

## BIO-DATA



<b>1.</b>	<b>Name</b>	<b>Dr. SUMA JEBIN</b>																																											
<b>2.</b>	<b>Designation</b>	Assistant Professor																																											
<b>3.</b>	<b>Address</b>	Dept. of Basic Sciences and Humanities, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra, India -400703 Contact: 022-27771000 Email: <a href="mailto:suma.jebin@fcrit.ac.in">suma.jebin@fcrit.ac.in</a>																																											
<b>4.</b>	<b>Date of Birth</b>	-																																											
<b>5.</b>	<b>Total Experience</b>																																												
<b>i.</b>	<b>Teaching</b>	22 Yrs																																											
<b>ii.</b>	<b>Industrial</b>	-																																											
<b>6.</b>	<b>Qualifications</b>	<b>M.Sc, M.Phil, B.Ed, Ph.D</b>																																											
		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Exam Passed</th> <th style="width: 10%;">Year</th> <th style="width: 25%;">Institution/ University</th> <th style="width: 20%;">Branch/Specialization</th> <th style="width: 30%;">Percentage/CGPI</th> </tr> </thead> <tbody> <tr> <td>Ph.D</td> <td>April 2019</td> <td>SSSUTMS, Sehore[MP]</td> <td>Radioisotope Technology</td> <td style="text-align: center;">-</td> </tr> <tr> <td>B.Ed</td> <td>April 2001</td> <td>University of Madras, Chennai, Tamil Nadu</td> <td>Physical Science</td> <td>1<sup>st</sup> Class</td> </tr> <tr> <td>M.Phil.</td> <td>April 2000</td> <td>Scott Christian College, Nagercoil, Tamil Nadu</td> <td>Physics</td> <td>1<sup>st</sup> Class</td> </tr> <tr> <td>M.Sc.</td> <td>April 1999</td> <td>Nesamony Memorial Christian College, Marthandam, Tamil Nadu</td> <td>Physics</td> <td>1<sup>st</sup> Class (9<sup>th</sup> Rank in University level)</td> </tr> <tr> <td>B.Sc.</td> <td>April 1997</td> <td>Annai Velankanni College, Tholayavattam, Tamil Nadu</td> <td>Physics</td> <td>1<sup>st</sup> Class</td> </tr> <tr> <td>H.S.C</td> <td>April 1994</td> <td>State Board, Tamil Nadu</td> <td style="text-align: center;">-</td> <td>1<sup>st</sup> Class</td> </tr> <tr> <td>S.S.L.C</td> <td>April 1992</td> <td>State Board, Tamil Nadu</td> <td style="text-align: center;">-</td> <td>1<sup>st</sup> Class</td> </tr> </tbody> </table>				Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI	Ph.D	April 2019	SSSUTMS, Sehore[MP]	Radioisotope Technology	-	B.Ed	April 2001	University of Madras, Chennai, Tamil Nadu	Physical Science	1 <sup>st</sup> Class	M.Phil.	April 2000	Scott Christian College, Nagercoil, Tamil Nadu	Physics	1 <sup>st</sup> Class	M.Sc.	April 1999	Nesamony Memorial Christian College, Marthandam, Tamil Nadu	Physics	1 <sup>st</sup> Class (9 <sup>th</sup> Rank in University level)	B.Sc.	April 1997	Annai Velankanni College, Tholayavattam, Tamil Nadu	Physics	1 <sup>st</sup> Class	H.S.C	April 1994	State Board, Tamil Nadu	-	1 <sup>st</sup> Class	S.S.L.C	April 1992	State Board, Tamil Nadu	-	1 <sup>st</sup> Class
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	<b>Additional Qualification:</b>  Certificate Course on 'Office Automation and Data entry' (January 1999 to April 1999)																																												

