Profile of Dr. R. VENKATA RAO

1. Name in full : Dr. RAVIPUDI VENKATA RAO

2. Father's Name : Shri R.L. Narayana

3. Present Address:

Dr. R. Venkata Rao
Professor, Department of Mechanical Engineering
S. V. National Institute of Technology, Surat
(An Institute of National Importance of Govt. of India)
Ichchanath, Surat, Gujarat State – 395 007, India

4. E-mail: ravipudirao@gmail.com; ravipudirao@rediffmail.com

5. Telephones:

    91-9925207027 (M), 91-2612201661 (R) and 91-2612201982(O)

6. Nationality : Indian

7. Date of Birth : 04-07-1967

8. **Educational Qualifications:**

Name of the Course	University/Board	% of marks overall	Year	Subjects of study/Specialization
S.S.C	*Board of Secondary Education, A.P., India*	First Class (76.8%)	1982	Maths, Sciences, etc.
Intermediate	*Board of Intermediate Education, A.P., India*	First Class (78.5%)	1984	Maths, Sciences, etc.
B. Tech. (Mech. Engg.)	Nagarjuna University, A.P.	First Class with Distinction (79.3%)	1988	Mechanical Engg.
M. Tech. (Mech. Engg.)	Banaras Hindu University (IIT-BHU now) Varanasi, U.P., India	CGPA=9.23/10	1991	Production Engineering Specialization
Ph.D.	B.I.T.S. Pilani, Rajasthan, India	Degree was Awarded	2002	Mechanical Engineering *(under the sole guidance of Dr. O. P. Gandhi of IIT Delhi)*

9. **Total experience (teaching/research): <u>25 years</u>**

10. **Research papers published:**

No. of research papers published
Total no. of papers: 307
• International Journals: 102
• National Journals: 30
• International Conferences: 131
• National Conferences: 44

11. **Membership of Professional Bodies**
    a. Fellow, Institution of Engineers (India), Kolkata
    b. Fellow, Indian Institution of Production Engineers (IIPE)
    c. Member, Operational Research Society of India (ORSI)
    d. Life Member, Indian Society of Technical Education (ISTE)
    e. Life Member, Indian Institution of Industrial Engineering (IIIE), Navi Mumbai
    f. Executive Council Member of IIIE during 2008-2009
    g. Life Member, Indian Society of Mechanical Engineers (ISME), New Delhi

12. **Countries visited:** Czech Republic, Hong Kong, Singapore, Ukraine, Russia, Austria, Turkey, Thailand, and South Korea.

13. **Prizes, Awards, Distinction, etc.:**
    1. **Institution of Engineers (India), Kolkata's M.P.Baya National Award** for Advancement of Technology in Mechanical Engineering for the year 2014.
    2. **Elsevier CAD Journal's "Most Cited Award for 2013 and 2014"**
    3. **"Fellowship" Award of the Indian Institution of Industrial Engineering (IIIE),** Navi Mumbai (October 31, 2012)
    4. **"Lifetime Achievement Award"** declared by the Organizers of the International Conference on Agile Manufacturing during 16-19 December 2012 **conducted by the Dept. of Mech. Engg. of IIT (BHU) Varanasi**
    5. Received "**Best Research Paper Award" of ISNT Journal**, India for 2010
    6. Received the **"Meritorious Award"** from The International Institute for Advanced Studies in Systems Research (IIAS) Canada in 2008 for innovative research work
    7. Received '**Best Research Paper Award' of IIIE Journal,** India for 2006
    8. Received **ISTE-New Delhi National Award for the year 2001 for "Best Research Work Done"**
    9. Received **Gold Medal for B. Tech.** Studies
    10. Topped throughout the academic career during studies and received merit scholarships by the State Govt. of A. P., India

11. Deputed as a *Visiting Professor by MHRD, New Delhi (India) to teach at AIT Bangkok, Thailand* for one term of 16 weeks from January 2015 to May 2015.

12. Deputed as a *Visiting Professor by MHRD, New Delhi (India) to teach at AIT Bangkok, Thailand* for one term of 16 weeks from *August 2010 to December 2010.*

13. Deputed as a *Visiting Professor by MHRD, New Delhi (India) to teach at AIT Bangkok, Thailand* for one term of 16 weeks from *January 2008 to May 2008.*

14. Selected as a **Visiting Professor by ISTE New Delhi** for the academic year 2007-2008 to visit any technical institution in India to deliver few lectures.

