Individual Teachers Profile

Dr. Smita Sunil Mahajan
Assistant Professor, H.O.D Physics,
Jaysingpur College, Jaysingpur.
Phone No:- (Residence) - (0233)2302918
(Mobile) - 09890632918.
Email ID: dr_smitamahajan@yahoo.com / drssmahajan13@gmail.com

Personal details:

		Surname	Middle name	Husbands name
1	**Name in full**	: Mahajan	Smita	Sunil
2	**Date of birth**	: 22/12/1969		
3	**Male/Female**	: Female		
4	**Category**	: Open		
5	**Language**	: Marathi		
6	**Nationality**	: Indian		

Particulars of Educational Qualifications:

Sr. No	Exam Passed	Subject/ Subject with specialization	Year of Passing	Name of the Board /University awarding Certificate / Degree
	A	*B*	*C*	*E*
1	S.S.C.	Science, Math's., Eng., Sco. Sci., Marathi, Hindi	1985	Pune
2	H.S.C.	Physics, Eng., Chemistry, Math's., Biology	1987	Pune
3	B.Sc.	Physics	1990	Shivaji
4	M.Sc.	Physics (Space Science)	1992	Shivaji
5	M.Phil. / NET/ / SET	Not applicable	-	-
6	Ph. D.	Electrochromic properties of spray deposited molybdenum oxide and doped thin films	2008	Shivaji

Particular of teaching experience, pay and allowance etc. to this date-

Sr.No	Classes taught	From to from
1	B.Sc. I, II, III	01/02/1993 to till date

Present position and pay-

Assistant professor at Jaysingpur college, Jaysingpur.
(Basic pay 29000+7000=38000 / D.A. / other allowances etc.)

Recognitions of Ph.D. guideship-

Permanent Reorganization as a post graduate teacher/M.Phil. /Ph.D. guide in Physics from dated 15/01/2012. (Approval No. SU/PG_BUTR/RECOG/2254)

Ph.D. student-02 awarded / 04-working

Research work area-

- Working on spray pyrolysis thin film
- Working on CBD thin film
- Working in the field of electrochromic material, solar cells.
- Working on Super Capacitance.

Major and minor research projects

Name of teacher	Title	Subject	Sanction date & Amount	Funding agency and status
Dr. S. S. Mahajan (Principal Investigator)	1.Investigation on electrochromic properties of Pure and Doped Molyhdeniam Oxide thin films	Physics Material Science	25 April 2005 **Amount**: 44,000/- **Completed date:** 31-03-2007	UGC Completed
Dr. S. S. Mahajan (Principal Investigator)	2. Development of Supercapacitor based on hydrothermally synthesized MnO_2 nanostructural thin films	Physics Material Science	25 Nov 2010 **Amount:** 1,9000/-	UGC Completed
Dr. S. S. Mahajan (Co-Investigator)	1. Ethanomedicinal studies in some pteridophyte of south western ghats-A biodiversity hot spot	Life Science	30 June 2011 **Amount:** 9,70,300/-	UGC Completed

Worked as Members/Expert/Committee members-

- Member of Board of Studies Physics, Shivaji University Kolhapur-Sept 2010 to 2015
- Member to the faculty of science by the BOS Physics Shivaji University Kolhapur-1st Sept 2010 to 2015
- Life member of IAPT
- Life member of Indian Science Congress
- Life member of SUTA
- Life member of Shivaji University Physics Teachers Association
- Vice President of RC-8 regional IAPT
- Member of LIC at Yashwantrao Patil Science College, Solankur Radhanagari.
- Member of LIC at A.C.& S College, Asurle Porle, Tal .Panhala ,Dist. Kolhapur.
- Member of LIC at A.C.& S College, Shri B.D. Mahavidyalay ,Atapadi.
- Member of LIC at V.N. Arts & Commers and B.N. Scince college, Shirala.
- Worked as subject exepert in physics at J.J.Magdum , College of Engineering
- Worked as subject exepert in physics at Institute of E & T ,Raigoan (Satara)
- Worked as subject exepert in physics at Annasaheb Dange College of Engineering & Tecnology Ashta
- Worked as subject exepert in physics at K.W.C.,Sangli
- Worked as subject exepert in physics for JRF Major Research Project at K.W.C.,Sangli

Particulars of other activities, if any (Except teaching & Research)

Co-curricular and extra-curricular activities carried out:

- Member of Indian Association of Physics Teachers (IAPTRC-8).
- Member of Indian Science Congress
- Member of MRSI
- Member of BOS of vocational education, Shivaji University Kolhapur.

