

## CURRICULUM VITAE

Name: **DR. SAMRAT HANAMANTRAO MANE**

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Date of Birth: May 01, 1978.

Age: 42 Years

Sex: Male

Nationality: Indian

Religion: Hindu

Caste: Maratha

**Teaching Experience:** Under Graduate -14yrs Postgraduate – 12 month

**Research Experience** : 10 yrs

**Educational Qualification:** M.Sc. Ph. D.

**Extra Curriculums:**

- A successful project on '*Day date computer*' at M.Sc.
- Guided As a research Avishkar Research Project

**Experience:**

No.	Name of Institution	Class Taught	Designation	Period	
				From	To
1.	Solapur University	M.Sc.	Contributory	2004	2005
2.	Yashwantrao Chavan College of Science, Karad	B.Sc.	C.H.B.	2005	2006



3.	Balasaheb Desai College, Patan	B.Sc.	C.H.B.	2005	2007
4.	Dr. Patangrao Kadam Mahavidyalaya, Sangli	B.Sc.	C.H.B.	2006	2007
5.	D.B.J. College, Chiplun	B.Sc.	C.H.B. (Full Time)	2007	2008
6.	RIT,	FE	Asso. Professor	2008	2009
7.	G. I.T., Lavel	FE, TE	Asso. Professor	2009	2010
8.	D.B.J. College, Chiplun	B.Sc.	Assistant Professor	Onwards 02 Dec 2010	

#### Academic Award / Scholarships / Honors

1. Bravery award of Solapur University, Solapur - year 2003-04.
2. Department Research Fellow by Shivaji University, Kolhapur, India 2002-03
1. Research supervisor/ Guide in the subject Physics of Shri. JJT University
2. P.G. Recognition of Mumbai University, Mumbai.

#### Research Schemes Undertaken:

Sr. No.	Topic	Funding agency	~ Budget in Rs.	My role	Sanction letter no.
1.	Synthesis and characterization of CdTe Based Nanomaterials	UGC	1,80,000/-	P.I.	47-439/12(WRO)

	for Photodector Application				
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### Training / Refresher / Orientation courses completed

No	Period	Organized by	Theme
01	7 days, Jan 2009	NIITTTR, BHOPAL	Teaching and learning
02	20/12/2013  To  16 /01/2014	UGC- Academic Staff College, Sant Gadge Baba Amravati University, Amravati	23 <sup>rd</sup> O.P.
03	03/12/2014  To  23/12/2014	UGC- Academic Staff College, Bharathiar University, Coimbatore	R.C.

### Work as a co-coordinator / Convener

#### Workshop

No	Date(s)	Organized by	Theme
01	23 <sup>rd</sup> Jan. 2013	BARC , INSA and D.B.J. College, Chiplun	Science for Society

### Work at university level Examination Work

No	Designation	Class	Contribution
01	External Examiner	B.Sc.I, II	Practical
02	Examiner(Assessment), Paper Setter	B.Sc. II	Theory

03	Internal examiner	B.Sc. I, II	Practical
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### Involvement in Educational and Extracurricular Activities of the College

1	Member	Science Association
2	Member	National Service Scheme
3	Member	Sports (Gymkhana)
4	Member	Discipline committee
5	Member	Cultural Activities Committee
6	Member	V.K.Mandal
7	Member	Natures Club

### Students centered activities Carried

1	Guidance batch
2	Project
3	Physics Quiz

### Teacher Organization

#### a) Academic Organization

No	Designation	Institute	Level
1	Member	BUCTU	University

### Community services

No	Designation	Name	Contribution
01	President	Swaraj Kala, Krida, Sanskruti	Swaraj Gunavata Puraskar, Science Exhibition, Blood Donation, Essay Writing Competition

		& Education Prabhodhini, Khanapur	
04	Member	Sanghrsha Mitra Mandal, Khanapur	Social activities

### Research Publications:

#### ➤ Journal Publications:

1. A study of cadmium mercury telluride (CMT) thin films structures: Some physical observations and Characteristics.

*S.H.Mane*, V.B.Pujari, V.S.Karande, and L.P.Deshmukh, J. Mat. Sci.: Mat. In Elect., 16(2005) 733.

