

Dr. Shelke Ujwala

Personal Information

Name	SHELKE UJWALA NIVRUTTI
Address	Nand Nager Lasalgaon, Tal-Niphad, Dist.-Nashik.422306
Contact Number	9272939752
Email id	u_nshelke@rediffmail.com
Birth Date	03/05/1973
Department	PHYSICS
Qualification	M.Sc., Ph.D.
Post Graduate recognition	Post graduate recognized Teacher of SPPU ,Pune

Academic Qualification

Degree	University	Passing Year	Class	Percentages (%)
B.Sc.	Pune	1993	First class	62
M.Sc.	Pune	1995	First class	64
Ph.D.	Pune	9 th Jan 2021	Awarded	-
P.G. Recognition	Pune	5 th Jan 2022 to 2 nd May 2033	-	-

Name of teaching Programmes attended

Orientation/Refresher course	Name of Institute	Period of course	Date From to
Orientation course	University of Pune	28 Days	1 Feb to 29 Feb 2001
Refresher course in computer Application (physics)	University of Pune & KTHM College Nashik	21 Days	27 Dec 2004 To 16 Jan 2005
Refresher course in Research methodology (science discipline)	Dr. Babasaheb Ambedkar Marathwada University Aurangabad	21 Days	1 Jan 2013 To 22 Jan 2013
Special summer school in ICT physics	University of Pune KTHM College Nashik	21 Days	6 May 2015 To 26 May 2015
Refresher course in Physics	Ramanujan College University of Delhi	14 Days	9 June 2023 To 23 June 2023

Short Term Courses

1.	Teachers Orientation work shop	Bahai Academy Pachgani and NVP Mandals Arts commerce science college Lasalgaon	Lasalgaon	10-15 Nov 2016
2.	Facility development program on cyber security	Shivaji University Kolhapur and NVP Mandals Arts commerce Science college Lasalgaon	Lasalgaon	26 Sep to 1 oct 2019
3.	One week online national training program on use of information & communication technology in E-learning & Teaching	Ganga Nature Land scaping sanstha, Gargoti (Maharashtra)	Online	22nd June to 28th June 2020
4.	NEP 2020 Orientation & Sensitization Program	UGC –Malaviya Mission Teacher training Centre SPPU Pune	Online	15 Dec 2023 to 29 Dec 2023

Book Published

Title of book	Subject	Publisher	Year of publication	level
Mathematical methods of physics	Physics	Success	2015	UG
Classical mechanics	Physics	Success	2015	UG
NEP New Syllabus Practical Lab I & II	Physics	Nirali	2024	UG

Research Project Carried Out

Title of project	Name of funding agency	Duration	Remark
Electrochemical synthesis & characterization of conducting polymer for development of biosensor	UGC	Two Years	Completed

Research Papers Published:

Research papers Dr. U .N Shelke

- The Fabrication of Composite Graphite-PANI-AgNO₃ Partied based urea Bio-sensor.
U.N. Shelke , K.S. Paithankar , V.B.Deshmukh, V.K. Gade. International Journal of Current Trends in Science & Technology. Online: ISSN: 0976-9730 Print ISSN: 0976-9498 15th January 2018.
- Synthesis of Polyaniline based none composite Graphite paste electrode modified with & without silver Non particles for sensor Application: A Comparative Study

U.N. Shelke, K.S. Paithankar, V.B. Deshmukh, S.B. Iyyer, S.T. More, V.K. Gade. IJCPS Vol.7, Special Issue ICAFM (part-11) March 2018 International Journal of Chemical & Physical science ISSN : 2319-6602 March 2018.

