

## PROFILE OF PRINCIPAL

1. Name of the Principal : **Dr.V.GUNARAJ**
2. Date of Birth : **16-04-1960**
3. Address : 430, G.V.Residency,  
Sowripalayam post,  
Coimbatore – 641 028



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4. Qualification:

Degree	Programme / Specilization	Class Obtained	Month & Year of Passing	University
Ph.D	Mechanical Engineering(Welding)	-	2000	Bharathiar University
M.E.	Production Engg.	I Class	1991	Bharathiar University
B.E.	Production Engg.	I Class	1983	Madras University

5. a. Years of Total Experience : **32 Years**

b. Details of Experience:

Designation	Industry /Teaching		Institution
Trainee Engineer	June 1983	May 1984	Sri Ramakrishna Industries Pvt Ltd, CBE
Lecturer	July 1984	May 1997	Kumaraguru College of Technology, Coimbatore
Assistant Professor	June 1997	November 2002	
Professor	December 2002	March 2005	
Principal	April 2005	April 2007	Karpagam College of Engineering, Coimbatore
Principal	May 2007	till date	R V S College of Engg & Tech, Coimbatore
<b>Total Experience</b>	<b>32 Years</b>		

## 6. a. Papers published in International Journals

Sl. No	Title of the Paper	Author(s)	Name & Vol. Of Journal & Year	Page No.	
				From	To
1	The application of response surface methodology for predicting weld bead quality in SAW of pipes	Dr. V. Gunaraj	International Journal of Material Processing Technology, ELSEVIER Science Publications, UK, (88) 1999	266	275
2	Prediction and comparison of area of heat affected zone for bead on plate and bead on joint in SAW of pipes	Dr. V. Gunaraj	International Journal of Material Processing Technology, ELSEVIER Science Publications, UK, (95) 1999	246	261
3	Prediction and optimization of weld bead volume and quality for SAW of pipes– Part 1	Dr. V. Gunaraj	International Welding Journal Published by AWS (American Welding Society), 79 (10) Oct. 2000	286 s	294 s
4	Prediction and optimization of weld bead volume and quality for SAW of pipes– Part 1	Dr. V. Gunaraj	International Welding Journal Published by AWS (American Welding Society), 79 (11) Nov. 2000	331 s	338 s
5	Prediction of heat affected zone characteristics in submerged arc welding of structural steel pipes	Dr. V. Gunaraj	International Welding Journal Published by AWS (American Welding Society), 81 (3) Mar. 2002	45 s	53 s
6	Prediction and control of weld bead geometry and shape relationships in submerged arc welding of pipes	Dr. V. Gunaraj	International Journal of Material Processing Technology, ELSEVIER Science Publications, UK, 168 (2005)	478	487
7	Study of Effects of process variables on bead parameters at constant heat input levels in SAW of structural steel plates	Dr. V. Gunaraj	International Journal of Material Processing Technology, ELSEVIER Science Publications, UK	478	487
8	Effects of Process Parameters on Angular Distortion of Gas metal Arc Welded Structural Steel Plates	Dr. V. Gunaraj and V.VelMurugan	International Welding Journal Published by AWS (American Welding Society) Nov 2005.	165-s	171-s
9	Scope of biofuels for decentralized power generation	Dr. V. Gunaraj and V.R.Sivakumar	Energy and Fuel users Journal volume IV,2004	36	38

10	Prediction and Comparison of area of heat affected zone for bead on plate and bead on joint in SAW of pipes	Dr.V.Gunaraj, P.Rajendran and V.R.Sivakumar	International Journal of Engineering Science and Technology. Volume 2(12),2010	7740	7757
11	Energy Efficient Location and Distributed Partitioning of Wireless Sensor Networks	Dr. V. Gunaraj and K.Karuppasamy	European Journal of Scientific Research	375	384
12	Optimizing Sensing Quality with Coverage and Lifetime in Wireless Sensor Networks	Dr. V. Gunaraj and K.Karuppasamy	International Journal of Engineering Research & Technology.	1	7
13	Decentralized Time Slot Allocation Protocol for Mobile Wireless Sensor Networks	Dr. V. Gunaraj and K.Karuppasamy	International Journal of Scientific and Engineering Research	31	34
14	Reliable and Efficiency Algorithm for Broadcasting in Asymmetric Mobile Wireless Sensor Networks	Dr. V. Gunaraj and K.Karuppasamy	International Journal of Advanced Research in IT & Engineering	13	22

