



Prof. Dr. G.S.N. RAJU

**B.E (ECE), M.E., Ph.D (IIT-KGP), FIE, FIETE,
MIEEE (USA), FSEMCE, LMISTE, FDAAD (Germany)**

- **Professor of Electronics and Communication Engineering since 1994.**
- **PRINCIPAL, Andhra University College of Engineering (Autonomous), Andhra University**
- **Chief Editor, Journal of Electromagnetic Compatibility, Bangalore**
- **Member of Senate, Andhra University**
- **Coordinator, Centre for Bio-Medical Engineering**
- **Coordinator, Centre for Electromagnetic Compatibility**
- **Coordinator, M.Tech (SATCOM), United Nations Affiliated program conducted at Space Application Centre, Ahmedabad.**
- **Convener, ICET – 2010 & 2011.**
- **Member Secretary, Board of Governors, Andhra University College of Engineering (Autonomous)**

ACADEMIC QUALIFICATIONS

- P.U.C.** : First class and **11th Rank** in Andhra University.
- B.E.** : Electronics and Communication Engineering, A.U.
First class with distinction with 85.7%.
- M.E.** : Control Systems, A.U.
First class and first rank in Andhra University.
- Ph.D.** : Electronics and Communication Engineering – IIT-Kharagpur.

HIGH CREDENTIALS OF PROF. G.S.N. RAJU IN BRIEF

Obtained Highest Faculty Performance with a Percentage of 99.37
First in the Entire Andhra University

1. **P.U.C – 11th Rank** in Andhra University.
2. **B.E.** (Electronics & Communication)
3. 1st Year – **CGPA 10/10 (100% Aggregate Marks)**. Record in the history of Andhra University.
4. **B.E. and M.E. – 1st class with distinction and first rank** in A.U respectively.
5. **Ph.D. – IIT – Kharagpur**
6. Professor of Electronics and Communication Engineering since 1994.
7. **At present PRINCIPAL**, Andhra University College of Engineering (Autonomous), Andhra University.
8. **Chief Editor** of National Journal of Electromagnetic Compatibility. Bangalore.
9. **Convener, ICET – 2010 & 2011**
10. **Chief Convener**, Andhra University **Research Forum** during 2007-2010.
11. **Member Secretary, Board of Governors, Andhra University College of Engineering (Autonomous)**

12. AWARDS RECEIVED

- **“Best Researcher Award”** from Hon’ble **Governor of A.P** in 1994.
- **“State Best Teacher Award”** from the **Govt. of A.P** in 1999.
- **National IETE Prof. Aiya Memorial Award for Best Research Guidance in Electronics in India** from Union Minister of Heavy Industries, Govt. of India in 2005.
- **Dr. Sarvepalli Radhakrishnan Award** for the Best Academician of the year 2007, Andhra University.
- **“The National EMC Engineer of the Year Award”**, 2008 from Dr. K. Kasturirangan.
- **“Ugadi Puraskar Award”** from Visakha Cultural and Fine Arts Association in 2003 for contributions in social service.
- **“Shiksha Rattan Puraskar Award”** for meritorious services, outstanding performance and remarkable role in public from Justice N.Y. Hanumanthappa in 2007, Bangalore.

13. Listed in the Book ‘Who is Who in the World’ published by Marquis, **USA**
14. Guided – **22 Ph.D.s** – Highest Number in Electronics and Communication Engineering by a Professor in any University in Andhra Pradesh.
15. Published – **301 Research Papers** in National and International journals/Conferences proceedings..
16. Delivered **Expert Lectures in IIT-Kharagpur** – a privilege and honour for a University Professor to deliver in IITs.
17. Visiting professor in the **University of Karlsruhe**, Germany where **Henry Hertz** (Inventor of Radio Waves) was a Professor.
18. Visiting Professor in the University of Paderborn, Germany.

19. **Authored 5 textbooks** in the core subjects of Electronics and Communication Engineering : and six books for AU Distance Mode Jointly authored.

