

CURRICULUM VITAE



❖ Career objective:

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work.

❖ Personal information:

1. **Name** : Dr.Mrs. Shinde Priyanka Sambhaji
2. **Date of Birth** : 28/02/1989
3. **Gender** : Female
4. **Religion and Caste** : Hindu - Maratha
5. **Blood Group** : B+
6. **Nationality** : Indian
7. **Marital Status** : Married
8. **Permanent Address** : At-Jakhinwadi, Post-Jadhavwadi, Tal-Khanapur,
Dist-Sangli, Maharashtra - 415 311
9. **Educational Qualification** : M.Sc.(Physics), SET,Ph.D.
10. **Husband's Name** : Dr. Shinde Sambhaji Shivaji
11. **Father's Name** : Dr. Jadhav Prakash Namdev
12. **Email Address** : posshshinde@gmail.com
13. **Linguistic Ability** : Marathi, Hindi and English

❖ Official information:

1. **Designation** : Assistant Professor in Physics
2. **College** : Rayat Shikshan Sanstha's
Balwant College, Vita
3. **Official Address** : Rayat Shikshan Sanstha's
Balwant College, Vita
Tal – Khanapur, Dist- Sangli
Maharashtra – 415 311.

4.	Date of Appointment	:	From 27 th February,2020 to present day (Sanstha Appointment)
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❖ **Educational qualifications:**

Sr. No.	Name of Degree	Subject	Board/University	Class/Grade	Year of Passing
1.	SET	Physics	UGC/ Savitribai Phule Pune University, Pune (Nodal Agency)	Qualified	2016
2.	Ph.D.	Physics	Shivaji University, Kolhapur	---	2023
3.	M.Sc.	Physics	Shivaji University, Kolhapur	First Class (65%)	2013
4.	B.Sc.	Physics	Shivaji University, Kolhapur	First Class with DIST (83.56%)	2011
5.	D. Pharmacy	---	MSBTE	First Class with DIST (80.10%)	2008
6.	H.S.C	All Sub	Divisional Board, Kolhapur	First Class with DIST (75.67%)	2006
7.	S.S.C	All Sub	Divisional Board, Kolhapur	First Class with DIST (83.46%)	2004

❖ **Teaching experience: -**

1. **Under Graduate Level** : 4 years
2. **Post Graduate Level** : 4 years

Designation	College	Period
Assistant Professor	Rayat Shikshan Sanstha's Balwant College, Vita	From 27/02/2020 to the present day

❖ **Ph.D. Work :-**

Sr. No.	Work Details	Title of Topic
1.	Ph.D.	A Study of Thermal Conductivity of Graphene by Molecular Dynamics Simulations

❖ **Project Work :-**

- 1) M.Sc. Project: Chemical Synthesis of CdS:Ag Thin films for Solar Cell Application
Technology Used: Chemical Bath Deposition method
- 2) Minor Research Project: Calculation of Thermal Conductivity of Silicon Square Nanowire by Nonequilibrium Molecular Dynamics Simulation during the year 2020-21 at Balwant College,Vita

❖ **Research Paper/Poster Presented :-**

- 1) A Paper entitled *A Study of Silicon Dioxide Nanowire by Molecular Dynamics Simulations: Influence of Interatomic Potentials and Boundary Conditions* is presented at International conference held on 5th and 6th January, 2019 at Balwant College, Vita.
- 2) A Paper entitled *Numerical Methods to investigate thermal conductivity of Graphene* is presented and got **First Prize in Teachers' Category** at one day national conference held on 20th January, 2019 at Jaysingpur College, Jaysingpur.
- 3) Presented a Poster entitled "*Interatomic Potentials for studying molecular dynamics simulations of Graphene*" in the one day national conference on "Recent Trends in Chemistry and Materials Science (RTCMS-2019) held at Shivaji University, Kolhapur on 9th February, 2019.
- 4) A Paper entitled "*Effect of Temperature on Thermal Conductivity of Silicon Germanium Square Nanowire by using Non equilibrium Molecular Dynamics Simulations*" is presented at International Conference in Advanced Materials,(ICAM), Nirmalagiri College, Kannur,Kerala on 12th-14th June 2019.

