


## FACULTY PROFILE

<b>Name</b>	: <b>Dr. Shaila Umesh Durgadsimi</b>	
<b>Designation</b>	: <b>Assistant Professor (Sl.Gr)</b>	
<b>Department</b>	: <b>Physics</b>	
<b>Employee ID</b>	: <b>TPH002</b>	
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<b>Vidwan Id</b>	: 125150	
<b>Researcher ID</b> (Web of Science)	: AAS-3450-2021	
<b>Google Scholar ID</b>	:	
<b>Qualification</b>	: <b>M.Sc. Ph.D</b>	
<b>Professional Experience</b> Teaching experience Industry experience	:	
	: <b>33 years</b>	
<b>Administrative Responsibilities</b>	: <ol style="list-style-type: none"> <li>1. Deputy Chief Superintendent (DCS) (External), 12/1/2009- 17/1/2009,KLE CET Belgaum.</li> <li>2. Deputy Chief Superintendent (DCS)(External), 29/12/2009- 2/1/2010, TCE Gadag</li> <li>3. BOS member since 2007</li> <li>4. Research coordinator</li> <li>5. Lab coordinator</li> <li>6. BOE Coordinator, Dept. of Physics, BEC Bagalkot (2010-11) (2016-17)(2020-21).</li> </ol>	

		<p>7. BOS Member, Dept. of Physics, BEC Bagalkot since 2007.</p> <p>8. Exam Coordinator- 2014-15, 2020-21.</p> <p>9. QEEE Coordinator</p> <p>10. Coordinator, National Science Day - 2020</p>
<b>Membership</b>	:	<p>1. Life member of ISTE (LM26093)</p> <p>2. Life member of Indian Science congress (L28273)</p> <p>3. Karnataka Rajya Vijnan Parishad</p>
<b>Teaching</b>	:	
<b>No. of Projects Guided</b> UG, PG	:	Nil
<b>Title of Thesis</b>	:	“Synthesis, characterization and study of electrical and magnetic properties of Lithium Nickel Zinc ferrite + Barium Strontium Titanate Magnetolectriccomposites”.
<b>Research Interest Area</b>	:	Ferrites, Electromagnetic Composites, Magnetic Sensors
<b>No. of Research Scholars Pursuing Awarded</b>	:	01(Guide) 01 ( Co- Guide [Annamalai University, Annanagar, Tamil Nadu] ) pursuing
<b>Patents</b>	:	Nil
<b>Research Grants</b>	:	Nil
<b>Publications Books/Chapters</b>	:	1. Engineering Physics. EBPB Publications, Belgaum. Dr. S U Durgadsimi, R P Araganji
<b>Journals (with citations)</b>	:	<p>1. Durgadsimi, S.U., Chougule, S.S., Chougule, B.K., Bhosale, C.H. and Bellad, S.S. Dielectric and magnetolectric properties of <math>y[\text{Li}_{0.5}\text{Ni}_{0.75-x/2}\text{Zn}_{x/2}\text{Fe}_2\text{O}_4] + (1-y)[\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3]</math> ME composites. <i>Materials Chemistry and Physics</i>, 131(1-2), 2011 pp.199-203</p> <p>2. Durgadsimi, S.U., Chougule, S.S., Chougule, B.K. and Bellad, S.S. Structural, Electrical and Magnetic properties of <math>y[\text{Li}_{0.5}\text{Ni}_{0.75-x/2}\text{Zn}_{x/2}\text{Fe}_2\text{O}_4] + (1-y)\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3</math> ME composites. <i>International Journal of Engineering Science and Technology(IJEST)</i>, 3,1(2011) pp.553-561</p> <p>3. S. U. Durgadsimi, S. S. Chougule, B. K Chougule, C H Bhosale and S. S. Bellad, “Studies on Electrical properties of <math>y[\text{Li}_{0.5}\text{Ni}_{0.6}\text{Zn}_{0.15}\text{Fe}_2\text{O}_4] + (1-y)\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3</math> Magnetolectric composites”, <i>International Journal of Engineering Science and Technology(IJEST)</i> , 3,2(2011) pp. 1446-1456.</p> <p>4. S. U. Durgadsimi, S. S. Chougule, and S. S. Bellad, “Electric and magnetolectric properties of <math>\text{Li}_{0.5}\text{Ni}_{0.7}\text{Zn}_{0.05}\text{Fe}_2\text{O}_4 + \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3</math> Magnetolectric composites” <i>Applied Mechanics and Materials</i>, vol 592-594(2014) 826-830</p> <p>5. Shaila U. Durgadsimi, Umesh V. Durgadsimi, “Women Empowerment through Education” <i>Golden Research Thoughts (GRT)</i>, (2014)</p>

