


## Profile of the Faculty Member

<b>Name</b>	: Dr. G. Baskar					
<b>Date of Birth</b>	: 24/05/1977					
<b>Unique id</b>	: 1456502509					
<b>Education Qualification (From higher Degree)</b>						
<b>Degree</b>	<b>Specialization</b>	<b>Year of Passing</b>	<b>University</b>	<b>Class Obtained</b>		
Ph. D.	Bioprocess Engineering	2011	Anna University, Chennai	-		
M.Tech.	Biotechnology	2006	Annamalai University	I Class with Distinction		
B.Tech.	Chemical Engineering	1999	Bharathidasan University	I Class		
<b>Work Experience (From present work) Teaching / Research / Industry</b>						
<b>Name of the Institute / Industry</b>	<b>Designation</b>	<b>Date of Joining</b>	<b>Date of Relieving</b>	<b>No. of</b>		
				<b>Years</b>	<b>Months</b>	<b>Days</b>
St. Joseph's College of Engg.	Professor	01.10.2013	-	11	11	0
St. Joseph's College of Engg.	Associate Professor	01.02.2010	30.09.2013	3	8	0
St. Joseph's College of Engg.	Assistant Professor	07.06.2006	31.01.2010	3	7	25
Dr. NavalarNedunchenziyan College of Engineering.	Lecturer	11.08.1999	25.09.2004	5	1	15
<b>Area of Specialization</b>		: Bioprocess Engineering				
<b>Course taught at Under Graduate / Post Graduate (Last three years)</b>						
1. Downstream Processing		3. Food Processing				
2. Bioseparation Technology		4. Enzyme Technology and Biotransformation				
<b>Research Guidance (count)</b>						
<b>Master</b>		: 15				
<b>Ph. D</b>		: 15 (Completed); 5 (Pursuing)				
<b>Sponsored Projects (as PI)</b>						
<b>Sl. No.</b>	<b>Project Title</b>	<b>Name of the agency</b>	<b>Duration</b>	<b>Amount</b>		
1.	Enzymatic mitigation of acrylamide in heat processed starchy food products using fungal asparaginase	Science and Engineering Research Board, Government of India.	2015-18	Rs.29,24,600		
2.	Anticancer activity of multifunctional nanobiocomposites of L-asparaginase and metal nanoparticles	Department of Biotechnology, Government of India.	2015-19	Rs.25,21,200		

3	Bioethanol production from Municipal solid waste using cellulase coated magnetic nanocatalyst	Tamil Nadu State Council for Science and Technology	2019 - 2020	Rs. 7500
4	Saffron cultivation using assorted modern techniques	Ministry of Micro, Small & Medium Enterprises (MSME)	2019-2023	Rs. 875000
5	“Sustainable Nanomaterial Development for Futuristic Application”	Department of Science and Technology, FIST, Government of India.	2023-28	Rs. 71,00,000
<b>Patent Published</b>				
<b>Sl. No.</b>	<b>Title</b>	<b>Year of Registration</b>	<b>Year of Publication</b>	<b>Status</b>
1	Anticancer activity of Calotropis latex and L-Asparaginase bioconjugate against brain and BL. (04/03/2020)	2020	2020	Granted
2	Organic coating preservative for tomatoes and a preservative method thereof	2025	2025	Published
3	Gracilaria corticata infused cookies and preparation method thereof	2025	2025	Published
4	Artificial intelligence based system for prediction of plant growth and, yield in greenhouse environment	2024	2024	Published
5	Chemical Composition and Biological activity of Vanilla palmarum and Lippiaalba	2022	2022	Published
<b>Technology Transfer</b>		<b>Name of the Technology</b>		<b>Collaboration with</b>
<b>Research Publications (count)</b>	<b>National Conference</b>	<b>International Conference</b>	<b>National Journal</b>	<b>International Journal</b>
	55	91	67	178
<b>No. of Books Published with details</b>	<p>1. <b>Baskar Gurunathan, G.</b> Venkatesh, In Woodhead Series in Bioenergy, Biofuels and Bioenergy-Biorefinery and Circular Bioeconomy Approaches, Elsevier Science Ltd, 2025, ISBN 9780443292545, <a href="https://doi.org/10.1016/B978-0-443-29254-5.00020-5">https://doi.org/10.1016/B978-0-443-29254-5.00020-5</a>.</p> <p>2. <b>G. Baskar</b>, V. Ashokkumar, S.L. Rokhum, V. S. Moholkar, Circular Bioeconomy Perspectives in Sustainable Bioenergy Production, August 2024. ISBN: 978-981-97-2522-9; eISBN:</p>			