- 5) A paper entitled “Thermal Conductivity of Quartz by Molecular Dynamics Simulation Method” is presented in One Day International Interdisciplinary conference on "Recent Trends in Skills & Entrepreneurship Development in Commerce, Management, Social Sciences & Technology on 20 February 2020 at Balwant College, Vita.
- 6) Participated and presented a paper entitled “*Calculation of Thermal Conductivity of Silicon Square Nanowire by Nonequilibrium Molecular Dynamics Simulation*” in the Sixth International Conference on Advances in Materials Science (Online) (ICAMS 20 21) organized by Post Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath 416 404, Dist Sangli, Maharashtra, India during 23rd-24th April 2021.
- 7) Participated and presented research paper entitled “*Molecular Dynamics Simulations Of Phonon Density Of States Of Graphene And Graphene With Stone-thrower-wales Dislocation At Tersoff And AIREBO Potential*” in 3rd International Multidisciplinary Conference on Emerging Trends in Humanities, Commerce, Management, Science and Technology (IMCET-2021) organized by the Balwant College, Vita Dist. Sangli (MS) on 23rd –24th December 2021
- 8) Participated and presented research poster entitled “Thermal and Electrical properties of GFET” for Avishkar Competition 2022-23 at university level under TH category.
- 9) Participated and presented research paper entitled “Temperature Domain Thermal Conduction in Graphene” in Two day international conference on “Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA-2023) held on 20-21 March 2023 organized by Department of Physics, Chemistry and Electronics in collaboration with IQAC and Student Teacher Research Cell under the aegis of RUSA Component 8 of Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur.
- 10) Participated in one day national conference on Advances in Functional and Sustainable materials (AFSM-2022) on 8th April 2022 and presented book chapter entitled “Nanoscale Thermal and Electrical Transport in Graphene Field Effect Transistor” held at Sadguru Gadage Maharaj College, Karad.

❖ **Book Chapter Published:**

Published a book chapter named “Temperature Domain Thermal Conductivity Engineering of One-Dimensional Silicon Square Nanowire” in Recent Advances in Fabrication Technology of Nanomaterial’s (ISBN: 978-81-956739-3-3)

❖ **Research Papers Published :-**

- 1) “*A Study of Silicon Dioxide Nanowire by Molecular Dynamics Simulations: Influence of Interatomic Potentials and Boundary Conditions*” (2019) International Journal of Research and Analytical reviews ISSN 2348-1269,60-63
http://ijrar.com/uploads/conference/ijrar_51.pdf
- 2) “*Effect of Temperature on Thermal Conductivity of Silicon Germanium Square Nanowire by using Non equilibrium Molecular Dynamics Simulations*” (2019) AIP Conference Proceedings; 2162, 020038
<https://aip.scitation.org/doi/abs/10.1063/1.5130248>
- 3) “*Thermal Conductivity of Quartz by Molecular Dynamics Simulation Method*” Aayushi International Interdisciplinary Research Journal (AIIRJ) (2020) Special Issue 68, ISSN-2349-638x, 125
<http://aiirjournal.com/uploads/Articles/1585656599Vita%20College%20Special%20Issue%2068%20FINAL%20FILE.pdf>
- 4) “*Calculating Thermal Conductivity of Graphene by Molecular dynamics Simulation Methods*” Aayushi International Interdisciplinary Research Journal (AIIRJ) (2020) Special Issue 68, ISSN-2349-638x, 125.
<http://aiirjournal.com/uploads/Articles/1585656599Vita%20College%20Special%20Issue%2068%20FINAL%20FILE.pdf>
- 5) “*Phonon Spectrum of Distorted Graphene with Stone-Wales Dislocations at Tersoff and AIREBO Potential*”(2022)Bulletin of environment, Pharmacology and Life sciences ISSN:2277-1808, Spl Issue [1] 2022 : 1476-1483
[https://bepls.com/special_issue\(1\)2022/220.pdf](https://bepls.com/special_issue(1)2022/220.pdf)