7.	<b>Employment Record</b> <table border="1" data-bbox="357 159 1406 640"> <thead> <tr> <th data-bbox="357 159 815 226">Institution</th> <th data-bbox="815 159 1177 226">Year (From To)</th> <th data-bbox="1177 159 1406 226">Designation</th> </tr> </thead> <tbody> <tr> <td data-bbox="357 226 815 293">FCRIT, Vashi, Navi Mumbai</td> <td data-bbox="815 226 1177 293">May 2008 to till date</td> <td data-bbox="1177 226 1406 293">Assistant professor</td> </tr> <tr> <td data-bbox="357 293 815 360">Father Agnel Polytechnic, Vashi, Navi Mumbai.</td> <td data-bbox="815 293 1177 360">July 2007 to April 2008</td> <td data-bbox="1177 293 1406 360">Lecturer</td> </tr> <tr> <td data-bbox="357 360 815 427">Sandesh College of Arts, Sciences and Commerce, Vikhroli, Mumbai.</td> <td data-bbox="815 360 1177 427">Academic Year 2006-2007</td> <td data-bbox="1177 360 1406 427">Lecturer</td> </tr> <tr> <td data-bbox="357 427 815 495">St. Mary's Jr. College, Vashi, Navi Mumbai</td> <td data-bbox="815 427 1177 495">June 2005 to June 2006</td> <td data-bbox="1177 427 1406 495">PG Assistant</td> </tr> <tr> <td data-bbox="357 495 815 562">St. Joseph's Hr. Sec. School, Chennai, Tamil Nadu</td> <td data-bbox="815 495 1177 562">Feb 2003 to Aug 2003</td> <td data-bbox="1177 495 1406 562">PG Assistant</td> </tr> <tr> <td data-bbox="357 562 815 640">Sacred Heart Hr. Sec. School, K.K. Dist, Tamil Nadu</td> <td data-bbox="815 562 1177 640">July 2001 to Dec 2002</td> <td data-bbox="1177 562 1406 640">PG Assistant</td> </tr> </tbody> </table>							Institution	Year (From To)	Designation	FCRIT, Vashi, Navi Mumbai	May 2008 to till date	Assistant professor	Father Agnel Polytechnic, Vashi, Navi Mumbai.	July 2007 to April 2008	Lecturer	Sandesh College of Arts, Sciences and Commerce, Vikhroli, Mumbai.	Academic Year 2006-2007	Lecturer	St. Mary's Jr. College, Vashi, Navi Mumbai	June 2005 to June 2006	PG Assistant	St. Joseph's Hr. Sec. School, Chennai, Tamil Nadu	Feb 2003 to Aug 2003	PG Assistant	Sacred Heart Hr. Sec. School, K.K. Dist, Tamil Nadu	July 2001 to Dec 2002	PG Assistant					
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8.	<b>Undergraduate / Postgraduate Teaching Experience and Subjects Taught</b> <b>Subjects Taught at UG level</b> <table border="1" data-bbox="331 748 1412 976"> <thead> <tr> <th data-bbox="331 748 408 815">Sr. No.</th> <th data-bbox="408 748 963 815">Name of Subject</th> <th data-bbox="963 748 1412 815">Semester</th> </tr> </thead> <tbody> <tr> <td data-bbox="331 815 408 871">1.</td> <td data-bbox="408 815 963 871">Applied Physics-I / Engineering Physics -I</td> <td data-bbox="963 815 1412 871">First year Engineering Semester I</td> </tr> <tr> <td data-bbox="331 871 408 927">2.</td> <td data-bbox="408 871 963 927">Applied Physics-II / Engineering Physics -II</td> <td data-bbox="963 871 1412 927">First year Engineering Semester II</td> </tr> <tr> <td data-bbox="331 927 408 976">3.</td> <td data-bbox="408 927 963 976">Physics</td> <td data-bbox="963 927 1412 976">B.Sc Semester I-VI</td> </tr> </tbody> </table>							Sr. No.	Name of Subject	Semester	1.	Applied Physics-I / Engineering Physics -I	First year Engineering Semester I	2.	Applied Physics-II / Engineering Physics -II	First year Engineering Semester II	3.	Physics	B.Sc Semester I-VI														
