

# Dr Vandana B Patil

Curriculum Vitae

drvbpatil2022@gmail.com Cell No:9922916083/95148356804

#### **E**ducation

2017 - Solapur University Solapur

PhD student, Physics Department. SGPA - 4.5/5.

2005 - 07 Shivaji University Kolhapur

MSc (with First Class) in Physics 68.96%.

2002 - 05 Shivaji University Kolhapur

B.Sc (First Class with Distinction) in Physics 77.60%.

2008-2009 (with First Class)Savitribai Phule Pune University

### Academic Honors

2005 - 07 Eklawya Scholarship of MSC

2006-2007 Best Paper presentation award in National Conference Organized by YC Institute Satara.

2014-2015- SPPU level Avishkar winner under PhD Category.

Nominated for Best Teacher award from DYPIEMR AKURDI PUNE 44

2018-19 Best -Guide Award from MAVIPA Mumbai in the Year 29th April 2018.

Sep- 2020 Best Guide Award from Connect Next Conference from La

Fondation Dassault Systems, India.

2018-2019-First PhD Women award Fromshri Kundlik Mahadev Patil samajik

Sanstha Wakaregaon Tal Karveer Dist Kolhapur -416204.

2016-Third grade in Vidyan Ranjan Spardha of MAVIPA2016

# Paper Published i5n journal

Sr.	Title of paper	Journal	Publi	Cit	С	Source	I m	SCI	Y ea r	Volum
No.		Name	! }			Normali zed Impact	pa ct		-	eand Page
				re	iono f	perPaper( SNIP):		Imagof Jou		noumber
ı					p ap			rna l		
					er			Ra nk (SJR):		
1.	Oxalic acid inducedhydrothermalsy nthesisof singlecrystallinetungsten oxidenanorods	Journal of alloysandCo mpounds	Elsevier	7.6	36	1.393	4.65	1.006	<b>201</b> 4	Volun e590, 25 Marc h 201 4, Pages283– 288
2.	Hydrothermally synthesizedtungstentrioxiden anorodsasNO2gassensors	Cerami csInter nationa l	Elsevier	2.64	09	1.253	3.83 o	0.865	201 5	41(3):3845 - 3852·Apri l2015with 82Reads
3	EnhancedNO₂responseofhy drothermallygrownTidoped WO₃nanostructures	JournalofMa terialsScienc e:Materialsi nElectronics	Elsevier	1.6.	05	1.052	2.19	0.836	<b>201</b> 7	January 2017,Volu me 28, <u>Issue2</u> ,pp1612– 1619 88 dowenloads
4	EffectofannealingonPb WO4nanorods	MaterialLetters	Elsevier	2.42	02	0.985	2.43	0.807	3	MaterialsL etters181, 350-353
5	High performance singlecrystallinePbWO4nan orodfieldeffecttransistor	J Mater Sci: MaterElectr onics	Spring er	1.6.	05	0957- 4522	2.19	2.195	201 5	26, 3685- 3689

7	Photoluminescence andphotoelectrochemicalp roperties of nanocrystallineZnO thin films synthesizedbyspraypyrolys istechnique  Spray	Applied surfacesci ence	8.7 Elsevie	3.13	<b>78 23</b>	1.236	6.18 2 3.78	0.930	201	257, 10789– 10794
	depositedsuperhydrophob ic. ZnOcoatingsviaseedassiste dgrowth	coating andtechnolog y	r				4		1	206, 1336– 1341
8	Enhanced supercapacitorperformance by palladiumdopingonwo3elec trode	Journalof MaterialChemi stry andPhysics	Elsevie r	2.26		ISSN: 0 254- 0584	4.9	3.408	<b>201</b> 7	Vol225 192-199
9	Using Motion Simulation inCAD in the Concept DesignPhaseforHarnessingEn ergyfromRoad Traffic	Internationa IJournal forScientific Research&D evelopment  	I.J.S. R.D. ,INDI A			2321-0613 ISSN Onlne	4.39 6		201 6	Vol.4 Issue10, 2016  ISSN (online): 2321-0613
10	Effectoftitaniumon supercapacitorperformanceof WO3electrodeonGCE	Cerami csInter nationa l	Elsevie r	2.64	09	3.253	3.83 o	o.86 5	7	submitted
11	Macroporous WO <sub>3</sub> : Tunablemorphology as a function ofglycineconcentration and its excellent acetone sensing performance	Cerami csInter nationa l	Elsevie r	2.64	10	4.253	3.83	o.86 5	201 8	Vol45 409- 414
12	WO <sub>3</sub> Morphologyan dcrystalstructuredep endent pseudocapacitor performanceof hydrated WO <sub>3</sub> nanostructur es	MaterialAdvan ces	RoyalS ociety ofChe mistry	7.6	02	7.9	4.6		202	26
13	Spray Deposition of the nanostructured ZnO thin films for Non Volatile resistive switching memory Aplications	Applied Physics A		2.98		4.6	3.8		202	129 issue 7