❖ **Active Participation in Workshops/Conferences/Symposia :-**

- 1) Participated in one day workshop on “Joy of Learning Science through Experiments” as Member of Organizing Committee held at Balwant College, Vita on Thursday, 27th December, 2018.
- 2) Participated in one day Poster Presentation Competition on occasion of Sir Thomas Edison & Charles Darwin’s Birth Anniversary as Member of Organizing Committee held at Balwant College, Vita on 20th January, 2018.
- 3) Participated in State Level Workshop on “New Horizon-Joy of Learning Physics” held at Department of Physics, Sanjay Ghodawat University, on Tuesday, 23rd January, 2018.
- 4) Participated as delegate in two day International conference on “Advances in Pure and Applied Sciences” (ICAPAS-2019) held at Balwant College, Vita on 5th and 6th January, 2019.
- 5) Participated in 4th International Conference on “Physics of Materials and Materials Based Device Fabrication” (4th ICPM-MDF) held at Department of Physics, Shivaji University, Kolhapur on 10th & 11th January, 2019.
- 6) Participated in the one day national conference on “Science and Technology for Sustainable Development” held at Jaysingpur College, Jaysingpur on 20th January, 2019.
- 7) Participation in one day state level workshop on “New Horizon – Joy of Learning Physics” held at Department of Physics, Sanjay Ghodawat University, Kolhapur on Monday, 4th February, 2019.
- 8) Participated in the one-day national conference on “Recent Trends in Chemistry and Materials Science (RTCMS-2019) held at Shivaji University, Kolhapur on 9th February, 2019
- 9) Participated in Three-day international conference on “Advanced Materials” held at Nirmalagiri College, Kannur, Kerala on 12th June to 14th June, 2019
- 10) Actively participated in two-day national level workshop on “Latex” held at Annasaheb Dange College of Engineering and Technology on 05th and 06th July, 2019.
- 11) Successfully completed Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS conducted by Teaching Learning Centre, Ramanujan College, University of Delhi (under aegis of MHRD & PMMNMTT) on April 20 to May 06, 2020
- 12) Actively participated in " Enhancing Research Effectiveness using Scopus, Sciencedirect and Mendeley " for the Faculty of Universities/Colleges/Institutes FACULTY DEVELOPMENT CENTRE, KURUKSHETRA UNIVERSITY, KURUKSHETRA IN

COLLABORATION WITH ELSEVIER (Under the Aegis of PMMMNMTT, MHRD, Govt. of India) on 1 May 2020

- 13) Successfully completed One Week National Online Faculty Development Program on “ICT Tools for Effective Teaching Learning” by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded on 27th April to 2nd May 2020.
- 14) Successfully completed 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" Teaching Learning Centre, Ramanujan College, University of Delhi (Under the Aegis of PMMMNMTT, MHRD, Govt. of India) dated June 04 to July 01, 2020.
- 15) Worked as Co-ordinator for National Level e-poster presentation competition on Post COVID Examination and Education Reforms: Students Perspective by Department of Physics, Balwant College, Vita dated 31 May 2020.
- 16) Worked as Organizing Secretary in National Online Seminar on "Recent Trends in Materials Research" by Department of Physics, Balwant College, Vita on 29 July 2020.
- 17) Minor Research Project entitled “Calculation of Thermal Conductivity of Silicon Square Nanowire by Nonequilibrium Molecular Dynamics Simulation” submitted by Mrs. Priyanka Sambhaji Shinde to the Research Committee of Balwant College, Vita during academic year 2020-21.
- 18) Actively participated in Online training program “Educational Video Creation: E-Content Development” Collaboratively organized by the Department of English, Department of Fishery Science and Department of Geology of Toshiwal Arts, Commerce and Science College, Sengaon, Dist. Hingoli, Maharashtra, India from 11th to 13th May 2020
- 19) Actively Participated in Webinar on “Opportunities of Higher Education and Job for B.Sc Physics Students” by Raje Ramrao Mahavidyalaya, Jath on 31 st May 2020.
- 20) Worked as organizing committee member of One Day Online Workshop Organised by Department of Physics, “New Changed Syllabus (CBCS Pattern) of B.Sc.-III Physics Laboratory Experiments” by Department of Physics, Balwant College, Vita on 1st February 2021.
- 21) successfully completed FACULTY DEVELOPMENT PROGRAMME on “E-CONTENT DEVELOPMENT & ONLINE TEACHING” from 07 February, 2021 - February 14, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.