2. The Electrochemical Studies Of Chemically Cd<sub>1-x</sub>Hg<sub>x</sub>Te Deposited (CMT) Thin Films

*S.H.Mane*, V.S.Karande, and L.P.Deshmukh, Mater. In Letters (communicated).

3. Structural, optical and Thermo-electrical properties of chemically deposited CdTe thin Films,

*S.H.Mane*, V.S.Karande, and L.P.Deshmukh, J.Crystal Growth (communicated).

4. Growth Mechanism and Properties of Cd<sub>1-x</sub>Mn<sub>x</sub>Se Semi magnetic Semiconductor Thin Films.

V.S.Karande, *S.H.Mane*, V.B.Pujari , and L.P.Deshmukh, Turk J. Phys., 27(2003).559-567.

5. Electrochemical studies of n-Cd<sub>1-x</sub>Mn<sub>x</sub>Se thin film photodetector,

V.S.Karande, *S.H.Mane*, A.R. Wadgaonkar, and L.P.Deshmukh, J. Mat. Sci. : Mat. In Elect., 15(2004).

6. (Cd,Mn) Se Semimagnetic Semiconductor Thin Films: Growth From Solution, Analysis and Optical Properties,

V.S.Karande, **S.H.Mane**, V.B.Pujari , and L.P.Deshmukh, Material Letters., 59 (2005)148.

7. CdSe: Sb electrode for photoelectrochemical applications,

E.U.Masumdar, **S.H.Mane**, V.S.Karande, V.B.Pujari , P.N. Bhosale and L.P.Deshmukh, J. Mat. Sci. : Mat. In Elect., 14 (2003) 43-48.

8. Mercury-Cadmium Selenide thin film layers: structural, microscopic and spectral response studies,

V.B.Pujari, **S.H.Mane**, V.S.Karande, and L.P.Deshmukh, Mat. Chem and Phys.,83(2004) 10.

9. An electrochemical visible radiation detector with pseudo-binary  $Hg_xCd_{1-x}Se$  thin films,

V.B.Pujari, V.S.Karande, **S.H.Mane** , and L.P. Deshmukh, Chem. Phys., (In press).

➤ **Seminars/ conference/ workshop Symposia:**

1. The  $Cd_{1-x}Hg_xTe$  Films: Chemical synthesis and properties,

**S.H.Mane**, V.S.Karande, A.R. Wadgaonkar, and L.P.Deshmukh, NSC XXXIII.,National Chemical Laboratory, Pune, M.S., India, 8-10 Jan., 2004.

2. Studies on Nanocrystalline (Cd, Hg) Te Detector Thin Films

**S.H.Mane**, V.B.pujari, V.S.Karande, J.S.dargad, E.U.masumdar and L.P.Deshmukh, National Seminar on Science and Technology of Thin Films (NSSTF-2004), RSM, Latur MS., India16-17 Oct, 2004.

3. Photoelectrochemical studies of chemically deposited CMT thin films,

**S.H.Mane**, V.B.pujari, V.S.Karande, J.S.dargad, E.U.masumdar and L.P.Deshmukh, International Conference on Electrochemical Power Systems-2, Hyderabad, India., 20-21, Dec.,2004.

4.  $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$  semimagnetic semiconductor thin films: Growth mechanism and some properties,

V.S.Karande, **S.H.Mane**, V.B.Pujari and L.P.Deshmukh, RARE-T- 2002, Shivaji Univesity, Kolhapur. M.S. India.

5. Some properties of  $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$  diluted semiconductor thin films,

V.S.Karande, **S.H.Mane**, V.B.pujari, J.S.dargad, E.U. Masumdar and L.P.Deshmukh, NSI-27 at Bharathiar University, Coimbatore, during 27-29 Nov., 2002.

6.  $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$  ( $0 \leq x \leq 0.5$ ) thin film semimagnetic semiconductor for photodetector Applications,

V.S.Karande, **S.H.Mane**, A.R. Wadgaonkar and L.P.Deshmukh, Indo-Japan Symposium On Adv. In Electronic Materials, Nov. 06, 2002 (High Rank Oral Presentation).