# \*\* Grant Details\*\*

Sr No	Name of Funding scheme	Amount in Rs	Funding agency
1	Impact Lecture scheme phase I	12000/-	MOE IC Govt of India
2	Impact Lecture scheme phase II	12000/-	MOE IC Govt of India
3	Kapila 2022	5600/-	MOE IC Govt of India
4	SPPU Avishkar 2017	10,000/-	BCUD SPPU

\*\*\*Patent /Copy Right Details\*\*\*

***Paten	t /Copy Right Details***		
Sr No	title OF PATENT IDEAAND INVENTION	PATENT ID NO	STATUS WITH DATE
01	SMART PEN TO DETECT HUMAN MENTAL FOCUS AND  CONCENTRATION WITH PRESSURE SENSORS ON THE GRIP  USING MACHINE LEARNING  FIELD OF INVENTION  The present invention relates to the field of sensor based mental concentration prediction.  The present invention relates to the field of sensor and machine learning based	GO6F310354 AND 202022100433	International German Granted for 20 years 31//1/2022
	smart pen to detect concentration of the user.		
02	Intelligent Management System For Electricity Power Settlement Of Electric Energy Power Station Using Blockchain & Machine Learning	2022/11105	International , South African
03	A system to Harvest Electrical Energy	202221007222	International
04	A Portable Solar Lamp	202221007372	International Published
05	A Smart Trolly	202221007373	International Published
06	Waste Heat Of Gas Stoveand Chulahas Electricitygeneratingdevicefrom Whilecooking	201821005138	International Published
07	An Artificial intelligience based biomedical sensing system for high throughput biomedical testing : physics	202141049862	International Published
08	Portable hitch mounted cargo carrer	364402-001	International Published

\*\*Copy Right Details\*\*

Sr No	Title of Idea	Diary no	Status
1	A scientific image processing methodology for a particular focus on single particle reconstruction from transmission electron microscopy (TEM) images is filled successfully.	3041/2022-CO/L	Published
2	Web Intur	23931/2021-CO/L	Published

#### **Book Publications/Pre-prints**

- 1. 2022-Innovation, Business to Society by Redshine Publisher
- 2. 2022-23 Engineering Physics Techknowaldge publication

**Book Chapter Publications/Pre-prints** 

1.Feb:2023 - Redefining Virtual Teaching Learning Pedagogy - Chapter Name and No :16: Performance and Security Issues Management During Online Classes

DOI: 10.1002/9781119867647.ch16

Publisher: Wiley Publisher

2. Feb 2023- Chapter 3 and Name: Blockchain, IoT and AI for Supply Chain Management, Complete Scenario for Supply Chain Management using IoT and 5G

DOI:

Publisher: CRC Press, Talylor and Franchies

Innovation and Research Experience

2012to till date - ParticipationinConference /workshops/Seminars

Convenerofthe"INNOVATIONS-2015"

organizedby

DYPIEMRINTHEMONTHOF

AUGUST2015PROGRAMME**Secretary** 

"FACULTYDEVELOPM

of

#### **ENTPROGRAMMEORGNIZEDBYFIRSTYEAR**

DEPARTMENTOFDYPIEMR2016.

- **❖ Convener** of t h e'PHYLLECH'TECHNICAL EVENT ORGAANIZED BY **FIRSTYEARDEPARTMENTOFDYPCOE2010.**
- ❖ Convenerofthe'ONEDAYSPPULEVELWORKSHOPONEFFECTIVETEACHING METHODOLOGIE IN ENGINEERING SCIENCES' ORGAANIZED BYFIRSTYEARDEPARTMENTOFDYPCOE2011.

