


Name: Dr. R. PREMANAND				
Designation:	Professor			
Qualification:	M.Sc., M. Phil., Ph.D.,			
Area of specialization:	Nuclear Physics, Materials Science, Spectroscopy			
Experience:	Industrial Experience	Postdoctoral Experience	Teaching Experience	
	-	-	31 Years 2 Months	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	-		-	
Publications:	Number of Workshops		Journal	
	National	International	National	International
	-	-	2	5
Books / Book Chapters	4			
Patents:	National		International	
	2		-	
Research Guidance	Completed		Ongoing	
	-		-	
Professional Body Membership	IEEE Senior Member, ISTE			
Research	Google Scholar ID: tBDc5S4AAAAJ Researcher ID: AEG-9715-2022 Orcid ID: 0000-0002-6474-336X Scopus ID: 22963522500 Anna University Guideship: Nil			

Staff Achievements

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.,	Physics	1985	AVVM Sri Pushpam College,	Bharathidasan University	74%	I Class
PG	M.Sc.,	Nuclear Physics	1987	AVVM Sri Pushpam College	Bharathidasan University	65.14%	I Class
	M.Phil.,	Nuclear Physics	1988	Dept. of Nuclear Physics	University of Madras	60%	I Class
Doctorate	Ph.D.	Nuclear Physics	1994	Dept. of Nuclear Physics	University of Madras	Highly Commented	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
KLN Engineering College	Lecturer	04.11.1994	27.06.1995	-	7	24
Hindustan College of Engineering	Lecturer	11.09.1995	04.07.1997	1	9	24
SRM Engineering College	Lecturer	05.07.1997	30.06.2000	2	11	27
	Senior Lecturer	31.06.2000	14.12.2000	-	4	13
Madha Engineering College	Senior Lecturer	16.12.2000	12.09.2001	-	8	28
Sri Sai Ram Engineering College	Assistant Professor	13.09.2001	31.07.2007	5	10	18
Sri Sai Ram Engineering College	Professor	01.08.2007	Till date	18	8	0
Total				31	2	27

Papers presented in International / National Conferences:

1. Ion hopping at low temperature in vitreous AgI-Ag₂O-SeO₃-CrO₃ system N. Baskaran, R. Premanand, A. Narayanasamy and G. Govindaraj Proceeding on Symposium on Solid State Physics, Vol. 39A (1996).
2. A new formula for neutron separation energy D. Caleb Chanthi Raj, R. Premanand and M. Rajesekaran Proceeding on Symposium on Nuclear Physics, Vol. 39B (1996) 114.

3. Depending of superfluid properties on number of single particle levels D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 37B (1994) 91.
4. Evidence of n-p interaction in nucleon separation energy D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 36B (1993) 132.
5. Proton separation energy D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand Proceeding on Symposium on Recent trends in Nuclear Physics, Manomanium Sundaranar University, Tirunelveli (1993).
6. Nuclear stability at very high temperatures R. Premanand, M. Rajesekaran and D. Caleb Chanthi Raj Proceeding on Symposium on Recent trends in Nuclear Physics, Manomanium Sundaranar University, Tirunelveli (1993).
7. Pairing strength and level density parameters D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 35B (1992) 120.
8. Shell correction to separation energy D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 35B (1992) 118.
9. Gyromagnetic ratio (g-factor) for high spin systems M. Rajesekaran, R. Premanand and D. Caleb Chanthi Raj, Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 71.
10. A empirical formula for nuclear level density parameters M. Rajesekaran, R. Premanand and D. Caleb Chanthi Raj, Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 69.
11. Mass exchange in heavy ion collisions M. Rajesekaran, R. Premanand and D. Caleb Chanthi Raj Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 87.
12. Comparative study between cranking method and Lagrangian multiplier method M. Rajesekaran, D. Caleb Chanthi Raj and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 65.
13. Nucleonic separation energy as a function of angular momentum and temperature M. Rajesekaran, D. Caleb Chanthi Raj and R. Premanand and P. Sivakumar Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 67.
14. Thermodynamics of superfluid nucleus M. Rajesekaran, D. Caleb Chanthi Raj and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 34B (1991) 21.
15. Level density at high spin states M. Rajesekaran, R. Premanand and D. Caleb Chanthi Raj Proceeding on Symposium on Nuclear Physics, Vol. 33B (1990) 85.
16. Yrast traps in ^{152}Er M. Rajesekaran, D. Caleb Chanthi Raj and R. Premanand Proceeding on Symposium on Nuclear Physics, Vol. 33B (1990) 13.
17. Screwing motion of hot rotating nuclei M. Rajesekaran, R. Premanand National Symp. On Nucl. And Solid-State Physics, Madras (1990).
18. Translational motion of hot compound nuclei M. Rajesekaran, R. Premanand, T.R Rajasekaran and

Devanathan Proceeding on Symposium on Nuclear Physics, Vol. 32B (1989) 11.

