

Sri Sai Ram Engineering College
Department Of Humanities And Sciences

Name : Dr. R. PREMANAND	
Designation:	Professor
Qualification :	M.Sc., M. Phil., Ph.D.
Area of Specialization :	Nuclear Physics, Materials Science, Spectroscopy
Experience :	Teaching : UG : 27 yrs 1 months PG : 5 yrs
	Industry : NIL
No. of workshop / Conferences / FDP attended :	27
Publication :	Journal National : 05 International : 07
	Conference National : 20 International : 04
Research Guidance :	Ph.D : 01 M.Phil., : 05
General :	Acted as Zonal Officer, Zone VI, Anna University of Technology, Chennai. Now Controller of Examinations, Sri Sairam Engineering College (Autonomous)
Staff Achievements:	Produced 100% results in Physics I & Physics II for more than 25 occasions.

Educational Qualification:

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
Ph.D.		Nuclear Physics	1994	Dept. of Nuclear Physics	University of Madras	By Thesis	Highly commended

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	Assistant Professor	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	14	7	27
Total				27	01	13

PUBLICATION

List Papers published in Journals

1. 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 in press).
2. Nuclear density of states for moving fused compound nucleus M. Rajesekaran and R. Premanand. Phys. Rev. **C47** (1993) 2986
3. Shell, Deformation and Spin effects in Nucleon Separation Energies D. Caleb Chanthi Raj, M. Rajesekaran and R. Premanand. Int. J. Mod. Phys. **E2** (1993) 789
4. 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. **B79** (1993) 286
5. 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 **C41** (1990) 394

List of National /International Proceedings

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 ¹⁵²Er 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 V. 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 Rajasekaran and V. Devanathan Proceeding on Symposium on Nuclear Physics, Vol. **31B** (1988) 19