7. (Cd, Mn) Se Semimagnetic Semiconductor Thin Films : Growth From Solution Structural Analysis And Optical Properties,

V.S.Karande, **S.H.Mane**, V.B.pujari and L.P.Deshmukh, ISCGTIEM,, University of Mysore, Jan.20-27, 2003.

8. (Cd, Mn) Se Semimagnetic Semiconductor Thin Films : Growth From Solution Structural Analysis And Optical Properties,

V.S.Karande, **S.H.Mane**, V.B.pujari and L.P.Deshmukh, NSC XXXIII, National Chemical Laboratory, Pune MS., India, 8-10 Jan.2004.

9. Study of CdSe: Sb / electrolyte interface cells,

E.U.Masumdar, V.B.Pujari, V.S.Karande, **S.H.Mane**, and L.P.Deshmukh, India Japan Workshop On New Advanced Materials In Molecular electronics, SSPL, New Delhi, India, Dec., 10-11, 2001.

10. Structural, optical and photoelectrochemical properties of chemically deposited CdSe:Sb thin Films,

E.U.Masumdar, V.B.Pujari, *S.H.Mane*, V.S.Karande and L.P.Deshmukh, India Japan Workshop On New Advanced Materials In Molecular electronics, SSPL, New Delhi, India, Dec., 10-11, 2001.

11. CdSe: Sb thin films: Growth and characterization,

E.U.Masumdar, V.B.Pujari, *S.H.Mane*, V.S.Karande and L.P.Deshmukh, 5<sup>th</sup> National Conference On Solid State Ionics, Nagpur University, M.S., India Feb. 15-17, 2002.

12. Microcrystallographic investigations on (Cd, Hg) Se thin film structures,

V.B.Pujari, S.H.Mane, V.S.Karande, E.U.Masumdar, , and L.P.Deshmukh, National Symposium on Instrumentation, Deharadun, India Oct31-Nov-2, 2001.

13. Hg<sub>x</sub>Cd<sub>1-x</sub>Se thin film electrode for photoelectrochemical applications,

V.B.Pujari, *S.H.Mane*, V.S.Karande, E.U.Masumdar, and L.P.Deshmukh, India Japan Workshop On New Advanced Materials In Molecular electronics, SSPL, New Delhi, India, Dec., 10-11, 2001.

14. Photoelectrochemical investigations on n-CdSe<sub>1-x</sub>Te<sub>x</sub> thin films,

P.D.more, V.S.Karande, *S.H.Mane*, E.U.Masumdar, L.P.Deshmukh and P.N.Bhosale, National Symposium on Science and technology Vacuum and Thin Films, Indian Institute of Science, Bangalore, India Sept. 5-7, 2001.

15. A study of Cd(S, Te) thin films: Applications in thin film photovoltaic cells,

V.B.Patil, V.S.Karande, *S.H.Mane*, G.S.Shahane, and L.P.Deshmukh, Proc. National Symposium on Science and technology Vacuum and Thin Films, Indian Institute of Science, Bangalore, India Sept. 5-7, 2001.

16. Photoelectrochemical investigations on CdS<sub>0.9</sub>Te<sub>0.1</sub> thin films: Effect of film thickness,

V.B.Patil, V.S.Karande, *S.H.Mane*, G.S.Shahane, and L.P.Deshmukh, Proc. India Japan workshop On new Advanced Materials in Molecular Electronics, National Physical Laboratory, New Delhi, India. Dec. 10-11, 2001.



17. Optical and structural studies on CdSe: Sb thin films,

E.U.Masumdar, V.B.Pujari, J.S.Dargad, **S.H.Mane**, V.S.Karande, , and L.P.Deshmukh, National Symposium on Instrumentation, Deharadun, India Oct31-Nov-2, 2001

18. Structural and electrical properties of  $Cd_{1-x}Mn_xSe$  thin films: A correlation,

V.S.Karande, V.B.pujari, E.U.masumdar **S.H.Mane**, and L.P.Deshmukh, National Seminar on Science and Technology of Thin Films (NSSTF-2004), RSM, Latur, MS., India16-17 Oct, 2004.

