


## Curriculum Vitae

<p><b>Dr. JAYSUKH H. MARKNA</b>                  Assitant Professor                  Department of Nanoscience and Advanced Materials                  Saurashtra University Rajkot 360005</p> <p>Email ID: <a href="mailto:jaysukh28@gmail.com">jaysukh28@gmail.com</a>.                  Phone: +91 – 9974817619,                  ORCID ID: 0000-0002-4243-9586                  Scopus Author ID: 10439287000                  Researcher ID: AAZ-2721-2020</p>	
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<b>Teaching Experience: 15 Year</b>
<b>Research Experience: 15 Years:</b>
<b>Fields of Expertise: Nanotechnology, Material Sciences, Physics, Polymer Technology, Nanoelectronics</b>

<b>Research Projects and other Grants ( Annexure )</b>		
Principal	<b>Completed: 04</b>	<b>Ongoing: 00</b>
1	Research Project	1. FABRICATION AND CHARACTERIZATION OF MANGANITES BASED THIN FILM DEVICES, No/SR/FTP/PS-15/2007. (DST- Grant Amount Rs. 11,70,000/-). 2. SYNTHESIS AND CHARACTERIZATION OF CARBON NANODOTS BASED DYE SOLAR Cell NO.GUJOCST/MRP/2015-16/2607, (GUJCOST- Grant Amount Rs. 9,00,000/-). 3. USE OF NANOMATERIAL FOR MAKING OF ECONOMICAL, DURABLE CONCRETE WITH DESIRED STRENGTH AND REDUCTION OF EMISSION OF GREENHOUSE GASES. (GUJCOST - Grant Amount Rs. 6,85,400/-). 4. PULSED LASER DEPOSITION (PLD) OF COLOSSAL MAGNETORESISTANCE THIN FILMS AND MULTILAYER STRUCTURES AND NO.2003/34/20/BRNS/1944 (DAE-BRNS- Grant Amount Rs-10,80,000)
2	Other Grant	GUJCOST-DST Grant for national seminar – Grant Amount Rs. 50,000/-.
<b><u>Publications</u></b>		

International Journal:	43	International Seminars	01
National Journal:	14	National Seminars	07
International Proceedings	8	International Workshops	01
National Proceedings	10	National Workshops	10
		International Conferences	07
		National Conferences	06
		International Symposia	00
		National Symposia	09
Total	75		41
<b>Total Paper:</b>	<b>116</b>	Attended	

### **8. Granted Patents**

<b>GRANTED PATENTS:</b>	<b>03</b>
	<ol style="list-style-type: none"> <li><b>1. Patent No: 386784</b></li> <li><b>2. Patent No: 379862</b></li> <li><b>3. Patent No: 390378</b></li> </ol>

### **Book Publication**

International Books	01
National Books	04
Book Chapter	01

### **Citations, h-Index & i10-Index (Source: Google Scholar)**

Total Citations:	541
h-Index:	14
i10-Index:	16
Source:	<a href="https://scholar.google.com/citations?user=RHRlhDgAAAAJ">https://scholar.google.com/citations?user=RHRlhDgAAAAJ</a>

### **Events Organized (Conferences /STTP/Symposia /Seminars / Workshops / Schools .**

International Events:	00
National Events:	04

### **12. Awards and Recognitions (Statistics)**

1	<b>Coordinator</b> Gujarat Technological University Syllabus Committee for Physics and Nanotechnology.
2	<b>Gujarat Technological University Award</b> for Research Activity and Grant, 25th April 2015.
3	<b>DST-SERC Fast Track Scheme for Young Scientists:</b> Fabrication and Characterization of Manganites-based Thin Film Devices, No/SR/FTP/PS-15/2007. (Grant Amount Rs. 11,70,000/-).