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9.	<b>Research Experience:</b> <ul style="list-style-type: none"> <li>Working on “All inorganic lead-free halide perovskites as a photocatalyst”, since 2021. (Research and Development)</li> <li>Working on “Synthesis, Characterisation and Application of Carbon Nanomaterials” since 2009. (Research and Development)</li> <li>Research for Ph.D on Radioisotope Techniques From 2014 To 2019.</li> </ul>																																
10.	<b>Research Funding / Consultancy Services:</b> <table border="1" data-bbox="331 1339 1412 1778"> <thead> <tr> <th data-bbox="331 1339 437 1406">Sr.No.</th> <th data-bbox="437 1339 635 1406">Name of the Company</th> <th data-bbox="635 1339 788 1406">Address</th> <th data-bbox="788 1339 938 1406">Product</th> <th data-bbox="938 1339 1098 1406">Consulting Service</th> <th data-bbox="1098 1339 1267 1406">Consulting Fees</th> <th data-bbox="1267 1339 1412 1406">Period</th> </tr> </thead> <tbody> <tr> <td data-bbox="331 1406 437 1778">1.</td> <td data-bbox="437 1406 635 1778">Fluidline-Exacta International Pvt. Ltd,</td> <td data-bbox="635 1406 788 1778">401 -A, Poonam Chambers , 115, Dr. Annie Besant Road, Worli, Mumbai — 400018</td> <td data-bbox="788 1406 938 1778">Design and Development of Hydrogen Stove</td> <td data-bbox="938 1406 1098 1778"></td> <td data-bbox="1098 1406 1267 1778">Rs. 212400</td> <td data-bbox="1267 1406 1412 1778">9 Months</td> </tr> </tbody> </table> <b>Research Grants:</b> <table border="1" data-bbox="338 1845 1406 1951"> <thead> <tr> <th data-bbox="338 1845 437 1912">Sr.No .</th> <th data-bbox="437 1845 692 1912">Name of Funding Organization</th> <th data-bbox="692 1845 868 1912">Type of Grant</th> <th data-bbox="868 1845 1043 1912">Amount (Rs.)</th> <th data-bbox="1043 1845 1161 1912">Year</th> <th data-bbox="1161 1845 1406 1912">Name of Research Project</th> </tr> </thead> <tbody> <tr> <td data-bbox="338 1912 437 1951"></td> <td data-bbox="437 1912 692 1951"></td> <td data-bbox="692 1912 868 1951"></td> <td data-bbox="868 1912 1043 1951"></td> <td data-bbox="1043 1912 1161 1951"></td> <td data-bbox="1161 1912 1406 1951"></td> </tr> </tbody> </table>							Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period	1.	Fluidline-Exacta International Pvt. Ltd,	401 -A, Poonam Chambers , 115, Dr. Annie Besant Road, Worli, Mumbai — 400018	Design and Development of Hydrogen Stove		Rs. 212400	9 Months	Sr.No .	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project						
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	<b>Technical Collaboration / Lab Funding with Industries:</b>				
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year
<b>11.</b>	<b>Professional Societies Fellowship / Membership:</b> <ul style="list-style-type: none"> <li>Indian Carbon Society – Life Time Membership</li> <li>Indian Society for Technical Education (ISTE) - Life Time Membership</li> <li>Indian Women Scientists Association (IWSA) - Life Time Membership</li> </ul>				
<b>12.</b>	<b>Achievements / Awards / Position:</b> <ul style="list-style-type: none"> <li>Awarded silver medal and Elite certificate for NPTEL Course on “Nanotechnology in agriculture”.</li> <li>Secured 9th Rank in Manonmaniam Sundaranar University in M.Sc. physics for the batch 1997-1999</li> </ul>				
<b>13.</b>	<b>Projects guided in UG/PG level</b>				