#### **b. Papers Published in National / International Conferences**

Sl. No.	Title of Paper	Author(s)	Name & Vol. Of Journal & Year	Page No.	
				From	To
1	Study of the effect of process variables on bead geometry in SAW of pipes.	Dr. V. Gunaraj	International Conference on Welding, Dec. 1996, IIW, Mumbai	A-061-1	A-061-8
2	Effect of process parameters on bead geometry in SAW of pipes	Dr. V. Gunaraj	International Conference on Advances in Mechanical & Industrial Engineering (ICAME 1997), Roorkee, Feb. 1997	1059	1066
3	Application of RSM in predicting weld bead quality	Dr. V. Gunaraj	International Conference on Quality and Reliability Engineering (ISQRE 1997), Hong Kong, April 1997	224	231
4	Statistical design of experiments for predicting weld bead quality in SAW of pipes	Dr. V. Gunaraj	International Conference of Quality Engineering and Management (ICQEM 1997), PSG Tech. Aug. 1997	397	404
5	Optimization of bead quality in SAW of pipes	Dr. V. Gunaraj	International Conference of Welding organized by IIW, New Delhi, Feb. 1999	896	904

6	Design of Experiments for Modelling and Simulation of Heat Treatment Process	Dr. V. Gunaraj and Mr. K. Raja	National Level Conference on Recent Trends in Production / Operation Management, Annamalai University, Jan. 2001	153	158
7	Investigation in grey iron castings to enhance productivity	Dr. V. Gunaraj and Mr. Mohandas Gandhi	National Level Conference on Processing of Metals, P. S. G College of Technology, 31.01.2002 to 01.02.2002	107	112
8	Simulation of Weld Bead Profile for Submerged Arc Welding of Structural Steel Plates	Dr. V. Gunaraj Mr. K. Raja & Mr.V.Velmurugan	International Conference on Digital Aided Modelling and Simulation (DAMS 2003), Jan 6 <sup>th</sup> to 8 <sup>th</sup> 2003	Paper No: 102	
9	Effective utilization of waste heat in refrigeration systems	Dr. V. Gunaraj R. Sudhakaran & S. Karthick	National Conference on “Recent Trends in Energy Engineering, National Engg College, 2004	143	151
10	Intelligent Welding system for Automobile components to optimize Angular Distortion and Longitudinal Residual stresses.	Dr.V.Gunaraj & Dr.V.Velmurugan	International Conference SAE 2007 world congress Detroit – USA	87	92
11	Density First Ad-Hoc Routing protocol for Wireless Sensor Networks	Dr. V. Gunaraj & K.Karuppasamy	International Conference on Intelligent information Systems and Management	-	-
12	Reliable and Efficiency Algorithm for Broadcasting in Asymmetric Mobile Wireless Sensor Networks	Dr. V. Gunaraj & K.Karuppasamy	International Conference on Intelligent information Systems and Management	-	-
13	Spatial –Temporal Coverage Optimization in Wireless Sensor Networks	Dr. V. Gunaraj & K.Karuppasamy	International Conference on Intelligent information Systems and management	-	-

## 7. Membership in Scientific and Professional Societies

ISTE, IIW (Indian Institute of Welding), IWS (Indian Welding Society), SAE, ASME

## 8. Honors and Awards

1. Won the best paper presentation award in the international conference in mathematical modeling of arc welding process at P.S.G College of Technology Coimbatore – 1998.
2. Best paper presentation award received in the international conference on Welding by Indian Institute of Welding at Mumbai – 1996
3. Got Best Participant award in Faculty Development Programme on “Let Us Think Better” conducted by Kumaraguru College of Technology, Coimbatore 29<sup>th</sup> & 30<sup>th</sup> October 2003.

## 9. No. of Ph. D., M. Tech. Guided

Guided 20 M. E Projects mostly in welding related areas  
Awarded: 6 Ph.D.

## 10. List of Conferences, Short-term Courses etc., participated / organized

### a. Conferences Participated:

- a. International Conference on Welding held at Bombay
- b. International Conference on Advancement in Mechanical Engineering - University of Roorkee.
- c. International Conference on TQM, P. S. G. Tech, 1997
- d. International Conference on Welding, IIW, Delhi, 1999.
- e. Short Term course on Staff Development Program, 2002
- f. Tool and DTR Design, CIPET, 1984
- g. Workshop on Industrial Applications of Mechatronics, 2002

S. No	Name of the Program	Organized by	Date
1	Faculty Development Programme	Kumaraguru College of Technology, Coimbatore – 641006, conducted by E <sub>2</sub> E, Coimbatore.	4 days, 8 <sup>th</sup> – 11 <sup>th</sup> Apr 2002
2	Industry Institute Meet	CII, Trichy and REC, Trichy	08 <sup>th</sup> Oct 2002
3	Workshop on Automotive Electronics	Society of Automotive Engineers (SAE) of India at IIT Chennai	24 <sup>th</sup> and 25 <sup>th</sup> Oct 2002
4	18 <sup>th</sup> National Convention on Emerging Trends in Mechatronics Automation	Institute of Engineers and REC, Rourkela	09 <sup>th</sup> and 10 <sup>th</sup> Nov 2002
5	The 32 <sup>nd</sup> National Convention of ISTE	NMAM Institute of Technology, NITTE	27 – 29 Dec 2002.
6	Awareness of Accreditation for Self Financing Colleges”	Central Leather Institute, Adayar, Chennai	01 <sup>st</sup> Dec 2002
7	Faculty Training Programme on “Time Management and Effective Delegation”	Kumaraguru College of Technology, Coimbatore – 641006	23 <sup>rd</sup> – 25 <sup>th</sup> Feb 2003
8	Attended training programme on “Let us do things better”	Kumaraguru College of Technology, Coimbatore – 641006	29 <sup>th</sup> & 30 <sup>th</sup> Oct 2003