4	<b>Receiving the best poster presentation award:</b> During “3rd GUJARAT STATE RESEARCH STUDENTS MEET in the subject of Physics, at Sardar Patel University, Vallabh Vidyanagar, Gujarat.
5	<b>Best Research Project Award:</b> Global Green Nanotechnology Conclave (GiGaNTiC-2015) Jointly organized by CII, SERB, and DST
6	<b>Judge- Indian Science and Engineering Fair (INSEF)-January 2016</b>
7	<b>Junior Research Fellow (JRF) in the DAE-BRNS Major Research:</b> Pulsed Laser Deposition (PLD) of Colossal Magnetoresistance Thin Films and Multilayer Structures NO.2003/34/20/BRNS/194.
8	<b>Convener:</b> <b>Nanostructured and Thin Film Coating-2014.</b>
9	<b>Convener:</b> Recent Advances in Separation Processes in Chemical Engineering and Nanotechnology, Organized by the Department of Chemical Engineering and Department of Nanotechnology, VVP Engineering College -Rajkot.
10	<b>Convener:</b> Role of Informatics in Modern Life Science (RIMLS - 2015), Organized by the Department of Biotechnology and Department of Nanotechnology, VVP Engineering College -Rajkot.
11	<b>Organizing Committee member</b> PLD-2007, Organized by Saurashtra University Rajkot.
12	<b>Co-Coordinator</b> UGC NET examination June 2012 and December 2012.
13	<b>Organizing Committee Member-</b> National Seminar on Recent Trends in Experimental Condensed Matter Physics RTECMP – 2017) organized by Department of Physics, Saurashtra University, Rajkot-360005 (21 <sup>st</sup> March -2017)
14	<b>Technical Session Chair –X-Radiate -2014</b> National Workshop on X-Ray Diffraction for Material Characterization, Saurashtra University, September 4-5, 2014
15	<b>Life Member- The Indian Society of Technical Education (LM98544)</b>
16	<b>Ph.D. Supervisor</b>
17	<b>Coordinator:</b> Training Programme on Synthesis and Characterization Technique, Satyabhama University, Chennai, September 12-14, 2016
18	<b>Expert Lecturer:</b> Experimental Technique in Physics at the Department of Physics, Saurashtra University Rajkot-360005, April 2008

19	<b>Judge:</b> Technical event “Application of Science and Engineering” at T.N.Rao College and VVP Engineering College, June 2016
20	<b>Expert Talk:</b> MEMS/NEMS and Sensors (Design and Simulation), Short Term Training Program on "MEMS/NEMS and Sensors (Design and Simulation) at Department of Nanotechnology-VVP Engineering College -Rajkot-360005 , 23-Dec, 2016
21	<b>Expert Talk:</b> Lab Work Understanding e-learning and Teaching through NPTEL Special Winter School:2016 UGC: HRDC Centre, Saurashtra University, Rajkot-360005 [26 <sup>th</sup> December -2018]
22	<b>Expert Talk:</b> Condensed Matter Physics UGC-NET Exam Coaching Department of Physics – Saurashtra University -Rajkot-360005 [20 <sup>th</sup> Feb and 22 <sup>nd</sup> Feb-2017]
23	<b>Subject Expert Staff Selection Committee:</b> Veerayatan Group of Institutions, Kutch-370460[18th January- 2015]
24	<b>Expert Talk:</b> Nanotechnology and Its Role in Life Sciences (Nano-Medicine and Drug Delivery) Refresher Course: Life Sciences UGC: HRDC Centre, Saurashtra University, Rajkot-360005 [ 7th June-2016].
25	<b>Convener:</b> MEMS/NEMS and Sensors (Design and Simulation), Short Term Training Program on "MEMS/NEMS and Sensors (Design and Simulation) at Department of Nanotechnology-VVP Engineering College -Rajkot-360005 [23 <sup>rd</sup> December-2016]
26	<b>Expert Talk:</b> Preparation of PLM Special Winter School:2016 UGC: HRDC Centre, Saurashtra University, Rajkot-360005 [28th December-2016]
27	<b>Research Grant:</b> Synthesis and characterization of Carbon nanodot-based dye solar Cell, N0.GUJOCST/MRP/2015-16/2607, [Grant Amount Rs. 9,00,000/-].
28	<b>Research Grant:</b> Use of nanomaterial for the making of economical, durable concrete with desired strength and reduction of emission of Green House Gases. (Grant Amount Rs. 6,85,400/-)
29	<b>Expert Talk and Discussion:</b> Nanotechnology, Education and Youth Yuva-Darshan, Doordarshan-DD Girnar [13th September-2017]
30	<b>Expert Talk:</b> Applications of Nanotechnology STTP on Recent Trends in Bio-Nanotechnology for Social Benefits at VVP Engineering College [21 <sup>st</sup> November-2017]
31	<b>Research Council Member (Gujarat Technological University) -2018</b>
32	<b>Expert Talks on Research Methodology</b>