<b>14.</b>	<b>Short Term Training/FDP/ Conferences and Other Programs attended:</b> <ol style="list-style-type: none"> <li>Training and Certification program on ‘AI Tools for Academics &amp; Research’ Career Scope Labs (MSME-registered entity) 1<sup>st</sup> August to 5<sup>th</sup> August 2025.</li> <li>FDP on ‘Advanced materials for Emerging Technologies Trend and Applications’ presidency university, Bangaluru, June 23<sup>rd</sup> to 28<sup>th</sup>, 2025.</li> <li>Webinar on ‘The next level self-powered sensor for healthcare sensing applications’ (14<sup>th</sup> september 2024)</li> <li>Proficiency Development Program (PDP) on “Sustainable Technologies” (Solar PV, Micro grids, Energy Storage &amp; Electric Vehicle) (2<sup>nd</sup> and 3<sup>rd</sup> August 2024)</li> <li>Presented paper titled “Comparative Study of Synthesis Methods of All Inorganic Lead-Free Bromide Perovskite”.2<sup>nd</sup> international conference on advances in material science and technology (ICAMST - 2024), July 29-31,2024.</li> <li>Training program on implementation of autonomy Model FCRIT Vashi (5<sup>th</sup> July to 19<sup>th</sup> July 2024)</li> <li>INUP- i2i Familiarization Workshop on Nanofabrication Technologies, held at IIT Bombay (22<sup>nd</sup> 25<sup>th</sup> January 2024)</li> <li>Webinar on ‘synthesis and characterization of dielectric perovskites’ (9<sup>th</sup> Dec 2023)</li> <li>Webinar on Accelerate your Research Using Elsevier’s Science Direct and Scopus -research-using-elsevier-science-direct-scopus (4<sup>th</sup> August 2023)</li> <li>International FDP/Training Program on “Innovative Teaching and Learning Pedagogy” Research Foundation of India, RFI –CARE and Shri Shradha Nath PG College, Rajasthan (26<sup>th</sup> to 30<sup>th</sup> July 2023)</li> <li>International FDP on “Functional Materials and Devices: Energy, Environment and Sustainable Development” Presidency University, School of Engineering, Bangalore. (10<sup>th</sup> to 14<sup>th</sup> July 2023)</li> <li>Training Program on ‘Composite material’, ICAR-CIRCOT (7<sup>th</sup> Feb to 9<sup>th</sup> Feb 2023)</li> <li>Young Researchers’ Meet on Carbon, BARC (30<sup>th</sup> Nov 2022)</li> <li>One day FDP on ‘Academic Integrity and Dealing with Plagiarism - A Practical Approach’, Rajeev Gandhi College Of Management Studies (17<sup>th</sup> Sep. 2022)</li> <li>Webinar on ‘Light Pollution’ KLE Society’s Science and Commerce College. (2<sup>nd</sup> Dec 2021)</li> <li>Webinar on ‘Municipal solid waste management technology development to sustainability assessment’ LTCE (18<sup>th</sup> Nov.2021)</li> <li>Workshop on ‘XRD instrumentation, Analysis interpretation of spectra and application, B.K. Birla college of Arts.Science and Commerce, Kalyan (28<sup>th</sup> Aug.2021)</li> </ol>				

18. Workshop on 'Examination reforms, AICTE (23<sup>rd</sup> Aug. to 25<sup>th</sup> Aug.2021)
19. National seminar on 'Writing a Research Grant proposal for external funding', Muthayammal college, Rasipuram (27<sup>th</sup> April 2021)
20. Preconference tutorial –Hands on training in management of literature survey and generating references',FCRIT, Vashi(14<sup>th</sup> Jan 2021)
21. Webinar on 'Iron deficiency Anaemia-a major cause of concern in young and adolescent girls',Cadila paramedicals.evanext(21<sup>st</sup> August 2020)
22. Workshop on 'Universal Human Values on the theme inculcating universal Human Values in technical education, AICTE (10<sup>th</sup> Aug. to 14<sup>th</sup> Aug 2020)
23. Webinar on 'Online teaching tips and tools, Bennet university, greater Noida (17<sup>th</sup> July 2020)
