P.A. Jadhav, M.B. Shelar, B.K. Chougule				
	4	Synthesis and characterization of (y) Ni _{1-x} Cd _x Fe ₂ O ₄ and (1-y) Ba _{0.8} Sr _{0.2} TiO ₃				
	L	Magnetoelectric composites prepared through combustion method				
		•				

	Archives of Applied Science Research, 2 (1) (2010) 406-415
	M.B. Shelar, P.A. Jadhav, B.K. Chougule* and V.R. Puri*
5	Structural and dielectric behaviour of (y) $Ni_{1-x}Cd_xFe_2O_4$ and (1-y)
	Ba _{0.8} Sr _{0.2} TiO ₃ ME composites prepared through self propagating auto
	combustion route
	International Journal of Self propagating High Temperature Synthesis,
	19(2) (2010) 102-109
	M.B. Shelar, P.A.Jadhav and V.R. Puri*
6	Chemical synthesis and studies on structural and magnetic properties of fine
	grained nickel cadmium ferrites
	Journal of Magnetism and Magnetic Materials, 322 (2010) 3355 – 3358
	M. B. Shelar , P.A. Jadhav, S.S. Chougule, D. R. Patil, Vijaya Puri and B.K.
	Chougule*
7	Microwave studies of ferrite-ferroelectric composites prepared through self-
	propagating auto combustion route
	Progress in Electromagnetic Research: C, 17 (2010) 55-65
	M.B. Shelar, R.N. Jadhav and Vijaya Puri*
8	Structural, electrical conduction and magnetoelectric properties of y
	$(Ni_{0.3}Cu_{0.4}Zn_{0.3}Fe_2O_4) + (1-y) [50\% BaTiO_3 + 50\% PZT] ME composites$
	Physica B: Condensed Matter, 405 (3) (2010) 857-861
	P.A. Jadhav, M.B. Shelar, S.S. Chougule, B.K. Chougule
9	Synthesis and magnetoelectric properties of (y) $Ni_{0.3}Cu_{0.4}Zn_{0.3}Fe_2O_4 + (1-y)$ [5]
	% BaTiO ₃ + 50 % PZT] ME composites
	Journal of Alloys and Compounds, 490(1-2)(2010) 195-199
	P.A. Jadhav, M.B. Shelar, S.S. Chougule, B.K. Chougule
10	Synthesis and property measurement of three phase ME composites
	Archives of Applied Physics Research, 1(1) (2010) 92-99
	P. A. Jadhav, M. B. Shelar and B. K. Chougule*
11	Dielectric loss and magnetic behavior of ferrite-ferroelectric composites
	synthesized using SHS route
	International Journal of Self propagating High Temperature Synthesis,
	20(2) (2011) 128-133
	M.B. Shelar and Vijaya Puri*
12	Magnetic properties of nanocrystalline nickel zinc ferrites synthesized by SHS method
	International Journal of Solf much anothing High Town suptume South asis 20
	(2) (2011) 118-123
	H V Jamadar M B Shelar and A M Shaikh*
	11. v. jannaual, 1 v1.d. Shtial alluA.1v1. Shakki

13	Ni0. 4CoxCd0. 6- xFe2O4 ferrites as prepared by auto combustion synthesis International Journal of Self propagating High Temperature Synthesis, 21(3) (2012) 212-216 N.D. Patil, M.B. Shelar and Vijaya Puri*
14	Role of concentration and temperature on well-aligned ZnO nanorod by Low-temperature wet chemical bath deposition method Archives of Physics Research, 2012, 3 (5):401-406 G.R. Patil, M.B.Shelar
15	Nanocrystalline ZnO Films Deposited by Spray Pyrolysis: Effect of Gas Flow Rate International Journal of Self Propagating High Temperature Synthesis, 21 (3) 2012, 178–182 R.S. Gaikwad, M.B. Shelar
16	Combustion synthesized ferrites and ferroelectrics for microwave applications International Journal of Self Propagating High Temperature Synthesis, 22(2) 2013, 93-98 M.B. Shelar and Vijaya Puri
17	Voltage stability Enhancement and power oscillation damping using static synchronous series compensator with SMES Journal of Engineering And Technology Research, 1 (1) 2013), 94-99 A. A. Malgave , M.B. Shelar and A.M. Mulla*
18	Enhancement of Power Quality by an application of DVR Journal of Engineering And Technology Research, Volume 1, Year 2013, Pages 65-71 A. B.Kumbhar, M.B.Shelar
19	Magnetoelectric Composites yNi1-xCdxFe2O4 + (1 - y)Ba0.8Sr0.2TiO3 (x = 0.2, 0.4, 0.6; y = 0.15, 0.30, 0.45): Solution-Combustion Synthesis and Microwave Properties International Journal of Self propagating High Temperature Synthesis, 27, (3) 2018, 167-173
20	M.B. Shelar, Vijaya Puri*, S.N. Yadav, R.M.Kurane, S.M.Patange Combustion-Synthesized Ni–Cd Ferrites and their Structural, Magnetic, and Microwave Absorbing Properties
	International Journal of Self propagating High Temperature Synthesis 28 (2) 2019, 173-178 M.B.Shelar and S. N. Yadav
21	Thin $Zn_{1-x}Mn_xO$ Films ($x = 1-4$ at %) by Chemical Bath Deposition: Influence of Dopant Concentration
	•