	During the course of Ph.D. Scholar of Science at Gujarat Technological University for the academic year 2019-20
33	<b>Expert Talk:</b> Nanotechnology and Nanomaterials for Economic, Energy Efficient and Durable products. GUJCOST Sponsored State Level Seminar on Importance and Relevance of Nanotechnology in the Engineering Fields, at Dr.Jivraj Mehta Institute of Technology Anand- Gujarat [17 <sup>th</sup> September-2019]
34	<b>Expert Talk:</b> New Start-Up: Education Idea to Industry Refresher Course 232: Start-Up: The Futuristic Pedagogy for Higher Education UGC: HRDC Centre, Saurashtra University, Rajkot-360005 [ 23 <sup>rd</sup> November -2019]
35	<b>Expert Talk:</b> Nanoscience and Nanotechnology for Products GUJCOST sponsored one day National Science Symposium “Sciensum-2020” on 07 <sup>th</sup> February-2020 at Dr.Subhah Science College Junagadh.
36	<b>Remote Centre Coordinator with IITB</b> One-day workshop on Arduino: Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MoE, Govt. of India. [ 8 <sup>th</sup> - February-2020]
37	<b>Remote Centre Coordinator with IITB</b> Remote Centre Coordinator with IITB one day workshop on C/C++ Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MoE, Govt. of India [20 <sup>th</sup> February-2020]
38	<b>Expert Talks on Research Methodology</b> During the course of Ph.D. Scholar of Science at Gujarat Technological University for the academic year 2020-21
39	<b>Expert Talk:</b> Nanotechnology in Consumer Products: Innovation and Research Two Days Online Faculty Development Program on CURRENT TRENDS IN RESEARCH 19 <sup>th</sup> & 20 <sup>th</sup> August 2020 at TONTADARYA COLLEGE OF ENGINEERING MUNDARAGI ROAD, GADAG-582101 Karnataka, India
40	<b>Expert Talk:</b> Spintronics for Future Application Faculty Development Program on “Inter Disciplinary Aspects of Nanotechnology” 23 <sup>rd</sup> to 25 <sup>th</sup> March 2021 Organized By SCHOOL OF NANOTECHNOLOGY Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal-462033
41	<b>Expert Talks on Research Methodology</b> During the course of Ph.D. Scholar of Science at HNGU Patan for the academic year 2021-22

42	<b>Gujarat Technological University Committee Member for defining Quality and Parameter for Ph.D. Thesis -2022</b>
43	<b>Expert Talks on Research Methodology</b> During the course of Ph.D. Scholar of Science at Gujarat Technological University for the academic year 2021-22
44	<b>Expert Project Grant Reviewer</b> National Research and Development Agency (ANID), Ministry of Science and Technology, Knowledge and Innovation -Chile
45	<b>Coordinated in</b> conducting the Intellectual Property NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION
46	<b>Jury Member for SSIP grant Screening.</b> Start-up And Entrepreneurship Council - Saurashtra University
47	<b>Member of Board of Studies at Subhas University, Junagadh</b>
48	<b>Coordinator -National Intellectual Property (IPR) Awareness Mission-NIPAM by AICTE</b>
49	<b>Centre coordinator NATIONAL INSTITUTE OF TECHNICAL TEACHER'S TRAINING &amp; RESEARCH - Chandigarh at VVP Engineering College Rajkot</b>

<b>Invitations Plenary Talks / Invited Talks / Expert Talks</b>	
International Events:	01
National Events:	10

<b><u>Research Guidance</u></b>		
Ph.D. Guidance	Completed: 01	Ongoing: 03

<b>Reviewer of Research Journals</b>	
	Elsevier- Nuclear Instrument and Methods in Physics Research B (NIM-B)
	Elsevier-Carbohydrate Polymer
	American Journal of Nanoscience and Nanotechnology
	ACS applied nanomaterials
	Applied Physics Letters
	Nano Trends
	Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nano systems
	Materials Today: Proceedings
	Indian Journal of Science and Engineering
	American Journal of Materials Science and Application