24. International Webinar on 'Frontiers in Nanotechnology and applications', St. Xavier's college, palayamkottai (15<sup>th</sup> July 2020)
25. Webinar on 'Learning Management system', FCRIT, Vashi (11<sup>th</sup> July 2020)
26. The Bodhitree and SAFE tools for effective online teaching, A Hands on workshop, The teaching learning centre(ICT), IIT Bombay. (18th June 2020 to 20th June 2020)
27. International conference Innovative challenges in multidisciplinary Research and Practices,Hindustan College of Arts and Sciences,Coimbatore. (15th June 2020 to 19th June 2020)
28. Webinar on 'Creating interactive e-learning content', Dept. of Computer Engineering, Universal college of Engineering, Kaman (1st June 2020)
29. Moodle Learning Management system,KJSI, spoken tutorial project, IIT Bombay. (26th may 2020 to 30th may 2020)
30. Workshop on "Creating and Editing Videos for Online Teaching" organized by FCRIT, Vashi. (14th May 2020)
31. Workshop on 'Lasers. Fibre Optics and Optical Communication. Fiber sensors' organised by IWSA in collaboration with National Academy of Sciences, India (Mumbai Chapter) ( 6 & 7th March 2020)
32. Completed a online FDP course on 'Nanotechnology in Agriculture' on SWAYAM (Aug- Oct 2019)
33. Completed a online course on 'Basic Electrical Circuits' on SWAYAM (30<sup>th</sup> Jul. to 21<sup>st</sup> Oct.2018)
34. AICTE-ISTE sponsored one week Induction/Refresher program on 'Inclusion of Nanotechnology in Various Commercial Arenas',KJ somaiya Institute of Engineering and Information Technology,Sion,Mumbai. (2<sup>nd</sup> July to 7<sup>th</sup> July,2018)
35. National Science Day -2018 celebration, BARC, Mumbai. (1<sup>st</sup> march 2018)
36. QIP on "Modern Biophysics Techniques". IIT Bombay. (15<sup>th</sup> to 20<sup>th</sup> Dec 2016)
37. The physics teacher's orientation for the revised Applied physics syllabus discussion, Don Bosco Institute of Technology, Mumbai. (27<sup>th</sup> July,2016)
38. 4<sup>th</sup> SBB lecture/workshop series on "Nano-To-Technology", DY Patil University, Navi Mumbai. (18<sup>th</sup> April 2015)
39. FDP on "Nanomaterials Characterisation and Applications in Devices" COEP, Pune. (7<sup>th</sup> to 11<sup>th</sup> April 2014)
40. Paper titled "Impact on catalyst on synthesis of CNM from castor seeds by CVD" in 3<sup>rd</sup> international conference NANOCON014, Bharati Vidyapeeth University, Pune. (14<sup>th</sup> and 15<sup>th</sup> October 2014)
41. The common content development for F.E Sem I and Sem II for association of Cathollic Christian Minority Institutes, Don Bosco Institute of Technology, Mumbai. (21<sup>st</sup> June and 19<sup>th</sup> November 2013)
42. Paper titled "Synthesis, Characaterization and Applications of carbon nanomaterials", Fr.CRCE, Bandra, Mumbai. (SANKALP,15<sup>th</sup> February 2013)
43. FDP on "Communication Skills", FCRIT,Vashi,Navi Mumbai (3<sup>rd</sup> to 9<sup>th</sup> October,2013)
44. National conference on "Carbon Nanomaterials", BARC,Mumbai. (1<sup>st</sup> to 3<sup>rd</sup> Nov2012)