15. Included in the **panel of Expert Members, AICTE-NBA**, India

16. Included in the **panel of Expert Members, UPSC**, New Delhi

14. **Research projects/activities carried out (Excluding M.Tech. Dissertations& Ph.D. works):** GUJCOST (1 project), DST-International Division (4 with Austria, Slovenia and Russia), CSIR (1 project)

15. **Selected Research papers published in international journals during last 2 years:**

Title of Paper	Authors	Journal	Volume (Issue), Pages	Year
Design optimization of robot grippers using teaching-learning-based optimization algorithm	R. V. Rao G.Waghmare	Advanced Robotics **(Taylor & Francis, UK)**	DOI: 10.1080/01691864.2014.986524	2015
Optimization of thermal performance of a smooth flat plate solar air heater using teaching-learning-based optimization algorithm	R. V. Rao G.Waghmare	Cogent Engineering **(Taylor & Francis, UK)**	DOI: 10.1080/23311916.2014.997421	2015
Multi-objective design optimization of a plate-fin heat sinkusing a teaching-learning-based optimization algorithm	R. V. Rao G.Waghmare	Applied Thermal Engineering **(Elsevier)**	76, 521-529	2015
Optimal design of the heat pipe using TLBO (teaching–learning-based optimization) algorithm	R. V. Rao K.C.More	Energy **(Elsevier)**	80, 535-544	2015
Assessment of alternative fuels for transportation using	P.B. Lanjewar R.V. Rao	Fuel **(Elsevier)**	154, 9-16	2015

a hybrid graph theory and analytic hierarchy process method	A.V. Kale			
Optimization of modern machining processes using advanced optimization techniques: a review	R. V. Rao V.D. Kalyankar	International Journal of Advanced Manufacturing Technology **(Springer Verlag, UK)**	73, 1159-1188	2014
A multi-objective improved teaching-learning-based optimization algorithm *for unconstrained and constrained* optimization functions	R. V. Rao V. Patel	International Journal of Industrial Engineering Computations **(Growing Science,Canada)**	5(1), 1-22	2014
Complex constrained design optimisation using an elitist teaching-learning-based optimisation algorithm	R. V. Rao G. Waghmare	International Journal of Metaheuristics **(Inderscience)**	3(1), 81-102	2014
Advanced optimal tolerance design of machine elements using teaching-learning-based optimization algorithm	R. V. Rao K.C.More	Production & Manufacturing Research **(Taylor & Francis)**	2(1), 71-94	2014
Parameters optimization of selected casting processes using teaching-learning-based optimization algorithm	R. V. Rao V.D. Kalyankar G. Waghmare	Applied Mathematical Modelling **(Elsevier)**	26(1), 524-531	2014
A comparative study of a teaching–learning-based optimization algorithm on multi-objective unconstrained and constrained functions	R. V. Rao G. Waghmare	Computer and Information Sciences **(Elsevier)**	http://dx.doi.org/10.1016/j.jksuci.2013.12.004	2014
Selection of risk mitigation strategy in electronic supply chains using grey theory and digraph-matrix approaches	Rajesh, Ravi, R. V. Rao	International Journal of Production Research **(Taylor & Francis)**	DOI:10.1080/00207543.2014.948579	2014
An improved teaching-learning-based optimization algorithm for solving unconstrained optimization problems	R. V. Rao V. K.Patel	ScientiaIranica **(Elsevier)**	20(3), 710-720	2013
Parameter optimization of machining processes using teaching–learning-based optimization algorithm	P.J.Pawar R.V.Rao	International Journal of Advanced Manufacturing Technology **(Springer)**	67(5-8), 995-1006	2013
Parameter optimization of modern machining processes using teaching–learning-based optimization algorithm	R. V. Rao V.D.Kalyankar	Engineering Applications of Artificial Intelligence **(Elsevier)**	26 (1), 524-531	2013
Multi-pass turning process parameters optimization using teaching-learning-	R. V. Rao V.D.Kalyankar	ScientiaIranica **(Elsevier)**	20(3), 967-974	2013

