


**Rayat Shikshan Sanstha's**  
**Arts, Science and Commerce College, Ramanandnagar (Burli)**  
**Department of Physics**

**Faculty Profile**

**Personal Details:**

	<p><b>Name-:</b> Dr. Ms. Raut Vanita Shivaji</p> <p><b>Qualification:</b> M.Sc. Ph.D., SET, B.Ed.</p> <p><b>Designation:</b> Assistant Professor</p> <p><b>Department:</b> Physics</p> <p><b>Specialization:</b> Solid State Physics</p> <p><b>Experience:</b> 12Yrs.</p> <p><b>Contact NO:</b> 9970636213</p> <p><b>Email. Id:</b> vanitaghanwatphy@gmail.com</p>
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**Academic Details:**

**Ph.D.:** 2018, Shivaji University, Kolhapur

**M.Sc.:** 2003, Shivaji University, Kolhapur

**B.Sc.:** 2001, Shivaji University, Kolhapur

**Any others:** GATE - 2006 and 2007

**Positions Held:**

At University Level	At College Level
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**Research Details:**

- **M.Phil/Ph.D. Title:** “Studies on chemical synthesis and characterization of Indium doped CdSe thin films for use in solar cells”

**Research Guide:**

	Students working	Awarded
M.Phil.	----	----
Ph.D	----	----

➤ **Research Publication Presentations:**

	State/University	National	International
Paper Published in national & international Journals	-----	-----	<b>04</b>
Paper /Posters Presented In National & International Conferences/ Symposia/Seminars/ Workshops		<b>05</b>	<b>08</b>
College/University/State/National/ International Conferences/Symposia /Seminars/Workshops Attended	<b>18</b>	<b>20</b>	<b>12</b>
Reference Books/Text Books Chapter Published	-----	-----	-----

➤ **Research Projects:**

	Ongoing	Completed
Major Research Project	-----	-----
Minor Research Project	-----	----

➤ **Skills & Expertise:- Synthesis of thin film by various chemical methods.**

**Research Publication and presentations:**

No. of Publications	Impact factor/ISSN/ISBN no.	Title of paper	Name of Journal
07	2.324	Synthesis and studies on effect of indium doping on physical properties of electrodeposited CdSe thin films	Journal of Materials Science: Material in Electronics
	3.235	Photo electrochemical studies on electrodeposited indium doped CdSe thin films using aqueous bath	Journal of electroanalytical chemistry
	2.324	Facile synthesis of Cu <sub>2</sub> SnS <sub>3</sub> thin films grown by SILAR method:Effect of film thickness	Journal of materials science: material in electronics
	1.74 ISSN no 0974 3154	Studies on effect of pH on structural, optical and morphological properties of chemisynthesized CdSe grains	International journal of engineering research and technology (IJERT)
	ISBN:978-81-927211-2-8	Effect of indium doping on the structural and morphological properties of CdSe thin films	Proceeding National seminar on “Emerging trends in basic sciences”
	978-81-927211-2-8	Study on effect of thickness on the structural, morphological and optical properties of Cu <sub>2</sub> SnS <sub>3</sub> thin films prepared by CBD method.	Proceeding National seminar on “Emerging trends in basic sciences”
	2348-1269	Studies on consequences of temp on the physical properties of CdSe thin films synthesized using chemical bath deposition method.	International journal of research and analytical reviews

1. Presented research paper entitled “Consequence of indium doping on photoelectrochemical modifications of chemisynthesized CdSe thin films”. Won **Best Oral Presentation award (3rd rank)** in the **two days International E- Conference** on Cutting Edge Smart Materials & Nanotechnology (ICCESMN-2020) held on 20-21 August 2020 organized by Department of Physics, Collaboration with IQAC, Sadguru Gadage Maharaj College, Karad, Dist- Satara, Maharashtra, India.
2. Presented research paper entitled “ Studies on chemical synthesis and electrochemical impedance spectroscopic studies of indium doped CdSe thin films”, **Won Best Oral Presentation award (3rd rank)** in the **2 days International web-Conference** on Advanced Nanostructured Materials for Energy Generation, Storage and Smart Applications (SPMCANM20) held on 9-10 October 2020 organized by Department of Physics, Sharadabai Pawar Mahila, Arts, Commerce and Science College Sharadanagar, Baramati, Maharashtra, India.