		<ol style="list-style-type: none"> <li>6. S. U. Durgadsimi, S. S. Chougule, R.G.Kharabe, S. N. Mathad and M. K. Rendale “Solid state Synthesis and Structural Features of <math>\text{Li}_{0.5}\text{Ni}_{0.75-x}/2\text{Zn}_x/2\text{Fe}_2\text{O}_4</math> Ferrites”, Int.J. Self Propagating High Temperature Synthesis, Vol.28, No.1,(2019), pp 71-73.</li> <li>7. Sheela S Gandhad, Preeti M Patil, S N Mathad, Leena V Hublikar, P R Jeergal, S. U. Durgadsimi, R B Pujar “ Structural, Williamson-Hall Plot and Size-strain Analysis of <math>\text{Mg}_x\text{Ni}_{1-x}\text{Al}_x\text{Fe}_2\text{O}_4</math> Ferrites”, Int.J.Adv.Sci.Eng.Vol.5 No.4,(2019), pp 1146-1153.</li> <li>8. S.U.Durgadsimi,V.R.Kattimani,A.B.Kulkarni and S.N.Mathad“Synthesis and structural analysis of Nickel ferrite synthesized by Co-Precipitation method”.Eurasian Physical Technical Journal, Vol.18.No.4(38) (2021) DOI 10.31489/2021 No 4/14-19 UDC 538.956</li> </ol>
<b>Invited Talks</b>	:	<ol style="list-style-type: none"> <li>1. Resource person, National Seminar on Women Empowerment: Issues and Challenges, held at Ramakrishna Paramahansa Mahavidyalaya, Osmanabad, Maharashtra, 27<sup>th</sup> September, 2014.</li> <li>2. Resource person, National Conference on “Material Synthesis for Device Level Applications (MSLDA-2015)”, held at Ramakrishna Paramahansa Mahavidyalaya, Osmanabad, Maharashtra, 29-30, Jan 2015.</li> <li>3. Resource person, National level Workshop on “Experimental Physics” held at Ramakrishna Paramahansa Mahavidyalaya, Osmanabad, Maharashtra, 14<sup>th</sup> Feb. 2020.</li> <li>4. Special Guest Lecturer “Magnetic Materials and Their Applications”, Govt. First Grade College Bagalkot on 16<sup>th</sup> February 2019.</li> <li>5. Resource person, online international Seminar on “Innovation and Technology for Gender Equality”, held at Ramakrishna Paramahansa Mahavidyalaya, Osmanabad, Maharashtra, on 8<sup>th</sup> March 2023.</li> </ol>
<b>Events Organized</b>	:	<ol style="list-style-type: none"> <li>1. National Seminar on “Modern Sensors and their applications”, BEC Bagalkot. 17-18 November 2006.</li> <li>2. Workshop on “Robotics and NanoTechnology”, BEC Bagalkot, 3-8, February 2009.</li> <li>3. “Composites and their applications” BEC, Bagalkot, 14-15 March 2014</li> </ol>

**Conferences  
attended/  
presented paper**

1. S. U. Durgadsimi, S. S. Chougule, and S. S. Bellad, “Synthesis and electrical properties of  $y$   $[\text{Li}_{0.5}\text{Ni}_{0.75-x/2}\text{Zn}_{x/2}\text{Fe}_2\text{O}_4] + (1-y) \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  Magnetoelectric Composites” International conference on Convergence of Science and Engineering in Education and Research A Global Perspective in the New Millenium ICSE-2010, Bangalore (India), 21-23 April 2010.