based optimization algorithm				
Multi-objective optimization of heat exchangers using a modified teaching-learning-based optimization algorithm	R. V. Rao V.K.Patel	Applied Mathematical Modeling **(Elsevier)**	37(3), 1147-1162	2013
Multi-objective optimization of two stage thermoelectric cooler using a modified teaching–learning-based optimization algorithm	R. V. Rao V.K.Patel	Engineering Applications of Artificial Intelligence **(Elsevier)**	26(1), 430-445	2013
Optimization of job shop scheduling using teaching learning based optimization algorithm	H.S.Keesari R. V. Rao	OPSEARCH **(Springer)**	DOI: 10.1007/s12597-013-0159-9	2013
Comparative performance of teaching-learning based optimization method for solving complex unconstrained optimization problems	R. V. Rao V.K.Patel	International Journal of Industrial Engineering Computations **(Growing Science, Canada)**	4(1), 29-50	2013

16. *Books Published by Springer Verlag, London, UK*:

- Decision Making in the Manufacturing Environment Using Graph theory and Fuzzy Multiple Attribute Decision Making Methods, **Springer-Verlag London**, **UK**, June 2007 (*cited by researchers 304 times as on 31st July 2015 {please refer to Google Scholar for details*}).
- Advanced Modeling and Optimization of Manufacturing Processes: International Research and Development. Springer-Verlag London, UK, December 2010 (*cited by researchers 65 times as on 31st July 2015 {please refer to Google Scholar for details*}).
- Mechanical Design Optimization Using Advanced Optimization Techniques. Springer-Verlag London, UK, February 2012 (*cited by researchers 72 times as on 31st July 2015 {please refer to Google Scholar for details*}).
- Decision Making in the Manufacturing Environment Using Graph theory and Fuzzy Multiple Attribute Decision Making Methods (Volume-2), Springer-Verlag London, UK, 2013 (*Refer to www.springerlink.com for details*}).
- Teaching-learning-based optimization and its engineering applications. Springer-Verlag London, UK, 2015 (in Press).

Book Chapters published:
1. Multi-objective optimization of multi-pass milling process parameters using artificial bee colony algorithm. Artificial Intelligence in Manufacturing, **Nova Science Publishers, USA**
2. Process parameter optimization of advanced finishing processes using PSO and SA algorithms. Artificial Intelligence in Manufacturing, **Nova Science Publishers, USA**
3. Modeling and optimization of parameters of GMAW process. Optimization Methods in Manufacturing, **IGI Global Publishers, USA.**
4. Vendor selection in supply chain using particle swarm optimization algorithm, **Excel Books, India**

5. Optimization of abrasive flow machining process. Introduction to Micromachining (Ed. V.K.Jain), **Narosa Publishing House, India.**
6. Optimization of advanced finishing processes using teaching-learning-based optimization algorithm. Nanofinishing Science and Technology (Ed. V.K.Jain), **Taylor and Francis, USA.**

Books Published by Indian Publishers:
1. Fundamentals of Machining and Machine Tools. S.K.Kataria and Sons Publishers, New Delhi, 1997.
2. Metal Cutting and Machine Tools. S.K.Kataria and Sons Publishers, New Delhi, 1998.
3. Design and Manufacturing. S.K.Kataria and Sons Publishers, New Delhi, 1998.

17. No. of expert lectures delivered:

More than 200 (including those at Orel State Technical University, Russia; Technical University of Liberec, Czech Republic; Kiev Polytechnic Institute, Ukraine; Nanyong Technological University, Singapore; HKUST Hong Kong; AIT Bangkok, Thailand; IIT Kanpur, IIT-BHU Varanasi, Indian Space Research Organization (ISRO), Ahmedabad, IIITM Gwalior, RGPV Bhopal, Anna University Chennai, MITS Gwalior, NITs, Deemed/Private Universities/engineering colleges, Reliance Industries, Essar Industries and the short term training programs conducted at SVNIT Surat). These lectures are based on advanced engineering optimization techniques and their applications and Research Methodology.

