

## **PERSONAL PROFILE**



**NAME:** Dr. BHARAT KUMAR MAGANBHAI RAMANI

**PRESENT DESIGNATION:** Professor, Deputy Dean, Faculty of PG Studies

**BIRTH DATE:** 2<sup>nd</sup> December, 1978

**BLOOD GROUP:** O<sup>+ve</sup>

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a) **Education Qualifications**

<b>Degree</b>	<b>Subject / Specialization</b>	<b>Percentage &amp; Class</b>	<b>Year Of Passing</b>	<b>Institute / University</b>
SSC	--	81% (Dist.)	1994	G.S.E.B.
HSC	--	78% (Dist.)	1996	G.H.S.E.B.
BE	Mechanical	67.5% (Dist.)	2000	M.S.U-Vadodara
ME / M Tech.	JP & GTPP (Jet Prop. & Gas Turbine)	71.5% (Dist.)	2002	M.S.U-Vadodara
Ph. D.	Mechanical (Solar-Thermal System)	Satisfactory	2008	IIT Roorkee

b) **Employment History**

<b>Sl. No.</b>	<b>Position</b>	<b>Organization/Institute</b>	<b>Date of Joining</b>	<b>Date of Leaving</b>	<b>Duration</b>
1	Trainee Engineers	Akshar Dies & Tools	April 2000	June 2000	3 months
2	Teaching Assistant	Polytechnic, M.S.University of Baroda, Vadodara	February 2001	June 2001	5 Months
3	Temp. Lecturer	Polytechnic, M.S.University of Baroda, Vadodara	July 2001	June 2002	1 Year
4	Lecturer	A.D.Patel Institute of Technology, New V.V.Nagar	July 2002	June 2007	5 Year
5	Assistant Professor	A.D.Patel Institute of Technology, New V.V.Nagar	July 2007	April-2011	3 Year & 9 Months
6	Deputy Dean Associate Professor-Professor	Faculty of Engineering, Marwadi Education Foundation's Group of Institutions, Rajkot	May-2011	Cont.	Cont.

c) **Teaching Experience, New Courses or Laboratories**

<b>Sl. No.</b>	<b>Title of the course taught</b>	<b>Postgraduate/ Undergraduate</b>	<b>Sole instructor or with others</b>	<b>Year</b>
1	Thermal Engineering I	Undergraduate	Sole instructor	2002,4
2	Thermal Engineering III	Undergraduate	Sole instructor	2003,4
3	Basic Mechanical Engineering	Undergraduate	Sole instructor	2008
4	Engineering Thermodynamics	Undergraduate	Sole instructor	2004,2010,11,12
5	Elements of Mechanical Engineering	Undergraduate	Sole instructor	2009, 2010.2011,2012

6	Design of heat transfer equipments	Undergraduate	Sole instructor	2008
7	Fluid Mechanics	Undergraduate	Sole instructor	2009
8	Fluid Machines II	Undergraduate	Sole instructor	2009
9	Computational Fluid dynamics	Undergraduate	Sole instructor	2008
10	Power Plant Engineering	Undergraduate	Sole instructor	2009,2011,2012
11	Alternate Energy Sources	Undergraduate	Sole instructor	2010,2012
12	Material Science & Engineering	Post-Graduate	Sole instructor	2011
13	Product Design Development	Post-Graduate	Sole instructor	2012

**d) Research Experience**

Sl. No.	Position	Institute	Supervisor	Topic	Date of Joining	Date of Leaving	Duration
1	M.E. Student	M.S.U	Dr. Prabhakaran	Buried Pipe Heat Exchanger	June 2001	February 2002	6 Months
2	Ph.D Scholar	IIT Roorkee	Dr. Akhilesh Gupta	Double pass solar collector	January 2005	September 2008	3.5 Years

**e) Awards/Achievements**

- Recipient of “Hari Om Ashram Prerit Research award on renewable energy for outstanding contribution in the field solar energy engineering during 2006-2009.
- Received distinguished award and an honour for distinguishing vision and motivation as a leader of the ISO 9001:2008 team.