19. The fabrication Details and Physical Studies of CdMnS Dilute Magnetic Semiconductor Thin Layers,

J.S.dargad, V.B.pujari, A.D. Kalkote, **S.H.Mane**, V.S.Karande, and L.P.Deshmukh, National Seminar on Science and Technology of Thin Films (NSSTF-2004), RSM, Latur MS., India16-17 Oct, 2004.

20. Photovoltaic properties of n-CdMnSe thin film photoelectrodes,

V.S.Karande, **S.H.Mane**, V.B.Pujari, J.S.Dargad, and L.P.Deshmukh, International Conference on electrochemical Power Systems (ICEPS-2), Hyderabad, India Dec. 20-21, 2004.

21. Electrochemical studies of chemically deposited  $Cd_{1-x}Hg_xTe$  (CMT) thin films,

Dr. S.H.Mane, R.H. Mane, S.T. Mane and L.P. Deshmukh, II<sup>nd</sup> International Conference on Nanotechnology, Innovative Materials, Process, Products and Applications at BVP, Pune, India, Oct. 18-19, 2012.

22. Studies on Nanocrystalline Cadmium Mercury Telluride Thin Film,

Dr. S.H.Mane, R.H. Mane, and L.P. Deshmukh, National Seminar on Chemistry and its role in human development (NSCRHD12), DR. Patangaro Kadam Mahavidyalaya, Sangli, India, March 26, 2012.

23. The Effective Teaching and Learning Methods in Science Education,

Dr. S.H. Mane, National Conference on Advanced techniques and teaching and learning in Higher Education (NCOTLIHE), Vishwasrao Naik, Arts, Commerce and Baba Naik Science Mahavidyalaya, Shirala, India, Jan 6, 2012.

24. National conference on Syllabi Design-Theory and practice, D.B. J. College, Chiplun, India, Feb.8-9, 2013.

25. One day workshop on Environmental studies- As subject introduced in the Curriculum of Mumbai University at third year engineering level with effect from the forthcoming academic year 2009-2010, Thadomal Sahani Engineering College, TPS III, Bandra (W), Mumbai, India, 18<sup>th</sup> July 2009.

26. Preparation and Some Characterization of Polycrystalline Cadmium Mercury Telluride Photocell

Dr. S.H.Mane, S.T. Mane, III<sup>rd</sup> International Conference on Nanotechnology, Smart Materials, Composites, Applications and New Inventions at BVP, Pune, India, Oct. 14-15, 2014.

27. Morphological and Compositional Studies of TiO<sub>2</sub> Thin Films Sensitized by Natural Dye from Tagetes Erecta, (**BEST PAPER PRESENTATION AWARD**)

R.H.Mane, S.H.Mane, National Conference Y.C.I.Sc. Satara., India., 10 &12 Oct. 2013.

28. One day workshop on “Revision Of Undergraduate Syllabus” held on Tuesday 22<sup>nd</sup> April 2014 at Gogate Jogalekar College, Ratnagiri. Maharashtra, India.

29. One day work shop on API, Margtamhane, India,

30. Fabrication of Dye-Sensitized Solar Cells using Tagetes erecta flower extracts as a Photosensitizer, (**BEST PAPER PRESENTATION AWARD**)

R. H. Mane, S. H. Mane, P. S. Patil, P. N. Bhosale, S. R. Mane

III<sup>rd</sup> International Conference on Polymer Processing and Characterization, Kottayam. Oct. 14-15, 2014.