- **G S N Raju, “Antennas and Wave Propagation”,** Pearson Education (Singapore).
- **G S N Raju, “Electromagnetic Field Theory and Transmission Lines”,** Pearson Education Publishers (Singapore)
- **G S N Raju, “Electronic Devices and Circuits”** IK International Publishers, New Delhi.
- **G S N Raju, “Microwave Engineering”,** IK International Publishers, New Delhi.
- **G S N Raju, “Radar Engineering”,** IK International Publishers, New Delhi.

Another 6 six books for AU Distance Mode

24. **Established** one of the best **Antennas and Microwave Research Laboratory** in Andhra University.
25. **Designed a new antenna for Modern Marine Radars.** A new name is given to the antenna **“CO-PLANAR E-H PLANE TEE JUNCTION”** and is accepted by **IEEE, USA.**
26. **Coordinator, United Nations affiliated M.Tech** (Satellite Communication) course, **Space Application Centre,** Ahmedabad.
27. **Technical Expert** for the selection of candidates for P.G. Fellowships in **Japan.**
28. **AICTE Nominee** in the governing body, MVGR College of Engineering.
29. **Chairman, and Organizer** of a session in International conference on ‘Electromagnetics, Jet propulsion laboratory, **USA,** 1997.
30. **Chairman,** National symposium on “Modern Trends in Electronics and Communications” in 1995.
31. **Chairman,** National conference on “Roll of E-Commerce in Accelerating Societal Transformation”, ‘RECAST’ , 2000.

32. **Chairman**, National seminar on ‘State of Art Technologies in Information, Communication and Entertainment”, 2003.
33. **Chairman**, National seminar on Electronics and Advanced Technologies, 2004.
34. **Chairman**, Student seminar on Advanced Communications, 2002.
35. **Chairman**, International conference on Bio-Medical Electronics and Telecommunication, 2004.
36. **Chairman of Technical session** in International Symposium on Progress in Electromagnetics, Massachusetts Institute of Technology (MIT), Boston, **USA**, 2006.
37. **Chairman of Technical session** in International Symposium on Progress in Electromagnetics, Beijing Institute of Technology, Beijing, **China**, 2007.
38. **Member of Technical Committee** in International Symposium on Progress in Electromagnetics,. Beijing Institute of Technology, Beijing, **China**, 2007.
39. **Chairman of Technical session** in International Symposium on Progress in Electromagnetics, Prague, **Czech Republic**, 2007.
40. **Member of Technical Committee** in International Symposium on Progress in Electromagnetics,, Prague, **Czech Republic**, 2007
41. **Technical Expert** for selection of scientists in DRDO, 1999.
42. **Convener**, AU College of Engineering Golden Jubilee Celebrations during 2004 – 2005.
43. **Director**, Inter-Engineering Colleges culture activities ‘MADHOTSAV’, 2000.
44. **Invited Chairman** of Technical Session in International conference on Electromagnetics in Beijing, **China**, 2007.
45. **Chairman** of Technical Session in International conference on EMC, Chennai, 1995.

46. **Chairman** of Technical Session in International conference in EMI/EMC, Chennai, 1999.
47. **Chairman** of Technical Session in International conference on EMI/EMC, Calcutta, 1999.
49. **Reviewer** of Technical papers for publication in AMSE International Journal, **France**.
50. **Reviewer** of Technical papers for publication in IETE, India.
51. **Reviewer** of Technical papers for publication in the journal of Microwave Theory and Optical Technology Letters, **USA** .
52. **Reviewer** of Medical Journal, India
53. **Reviewer** of STM Journals etc.
54. **Recipient of Merit Scholarship** from 9th class to Ph.D.
55. **Delivered an Invited Expert Talk** in All India Radio in Electronics State of Technology in 1995.
56. **Delivered** an invited expert talk in all India radio on Cell Phones and Effects on Human beings in 2004.
57. **AICTE Nominee** in the governing body, MVGR College of Engineering.
58. **Technical Expert** for Indo-Russia, defence technical project, DRDO.
59. **Review Expert** of Technical projects of DRDO done by IITs.
60. **Convener** of several expert inspection committees of AICTE.
61. **Expert member** of several committees of University for the selection of Professors.
62. Conducted about **16 National Conferences** as a **Chairman** in the field of Electronics and Communication Engineering.
63. Conducted an **International Conference** as **Chairman** in the field of Electronics and Communication Engineering.
64. Two Ph.D thesis are adjudged as '**Best thesis**'.