18. No. of Summer / Winter schools / Training Programmes Organized:

S. No.	Title of the short term course	Month in which the course was conducted
1	AICTE sponsored one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(Coordinator and Main Teacher)*	16-20 June 2008 (more than 70 participants from engineering colleges and institutes)
2	2nd AICTE sponsored one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(Coordinator and Main Teacher)*	30th June – 4th July 2008 (more than 60 participants from engineering colleges and institutes)
3	3rd AICTE sponsored one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(Coordinator and Main Teacher)*	22-26 December 2008 (more than 70 participants from engineering colleges and institutes)
4	4th AICTE sponsored one-week short term training program on "Advanced engineering optimization through intelligent techniques"	13-17 July 2009 (more than 60 participants from engineering colleges and institutes)

	(Coordinator and Main Teacher)	
5	5th AICTE sponsored one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(Coordinator and Main Teacher)*	14-18 December 2009 (more than 60 participants from engineering colleges and institutes)
6	6th One-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	2-6 January 2012 (about 40 participants from engineering colleges and institutes)
7	7th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	14-18 May 2012 (about 40 participants from engineering colleges and institutes)
8	8th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	7-11 January 2013 (more than 50 participants from engineering colleges and institutes)
9	9th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	23-27 September 2013 (more than 60 participants from engineering colleges and institutes)
10	10th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	27-31 January 2014 (more than 70 participants from engineering colleges and institutes)
11	11th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	24-28 March 2014 (more than 70 participants from engineering colleges and institutes)
12	12th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	22-26 September 2014 (more than 85 participants from engineering colleges and institutes)
13	13th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)* *(Coordinator and Main Teacher)*	1-5 December 2014 (more than 75 participants from engineering colleges and institutes)
14	14th one-week short term training program on "Advanced engineering optimization through intelligent techniques" *(self-supported program)*	22-26 June 2015 (more than 70 participants from engineering colleges and institutes)

	(Coordinator and Main Teacher)	
15	Two-days short term course of "Multicriteria decision making and its applications" *(self-supported program)* *(Coordinator and Main Teacher)*	4-5 October 2008 (about 35 participants from engineering colleges and institutes)
16	One-day workshop/seminar on "Industrial Robotics" *(conducted in association with Cybermotion Technologies, Hyderabad)* *(Coordinator)*	9th December 2009 (About 40 participants)
17	AICTE sponsored one-week short term training program on "Energy conservation and management" (as a co-coordinator)	21-25 December 2009 (more than 40 participants from engineering colleges and institutes)
18	AICTE sponsored one-week short term training program on "Pedagogy and research methodology" (as a co-coordinator)	19-23 January 2009 (more than 50 participants from engineering colleges and institutes)
19	DST Sponsored 3-days **Indo-Russian Joint Workshop** on "Computational Intelligence and Modern Heuristics in Automation and Robotics" *(As Indian Coordinator)*	20-22 September 2010 (10 Russian scientists and 30 Indian participants); Workshop was held in India
20	DST Sponsored Second 3-days **Russian-Indian Joint Workshop** on "Computational Intelligence and Modern Heuristics in Automation and Robotics" *(As Indian Coordinator)*	10-12 September 2011 (9 Indian participants and 10 Russian Scientists); Workshop was held in Russia

19. No. of Conferences/Workshops Organized:

National Conferences:
- National Conference on "Emerging Trends in Mechanical Engineering" during 4-5 June 2007
- National Conference on "Recent Trends in Design and Manufacturing Technologies" (17-18 March 2005)
- National Conference on "Environmentally Conscious Design and Manufacturing" (23-24 July 2004)

International Conferences:
- International Conference on Advances in Mechanical Engineering (ICAME 2008) held at SVNIT Surat during 15-17 December 2008
- Second International Conference on Advances in Mechanical Engineering (ICAME 2009) held at SVNIT Surat during 3-5 August 2009
- Third International Conference on Advances in Mechanical Engineering (ICAME 2010) held at SVNIT Surat during 4-6 January 2010
- Fourth International Conference on Advances in Mechanical Engineering (ICAME) held at SVNIT Surat during 23-25 September 2010

- Fifth International Conference on Advances in Mechanical Engineering (ICAME) held at SVNIT Surat during 06-08 June 2011
- International Conference on Advanced Engineering Optimization Through Intelligent Techniques held at SVNIT Surat during 01-03 July 2013
- **Indo-Russian Joint Research Workshop**: on "Computational Intelligence and Modern Heuristics on Automation and Robotics"
  Funding Agency: DST, India & RFBR, Russia
  Co-Coordinator: Prof. VadimZhmud, Novosibirsk State Technical University, Russia
  The Workshop was held successfully during 20-22 September 2010
- **Second Russian-Indian Joint Research Workshop**: on "Computational Intelligence and Modern Heuristics on Automation and Robotics"
  Funding Agency: DST, India & RFBR, Russia
  Co-Coordinator: Prof. VadimZhmud, Novosibirsk State Technical University, Russia
  The joint Workshop was held successfully during 10-13 September 2011.