**Dr. S.H.Mane**

**Department of Physics**

**Report of activity and achievement during Lockdown period**

1. International webinar on Nanomaterials for smart and sustainable energy solutions (NSSSES) 8th June 20,
2. E-Learning tools for moocs and creation of own moocs courses, on dated 11 June to 16th June 20.
3. National webinar on recent trends in civil engineering on 7th June, organized by Department of civil engineering R.B.S. Engineering Technical Campus Agra.
4. online webinar on Introduction of energy management Audit and certification exam on 6th June 20. organized by Department of mechanical engineering of Mahavir College of Engineering
5. Cooperative learning pedagogy 4 weeks moockit course organized by G.H.G. Khalsa College of education
6. swatantryvir Savarkar adhyaksha kendra ani sanshodhan vibhag yanchya sayunkt vibhagane 26/5 20 to -4/6/ 20 darmyan aayojit samgra sawarkar ha short term course purn kela.
7. participate in split free movement during June Aug 20 to prevent the spread of covid-19 by ACF and NSS.
8. Participate webinar on overview for projects R and D Innovation and patents conducted by Internal Quality Assurance Cell on dates 4/6/20 by narayana Engineering College, Gudur.
9. One week National online faculty development program on ICT tools for effective teaching learning on dates 11/5/20 to 16/5/20, organized by School of Mathematical Science, Swami Ramanad tirth Marathwada University Nanded.
10. Participate a webinar on Yoga: Rejuvenating life skills conducted by Rizvi Education Society's dated on 23/5/20.
11. Participates and passed online quiz on Impact of covid-19 pandemic on Indian Economy organized by Department of Economics and Commerce of Khare dhare College, Guhagar
12. participates and passed online Quiz on Solar energy by Gokhale Education Society's Arts, commerce and Science College Jawahar, Palghar.

13. Participated online workshop on Robotics basics and new technologies organized by Altekin Automation and Robotics dated on 17/5/20.

14. participated and performed excellent in online sports knowledge Quiz organized by Department of Physical Education and Sports Sports of Shri Shahaji Chatrapati Mahavidyalay Kolhapur dated on 19/5/20.

15. participate a online webinar on Lokmanya webinar on 19/5/20 organized by Lokmat.

16. Online Quiz conducted by Digital Etiquette organized by IQAC and Department of computer science and IT by Annasaheb Vartak College of Art, Commerce and science

17. Participated in online course on Basics of Semiconductor Diode organized by Department of Physics by Chadmal Tarachand Bora college Shirur.

18. Participated a short term course of Physics on daily life during 25/4/20 to 1/5/20 organized by Swa. Savarkar Mahavidyalay Beed.

19. Online covid-19 general awareness Quiz organized by IQAC Shriram Kusumtai Sadashiv College Lanja on 19/5/20.

20. Online covid-19 general awareness Quiz organized by NSS and Shaivaji University Kolhapur, dated on 23/4/20.

Dr. Samrat Hanamantrao Mane.

Assistant Professor

Department of Physics

1. Participated as expert for Quiz competition in State Level Sci Star 2018 organized by School of Science at SGU, Kolhapur on Friday. 9<sup>th</sup> Feb., 2018.
2. Participated as Team Leader for Quiz competition in State Level Sci Star 2018 organized by School of Science at SGU, Kolhapur on Friday. 9<sup>th</sup> Feb., 2018.
3. Cadmium Mercury Telluride Thin Film Is used as a Photocell in 2<sup>nd</sup> International Conference on “Advanced Technologies for Societal Application” Supported by BRNS, SERB and AICTE), held at SVERI’s College of Engineering, Pandharpur during 14-15 Dec., 2018.
4. ***Silver Paper Award for paper presentation*** Cadmium Mercury Telluride Thin Film Is used as a Photocell in 2<sup>nd</sup> International Conference on “Advanced Technologies for Societal Application” Supported by (BRNS, SERB and AICTE), held at SVERI’s College of Engineering, Pandharpur during 14-15 Dec., 2018.
5. Participated in 4<sup>th</sup> Meeting on Micro-Nano Technology in Service of Rural India at Supported by (BRNS), held at SVERI’s College of Engineering, Pandharpur during April 12-13, 2015.
6. Blood Donation in camp organized by Raje Mitra Mandal at Khanapur, Tal- Khanapur Dist- Ratnagiri dated on 9<sup>th</sup> sept., 2016.
7. Participated the District planning session held at Varadkar Belose Collge, Dapoli on 24<sup>th</sup> June 2016.
8. Participated the NSS evaluation session for the year 2015-16 held at Maharshi Parshuram College of Engineering, Velneshwar, held on 4<sup>th</sup> March 2016.
9. Participated the NSS evaluation session for the year 2016-17 held at Rajendra Mane College of Engineering and Technology, Ambav, held on 4<sup>th</sup> March 2017.
10. Participated the NSS evaluation session for the year 2015-16 held at G.B. Tatha tatyasaheb Khare Commerece, Parvitibai Guruprasad Dhere Arts and shri Guhagar, held on 15<sup>th</sup> March 2018.
11. Participated the NSS Planning session for the year 2015-16 held at Gogate Joglekar College, Ratnagiri, held on 14<sup>th</sup> July 2015.
12. Participated in the 86<sup>th</sup> orientation Course for programme officers of the NSS held from 2<sup>nd</sup> Sept- to 8<sup>th</sup> Sept., 2015 at the BPHE SOCIETY’S Ahmednagar College, Ahmednagar “ Empanelled Training Institute (Sponsored by: Governement of Youth Affairs and Sports, New Delhi)
13. Participated in One day workshop organised by Internal Quality Assurance Cell, held at DBJ, Chiplun on Research Methodology on 2<sup>nd</sup> August 2015 and delivered a talk on Research funding Agencies.
14. Participated in One day workshop organised by Internal Quality Assurance Cell, held at DBJ, Chiplun on Avishkar Research on 16<sup>th</sup> August 2017.
15. Participated in one day Interdisciplinary International Conference on Mainstreaming on Marginalised: Perspective in Humanities, Commerce and Science, held on 17<sup>th</sup> January 2017 at