65. Invited **Technical Chair** in the International Conference on Antennas and Electromagnetics, Beijing, **China** in 1994.
66. **Senate Member**, Andhra University.
67. A resource person in IIT-Kharagpur and several other institutes in many short-term courses and Seminars.
68. Delivered keynote address in the short-term course on “EMI/EMC management” at IIT-Kharagpur.
69. Key Speaker in Short-term course on Recent Advances in RF Techniques for Wireless Communication at IIT-Kharagpur in July 2008..

AWARDS RECEIVED

- **“State Best Teacher Award”** from the Govt. of A.P. in 1999
- **“Best Researcher Award”** from the Hon’ble Governor of A.P. in 1994
- **National IETE Prof. Aiya Memorial Award for Best Research Guidance in Electronics in India** from Union Minister of Heavy Industries, Govt. of India in 2005.
- **Dr. Sarvepalli Radhakrishnan Award** for the Best Academician of the year 2007, Andhra University.
- **“National IETE Prof. Aiya Memorial Award”** for best Research guidance in Electronics and Communication Engineering from Hon’ble Union Minister of Heavy Industries, Govt. of India, New Delhi, 2005
- **“Shiksha Rattan Puraskar Award”** for meritorious services, outstanding performance and remarkable role in public from Justice N.Y. Hanumanthappa in 2007, Bangalore
- **“Ugadi Puraskar Award”** from Visakha Cultural and Fine Arts Association in 2003 for contributions in social service.

OTHER ACADEMIC HONORS

- **Chief Editor** of National Journal of Electromagnetic Compatibility, Bangalore.
- **Visiting Professor** in the Universities of Karlsruhe and Paderborn, **Germany** in 1994.
- **Chairperson** of a Technical Session in an International Symposium on Electromagnetic Research conducted by **MIT, Boston, USA**, 1989.
- **Chairperson & Organizer** of a Technical Session in an International Symposium on Electromagnetic Research, Jet Propulsion Laboratory, **USA**, 1997.
- **Chairperson** of a Technical Session in an International Symposium on Electromagnetic Research conducted by **MIT, Boston, USA**, 2006.
- **Member** of the International Technical Program Committee of the International Symposium on Electromagnetics, **Beijing, China**, March 2007.
- **Member** of the International Technical Program Committee of the International Symposium on Electromagnetics, **Prague, Czech Republic**, August 2007.
- **Chaired** a technical session on “Bio-Electromagnetics” in the International Symposium on Electromagnetics, **Beijing, China**, March 2007.
- **Chaired** a technical session on “Antennas” in the International Symposium on Electromagnetics, **Prague, Czech Republic**, August 2007.
- **Chaired** more than 20 technical sessions in International/National Conferences in **India**.
- **Reviewer** of Research papers of AMSE (France) Journal and other Proceedings.
- Technical Expert for Indo-Russian Defence Technical Project in 2003.

- A resource person in IIT-Kharagpur and several other institutes in many short-term courses and Seminars.
- Delivered keynote address in the short-term course on “EMI/EMC management” at IIT-Kharagpur.
- Key Speaker in Short-term course on Recent Advances in RF Techniques for Wireless Communication at IIT-Kharagpur in July 2008.

RESEARCH GUIDANCE

- Guided 22 Ph.Ds in Electronics and Communication Engineering (record in Engineering particularly in Andhra Pradesh)
- Another 5 Ph.D. theses are ready for submission
- Guided more than 150 M.E. / M.Tech theses in Electronics and Communication Engineering
- Guided more than 100 B.E. projects in Electronics and Communication Engineering
- At Present guiding 12 Ph.D scholars and 4 M.Tech theses.