20. **Administrative Services: (e.g. Dean /Hostel warden / HOD / Prof.Incharge / Chairman, Board of Studies, etc.:**

Support to institute's management:

At SVNIT, Surat (Gujarat, India):

1. **Worked as Head of the Department of Mechanical Engineering for a term of 3 years from 8th January 2007 to 8th January 2010.**

   a. As Head of the Department, I was involved in day-to-day administration of the department dealing with 45 faculty members and about 50 non-teaching staff members
   b. Helped the institute management in recruiting highly qualified and competitive faculty members for the department at various levels (in 2007 and in 2009)
   c. Actively involved in getting NBA accreditation for the 2 UG programs and 2 PG programs of the department in 2008
   d. Introduced 2 new PG programs in M.Tech. (CAD/CAM) and M.Tech. (Thermal System Design)
   e. Acted as Chairman of the Departmental Boards of Undergraduate and Post-Graduate Studies and Research
   f. Conducted curriculum design and development workshops for the 2 UG and 5 PG programs of the department
   g. Actively involved in conducting the M.Tech. and Ph.D. admissions of the department (as Chairman during my Headship and as a Member now)
   h. Student intake is increased during my Headship and I had taken steps to accommodate them comfortably in the available class rooms
   i. I had motivated the faculty members to develop the laboratories and to submit research projects

j. As the Head of the Department, I had acted as the overall coordinator of the DST-FIST project

k. Actively involved in implementing the TEQIP-I activities at the departmental level

2. Worked as Dean (Academics) at the institute level for 1 year (June 2013-June 2014).

l. During this period I had acted as the Centre Incharge of the Reporting Centre for all the admissions in to the M.Tech. programs of the institute conducted by CCMT-2013 during June-July 2013

m. Effectively coordinated the Ph.D. admissions in all the departments in July 2013

n. I had thoroughly revised the Academic Rules and Regulations of the B.Tech., M.Tech. and Ph.D. programs of the institute and got those approved by the Senate in its meeting held on 15th July 2013. These regulations are effective from 2013-14.

o. After taking over the charge, I had looked into the matter of NBA accreditation of 14 PG programs and 1 UG program. I have contacted the NBA authorities and started the online filling of the Self Assessment Reports (SARs). I am instrumental in the e-NBA activities and the online SARs are going to be submitted on 31st August 2013.

p. As the Member-Secretary of the Institute Academic Advisory Committee (IAAC), I had convened meetings after taking over the charge and dealt with various academic matters related to the UG, PG and Ph.D. programs of the institute

q. Helped the Chairman, Senate in all the related matters

r. Coordinated the conduct of examinations and the declaration of results in time

s. Performed all the duties of Dean (Academics) as envisaged in the NIT Statues

3. Worked as Coordinator of the Quality Improvement Programme (QIP) Centre of the institute for more than 2 years (October 2012-mid January 2015).

As the QIP Coordinator, I was in effective touch with the office of the Principal Coordinator at IISc Bangalore (past)/IIT Kanpur (present) and organized the Ph.D. admissions through QIP in different departments of the institute.

4. Other duties

t. Worked as incharge Registrar and incharge Director few times in the out-of-station dates of the regular Registrar and the Director

u. Actively involved as a member of the Institute level Boards of Undergraduate and Post-Graduate Studies and Research

v. Acted as the Overall Coordinator of the AICTE Sponsored One Week Short Term Training Programs conducted by different departments of the institute during the year 2008-2009

w. Involved in various committees formed at institute level

x. As a member of Senate, I am actively involved in all the activities of the Senate

At SMVDU, Katra (J&K):

Worked as Dean (College of Engineering) of the University from July 2005 to November 2006 (before joining SV NIT, Surat) and looked after all the activities related to academics, research and administration. Simultaneously worked as Head of the Department of Mechanical Engineering.