15.	<p><b>List of Journal Papers Published:</b></p> <ol style="list-style-type: none"> <li>1. SwapnaGijare, Suma Jebin, UmeshMhapanka, “Application of Carbon Nanobeads Prepared from Castor Seeds as a Sensor for the Detection of Estradiol”, <i>International Journal of Scientific Research in Science and Technology</i>, Vol.6, Issue No.4, pp.1-6, July-August 2019.</li> <li>2. Swapna G, Suma J and Umesh M, “A Scope of using Carbon Nanobeads prepared from Castor seeds as Biosensors”, <i>International Journal of Scientific Research in Science and Technology</i>, Vol.3, Issue No.10, pp.33-38, November-December 2017.</li> <li>3. Suma T,Yelgaonkar V.N and Gaurav Agrahari,”Investigation of the cause of liquid maldistribution in Vacuum Distillation Unit” <i>International Journal of Advanced Research in Science and Engineering</i>,Vol.5,Issue No.9,pp.335-344, September 2016.</li> <li>4. Suma T et.al, “Detection of Interfaces and Voids in Pipelines using Gamma Scanning” <i>International organization of Scientific Reasearch</i>, Vol.8, Issue No.4, Ver.1, pp.12-26, Jul-Aug.2016.</li> <li>5. Swapna G, Suma J and Madhuri Sharon “Impact of catalyst on the synthesis of CNM from castor seeds by CVD Method,” <i>Advanced Science Letters</i>, vol. 22, No. 4, pp. 1003-1007, April 2016.</li> </ol>
16.	<p><b>List of Papers Published in National and International Conferences:</b></p> <ol style="list-style-type: none"> <li>1. Suma Jebin, Amrita Mandal Bera, Swapna Gijare, Dhananjay Panchagade, Mini Rajeev,“Comparative Study of Synthesis Methods of All Inorganic Lead-Free Bromide Perovskite”.2<sup>nd</sup> international conference on advances in material science and technology (ICAMST - 2024), July 29-31,2024.</li> <li>2. Suma Jebin, Swapna Gijare, Amrita Mandal Bera, “All Inorganic Lead-free Perovskites for Photocatalysis: Preparation and Absorption Study”, <i>IEEE xplore 2023 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023)</i>, Navi Mumbai, India, Jan 20-21,2023.</li> <li>3. Swapna G, Suma J and Umesh M, “A Scope of using Carbon Nano beads prepared from Castor seeds as Biosensors”, <i>National Conference on Research and Development in Synthetic organic chemistry</i>, Agasti Arts, Commerce and Dadasaheb Rupwate Science College, Akole, Maharashtra, December 29-30 2017.</li> <li>4. Suma T, Yelgaonkar V.N and Gaurav Agrahari, “Investigation of the cause of liquid maldistribution in Vacuum Distillation Unit”, <i>International conference on Recent Trends in Engineering and Science</i>, Shree Ramchandra College of Engineering, Pune, Conference proceedings Sr.no.25, Paper ID 1040, September 29-30, 2016.</li> </ol>
17.	<p><b>Books/Reports/General articles etc.</b></p> <p><b>Book Chapter:</b></p> <ol style="list-style-type: none"> <li>1. Suma Jebin, Swapna Gijare, Amrita Mandal Bera, Dhananjay Panchagade, Mini Rajeev, “Comparative Study of Synthesis Methods of All Inorganic Lead-Free Bromide Perovskite,” in <i>Advances in Materials Science and Technology</i>, 1st ed., Taylor &amp; Francis, Boca Raton, FL, USA: CRC Press, 2025, pp. 160-164, ISBN 9781003664277.</li> </ol>
18.	<p><b>Invited Lectures in FDP/ STTP</b></p>

<b>19.</b>	<b>International Conference Technical Program Committee Member / Reviewer</b> <ol style="list-style-type: none"> <li>1. Reviewer: International Conference on Nascent Technologies in Engineering (ICNTE 2021)</li> <li>2. Technical Program Committee Member: International Conference on Nascent Technologies in Engineering (ICNTE 2021)</li> <li>3. Technical Program Committee Member: International Conference on Nascent Technologies in Engineering (ICNTE 2023)</li> </ol>
<b>20.</b>	<b>Patents</b>