		International Journal of Self propagating High Temperature Synthesis 30 (2) 2021, 100-105					
		G. R. Patil, M. B. Shelar *, N. J. Kambale, L. D. Kadam, V. S. Raut, and B. N. Pawar					
	22	Studies on structural and magnetic	Studies on structural and magnetic properties of cobalt substituted nickel nano				
ferrites prepared by microwave assisted self propagating high temper							
		route,					
		Materials Today Proceedings,5 9 (1) ,2022,1196-1201					
	Research Reviewer Evnerionce						
		<u>Research Reviewer Experience:</u>					
		Journal Name	Post	Year			
		Journal of Hydrogen Energy	Reviewer	March 2019- till date			
		(Elsevier)	D •				
		(Elsevier)	Keviewer	July 2020- till date			
		Progress in Electromagnetic	Reviewer	March 2018			
		Research (Springer link)					
		Advances in Materials, Science	Editorial Board	March 2012 till date			
		Publishing Group	Member				
		Scientia Research Library	Executive Editor	November 2013 till date			
FDP/Workshop		Effect of Complexing agents on el	ectrodeposited ZnO t	hin films.			
Attended		M.B. Shelar, P.S. Patil *					
	1	National Seminar on Materials for	Advanced Technolog	ries (NASMAT)			
		Department of Physics, Shivaji Un	liversity, Kolhapur (2	.006).			
		Studies on structural and electrical properties of nanostructured Ni-Cd ferrites					
		by chemical route					
	2	Raman Memorial Conference Department of Physics Pupe (2008)					
		M. D. Shalar, M.M. Mallarur, D.A.	Jadhary S.S. Chava	wie and D. K. Chanaula*			
		M. B. Sneiar, M.M. Manapur, P.A	. Jadnav, S.S. Choug	ule and B. K. Chougule ^{**}			
		Attended the Workshop on Frontie	ers in Physics and Che	emistry, First			
		Interdisciplinary Shivaji University (India) - Hanyang University (S.					
	3	Korea)Bilateral summit (2007). D	enartment of Physics	Shivaii University			
		Kolhanur	epartment of Thysics	, Shivaji Chiveisity,			
		Attended one day workshop on <i>LA</i>	IEX organized by A	shokrao Mane Group of			
	4	Institutions, Vathar tarf Vadgaon (J	July 2012) , Kolhapur	(M.S, India)			