TEXTBOOKS AUTHORED FOR B.E./B.TECH (ECE) – 11

1. **G S N Raju, “Antennas and Wave Propagation”**, Pearson Education (Singapore).
2. **G S N Raju, “Electromagnetic Field Theory and Transmission Lines”**, Pearson Education Publishers (Singapore)
3. **G S N Raju, “Electronic Devices and Circuits”** IK International Publishers, New Delhi.
4. **G S N Raju, “Microwave Engineering”**, IK International Publishers, New Delhi.
5. **G S N Raju, “Radar Engineering”**, IK International Publishers, New Delhi.
6. **Electromagnetic Field Theory** for AU Distance Mode Education, 2007 (jointly authored).
7. **Electronics- I Laboratory textbook** for AU Distance Mode Education, 2007(jointly authored).
8. **Antennas and Wave Propagation** for AU Distance Mode Education (jointly authored).
9. **Microwave Engineering** for AU Distance Mode Education (jointly authored).
10. **Radar Engineering** for AU Distance Mode Education (jointly authored).
11. **Microwave Communication Laboratory Textbook** for AU Distance Mode Education (jointly authored).

MAJOR RESEARCH PROJECTS

1. CAD of Antennas for Marine Radars, funded by MHRD, Govt. of India.
2. Design of small electronic antennas, funded by AICTE.
3. ELFE Sensors and mitigation of low frequency emissions, funded by DRDO.
4. Design of Torpedo Fuze and analysis funded by DRDO.
5. Analysis of EM Fields in Sea.
6. Design for Stealth, for DRDO is in the pipe line.

Established one of the best Research labs from the funds generated from outside the University.

MAIN SUBJECTS OF INTEREST

- Electromagnetic Field Theory
- Antennas and Propagation
- EMI/EMC
- Radar & Microwave Engineering
- Bio-Instrumentation
- Electronic Devices and Circuits
- High Frequency Communication
- Cellular & Mobile Communication etc.

PROFESSIONAL MEMBERSHIPS

- Fellow of DAAD (Germany),
- Life Fellow of Institution of Electronics and Communication Engineers,
- Life Fellow of Institution of Engineers,
- Life Fellow of Society of EMC Engineers
- Life Fellow of Marine Engineers
- Life Senior Member of Computer Society of India
- Life Member of Indian Society of Technical Education
- Member of IEEE, USA

IMPORTANT JOURNALS OF RESEARCH PUBLICATION

- IEEE (USA)
- IEE (UK)
- AMSE (France)
- JIETE (India)
- IEEMA (India)
- Journal of Microwave Theory and Optical Technology (USA)
- Journal of Electromagnetic Waves and Applications (USA)
- Proceedings of National and International Conferences of Japan, China, Canada, USA and India etc.

EXTERNAL ACADEMIC SERVICES EXTENDED

Ph.D. / M.Tech theses adjudicator of

- **IIT-Chennai,**
- **IIT-Kharagpur,**
- **Anna University,**
- **Sri Venkateswara University,**
- **Osmania University**
- **JNTU**
- **Cochin University of Science and Technology,**
- **Jadavpur University etc.**

EXPERT TALKS IN ALL INDIA RADIO & ARTICLES IN DAILY NEWS PAPERS, WEEKLIES

- Delivered Invited Expert talk in All India Radio on Electronics and its State of Art Technologies in 1995.
- Delivered expert technical talk on the “Effect of Cell Phones on Human beings”.
- “Hazards of Cell Phones on Men” in Enadu Daily.
- “How to prepare for competitive exams” in Vidyarthi and Sakshi Daily News Papers etc.