3. *Synthesis of poly O-anisidine based Sensor for isoperimetric detection of pesticide carbonyl.* **U.N. Shelke**, K.S Paithankar, V.B. Deshmukh, S.A. Folane, V.K. Gade. Current Pharma Research 2019 9(4), 3208-3215. ISSN 2230-7842 . 11th January 2019.
4. Amperometric detection of carbufuran by graphite paste electrode with silver nano particles (AgNo₃) **U.N. Shelke**, K.S Paithankar , V.B Deshmukh, P.K. Paithankar, V.K. Gade. Current Pharma Research 2019 9 (4), 3356-3395 . ISSN 2230-7842. 27th January 2019.
5. Electrochemical synthesis and characterization of coreopsis Aniline and Poly 2-Amino Pyridine as Conducting Polymer Paithankar Kiran, More Suresh, S.R. Mirgane, **Shelke Ujwala** V.K. Gade. RTMS Proceeding 2016. ISBN NO. 978.93.5188.599.2. 15 & 16 February 2016.
6. Synthesis & Characterization of conducting Polymer & enzyme based Modified electrode Paithankar Kiran, More Suresh, S.R.Mirgane, **Shelke Ujwala**, V.K. Gade. RTMS Proceeding 2016 ISBN No. 978.93.5188.599.2 15 & 16 February 2016.
7. Creative Biosensor Based on Graphite paster electrode Modified with Dibenzo-30-crown-10 and Rice Husk K.S. Paithankar, V.B. Deshmukh, **U.N. Shelke**, S.B Iyyer , S.T. More, V.K. Gade. Asian Journal of Chemistry Vol.29 No,6 (2017) 1401-1404. Published Online. 10th April 2017.
8. Amperometric detection of cholesterol by nanocomposite graphite electrode paste K.S. Paithankar, V.B. Deshmukh, **U.N Shelke**, S.B Iyyer, S.T. More, V.K. Gade. Research Journal of physical sciences Vol.5(6) 5-9 . ISSN 2320-4796 Available Online www.isca.in . August 2017.
9. Synthesis of Polyaniline based Non composite graphite paste electrode modified with & without Rise Husk for sensor application : A comparative Study K.S. Paithankar, V.B. Deshmukh, **U.N. Shelke**, S.B. Iyyer, S.T. More, V.K. Gade . Asian Journal of Chemistry Vol.29 No.11 (2017) 2545-2548 . Published Online . 29th September 2017.
10. Amperometric Detection of Urea by Polyaniline & poly (o_anis Dine) film under G Alvanostatio Method – A comparative study S.A. Folane , K.S.Paithankar, V.B. Deshmukkh, **U.N. Shelke**, S.B. Iyyer, V.K. Gade. Asian journal of Chemistry Vol.31, No.2 (2019) 283-286. Published Online . 31st December 2018.
11. Synthesis & characterization of Polyaniline film by K₂Cr₂O₇, K₂CrO₂& FeCl₃: A Comparative study V.B. Deshmukh, K.S. Paithankar, **U.N. Shelke**, S.B. Iyyer V.K. Gade. *International Journal of scientific Research in physics and applied sciences* Vol.6 Issue .pp 149- 154. E- ISSN : 2348-3423 Available Online www.isroset.org . 31St December 2018.
12. Study of Influence for Various Parameters to electrochemical synthesis of Polyaniline thine film by Galvanostatic Method Deshmukh V.B., Paithankar K.S., **Shelke U.N.**, More S.T., Iyyer S.N., Gade V.K. Internatinal research Journal of Science & Engineering 2018 Special Issue A2: 150-155. ISSN 2322-0015 UGC Approved Journal No. 63638 SJFF Impact factor 4-11 .2018.
13. Electrochemical Synthesis & characterization of aniline by K₂Cr₂O₇ as an oxidant & H₂SO₄ as a dopant V.B. Deshmukh, K.S. Paithankar, **U.N. Shelke**, V.K. Gade . Current Pharma Research 2019 9(2) 2831-2836 ISSN 2230-7842 7th January2019.
14. Polyaniline Based potentiometric Creatinine Biosensor Based on Nanocomposite Graphite

Paste and Rice Husk K.S.Paithankar, V.B.Deshmukh, **U.N.Shelke**, S.T., S.R.Mirgane,
V.K.Gade. Management Guru: Journal of Management Research (International Journal) ISSN 2319-2429.