21. **Details of the PhD theses guided after joining SVNIT, Surat in 2006**

S.No.	Name of the Student	Title of the Thesis	Date of Registration	Date of completion
1	Padmakar J Pawar (as sole supervisor)	Parameter optimization of machining processes using non-traditional optimization techniques	July 2007	January 2011
2	Bhavesh K Patel (as sole supervisor)	Development of Fuzzy Multiple Attribute Decision Support Systems and their Applications to the Problems of Manufacturing Environment	January 2008	July 2011
3	Vimal J Savsani (joint)	Design optimization of mechanical elements using advanced optimization techniques	July 2007	July 2011
4	Dinesh Singh (as sole supervisor)	Multiple Attribute Decision Making in the Manufacturing Environment	January 2008	January 2012
5	Vivek K Patel (as sole supervisor)	Design optimization of thermal systems using advanced optimization techniques	July 2009	January 2013
6	Vivek D Kalyankar (as sole supervisor)	Parameters optimization of selected manufacturing processes using advanced optimization techniques	January 2010	July 2013

Ongoing PhD students:
1. Mr. Dhiraj Rai Kalal **(Full-time Research Scholar):** Month of Registration: December 2013 **(Admission No. DS13ME001)**
2. Mr. Ankit Saroj **(Full-time Research Scholar):** Month of Registration: July 2015 **(Admission No. D15ME004)**
3. Mr. Kiran C More **(**Full Time Research Scholar but converted to part-time after one year due to family reasons)**:** Month of Registration: January 2013 **(Admission No. DS12ME006)**

4. Mr. G. Waghmare (Part-time Research Scholar): Month of Registration: January 2012 **(Thesis submitted in April 2015)**
5. Mr. T.S. Rajesh (Part-time Research Scholar): Month of Registration: January 2011
6. Mr. Avinash Kamble (Part-time Research Scholar): Month of Registration: August 2011 **(Pre-synopsis seminar delivered)**
7. Mrs. Veera Jani (Part-time Research Scholar): Month of Registration: July 2007 **(Thesis submitted)**
8. **Mr. Pramod B. Lanjewar** (Part-time Research Scholar registered under Nagpur University): Month of Registration: July 2010 **(Thesis submitted)**

22. Liaison with the industries and Research Organizations:

- A Deputy General Manager of L&T industries, Hazira, Surat and a Senior General Manager (Maintenance) of Reliance Industries Limited, Hazira, Surat had completed their M.Tech. (Research) dissertations under my guidance.
- A senior General Manager of Reliance Industries Limited, Hazira, Surat is pursuing his Ph.D. program under my sole guidance since 2012.
- I had visited the plants of (i). Essar Steel Limited and (ii). Reliance Industries Limited of Suratand delivered lectures on research methodology to their R&D engineers.
- Senior managers and senior executives of Reliance Industries Limited, Essar Steel Limited, L&T, DRDO, IPR, etc. had attended the one week short term training programs conducted by me as participants. Subsequently they are applying the gained knowledge to solve their industrial problems.
- Space Applications Centre (SAC) of ISRO Ahmedabad had invited me to train 30 of their scientists for 3 days on the "Advanced Engineering OptimizationThrough Intelligent Techniques" during 1-3 May 2014. In addition, a 2-hours lecture on "Publication of Research Papers in Reputed International Journals" was delivered to about 250 ISRO scientists and engineers.

23. Editorship of International Journals (Editor-in-Chief/Guest Editor):

- International Journal of Applied Evolutionary Computation, IGI Global Publishers, USA (**AssociateEditor**)
- International Journal of Materials, Manufacturing and Mechanical Engineering, IGI Publishers, USA (**AssociateEditor**)
- International Journal of Mechatronics and Intelligent Manufacturing, Nova Science Publishers, USA (**Guest Editor**: 2 issues)
- International Journal of Design Engineering, Inderscience Publishers, UK (**Guest Editor**: 1 issue)
- International Journal of Materials and Engineering Innovation, Inderscience Publishers, UK (**Guest Editor**: 2 issues)
- International Journal of Manufacturing Technology and Industrial Engineering, Serials Publications, New Delhi (**Editor-in-Chief, 2009-2011**)
- International Journal of Advanced Manufacturing Systems, Serials Publications, New Delhi (**Editor-in-Chief, 2009-2011**)
- International Journal of Advances in Thermal Sciences and Engineering, Serials Publications, New Delhi (**Editor-in-Chief, 2009-2011**)