ADMINISTRATIVE EXPERIENCE

- PRINCIPAL, Andhra University College of Engineering (Autonomous), Andhra University since June 2010.
- Convener, ICET – 2010 & 2011.
- Vice-Principal from February 2010 to May 2010.
- Faculty Chairman, AU College of Engineering (A) from February 2010 to May 2010.
- Member of Senate, Andhra University.
- Head of the Department of Electronics and Communication Engineering during 1992 – 1995
- Chairman, Board of Studies in Electronics and Communication Engineering, AU College of Engineering since 2002.
- Chairman, Board of Studies in Electronics and Instrumentation Engineering, AU College of Engineering since 1998.
- Dean of Academics and Research Development, AU College of Engineering (Autonomous) since 2005.
- Convener of several Expert Committees of AICTE since 1994.
- Member of several Expert Committees of National Board of Accreditation (NBA), New Delhi since 1997.
- Coordinator of the Centre for Bio-Medical Engineering, AU College of Engineering during 2003 to 2010.
- Established Centre for Bio-Medical Engineering and Centre for EMC
- Member, Board of Studies in Electronics and Communication Engineering, Sri Venkateswara University, Tirupati, JNTU, Kakinada, Kakatiya University, Warangal, Berhampur University, Orissa.
- Coordinator of United Nations affiliated M.Tech (satellite) programme, SAC-Ahmedabad since 2001.

- Member, Governing Body, MVGR College of Engineering - AICTE Nominee
- Member, Governing Body, GITAM University – Andhra University Nominee.
- Member, Governing Body, Sidhartha Engineering College – APSCHE Nominee
- Member, Governing Body, Lakki Reddy Bala Reddy College of Engineering, - APSCHE Nominee.
- Member, Joint Board of Studies, AU College of Engineering for the last 25 years
- Chief Convener, AU Research Forum and conducted 120 seminars.
- Member, Research Committee of AU Engineering College
- Member, Academic Council, GITAM College of Engineering (Autonomous) during 2002 – 2005.
- Member of Board of Studies, M.Tech (Technology Forecasting) for the last 10 years
- Placement Officer in 2000 – 2001
- Achieved campus placement highest in the history of AU College of Engineering
- Convener of student elections of AU College of Engineering for 3 years
- Convener, Andhra University Engineering College Golden Jubilee Celebrations Committee during 2004 – 2005
- Director, Intercollegiate Cultural Activities – “Madhotstav”, 2001.
- Warden of Engineering College Hostel during 1992 – 1995
- **Chairman** of Institution of Electronics and Telecommunication Engineers, Visakhapatnam Centre during 2002 – 2006
- **Chairman** society of Electromagnetic Compatibility Engineers, Visakhapatnam Centre since 1995.

- NCC Officer during 1980 – 1981
- Member of several University disciplinary action committees
- Coordinator, Tribal Development Program at Aruku, 2007.
- Coordinator, An awareness program in energy saving in using in using electric/electronic home appliances for house wives, 2007.
- Coordinator, Training program for self employment and entrepreneurship in the design and fabrication of electronic adapter circuits (PEAC), 2007.

ACHIEVEMENTS IN THE CAPACITY OF PRINCIPAL, AU COLLEGE OF ENGINEERING OVER A PERIOD OF ONE YEAR

- Funds received for R&D and Consultancy : ` 4.5 Crores
- Funds received from Alumni ` 3.2 Crores towards an A/c Auditorium, Campus Hospital, Endowment Lectures and Student Gold Medals for toppers.
- AU College of Engineering has been awarded autonomous status by UGC.
- Andhra University College of Engineering (A) is adjudged as “The Best Govt. Engineering College in India” by Star News TV Channel.
- Selected for TEQIP Phase – II funding.
- Conducted 12 Conferences/Seminars
- Conducted one International Conference
- Started 5 year integrated B.Tech/M.Tech course in ECE
- Started B.E. Electromechanical Engineering in collaboration with Belgium University.
- Conducted National Convention in association with Quality circle of India and six thousand delegates participated etc.