2. S. U. Durgadsimi, S. S. Chougule, B. K. Chougule, C. H. Bhosale and S. S. Bellad, “Dielectric properties of  $\text{Li}_{0.5}\text{Ni}_{0.6}\text{Zn}_{0.15}\text{Fe}_2\text{O}_4 + \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  ME composites” National Seminar on Physics of Materials and Materials based Device Fabrication, Shivaji University, Kolhapur (India), 17-18 February 2011.
- 3 S. U. Durgadsimi, S. S. Chougule, and S. S. Bellad, “Dielectric and magnetic properties of  $y$   $[\text{Li}_{0.5}\text{Ni}_{0.6}\text{Zn}_{0.15}\text{Fe}_2\text{O}_4] + (1-y) \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  ME Composites” National Seminar on New Materials Research and Nanotechnology-NSNMRN2013, held at Department of Physics, Government Arts College, Stone House Hill, Ooty, The Nilgiris District, Tamilnadu-643002, 25-27 September 2013.
- 4 S. U. Durgadsimi, S. S. Chougule, and S. S. Bellad, “Electric and magnetoelectric properties of  $\text{Li}_{0.5}\text{Ni}_{0.7}\text{Zn}_{0.05}\text{Fe}_2\text{O}_4 + \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  Magnetoelectric composites” International Mechanical Congress-2014(IMEC-2014) held at Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli, 13-15 June 2014.
- 5 S.U.Durgadsimi, S.S.Chougule, Maruthi.N.S. and K.K.Patankar, “AC conductivity and Magnetoelectric properties of  $(y)\text{Li}_{0.5}\text{Ni}_{0.7}\text{Zn}_{0.05}\text{Fe}_2\text{O}_4+(1-y)\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  Magnetoelectric Composites” National conference on Materials for Future Technology, held at Rajaram College, Kolhapur, 26-27, September 2014. (Presented by Maruthi.N.S)
- 6 R.G.Kharabe, Padma Rattu, Shaila U. Durgadsimi, “Synthesis and Characterization of Cu substituted Li-Ni ferrites”, Proceedings ISBN:978-93-5254-637-4MMDA 2016, Pages 142-148.
- 7 S.U. Durgadsimi, Y.F.Nadaf, S. S. Bellad, “Magnetic and Magnetoelectric Properties of  $\text{LiNiZnFe}_2\text{O}_4 : \text{BaSrTiO}_3$  composites”, Proceedings ISBN:978-93- 5254-637-4MMDA - 2016, Pages 100-105.
- 8 Shaila U. Durgadsimi, V. R. Kattimani, Maruthi. N. S, S. N. Mathad, “Synthesis and Structural properties of nano nickel ferrite”, proceedings of sixth international conference (**online**) on “Advance in material science (ICAMS-2021) during 23-24 April 2021 organized by post-graduate department of physics Raja Ramarao Mahavidyala Jath. Page no 301.