Full postal Address-

Residence:
Dr. Mahajan Smita Sunil,
Parvati Niwas, Gandhi Colony,
Near Ganesh Temple, Vishrambag
Sangli Dist.:- Sangli.
Pin: 416 415.

List of publications-

Concentration dependent structural, optical and electrochromic properties of MoO_3 thin films
SS Mahajan, SH Mujawar, PS Shinde, AI Inamdar, PS Patil_Int. J. Electrochem. Sci 3 (8), 953-960_2008

Structural, morphological, optical and electrochromic properties of Ti-doped MoO_3 thin films.
SS Mahajan, SH Mujawar, PS Shinde, AI Inamdar, PS Patil_Solar energy materials and solar cells 93 (2), 183-187,2009

Promotion of electrochromism in spray-deposited molybdenum oxide-doped iridium oxide thin films *PS Patil, RK Kawar, SB Sadale, AI Inamdar, SS Mahajan_Solar energy materials and solar cells 90 (11), 1629-1639_2006*

Structural, optical and electrochromic properties of Nb-doped MoO_3 thin films
SS Mahajan, SH Mujawar, PS Shinde, AI Inamdar, PS Patil, _Applied surface science 254 (18), 5895-5898,2008

α-MoO_3-C composite as counter electrode for quantum dot sensitized solar cells
PS Tamboli, MBR Prasad, VS Kadam, RS Vhatkar, HM Pathan, _Solar Energy Materials and Solar Cells 161, 96-101,2017

Structural and photocatalytic studies of hydrothermally synthesized Mn^{2+}–TiO_2 nanoparticles under UV and visible light irradiation *VPSM Ravi Kamble, Sandip Sabale, Prashant Chikode_Materials research express 3, 115005,2016*

Spray pyrolytic deposition of α-MoO_3 film and its use in dye-sensitized solar cell
PS Tamboli, CV Jagtap, VS Kadam, RV Ingle, RS Vhatkar, SS Mahajan, ..._Applied Physics A 124 (4), 339,2018

Visible light-driven High Photocatalytic Activity of Cu-doped TiO_2 Nanoparticles Synthesized by Hydrothermal Method *R Kamble, S Mahajan, V Puri, H Shinde, K Garadkar_Material Science Research India 15 (3), 197-208,2018*

Structural characterization and photocatalytic properties of hydrothermally synthesized Ni^{2+}-TiO_2 nanoparticles for dye degradation under direct sunlight*SR Sabale, R Kamble, P Chikode, V Puri, S Mahajan_Indian Journal of Chemistry-Section A (IJCA) 56 (5), 479-487,2020*

Superhydrophobic PVC/SiO_2 Coating for Self-Cleaning Application.*RS Sutar, PJ Kalel, SS Latthe, DA Kumbhar, SS Mahajan, PP Chikode,._Macromolecular Symposia 393 (1), 2000034,2020*

Structural and photocatalytic studies of hydrothermally synthesized Mn^{2+}-TiO_2 nanoparticles under UV and visible light irradiation (vol 3, 115005, 2016)*R Kamble, S Sabale, P Chikode, V Puri, S Mahajan_MATERIALS RESEARCH EXPRESS 5 (12),2018*

Corrigendum: Structural and photocatalytic studies of hydrothermally synthesized Mn^{2+}–TiO_2 nanoparticles under UV and visible light irradiation (2016 Mater. Res. Express 3 115005)
R Kamble, S Sabale, P Chikode, V Puri, S Mahajan_Materials Research Express 5 (12), 129502,2018

Studies on the Fe3+ Doping Effect on Structural, Optical and Catalytic Properties of Hydrothermally Synthesized TiO2 Photocatalyst *R Kamble, S Sabale, P Chikode, V Puri, XY Yu, S Mahajan Nanoscience & Nanotechnology-Asia 7 (2), 230-242,2017*