	<p>978-981-97-2525-0 <a href="https://doi.org/10.1007/978-981-97-2523-6">https://doi.org/10.1007/978-981-97-2523-6</a> Springer Nature Singapore Pte Ltd.</p> <p>3. Elsa Cherian, <b>G. Baskar</b> (eds), Value Added Products from Food Waste. April 2024. ISBN: 978-3-031-48142-0. eISBN: 978-3-031-48143-7. <a href="https://doi.org/10.1007/978-3-031-48143-7">https://doi.org/10.1007/978-3-031-48143-7</a> Springer Nature Switzerland AG</p> <p>4. <b>G. Baskar, S. Renganathan</b> (eds), Biofuels and Bioenergy: A Techno-Economic Approach. June 2022. ISBN: 978-032-39-0040-9. eISBN: 978-032-38-8556-0. <a href="https://doi.org/10.1016/C2020-0-02574-0">https://doi.org/10.1016/C2020-0-02574-0</a> Academic Press by Elsevier Science Publishing Co Inc.</p> <p>5. <b>G. Baskar, S. Renganathan Zainul Akmar Zakaria</b> (eds), Biofuels and Bioenergy-Opportunities and Challenges, Published by Academic Press by Elsevier Science Publishing Co Inc. 2021. <a href="https://doi.org/10.1016/C2020-0-02041-4">https://doi.org/10.1016/C2020-0-02041-4</a>. ISBN: 978-032-38-5269-2; eISBN: 978-032-38-5270-8.</p> <p>6. <b>G. Baskar, K. Sathish Kumar and K. Tamilarasan</b> (eds), Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: 10.2174/97898114608211200101. eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7.</p> <p>7. R. Praveen Kumar, Edgard Gnansounou, Jegannathan Kenthorai Raman, <b>Gurunathan Baskar</b> (eds), Refining Biomass Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment and Economics, Published by Academic Press by Elsevier Science Publishing Co Inc. 2020. <a href="https://doi.org/10.1016/C2018-0-05005-7">https://doi.org/10.1016/C2018-0-05005-7</a>. ISBN 9780128189962.</p> <p>8. Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, <b>Baskar Gurunathan</b> (eds), Bioremediation: Applications for Environmental Protection and Management. Energy, Environment, and Sustainability, published by Springer Nature Pte Ltd., Singapore. 2018. <a href="https://doi.org/10.1007/978-981-10-7485-1">https://doi.org/10.1007/978-981-10-7485-1</a>. ISBN: 978-981-10-7484-4(Print)/978-981-10-7485-1(Online).</p> <p>9. Sunita J. Varjani, Edgard Gnansounou, <b>Baskar Gurunathan, Deepak Pant, Zainul Akmar Zakaria</b> (eds), Waste Bioremediation. Energy, Environment, and Sustainability, published by Springer Nature Pte Ltd., Singapore. 2018. DOI: <a href="https://doi.org/10.1007/978-981-10-7413-4">https://doi.org/10.1007/978-981-10-7413-4</a>. ISBN: 978-981-10-7412-7(Print)/978-981-10-7413-4 (Online).</p>
<b>No. Of Book Chapters</b>	49