- ❖ ConveneroftheFIRSTYEARINDUCTIONANDWELCOMEFUNCTIONPROGR AMMEOFDYPIEMR FROM 2012 TOTILLDATE.
- Presented a poster in National seminar on "Synthesis and structural Properties of ZnOnanomaterials" 2009 organized by Dept. Physics Shivaji University Kolhapur, Ma harashtra, India.
- Presented a paper in International seminar on "Growth and Structural, Optical, ElectricalProperties of Spray deposited Zinc Oxide Thin Films" 2007 organized by Dept. PhysicsDelhiTechnologicalUniversityDelhiSouthcampus,India.(IJW-2007)
- ❖ Presented a paper in International conference on Effect of Dopant on Growth and Structural, Optical, Electrical Properties of Spray deposited Zinc Oxide Thin Films" (ICAMA)-2007organized by Dept. Physics Shivaji University Kolhapur MHIndia.
- PresentedaposterinNationalConference(NS-NHP)on"SynthesisandstructuralProperties of Sn- ZnO nanomaterials" 2007 organized by Dept. of PhysicsYC InstituteSatara, Maharashtra, India.
- Presented a poster in International workshop on "Synthesis and optical Properties of Sn-ZnOnanomaterials" 9to11July 2009organized by National Chemical Baoratory Pune, Maharashtra, India.
- Presented a poster in National Conference on "Synthesis and structural Properties of Sn-ZnOnanomaterials" 2007 organized by Dept. of Physics YCInstitute Satara, Maharash tra, India.
- PresentedaposterinInternationalseminaron"ZnOdyesynthesizedsolarcell"in CommercializationofRenewableEnergytechnology(CRET-2009)organizedbyDYPATILUNIVERSITYKolhapur MHIndia.
- ❖ Presented a paper in International seminar on "Growth and Structural, Optical, ElectricalProperties of Spray deposited boron dopedZnO thin films" organized by Dept. PhysicsShivajiUniversityKolhapur,Maharashtra,India. (NSAM-2010)
- ❖ Presented a poster in National Conference on "Synthesis and growthlead tungstatenanocrystals" 2015 organized by Dept. of Physics YCInstitute Satara, Mahar ashtra, India.
- ❖ PresentedaposterinStatelevelConferenceon"SynthesisandgrowthONEDIMENSI ONAL ZnO NANORODS"2010 organizedbyDept.ofPhysics POONACOLLEGEPUNE,Maharashtra, India
- PresentedaposterinInternationalConferenceon"Synthesisandgrowthonedimensi onalZnO nanorods for fieldemissionapplications"2010 organized by Dept.of

- PhysicsPOONA COLLEGEPUNE, Maharashtra, India (6th-8th MarchICLAM-2010)
- ❖ Presented two posters in Intern national workshop on "Synthesis and WO3 nanocrystalsfor gas sensing and photo dye degradation" organized by National Chemical LaboratoryPuneMHIndiain theyear 2013.
- ❖ Presented a paper in International conferenceon "Effect of anneling on structural andoptical properties of lead tungstate." organized by Dept. PhysicsKarmveer Hire artscommercesciencecollegeGargoti,Kolhapurheldon10<sup>th</sup>March2015Maharashtra ,India.(ETBAS-2015).
- ❖ Presented a paper in International conference on "Supercapacitor performance of WO3nanocrystals." organized by Dept. Physics Mahatma Phule Mahavidyalaya Pune held on12<sup>th</sup>&13<sup>th</sup> March 2016Maharashtra, India. (NCMECS-2016).
- ❖ Presented a paper in International Conference on "Supercapacitor performance of Tidoped WO3 nanocrystals." organized by Dept. Physics SavitribaiPhule Pune UniversityPuneheld on11<sup>th</sup>&15<sup>th</sup>July 2017 Maharashtra, India. (AMDP-2017).

## Training Programme attended:

- ➤ NationalInstituteofTechnicalTeachersTrainingandResearch,Bhopal(MHRD,GovtofIndi a)activelycompeted two weekstrainingin theyear 2016.
- ➤ PresentedapaperonRoleofHigherEducationinthedevelopmentofcountryin2<sup>nd</sup>nationalTeacher sCongress PuneIndiaorganized by MIT-SOGPuneMH–Indiain theYear 2018.
- > Syllabus revisionWorkshop
- > SPPU Engg Physics one day syllabus revision workshop on 2<sup>nd</sup> Augst 2012 at PVG COE Pune MH-India.
- > SPPUEngg Physicsonedaysyllabusrevision workshop on 28<sup>TH</sup>August 2019 PCCOER PuneMH-India.
- > FirstYearTechnicalEventCoordinatorModel,PosterandQuizfrom2012to2020(certificat eattached.)
- > FacultyDevelopmentprogramme:
- > TwoweekFDPconductedonRoleofmathematicalmodelingandstatisticalA nalysisinEngineering.
- ➤ OneweekFDP attendedonVibrationMeasurementandAnalysis from 4<sup>th</sup>Juneto9<sup>th</sup>June2018.
- ➤ OnedayFDP attendon Leadershipskills byDr SapanaSharmaon31st August2013.
- Workas ajuryforcollegelevelrayatinspirsAvishkarintheyear2017.
- > Attendeda7thAnnualmeetofShivajiUniversityPhysicsstudents intheyear2005.
- AttendedashorttimeworkshoponskyobservationheldatVivekanandCollegeKolhapurdatedo n24/01/2004.
- > Attendedathreedays workshoponsystemoperationandmaintenancedatedon5-