- 9 Maruthi N.S and Shaila Umesh Durgadsimi, “Ac conductivity and Magneto electrical properties of  $(y)\text{Li}_{0.5}\text{Ni}_{0.5}\text{Zn}_{0.05}\text{Fe}_2\text{O}_4+(1-y) \text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  Magneto electrical composites”, proceedings of sixth international conference (**online**) on “Advance in material science (ICAMS-2021) during 23-24 April 2021 organized by post-graduate department of physics Raja Ramarao Mahavidyala Jath. Page no. 134

<p><b>Symposiums/ Workshops/ Training Programs Attended (offline)</b></p>	<p>: 1. Induction Programme for technical teachers, ISTE,BEC, 28/2/95- 2/3/95  2. C Programming, BVVS Polytechnic, 8/9/97- 4/10/97  3. Computer Fundamentals, BVVS Polytechnic, 1/6/98- 30/6/97  4. Induction Training Programme for Engineering College Teachers, KUD, AICTE, 17/2/98- 9/3/98  5. Advanced Computer Networking, AICTE-ISTE, 14-27, 09-1998  6. National Level Physics Refresher Programme for Engineering College Teachers, VIT, Pune, AICTE-ISTE, 15-27 May 2000,  7. Recent trends in renewable energy sources, BEC Bagalkot, AICTE-ISTE, 3/9/01-15/9/01  8. Workshop on uniform teaching methodology for physics teachers, Belgaum region, BEC Bagalkot, 1/5/2002  9. Processing of composite materials, BEC Bagalkot, AICTE-ISTE, 26/8/02-7/9/02  10. Current Trends in Engg. Physics, BVBCET Hubli, 15/12/02  11. Semiconductor Physics and VLSI Design, BEC Bagalkot, AICTE-ISTE, 7/2/05- 19/2/05  12. World Year of Physics-2005, BIT, B'lore, 23-24, Nov 2005  13. Mathematical modeling for digital image processing, BEC Bagalkot, TEQIP, 9/1/06-14/1/06  14. Pre Seminar Workshops, University of Pune, 25-26/2/06  15. STTP on applied mathematics, BEC Bagalkot, TEQIP, 3/4/06-8/4/06  16. FDP on C# &amp; NET, BEC Bagalkot, TEQIP, 1/6/06-6/6/06  17. STTTP on Nanotechnology and it's applications, BEC Bagalkot, TEQIP, 14/8/06-19/8/06  18. Special lecture series on mathematical modeling for biotechnology, BEC Bagalkot, TEQIP, 11/9/06-16/9/06  19. Workshop on Frontiers in Physics and Chemistry Vision to 21<sup>st</sup> Century, SUK, Kolhapur, 8-10, Jan 2007  20. Workshop on Analytical Instrumental Techniques, SUK, Kolhapur, 18-20, Jan 2007  21. FDP on Advanced Microcontroller, TEQIP, BEC Bagalkot, 15-17 Feb 2007  22. Emotional intelligence and effective leadership, TEQIP BEC Bagalkot, 27/3/07  23. Workshop on Materials Characterization, NITK, Suratkal, 30/3/2007  24. Basics of wavelets and applications, TEQIP, BEC Bagalkot, 13/3/08-15/3/08  25. STTP on recent trends in nanotechnology TEQIP, BEC Bagalkot, 16/2/09-20/2/09  26. Refresher Course in Physics, University of Kerala, Kariavattom, Tamilnadu, UGC, 3/7/10- 23/7/10  27. Recent Advances in Thin Film Technology, TEQIP, BEC, Bagalkot, 19-21 Dec 2013  28. GeoGebra: Dynamic Mathematics Made Easy and programming with Scilab TEQIP, BEC, Bagalkot, 28-29 Dec 2013  29. Sustainable Innovation-an End To End Approach, TEQIP, BEC, BGK, 29-30 January 2014  30. Intellectual Property Rights Awareness Programme, TEQIP BEC, Bagalkot, 5/12/2014  31. Awareness workshop of UGC-DAE Consortium for Scientific Research held at Rajaram college Kolhapur, UGC-DAE Mumbai centre, 20-21, Feb 2015  32. Hands on Training on Thin Film Coating and Lithography Techniques, TEQIP BEC, Bagalkot, 6<sup>th</sup> Nov 2015  33. Outcome Based Education, TEQIP BEC, Bagalkot, 18<sup>th</sup> Dec 2015  34. Faculty Development Programme, IIT Madras TEQIP 12-14 Sept 2016  35. Optimization in Design and Engineering BEC, Bagalkot (IIT Mumbai), TEQIP, 28-30, Jan 2017  36. "Winning Edge: Strategic Thinking and Creative Leadership" BEC, Bagalkot, TEQIP, 4<sup>th</sup> Feb 2017  37. Fabrication and Characterization of Thin Film Samples of electronic and Opto-Electronic Materials, IEEE Bagalkot, 2<sup>nd</sup> March 2017</p>