- 22) Worked as organizing secretary for State Level Webinar on “Competitive Examination and Role of Women in Administrative Services” by Ladies Welfare Committee, Department of Physics and Competitive Examination Cell of Balwant College Vita on 8 March 2021
- 23) participated and presented a paper entitled Calculation of Thermal Conductivity of Silicon Square Nanowire by Nonequilibrium Molecular Dynamics Simulation in the Sixth International Conference on Advances in Materials Science (Online) (ICAMS 20 21) organized by Post Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath 416 404, Dist Sangli, Maharashtra, India during 23rd -24th April 2021
- 24) successfully completed one week Faculty Development Programme on “QUALITATIVE DATA ANALYSIS” from April 27 - 03 May, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- 25) successfully completed one week Faculty Development Programme on “Academic Writing” from 10 - 16 May, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- 26) Worked as organizing secretary and organizing committee member of “Opportunities to develop Research career in basic sciences” organized by department of physics and IQAC of Balwant college, vita held on 12,13 and 14 July 2021.
- 27) Actively participated in “7th LAMMPS WORKSHOP AND SYMPOSIUM” held virtually on 10 to 13 August 2021 by Temple University, Philadelphia, Pennsylvania, United States.
- 28) Worked as a Co-ordinator for “Online Rangoli Competition” on the occasion of birth anniversary of padmabhushan Dr.Karmaveer Bhaurao Patil dated 20 September 2021 in Balwant College, Vita.

- 29) Worked as Co-ordinator for “Sharad Shakti: Women Empowerment and Emancipation Programme on the Topic “FIRST WOMAN DOCTOR: DR.ANANDIBAI” organized by Department of Physics in collaboration with IQAC,Balwant College,Vita on 16 October 2021.
- 30) successfully completed ONLINE TWO - WEEK REFRESHER COURSE IN “PHYSICS” from 27 October – 10 November, 2021 and obtained Grade A+ organized by Teaching Learning Centre, Ramanujan College,University of Delhi in Collaboration with DEPARTMENT OF PHYSICS Harish Chandra Post Graduate College, Varanasi, Uttar Pradesh And DEPARTMENT OF PHYSICS,Hemvati Nandan Bahuguna Garhwal University, Srinagar, Garhwal, Uttarakhand under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- 31) Worked as organizing committee member and anchor in 3rd International Multidisciplinary Conference on Emerging Trends in Humanities, Commerce, Management, Science and Technology (IMCET-2021) organized by the Balwant College, Vita Dist. Sangli (MS) on 23rd –24th December 2021
- 32) Participated and presented research paper entitled “Molecular Dynamics Simulations Of Phonon Density Of States Of Graphene And Graphene With Stone-thrower-wales Dislocation At Tersoff And Airebo Potential” in 3rd International Multidisciplinary Conference on Emerging Trends in Humanities, Commerce, Management, Science and Technology (IMCET-2021) organized by the Balwant College, Vita Dist. Sangli (MS) on 23rd –24th December 2021
- 33) Actively participated in the One Day Online State Level Workshop on “ Reading Culture, Research and Research Ethics” Jointly organized by Balwant Library and IQAC Under Lead College Activity held on Saturday, 29 January 2022.
- 34) Worked as organizing committee member and anchor in one day Workshop On “Experimental Physics” Under Lead College Activity organized by Department of Physics of Balwant College, Vita held on 12 January 2022.
- 35) Worked as organizing committee member for one day national online webinar on “Online University Examination Updates” organized by IQAC,Examination Department,Department of mathematics and Statistics dated 12th February 2022.
- 36) Worked as a coordinator for National Level Workshop on “Stellar Evolution & Astronomy-Pathway towards Professional & Amateur Astronomer "organized by department of Physics dated 03 March 2022