24. Editorial Board Membership of International Journals:

- International Journal of Industrial Engineering Computations, Growing Science Publishers, Canada
- International Journal of Decision Science Letters, Growing Science Publishers, Canada
- ScientiaIranica, Elsevier
- ISRN Aerospace Engineering, Hindwai, USA
- Advances in Robotics Research, Technopress, South Korea
- International Journal of Network and Mobile Technologies, HPU, Hong Kong
- International Journal of Engineering Project, Production Management, NUS Singapore
- International Journal of Mechatronics and Intelligent Manufacturing, Nova Science Publishers, USA
- International Journal of Sustainable Engineering and Renewable Energy, Nova Science Publishers, USA
- International Journal of Machining and Forming Technologies, Nova Science Publishers, USA
- International Journal of Decision Support Systems Technology, IGI Publishers, USA.
- International Journal of Modern Manufacturing Technology, Serials Publications, New Delhi

Editorial Board Membership of National Journals:

- ISST Journal of Mechanical Engineering, Ghaziabad, Uttar Pradesh
- REASON-Technical Magazine of Kalyani Govt. Engg. College, West Bengal

25. Reviewer of International Journals:

- IIE Transactions-Design & Manufacturing, Taylor & Francis, UK
- International Journal of Production Research, Taylor & Francis, UK
- International Journal of Engg. Tribology, IMechE, UK
- International Journal of Advanced Manufacturing Technology, Springer, UK
- Arabian Journal of Science and Engineering, Springer, UK
- International Journal of Applied Evolutionary Computation, IGI Global, USA
- International Journal of Robotics& Computer Integrated Manufacturing, Elsevier, USA.
- International Journal of Machining and Machinability of Materials, Inderscience, UK.
- International Journal of Engineering Optimzation, Taylor & Francis, UK
- Information Sciences, Elsevier, USA
- International Journal of Materials & Product Technology, Inderscience, UK.
- Energy, Elsevier
- International Journal of Mechatronics and Manufacturing Systems, Inderscience, UK.
- Journal of Indian Institute of Science (IISc), Bangalore, India
- Journal of Materials Processing Technology, Elsevier, USA
- Journal of Engineering Manufacture, IMechE, UK
- Journal of Engineering Tribology, IMechE, UK
- Journal of Materials Engineering and Performance, Taylor & Francis, UK
- International Journal of Vehicle Design, Inderscience, UK

- International Journal of Computers & Industrial Engineering, Elsevier, USA
- International Journal of Mathematical and Computer Modeling, Elsevier, USA
- International Journal of Applied Thermal Engineering, Elsevier, USA
- International Journal of Management Research News, USA
- ASME Journal of Mechanical Design, ASME, USA
- International Journal of Production Research, Taylor & Francis, UK
- European Journal of Industrial Engineering, Inderscience, UK
- International Journal of Manufacturing Research, Inderscience, UK
- Journal of Intelligent Manufacturing, Springer, UK
- International Journal of Decision Support Systems and Technology, USA
- International Journal of Information Technologies and Systems Approach, USA
- International Journal of Applied Mathematical Modeling, Elsevier, USA.
- International Journal of Decision sciences, Elsevier, USA.
- International Journal of Approximate Reasoning, Elsevier, USA.
- Journal of Heat and Mass Transfer, Springer, Germany.
- International Journal of Heat and Mass Transfer, Elsevier, USA
- Machining Science & Technology, Taylor & Francis, UK
- Chemical Engineering Research and Design, Elsevier
- International Journal of Mechanics of Time-Dependant Materials, Springer, UK
- Decision Support Systems and Technology, Elsevier, USA
- Research in Engineering Design, Springer
- Journal of King Saud University - Computer and Information Sciences
- IET Generation, Transmission & Distribution, Taylor & Francis, UK
- Asia-Pacific Journal of Chemical Engineering, Wiley, USA
- Engineering Optimization, Taylor & Francis, UK
- Finite Elements in Analysis and Design, Elsevier, USA
- Structural and Multidisciplinary Optimization, Springer
- International Journal of Refrigeration, Elsevier
- International Journal of Applied Soft Computing, Elsevier, USA
- International Journal of Industrial Engineering Computations, Canada
- SME-Journal of Manufacturing Systems, Elsevier, USA
- International Journal of Enterprise Network Management, Inderscience, UK
- Grey Systems: Theory and Application, Emerald Insight
- Science China Information Sciences, China
- Scientia Iranica, Elsevier
- Journal of Zhejiang University-SCIENCE A, China
- AIMTDR-2012
- IEEE Conferences on Automation Science and Engineering
- Congress on Evolutionary Computation, CEC-2012, CEC-2013, CEC-2014, etc.