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<p style="text-align: center;"><b>Symposium/ colloquium/ Campaign</b></p> <p style="text-align: center;"><b>Conferences/ Symposiums/ Workshops/ Training Programs Attended (online)</b></p>	<p><b>38.</b> Team Journey Towards Excellence, Basaveshwar Science College Bagalkot, BVV Sangha's Bagalkot, 29 May 2017 to 3<sup>rd</sup> June 2017</p> <p><b>39.</b> NPTEL Workshop by IIT Madras , BEC Bagalkot, 29 Nov. 2019</p> <p><b>40.</b> Research Avenues in Information Technology, BEC TEQIP III, 3-7 June 2019</p> <p><b>41.</b> Current Practices and Critical Issues for OBE in Engineering Education/Institutions, AICTE, BEC Bagalkot, 27 Jan to 7<sup>th</sup> Feb.2020</p> <ol style="list-style-type: none"> <li>1. National Symposium on "Sustainable Energy Technologies for Campuses", BEC Bagalkot. TEQIP-II, 5-6 June 2015</li> <li>2. International Symposium on "Emerging Technologies for Sustainable Development", TEQIP-II, 27-28 Feb 2017</li> <li>1. Digital Transformation in teaching Learning Process 16-03-2020 to 30-03-2020</li> <li>2. "AICTE-Examination Reform Policy" 29-04-2020 to 30-04-2020</li> <li>3. Science Leadership Workshop 22-06-2020 to 28-06-2020</li> <li>4. Awareness and Prevention of Sexual Harassment at Workplaces, 27-06-2020</li> <li>5. National webinar on Renewable energy: opportunities and challenges post covid-19, 25-06-2020.</li> <li>6. IEEE Bangalore on art and challenges of writing papers for IEEE transactions 08-06-2020</li> <li>7. FDP on applications of thermodynamics 13-17 July 2020.</li> <li>8. FDP on six sigma , 06-07-2020 to 10-07-2020</li> <li>9. "Trait Emotional intelligence and Resilience at the time of Covid-19", 23-07-2020</li> <li>10. National webinar on solar Physics during covid-19 outbreaks 17-07-2020</li> <li>11. Webinar on "Recent trends in biodiesel production and utilization" 20-7-2020</li> <li>12. National Conference on nanomaterials and characterization techniques in physics and materials research 1-8-2020 to 2-8-2020</li> <li>13. Webinar on material choice for future sustainable structures, 28-08-2020</li> <li>14. FDP on Universal Human Values for DEEKSHARAMBHA, 21-8-2020 to 25-8-2020</li> <li>15. Structural Analysis of nanomaterials September-20 to October-20 (4 weeks)</li> <li>16. Lasers: Fundamentals and Applications September-20 to November-20 (8 weeks)</li> <li>17. Physics of Materials September-20 to December-20 (12 Weeks)</li> <li>18. National webinar on "Intellectual Property rights and patent filing AICTE approved and orientation reference program on 4-2-21</li> <li>19. AICTE Sponsored FDP on "Acceleration: an accelerator for quality improvement in Engineering education", 18-02-2021 to 24-02-2021</li> <li>20. AICTE approved orientation/reference program on "Thermal Engineering" organized by Kalpataru Institute of Technology Tipatur, 17-03-21 to 23-03-2021</li> <li>21. One week online AICTE sponsored STTP on "Deep learning applications using IoT for engineering and science", MIT Pune 24 to 29 may 2021</li> <li>22. One week online AICTE sponsored STTP on "Deep learning applications in cyber security for engineering and science" MIT Pune 14-19 June 2021.</li> <li>23. Six days virtual national FDP on "research in India: Recent dimensions and trends" 21-26 June 2021.</li> <li>24. National webinar on "Scientific curiosity in your touch screen fingers" held on 13-6-21.</li> <li>25. Two days workshop on Satellite remote sensing and GIS: Basic concept and its application 31-05-21 to 1-6-2021</li> </ol>
<p><b>Awards and Honors</b></p>	<p>: Nil</p>