➤ Attended a two days AICTE approved seminaron Next generation wireless Technology held at 29-30<sup>th</sup>Jan 2010organized by SmtKashibaiNavalecollegeof EngineeringMH India

# > <u>SPPUAVISHKRARCONTRIBUTION</u>

- Ourprojectonpowergeneration
   fromspeedbreakersystemselectedinstatelevelAvishkarcompetitionorganizedbySPP
   U in theyear2014.(mailandcertificateattached.)
- ➤ ParticipatedinZonallevelAvishkar2018posterpresentedonthetopicsupercapacitor.
- ➤ TotalFDPAttendedin COVID-19Period -10
- > STTP-10
- ➤ NATIONALConference -03
- > InternationalConference-01
  - ✓ MHRDIPR Onlinesessions :15attended
  - ✓ LeadershiptalksbyDrAbhayJere:03
  - ✓ Moodleworkshop/FDP:03
  - ✓ AICTE ATAL FDP: 10
    - MyGovContribution:TotalmygovScore17330
    - IreceivedCertificateofAppreciation
    - \* Submitted projecttoSamadhan
    - ❖ SolvedallMyGovQuizandactivelyparticipatedinallmygovactivities.

# <u>DYPECAPContributionAcademicdutieshandledfromAcademicYearFrom2009Onwards</u> <u>MajorRole:</u>

➤ Workfornew EnggcollegeAICTE,DTELICSPPU Committee

Sr.No	NameofActivity(InDYPCOE)
• 1	Workas areliever inSPPUtheoryexamination
<b>2</b>	Departmentallibrary coordinator
3	DepartmentalStationarycoordinator
<u></u>	DepartmentalWebsitecoordinator
5	FEPTMcoordinator,FEStationarycoordinator
6	GateExamCoordinatingteammember
7	Workforlaboratorydevelopment of DYPCO Eintheyear 2011
8	Workfor electionduties in Kolhapurintheyear 2009,2011,2014
9	All Supervision duties of SPPU theory examination from 2009 totilldate
10	WorkforSupervisiondutiesofSPPUFPLOnlineexamination
11	WorkforGirlsHostel
12	FEWELCOMEFunctionCoordinatingteammember
13	FEUnittestCoordinator
14	Workas aGoodFEClass Teacher

collegelevel activities  TransferredtoDYPCOEtoDYPIEMRintheyear 2011  Workfor Labdevelopment of Engineering Physicsas alabIn chargeandsubjectIncharge(AICTE,DTE,LICcommittees)(Fa ultyRecruitment,equipment, Dead stock)  AlsoworkforEngineeringchemistry,Engineeringmathematics(FaultyRecruitment,equipment, Dead stock)  Work as a UGC Campus level core committee documentationCoordinator  Work as senior supervisor inSPPU theoryexamination May2014(Morningand Evening session)  WorkforSupervisionduties ofSPPUEngineeringPhysicsOnlineexamination  Feterm workcoordinatorFrom 2013totilldate  FEDefaulter coordinatorfor theacademicyear2014-2015  FEtimetable coordinatorFrom2012to2014  Overalltimetablecoordinator ofDYPIEMRfrom 2012totill date  FEGuidelineBookletcoordinatorfrom 2012totill date  FEUnit test coordinator2015  Innovation2015organizingcommitteemember  organizing committee memberof One day work shop	15	Actively participated in all the departmental As well as					
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12 Innovation2015organizingcommitteemember 13 organizing committee memberof One day work shop		FEGuidelineBookletcoordinatorfrom 2012totill date					
organizing committee memberof One day work shop	11	FEUnit test coordinator2015					
	12	Innovation2015organizingcommitteemember					
	13						
		onengineeringsciencesin the year2011					
14 FEtechnicalfestProjectCoordinator	14						