ACHIEVEMENTS IN SPORTS

- Mr. Andhra University College of Engineering, 1977. The best weight lifter of AU College of Engineering during in 1975, 1976, 1977 and 1978.
- 10 Km running champion in AU in 1975.
- 5 Km running champion in AU in 1974.
- Represented Andhra University in weight lifting and body building twice.
- Trained boxer and wrestler at district level.
- Honorary coach in weight lifting in 20th Century Boxing Club during 1976 – 79.
- Captain of Kho-Kho AU College of Engineering team in inter collegiate competitions in 1974.

CONFERENCES - INVITED CHAIRPERSON

1. International Conference on Electromagnetic Interference and Compatibility (INCEMIC – 2010), Bangalore, 2010.
2. International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS-2009), Jodhpur, 2009.
3. International Conference on Electromagnetic Interference and Compatibility (INCEMIC – 2008), Bangalore, 2008.
4. International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS-2008), Jodhpur, 2008.
5. International Conference on “Progress in Electromagnetic Research Symposium (PIERS – 07), Beijing, China, 2007.
6. International Conference on “Progress in Electromagnetic Research Symposium (PIERS – 07), USA, 2007.
7. International Conference on Electromagnetic Interference and Compatibility (INCEMIC – 2006), Bangalore, 2006.

8. International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS-2006), Jodhpur, 2006.
9. International Conference on MICROWAVE – 2006, Jaipur, 2006.
10. National Symposium on Antennas and Propagation (APSYM – 2006), Cochin, 2006.
11. International Conference on Electromagnetic Interference and Compatibility (INCEMIC – 2002), Bangalore, 2002.
12. International Conference on EMI / EMC, India, 2002.
13. International Conference on CIIC, India, 2001.
14. National Conference on FACT, Visakhapatnam, 2000.
15. National Seminar on RECAST, Visakhapatnam, 2000.
16. International Conference on EMI / EMC, India, 1999.
17. National Seminar on EMI / EMC, Calcutta, 1998.
18. National Symposium on Antennas and Propagation (APSYM – 98), Cochin, 1998.
19. International Conference on EMI / EMC, India, 1997.
20. National Conference on FARE, Visakhapatnam, 1996.
21. National Seminar on EMI / EMC, LRDE, Bangalore, 1996.
22. International Conference on Electromagnetic Interference and Compatibility, India, 1995.
23. International Conference on Computational Electromagnetics and Applications, China, 1994.
24. International Conference on Progress in Electromagnetic Research, USA, 1993.
25. National Symposium on Antennas and Propagation (APSYM – 92), Cochin, 1992.
26. International Conference on Progress in Electromagnetic Research, USA, 1989

CONFERENCES/SEMINARS CONDUCTED AS A CHAIRMAN

1. Summer School on “Fundamentals of RF Engineering for Modern Wireless Systems”, May 25-31, 2009.
2. Summer School on “Technology CAD (TCAD) for VLSI Design,” June 1-7, 2009.
3. Short-Term Course on “Advanced Electromagnetics and Applications (STAEM-07)”, 2007.
4. Tribal Development Program – 2007.
5. An awareness program in energy saving in using in using electric/electronic home appliances for house wives, 2007.
6. Training program for self employment and entrepreneurship in the design and fabrication of electronic adapter circuits (PEAC), 2007.
7. Workshop on Electromagnetics in Telecommunications (EMIT – 07), December 27-28, 2007.
8. National Conference on “Advanced Communication Technologies (ACT – 06)”, 2006.
9. International Conference on “Bio-Medical, Electronics and Tele Communications” to be held in December 2004.
10. National Seminar on Electronics and Advanced Technologies”, 2004.
11. National Seminar on “State of Art Technologies in Information, Communication and Entertainment”, 2003.
12. “Student Seminar on Advanced Communications”, 2002.
13. Seminar on “Futuristic Approach for Communication Technologies”, 2000.
14. Seminar on “Roll of E-commerce in Accelerating Societal Transformation”, 2000.
15. Seminar on “Renewable Energy Resources”, 1999.
16. National Conference on “Modern Trends in Electronics and Communication Systems”, 1995.