- Loknete Gopinath Munde Arts, Commerce and Science College, Mandgad, presented paper entitled Some Characterization of Polycrystalline Cadmium mercury Telluride Photo cell”.
16. Participated in One day workshop on Revised Syllabus of Physics Practical Course for Second Year B.Sc. held at DG Ruparel College of Arts, Science and Commerce, Mahim, Mumbai-400 016.held at June 10, 2016.
  17. Presented poster paper in the 1<sup>st</sup> national Conference on Materials and Environmental Science [NCMES-2017] held on Feb 15, 2017 at Shri. Yashwantrao Patil Science College, Solankur at Radhanagari, Dist.- Kolhapur.
  18. Participated in Two day National workshop on e-Content Development for Blended Learning organised by IQAC, Department of Physics and Statics, Rajarshi Shahu College Kolhapur, in collaboration with Knowledge Bridge, Ahmednagar held on 5<sup>th</sup> and 6<sup>th</sup> 2019.
  19. Presented poster paper entitled Synthesis and photo electric application of Cadmium telluride thin film International Conference on CONTEMPORARY RESEARCH IN CHEMICAL AND LIFE SCIENCES- 2015 held at Shri. Sadguru Maharaj College, Karad , on dated 22<sup>nd</sup> and 23<sup>rd</sup> April, 2015.
  20. Presented paper in the International Conference on Emerging Trends in Basic and Applied Sciences” (ETBAS-2015) held at Karmveer Hire Arts, Science, Commerce and Education College, Gargoti, Tal- Bhudargad, Dist- Kohapur. on dated 10<sup>th</sup> March, 2015.
  21. Participated in Dr. Vikram Sarabhais Centenary Programme organised by RRSC-C, NRSC, ISRO, Nagpur in Association with Sanjay Ghodawat University, Kolhapur on dated 22<sup>nd</sup> January, 2020.
  22. Organizer of a One Day Seminar on Library e-Resources at DBJ College, Chiplun. on dated 23<sup>rd</sup> July 2015.
  23. Organizer of a One Day National webinar on Recent trends in Material Science at DBJ College, Chiplun. on dated 4<sup>th</sup> June 2020.
  24. Organizer of a Intercollegiate Poster Competition on theme of Role and Importance of ISRO, at DBJ College, Chiplun. on dated 13<sup>th</sup> Feb., 2020.
  25. Organizer of a Seven Day Course on Basic Electronics and Circuitry for Students at DBJ College, Chiplun. on dated 9<sup>th</sup> Dec. to 14<sup>th</sup> Dec. 2020.

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You tube channel : <https://studio.youtube.com/channel/UCrYHILquYTF3Vj4cqdmSqKg/videos>

edUcaRe.HP.Spot., 206 subscribers, 14,817 views