- 15.** Analytical detection of paraoxon using Acetylcholinesterase as an enzyme on Polyaniline/ FeCl₃ composite film by potentiostatic Method. V.B. Deshmukh, K.S.Paithankar, **U.N.Shelke**, V.K.Gade Volume 65, Issue 5, 2023. Journal of Scientific Research, institute of science Hindu University, Varanasi, India.
- 16.** Fabrication of acetylcholinesterase sensor based on polyaniline / K₂Cr₂O₇ composite film modified electrode for amperometric detection of carbaryl V.B.Deshmukh, K.S.Paithankar, **U.N.Shelke** N.R.Dhumane, Journal of Advanced in Applied Science & Technology (20 22) Vol.8 | Issue 1 ISSN : 2393 (Print) 2393- 8196(online).
- 17.** Structural, Surface Morphological, Optical Properties and Angle of Contact of InSe Thin Film Using CBD Method in the International Journal of Scientific Research in Science and Technology (IJSRST), Volume 11, Issue 19, September-October-2024, **U.N.Shelke**. IJSRST International Journal of Scientific Research in Science and Technology Print ISSN: 2395-6011 | Online ISSN: 2395-602X [UGC Journal No: 64011] Peer Reviewed and Refereed International Scientific Research Journal Scientific Journal Impact Factor: 8.62
- 18.** Environmental Applications of Nanomaterials, **Ujwala N. Shelke**, Manisha D. Dhiware, Ramesh B. Bhise, Advances of Nanomaterials in Energy & Environmental Technology, Mahi Publication.

Seminar conferences, symposia, workshop etc attended

Sr. no	Name of the Seminar / Conference/ workshop / Symposia etc.	Name of the sponsoring Agency	Place	Date
1	Workshop on "Awareness & teaching of New topics in F.Y.B.Sc syllabus	S.S.G.M. College Kopergaon	Kopergaon	11 & 12 August 2002
2	Workshop on: Use of computer simulations & information Technology for physics teaching at UG level	A,C & Science college Saikheda	Saikheda	18 Dec 2006
3	Workshop on Teaching skills	A,C & Science College Lasalgaon	Lasalgaon	15 & 16 April 2007
4	Workshop on Embedded system & Programmable Logic controllers	KTHM college Nashik	Nashik	27 Feb 2008
5	National Conference on renewable energy For Youth Empowerment in Rural area.	A,C & Science college sangamner	Sangamner	23 to 25 March 2008
6	Workshop on F.Y.B.Sc Syllabus Revision	Abasaheb Garware college Pune	Pune	13 August 2008
7	Workshop on F.Y.B.Sc Syllabus Framing	HPT & RYK college Nashik	Nashik	17 Dec 2008
8	Seminar on semiconductor Gas	A,C & Science	Nandgaon	27 dec 2008

9	Seminar on solar Energy & its application	KKW Arts commerce & Science college Pimpalgaon	Pimpalgaon	27 Jan 2008
10	Two days state level seminar on basic concepts of experiment in material science & nanotechnology in Research point of view	Arts, Commerce & Science College Satana	Satana	11 & 12 Jan 2010
11	Two Days National level seminar on Recent techniques of material characterization	S.S.G.M college Kopergaon	Kopergaon	29 & 30 Jan 2010
12	National level seminar on “recent Trends in thin Film technology	Jijamata college of science & Arts Bhende	Bhende	23 & 24 Feb 2010
13	Workshop on “Nanotechnology”	Cidco College Nashik	Nashik	21 Jan 2011
14	State level Conference on “recent trends in Biophysics & Medical Electronics”	K.J. Somaiya college of Arts & science Kopergaon	Kopergaon	10 & 11 Feb 2013
15	National Conference On Nanomaterial-Application properties	A,C & Sci college	Sonai	22 & 23 Feb 2013
16	Oneday S.Y.B.Sc Physics New Syllabus Revision workshop	A, C & Science College Ozer	Ozer	1 March 2014
17	OnedayWorkshop of PUCTO	A,C & Science Nashik	Nashik	18 Sep 2016
18	Innovative Research Techniques in chemical & physical sciences (IRTCPS – 2015)	Rayat shikshan sanstha’s Arts , commerce & science college kopergaon	Kopergaon	7-8 Aug 2015