- 37) Worked as a coordinator for One day State level Webinar on “Awareness of Conscience through Pasayadana” dated 24 March, 2022 organized by Vivekvahini Committee, Balwant College, Vita
- 38) Successfully completed ONLINE TWO - WEEK REFRESHER COURSE IN “PHYSICS” from 10- 24 April, 2022 and obtained A+. organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with K.L.E. SOCIETYS S.K. ARTS COLLEGE AND H.S.K. SCIENCE INSTITUTE, VIDYANAGAR HUBBALI, KARNATAKA under the aegis of MINISTRY OF EDUCATION, PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- 39) Successfully participated in IP Awareness/Training programme under national intellectual property awareness mission on 14 March 2022 organized by Intellectual property office India.
- 40) Participated in one day national conference on “Advances in functional and sustainable materials (AFSM-2022) dated Friday 8th April, 2022 at Sadguru Gadage Maharaj college, Karad.
- 41) Participated in one day workshop under lead college scheme and functional MoU activities in association with Indian association for Radiation protection, BARC, Mumbai on “Beneficial Effects of radiation Technology and Indian Nuclear Energy Programme” at Sadguru Gadage Maharaj college, Karad at 30 April, 2022.
- 42) Worked as a coordinator of career oriented course in “Information and Computer Technology” conducted in Balwant college, Vita.
- 43) Worked as a coordinator for Student development Program on “Python 3.4.3” in Balwant college, Vita in collaboration with Spoken Tutorial IIT Bombay from 28 march to 28 April, 2022.
- 44) Worked as a resource person for Guest lecture on “Interview Techniques” organized by department of Physics, Balwant College, Vita dated 27 April 2022
- 45) Worked as a organizing secretary for one day workshop on “NET SET Preparation and Career Opportunities in Physics” on 14 May 2022.
- 46) Worked as a Co-ordinator for the Women Empowerment programme scheduled under lecture series of “SharadShakti: Women Empowerment and Emancipation Programme” dated 29 September 2022.

- 47) Actively participated and presented research paper named “Molecular Dynamics Simulation of Thermal Transport in Graphene Nanosheet” in a Two day international conference on Innovation in Smart & Technomaterials (ICISTM-2023) on 16-17 January 2023 organized by Department of Physics, sadguru Gadage Maharaj College, Karad.
- 48) Worked as Co-coordinator for one day national conference on “Recent Advances in Fabrication Technology of Nanomaterials (RAFTN-2022) on 28 December 2022.
- 49) Worked as co-ordinator for one day workshop on “MATLAB Programming and Applications” on 21 March 2023 organized by department of physics under lead college, activity.
- 50) Worked as a organizing secretary for the one day workshop (Hybrid Mode) on NET/SET Guidance and Career opportunities in Physics dated 24 March 2023 organized by Department of Physics of Balwant College, Vita under Lead College Activity.
- 51) Actively participated and presented research paper “Temperature Domain Thermal Conduction in Graphene” in Two day International Conference on “Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA-2023) held on 20-21 March 2023.
- 52) Successfully completed two week online interdisciplinary refresher course in “Advanced Research methodology” from 22 August to 5 September 2023 organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Hindu College, Moradabad Affiliated to M. J. P. Rohilkhand University, Bareilly, and Gokul Das Hindu Girls College, Moradabad Affiliated to M. J. P. Rohilkhand University, Bareilly, under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- 53) Worked as Co-coordinator for “Beneficial Effects of Radiation and Nuclear Energy Programme” on 2 December 2023 organized by Indian Association for Radiation Protection (IARP), BARC, Mumbai.

❖ **Technical skills :-**

- MS-CIT
- Proficiency in Computerized Accounting (Tally 9.0)
- Certificate course in Information and Computer Technology

❖ **Field of interest :-**

- Thin Films, Solar Cells, Computational Material Science, and Solid State Physics

❖ **Personal strengths :-**

- Self-Confidence and Hard Working

❖ **Declaration:-**

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Date :-

Place:- VITA

Dr.Mrs. SHINDE PRIYANKA SAMBHAJI