


**Sri Sai Ram Engineering College**  
**Department Of Humanities And Sciences**

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

## 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
<b>Total</b>				<b>27</b>	<b>01</b>	<b>13</b>

## 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-Ag<sub>2</sub>O-SeO<sub>3</sub>-CrO<sub>3</sub> 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  $^{152}\text{Er}$*  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 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