15	supervisorSPPUOPApril2015Examination
16	FEDefaulter Coordinator
17	FETermWorkCoordinator
18	FETermWorkCoordinator
19	LectureMonitoringCoordinatorforSE
20	departmentalBudgetCoordinator,Coordinator
21	Workas Reliever FEOnlinePhaseIandII Engg.Graphics I
22	Coordinator ofProf Kedar Takalkar Seminar for
	careeropportunity
23	WorkforShiksha.com
24	Teacher Guardian
25	FEwelcomefunctioncommitteemember
26	FEParentTeacherMeet committeemember
<b>2</b> 7	BalnachiketVisitcommitteemember
28	WorkforElectionduty.
29	FEResultAnalysiscommittee Member
30	UOPtheoryexam supervisor
31	WorkforNBAdocumentation.
<b>32</b>	EngineeringPhysics Subject andLabIncharge
33	Labdevelopment:ProcementinLabManual
34	WorkforGirlHostelMessVisitingmember
<b>35</b>	DisciplineCoordinatorforCulturalEvent2014,2015-16
36	Workas a InchargeHODForFE
<b>3</b> 7	WorkasaAcademicCoordinattor
38	FESubmissionCoordinator
39	Workas aOrganizingcommitteememberforonedayInnovision
	of SPPUJuly 2015
40	Workfor Roaster
41	Effectivelyworkasagoodteacherclassteacher Mentor
42	Workas aUnittest PrelimCoordinator 15-16semesterI

- > WorkforLabDevelopmentofEngineeringPhysics
- > Procurement of EnggPhysicsequipments
- ➤ Deadstockmaintance
- > PreaparationofLab manual
- ➤ AdmissionWork
- ➤ CoordinatorofSeminarofProfKedarTakalkar2013to2018
- ➤ AdmissionPamphletdistribution5<sup>th</sup>August2012-2018
- ${\red} \textbf{W} ork for Setuand admission enquiry cell.}$

## ❖ INNOVATIONAND INCUBATIONHEAD 2019-TOTILLDATE

- WORKASI/CHODFE
- FENBA8.1Coordinator
- NAA3.3Coordinator
- TeacherGuardianFEdivision
- Recruitmentcommitteemember
- Disciplinecommitteemember
- MissionAdmissioncommitteemember
- SubjectInchargeLabInchargeofEnggPhysics
- FEWelcome Functioncoordinator
- FEWebsite coordinator
- FEAcademicMonitoringCoordinator.

# TeachingExperiencetoUG

Sr. No.	Post	Tenure	Duties			
1.	AssistantProfessor(DYPCOE)	01/07/2009to31/05/20 12	Teaching& Research			
2	AssistantProfessor(DYPIEMR)	01/06/2012totilldate	Teaching &Research			
	SubjectsTaughtandisbeingteaching:					
	APPLIEDPHYSICSANDENGINEERINGPHYSICS					

# 5. Research Guidance:

WorksupervisedtoS.E,T.E&B.E.Projectstudentsforvariouscompetitionslike,sppu-Avishkar

,Aakruti,KpitSparkle,SmartIndiaHackathon,PimpridypcoeGionallinternaland externaltechnicalevent from 2009 to till date

Sr.	Name of Student	Achievement
1 2	Mr. Ayush Agrawal(Pate nt Published)	Received a cash Prize of Rs. 2.5 Lakhs from KPIT fortheProject"ElectricityGeneratingDevicefromthe WasteHeatof GasStove"  RECEIVED60,000RscashprizeinAAKRUTIDesign  context20
3		RECEIVED12,000Rscash prizeinविष्यानसंशाधन पर् स्कार2016 from MAVIPAMUMBAIFUNDEDBY CSIRNEW DELHI

MrAkhildevPillai  Selected in grand finale of AAKRUTI 2015 and got thebest participating college prize with trophy, got goldmedal best paper presentation in GION technical event2016in PimpriDYPCOE	goldmedal best paper presentation in GION	MrAkhildevPillai
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# MsTejshree Shimpi Presented in Statelevel SPPUA vishkar on idead ofMIligram MrBhargavRohit 6 PresentedideaonExtractwaterfromThinAiringran dfinaleofKPITBETTERWORLD compitition

# \*\*Membership:

- LIFE TIME Member of ISTE
- Life member :Marathi VidnyanParishad PUNE region

2017-18.

- MoE Innovation Council
- MyGOV
- Yuva Incubators

# References

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