19. Phase space calculations in relativistic Heavy ion collisions M. Rajesekaran, R. Premanand, T.R Rajesekaran and V. Devanathan Proceeding on Symposium on Nuclear Physics, Vol. 31B (1988) 19.

Patents:

1. Gradient-Free Learning and Convergence Acceleration Framework For Machine Learning and Optimization systems.

Journal Publications:

1. Development of surface-activated $\text{La}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ perovskite-type electrodes using oxygen plasma for highly stable supercapacitor application, Silambarasan Kuppusamy, Dinesh Selvakumaran, Premanand Rajaraman, Kumaresan Lakshmanan, Mohd Khairul Bin Ahmad, *Ceramics International*, 50 (24), 52695-52706, 2024.
2. Comprehensive Review of Hydrogel Synthesis, Characterization, and Emerging Applications, Arumugasamy Sathiya Priya, Rajaraman Premanand, Indhumathi Ragupathi, Vijayabhaskara Rao Bhaviripudi, Radhamanohar Aepuru, Karthik Kannan, Krishnamoorthy Shanmugaraj, *Journal of Composites Science*, 8, 457, 2024.
3. Investigation on the Evaluation of Schottky barrier diode parameters of the proton Irradiated Ti/n – GaAs P. Jayavel, S. Arulkumaran, J. Kumar and R. Premanand *Radiation Effects and Defects in Solids* (1999).
4. Nuclear density of states for moving fused compound nucleus M. Rajesekaran and R. Premanand. *Phys. Rev. C* 47 (1993) 2986.
5. Shell, Deformation and Spin effects in Nucleon Separation Energies D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand. *Int .J. Mod. Phys. E* 2 (1993) 789.
6. Nuclear Structure at High Spins M. Rajesekaran, T.K. Rajesekaran, Rathana Prasad, R. Premanand, D. Caleb Chanthi Raj and V. Devanathan, *Nucl. Inst. Meth. In Phys. Res. B* 79 (1993) 286.
7. Thermodynamics of Strutinsky's shell correction and nuclear level densities at low excitations, M. Rajesekaran, D. Caleb Chanthi Raj, R. Premanand, V. Devanathan, *Phys. Rev C* 41 (1990) 394.

Books/Book Chapters:

1. "A Text Book of Physics for Computing Science" by M. Vadivelu, S. Dinesh, C. Meganathan, R. Premanand. ISBN No: 9789334151527.
2. "Principles of Electronics Engineering" by M. Vadivelu, S. Dinesh, C. Meganathan, R. Premanand. ISBN Number: 9789357378925.
3. The Simple Physics for Civil Engineering, M. Syed Ibrahim and R. Premanand, July 2025, Publisher, Sri Sai Ram Engineering College, ISBN no. 978-93-342-7923-8.
4. Physics for Civil Engineering, M. Syed Ibrahim and R. Premanand, January, 2025, Publisher, Sri Sai Ram Engineering College, ISBN no. 978-93-5692-664-6.

Online Courses:

1. Completed NITTT - Module 1: Orientation towards Technical Education and Curriculum Aspects
2. Completed NITTT - Module 2: Professional Ethics and Sustainability
3. Completed NITTT - Module 3: Communication Skills, Modes and Knowledge Dissemination
4. Completed NITTT - Module 4: Instructional Planning and Delivery
5. Completed NITTT - Module 5: Technology Enabled Learning and Life-Long Self Learning
6. Completed NITTT - Module 6: Student Assessment and Evaluation
7. Completed NITTT - Module 7: Creative problem solving, Innovation and Meaningful R & D
8. Completed NITTT - Module 8: Institutional Management and Administrative Procedures