### b. Workshops and Conferences, Short term courses organized

S. No	Name of the Program	Year	Sponsored by
1	Optimization Techniques in Manufacturing	1999	Self

2	Industrial Applications of Mechatronics	2000	Local Industries
3	Automotive Electronics	2001	Local Industries
4	STTP on Strategies to optimize the utilization of fresh engineers in industries	March 2003	AICTE-ISTE jointly with KCT
5	STTP on Emerging Trends in Mechatronics and its Applications	Nov 2003	AICTE-ISTE jointly with KCT
6	STTP on Emerging Trends in Self Intelligent Electro Mechanical Systems	March 2004	AICTE-ISTE jointly with KCT
7	International conference on “Emerging Technologies in Intelligent Systems and Control” Eisco 2005 at Kumaraguru college of Technology	January 9-11, 2005	OAKLAND University, USA and AICTE
8	International conference on “Intelligent Systems and Control” Isco 2006 at Karpagam college of Engineering	August 8-10, 2006	WESTERN MICHIGAN University, USA, OAKLAND University, USA and AICTE.
9	International Conference on “Intelligent Information Systems & Management - 2010”.	June 10, 11 & 12	Dept of ECE & Management, Oakland University, USA.

### c. Guest Lecture offered

1	Delivered Guest Lecture on “ <b>Prediction and Optimization of Weld Bead Geometry using Mathematical Models</b> ” in the Short term Training program for Engineering college faculty on 22.11.2002 at Kongu Engineering College, Perundurai
2	Delivered Guest Lecture on “ <b>Micro Electro Mechanical System</b> ” in the Short term Training program for Engineering college faculty on 30.11.2002 at Nachimuthu Polytechnic College, Pollachi
3	Delivered Guest Lecture on “ <b>Simulation of Welding Process to predict weld bead geometry</b> ”, in the short term course on “ <b>Advanced Material Processing AMP 2003</b> ” at Bannari Amman Institute of Technology, Sathyamangalam on 09 <sup>th</sup> May 2003
4	Delivered Guest Lecture on “ <b>Intelligent Systems</b> ”, in the short term training programme on “ <b>Emerging Trends in Mechatronics and its Applications</b> ” conducted by AICTE-ISTE jointly with Kumaraguru College of Technology during 03 <sup>rd</sup> to 14 <sup>th</sup> Nov 2003
5	Delivered Guest Lecture on “ <b>Evolution and Applications of Mechatronics</b> ” in the ISTE sponsored one day state level seminar on “Mechatronics and Robotics” conducted by CSI Polytechnic College on 04.02.2004
6	Delivered Guest Lecture on “ <b>Evolution and Applications of Mechatronics</b> ” in the Mechatronics Engineering Association Meeting conducted by Maharaja Engineering College on 21.02.2004
7	Delivered Guest Lecture on “ <b>Smart pumps</b> ” in the short term training programme on “ <b>Emerging Trends in Self Intelligent Electro Mechanical Systems</b> ” conducted by AICTE-ISTE jointly with Kumaraguru College of Technology during 15 <sup>th</sup> to 26 <sup>th</sup> March 2004
8	Delivered a guest Lecture on “ <b>Prediction and Control of Weld Bead Geometry by Simulation</b> ” in the Short Term Training Programme on “ <b>Integrated Product Design, Analysis of Simulation and Mechanical Systems</b> ” conducted by Erode Sengunthar Engineering College on 06.04.2004

## 11. Presentation of AICTE Projects

### MODROBS Scheme:

A Project Titled “Modernization of Mechatronics Lab with Process Control Station and Microcontroller Trainer” under the subject discipline Mechatronics / Mechanical Engineering was presented by Dr.V.Gunaraj, HOD/MCE to the Technical committee at New Delhi on 21.11.2003 for AICTE scheme for funding.

### NAFETIC Scheme:

A Project Titled “Pump and motor development and testing centre” under the subject discipline Mechatronics / Mechanical Engineering was presented by Dr. V. Gunaraj, HOD/MCE to the Technical committee at New Delhi on 16.12.2003 for AICTE scheme for funding.

### RPS Scheme:

A Project Titled “Design and development of smart pumping system for process industries” under the subject discipline Mechatronics/Mechanical Engineering was presented by Dr. V. Gunaraj, HOD/MCE to the Technical committee at New Delhi on 08.02.2004 for AICTE scheme for funding.

## 12. Other information

- Approved guide under **Bharathiar University** as well as **Anna University** for guiding **Ph. D** Programme in the area of Mechanical /Mechatronics Engineering.
- Well experienced in NBA accreditation work and was coordinator for more than four occasions.
- Certified internal ISO Auditor and MR for Quality management system implementation in educational institution for more than 8 years.



Dr.V.GUNARAJ