RAYALASEEMA UNIVERSITY

(A State University Established by Govt. of Andhra Pradesh)

(Accredited by NAAC with 'B' Grade)

KURNOOL – 518007, ANDHRA PRADESH

FACULTY PROFILE

1	**Name of the Faculty**	:	Dr.E.RAJASEKHAR			
2	**Designation**	:	ASSISTANT PROFESSOR (C)			
3	**Department**	:	PHYSICS			
4	**Date of Birth**	:	01-07-1979			
5	**Date of Joining**	:	28.07.2016			
6	**Academic Qualifications**		**UG Degree**	**PG Degree**		**Research Degree**
	Name of the Degree	:	B.Sc	M.Sc		Ph.D
	Class / Grade Awarded	:	II	I		-
	Board / University	:	Sri Krishnadevaraya University	Sri Krishnadevaraya University		Sri Krishnadevaraya University
	Year of receiving Degree	:	2002	2005		2014
7	**Areas of Specialization**	:	APPLIED PHYSICS / ELECTRONICS			
8	**Total Experience (Yrs.)**	:	**Teaching**	**Industry**		**Total**
			09	-		09
9	**Papers Presented**	:	**National**	**International**		**Total**
			13	07		20
10	**Research Publications**	:	**Journals**	**Conferences Proceedings**		**Books / Chapters**
	National Level	:	02	01		01
	International Level	:	11	01		-
11	**Participation in**		**Seminars**	**Conferences**		**Workshops**
	National Level	:	10	03		02
	International Level	:	-	07		01
12	**Ph.Ds. / Projects Guided**	:	**Completed:**	-	**Ongoing:**	-
13	**Research Projects handled**	:	**Major:**	-	**Minor:**	-
14	**Fellowships / Memberships**	:	UGC –BSR-Fellowship			
15	**Awards / Achievements / Any other information**	:	1.CSIR-UGC-NET 2.GATE 3.TS-SET			
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17	**List of Publications /Chapters/Books** **(APA Format)**		**International Journal Publications** Masabanda, M.V., Delgado, V., **Rajasekhar,E.,** & Maddela, N.R. (**2025**) Dual step synthesis of chromium removal from tannery industry wastewater with photocatalytic effects of TiO2, *International Journal of Environment and Waste Management*, 36(4), 404-418. Robinson Torres Ronquillo, Manuel Carrillo Zenteno, Wuellins Durango Cabanilla, Diego Franco Ochoa, César Quinaluisa Morán, Seyed Mehdi Jazayeri, Gregorio Vásconez Montufar, **E. Rajasekhar**, Naga Raju Maddela and Ronald Villamar-Torres (**2025**) Morphological Variation of *Theobroma cacao* L. Affected by Increasing Doses of Heavy Metals, *Sarhad Journal of Agriculture*, 39(2), 139-144. https://dx.doi.org/10.17582/journal.sja/2023/39/s2.139.144 **Rajasekhar E** (**2024**) Studies on biological activities with effect of temperature on curry and neem leaves nanoparticles, *South Asian Journal of Experimental Biology*, 14(3), 114-120, https://doi.org/10.38150/sajeb.14(3).p114-120 Veera Krishna, M., & **Rajasekhar, E**., (**2024**) Extreme electromagnetic rotation, chemical reaction, Hall and ion slip effects on weakly ionized fluid in a Riga channel, *Results in Engineering*, 24,103169. https://doi.org/10.1016/j.rineng.2024.103169 **Rajasekhar E** (**2023**) Studies on biological properties of TiO2 and ZnO, *International Journal of Biology, Pharmacy and Allied Sciences*, 12(5),2048-2058. Marcos Raúl Heredia Pinos, Guillermo Alberto Montero, **E. Rajasekhar**, Delma Edith Faccini, Jenny Milena Acosta Farias, Naga Raju Maddela, Priyanka Jha & Ram Prasad, (**2023**) Post-dispersal predation of weed seeds in a pampas agroecosystem, Argentina, *South African Journal of Botany*, 156,1-12. https://doi.org/10.1016/j.sajb.2023.02.038 Vijay Sai, K., Madhusudhana Rao, K., **Rajasekhar, E**., Dwaraka Rani Rao, Deepa Seetharaman & Venkataramaniah, K., (**2022**) Precise conversion electron intensities of low energy gamma transitions for efficiency calibration of electron detectors, *Applied Radiation and Isotopes*, 189,110410. https://doi.org/10.1016/j.apradiso.2022.110410. Madhusudhana Rao, K., Vijay Sai, K., **Rajasekhar, E**., Deepa Seetharaman, Dwaraka Rani Rao, & Venkataramaniah, K., (**2021**) New Measurements of Internal Conversion Coefficients in Cd. *Phys. Atom. Nuclei*, 84, 817–825. https://doi.org/10.1134/S1063778821130287 Vijay Sai, K., Madhusudhana Rao, K., **Rajasekhar, E**., Dwaraka Rani Rao, Deepa Seetharaman & Venkataramaniah, K., (**2020**) Precision Measurements of Internal Conversion Coefficients of Low Energy Transitions in 169Tm for Efficiency Calibration of Electron Detectors. *Phys. Atom. Nuclei*, 83, 796–801. https://doi.org/10.1134/S1063778820660084 **Rajasekhar, E**., Ushasree, A., Prashanthi, A., Mahesh, B., Vijaya Kumar, B., & Chittemma, B., (**2020**) Role of absorption coefficient on biomaterials, South *Asian Journal of Experimental Biology*, 10(3), 144-151. https://doi.org/10.38150/sajeb.10(3).p144-151 **Rajasekhar E** (**2019**) Significant effects of temperature on biological properties of ZnO, *South Asian Journal of Experimental Biology*, 9(4), 157-165. https://doi.org/10.38150/sajeb.9(4).p157-165 **Rajasekhar, E**., Narasimham, K.L., Aditya Kurdekar., Avinash Chunduri L.A., Sandeep Patnaik, Venkataramaniah, K., (**2018**) Mass attenuation coefficient measurements of some nanocarbon allotropes: A new hope for better low cost less-cumbersome radiation shielding over a wide energy range, *Journal of Nuclear Physics, Material Sciences, Radiation and Applications*, 5(2), 311-317. **Rajasekhar E** (**2017**) Novel characterization of plant leaves, *European Journal of Biomedical and Pharmaceutical sciences*, 4(11), 678-681.

			Conference Proceedings Srinivasa Pradeep , K. Madhusudhana Rao, K. Vijay Sai , Deepa Seetharaman , **E. Rajasekhar** , K. Venkataramaniah (2023). *Atomic Mass Estimates of some Heavy Nuclei from their Beta decay Experimental Data.* Proceedings of the DAE Symp. on Nucl. Phys. (pp. 63-64). 67th DAE Symposium on Nuclear Physics 2023, Indore. **Rajasekhar E**, Nagaraju M, Venkateswara Reddy K (2017) *Studies on plant growth with effect of radiation*, Proceeding of the International Conference on Biotechnology & Bioengineering –TRENDS, Jointly organized by CBT,IST,JNTUH & DBT, SNIST on 23rd -25th March, 2017 **Books / Chapters** K.Venkataramaniah, **E.Rajasekhar** (2021). A Text Book of Nuclear Physics. InSc Publishers. India ISBN:978-1-956102-16-1
18	**Profile ID's**		ORCID: https://orcid.org/000-0001-6013-1414 Google Scholar Profile Link: https://scholar.google.com/citations?user=11o_NYUAAAAJ VIDWAN Profile ID: https://vidwan.inflibnet.ac.in/profile/451267