19	National conference on Nano material imperatives in the New millennium (NINM - 2016)	Arts, conference & science college, Neminager chandwad	Chandwad	16-17 Oct 2016
20	State level conference on recent trends in material science	Shri Anand college Patherdi	Patherdi	15,16 Feb 2016
21	International conference advances in functional material (ICAFM-2018)	KTHM college Nashik	Nashik	12,13 Jan 2018
22	Workshop on Laboratory experiment in physics	BPHE society's Ahmednagar college	Ahmednagar	11 or 12 Jan 2019
23	A National webinar on physics education post covid era	Indian Association of physics Teachers IAPT, RC-08 Maharashtra	Online	21st – 22nd Jun 2020
24	One day webinar on disaster management	Arts commerce science college Lasalgaon	Online	20 April 2021
25	One day webinar on challenges for Indian Economy	Arts commerce science college Lasalgaon	Online	23 April 2021

26	One day webinar on career advancement scheme e(CAS)	Arts commerce science college Lasalgaon	Online	28 April 2021
27	One day webinar on poetry An essence of life	Arts commerce science college Lasalgaon	Online	12 May 2021
28	National level workshop on National Education Policy 2020	Q.I.P.of SPPU,Pune	Online	28 Feb 2023
29	MS-DEED Level 1 online workshop on Introduction to Innovation Pedagogies for UG Teacher	IIS Education & Research Pune	Online	14 th to 16 th Dec 2021
30	My Soil My Country District level workshop	KTHM College Nashik	Nashik	26 October 2023
31	Womens Empowerment Council (United Nations Sustainable Development goals)	SPPU Pune	Pune	23 October 2023

Innovations/ contributions in teaching

Design of curriculum	Attended Syllabus Framing workshop Worked as a Examiner, Paper setter,
Teaching Methods	Lecture Method, Question Answer Method, Used ICT based PowerPoint presentation .
Laboratory experiments	According to University syllabi
Evaluation Methods	Oral, M.C.Q. Type questions, tutorial, Class room seminars, , Evaluation by trial exam. , and home assignments.
Preparation of resource material including books, reading materials, laboratory manuals etc	I have collected information of research and current events of science and syllabus related material from internet and supplied to students for study
Remedial Teaching/ Students Counselling (Academic)	I have provide the reading material and information for advanced studies in their future and counselling about specialization in master degree and carrier advantage courses and job oriented courses
Any other	1.I have apply co-operative learning for F.Y.Bsc students

I) Involvement in Administrative and Co-curricular Activities:

Year	Detail of Activities
2017-18	Head, Department of Physics
	Examination Duties
	Chairman, Health service unit, Vishakha Sameetee
	Member of Vidhyrthini munch, Science Association,
2018-19	Head, Department of Physics
	Examination Duties
	Chairman, Health service unit, Vishakha Sameetee
	Member of Vidhyrthini munch, Science Association
2019-20	Head, Department of Physics
	Examination Duties
	Chairman, Health service unit, Vishakha Sameetee
	Member of Vidhyrthini munch, Science Association
2020-21	Head, Department of Physics, Examination Duties Chairman, Health service unit, Vishakha Sameetee ,Member of Vidhyrthini munch, Science Association
2021-22	Head , Department of Physics, Examination Duties, Chairman Health service unit, Vishakha Sameetee, Member of Vidhvrthini munch, Science Association
2022-23	Head, Department of Physics, Examination Duties, Chairman Health service unit, Vishakha Sameetee, Member of Vidhvrthini munch, Science Association
2023-24	Head, Department of Physics, Examination Duties, Chairman Health service unit, Vishakha Sameetee, Member of Vidhvrthini munch, Science Association

Extension work/ community service:

1. Please give a short account of your contribution to:	
i) Community work such as values of National integration	Worked as a Polling officer Maharashtra state vidhan sabha assembly election 2024.
ii) Secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc	Nil
iii) National literacy mission	Nil
b) Position held/ leadership role played in organization, linked with extension work and National Service Scheme (NSS) or NCC or any other similar activity.	Worked as Program Officer of NSS Since 2016-2017