	Attended one day workshop on "Syllabus Setting of First Year Engineering
5	Physics" at J.J.Magdum College of Engineering, Jaysinghpur (January 2013),
	Dist- Kolhapur (M.S.India)
	Participated in <i>LEED college activity</i> , Shivaji University, Kolhapur organized
	by Ashokrao Mane Group of Institutions, Vathar, Kolhapur on " One day
6	Training program on Role of Teacher in Knowledge Management & Evaluation
	Process of NBA Accreditation on 24-02-2014, (M.S.India)
	Successfully completed an AICTE approved FDP(101x) on Foundation
7	Program in ICT for Education from IIT Bombay at RIT, Islampur from 3 rd
	Aug.2017 to 7 th Sept.2017. (M.S.India)
	Attended a Science Academies Lecture Workshop on "Recent Advances in
8	Catalysis" held at Sanjay Ghodawat University, Kolhapur on 23rd and 24th
	February 2018, (M.S.India)
	Participated in International Conference on Materials and Environmental
9	Science held on 7 th - 8 th December 2018 at Shivaji University, Kolhapur (M.S.,
	India)
	Presented Poster in International Conference on Physics of Materials and
10	Materials Based Device Fabrication, hosted by Department of Physics,
	Shivaji University, Kolhapur was held on 10 th - 11 th January, 2019
	Attended AICTE Approved 07 days FDP on FY Induction Program at IIT,
11	Ropar, Punjab from 02-08 July 2019
	Presented Paper on at National Conference on "Exploring New Dimensions in
13	
14	Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K.
12	Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra
12	 Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for
12	 Teaching- Learning for Quality Education" on 8- 9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna
12	 Teaching- Learning for Quality Education" on 8- 9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020
13	 Teaching- Learning for Quality Education" on 8- 9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA"
13	 Teaching- Learning for Quality Education" on 8- 9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021.
12	 Teaching- Learning for Quality Education" on 8- 9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021. Successfully completed 5 days FDP on "Electro spinning Nanofibers: Science,
12	 Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021. Successfully completed 5 days FDP on "Electro spinning Nanofibers: Science, Technology and Applications "by Indian Institute of Information Technology,
12 13 14 15	 Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021. Successfully completed 5 days FDP on "Electro spinning Nanofibers: Science, Technology and Applications "by Indian Institute of Information Technology, Nagpur from 12th to 16th July 2021.
12 13 14 15	 Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021. Successfully completed 5 days FDP on "Electro spinning Nanofibers: Science, Technology and Applications "by Indian Institute of Information Technology, Nagpur from 12th to 16th July 2021. FDP on "Developing Effective Research Skills" from 09/08/2021 to 13/08/2021
12 13 14 15 16	 Teaching- Learning for Quality Education" on 8-9th June, 2019 at K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra Successfully completed 5 days FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21st to 25th September 2020 Successfully completed 5 days FDP on "Outcome Based Education & NBA" by K.B.P., Satara from 8th to 12th May 2021. Successfully completed 5 days FDP on "Electro spinning Nanofibers: Science, Technology and Applications "by Indian Institute of Information Technology, Nagpur from 12th to 16th July 2021. FDP on "Developing Effective Research Skills" from 09/08/2021 to 13/08/2021 at PES College of Engineering.

		Online Elementary EDP on "Renewable Energy – A future alternative" from	
	17	15/01/2022 (21/01/2022 (C	
		17/01/2022 to 21/01/2022 at Government Polytechnic Thane.	
		FDP on Role of Assessment and Accreditation towards improving the Quality of	
	10	Education and National Educational Policy implementation in Higher	
	18	Educational Institutions from 8 th to 10 th February 2023 at Kamraj College of	
		Engineering, Chennai	
	19	International Faculty Development Programme on Advanced Functional	
		Materials: Energy, Environment and Sustainable Development from 28th Feb to	
		9th March 2023 at Department of Pysics, SRM TRP Engg College,	
		Tiruchirappali, Tamilnadu.	
		National Webinar on Zn Stannate Modified Graphitic Carbon Nitride for the	
	20	Photocatalytic Removal of Hexavalent Cr in H ₂ O by Dr. Damian C. Onwudiwe	
		on 6 th March 2023	
		National Webinar on Magneto-caloric Materials : Magnetic Cooling for Green	
	21	Refrigeration on 7 th March 2023, SRM TRP Engg College, Tiruchirappali,	
		Tamilnadu.	
	1) 6	agurad 1 st mark in abyging M.S. antronog (06/100) hold at Shiyoji Uniyangity	
	1) 50	ecured 1 rank in physics M.Sc. entrance (90/100) neid at Shivaji Oniversity	
Awards	Kolhapur in 2004 and awarded 10,000/ merit scholarship.		
	2) A	warded 1 st prize on Einstein's Day for poster and oral presentation at	
	Shivaji university on Feb. 2006 during M.Sc.		
	3) Awarded 3rd prize for poster presentation in National seminar on physics and		
	materials-based device fabrication held on Feb. 17- 2011.		
	4) Received best KRA (Key result Area) award certificate with point scale		
	3.47	out of 5 for the Institutional growth and Development as per strategic Plan,	
	RIT, Islampur in March 2019.		