**f) Contributions (teaching) to Continuing Education Programmes**

- I. Arranged one day workshop on “Energy Conservation Awareness” at ADIT on 28<sup>th</sup> March 2008.
- II. Conducted two days Training programs (two) on “Basics of Computational Fluid Dynamics” as a co-coordinator at ADIT on 25-26<sup>th</sup> August 2008 and 13-14<sup>th</sup> Feb-2009.
- III. Conducted an expert lecture on “Heat transfer in Solar energy Technology” in STTP on Advances in Heat transfer in Mechanical Engineering at Parul Institute of Technology on 17<sup>th</sup> November, 2008.
- IV. Shared the session as a panel member in the National Conference on “Innovations and Applications of Mathematical modelling techniques in Engineering Systems” held on 10<sup>th</sup> December, 2008 at ADIT.
- V. Delivered an expert talk on “Basic of Computational Fluid Dynamics” to Post-Graduate students at Charotar Institute of Technology Changa.

**g) Short-term Course/Workshop/Seminars etc. Organized**

- I. Conducted two days Training programs (two) on “Basics of Computational Fluid Dynamics” as a co-coordinator at ADIT on 25-26<sup>th</sup> August 2008 and 13-14<sup>th</sup> Feb-2009.
- II. Conducted an expert lecture on “Heat transfer in Solar energy Technology” in STTP on Advances in Heat transfer in Mechanical Engineering at Parul Institute of Technology on 17<sup>th</sup> November, 2008.
- III. Organized jointly one week training program on “Yoga” in ADIT during 22<sup>nd</sup> September to 27<sup>th</sup> September 2009.
- IV. Conducted an expert lecture on “Fundamentals of CFD-Thermal Applications” in STTP organized at R.K.University, 2011.

**h) Ph.D Thesis Supervision**

- 02 registered under Gujarat Technological University working in the field of Solar – Thermal System.
- 01 registered under R.K. University working in the field of Solar Absorption Refrigeration system.
- 01 registered under Kadi University working in the field of Evacuated Tube Solar Collector.
- 01 registered under Charuset University working in the field of Solar –Thermal System.

**i) Post Graduate Thesis Supervision**

Sl. No.	Name of Student/Research scholar	Title of Thesis	Doctorate / Master’s	Year of Completion	Co-guide if, any
1	Aynesh Joshi	Performance analysis of Diesel engine operating on Bio-diesel (Rapeseed oil)	Master’s	2009	Co-guide
2	Tanvi Chaudhari	Design of variable speed wind turbine.	Mater’s	2010	Guide

**j) Sponsored Projects Undertaken**

Sl. No.	Sponsoring Agency	Title of Project	Amount of grant	Period	Co-investigator (If any)
1	CVM	Solar Energy based Vehicle	Rs.1,50,000/-	1-3 years	--

**k) Consultancy Work Done**

Sl. No.	Sponsoring Agency	Title of Project	Amount of grant	Period	Co-investigator (If any)
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1	Kalyan Trading	Testing BHP of supplied engine	Rs 35000/-	2 months	
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**l) Industrial Experience Interaction**

Sl. No.	Organization	Nature of Work	Period
1	Akshar Dies & Tools	Trainee Engineer	4-months

**m) Other Academic And Corporate Activities**

- I. In charge Dean, Faculty of PG Studies and Research in Engineering & Technology.
- II. Deputy Dean, Faculty of Engineering, Marwadi Education Group.
- III. Worked as a deputy management representative (DMR) at ADIT.
- IV. Acted as a head of thermal research group.
- V. Worked as a Secretary of Society of Mechanical Engineers (SME) at ADIT.
- VI. Served as a hostel Superintendent of ADIT hostel.
- VII. Headed Academic Audit team for academic inspection of various colleges under GTU
- VIII. Served as a interview panel member in the recruitment process in various engineering colleges and Boiler proficiency Engineers at Amul Dairy.
- IX. Organized and co-ordinated “Solar water heating cleaning project” as a part of Energy Conversation Club on 1<sup>7th</sup> January 2009
- X. Arranged Technical quiz and Group discussion as a part of SME activity.

**n) List Of Publications**

a) Papers in refereed journals

- 1) **Ramani Bharat M**, Gupta Akhilesh, and Ravi Kumar, Performance of double pass solar air collector, *Solar Energy* 84 (2010) 1929–1937 (Elsevier Publication)
- 2) **Ramani Bharat M**, Gupta Akhilesh, and Ravi Kumar, Measurement of Volumetric heat transfer coefficient of porous material, *Journal of Energy and Power Engineering*,(3), 12, December 2009.
- 3) Rathod Pravin P, Ravi Kumar, Akhilesh Gupta, **Ramani B. M**, Experimental investigation for the condensation heat transfer of r-245fa over Horizontal plain tube, *International journal of Advanced Engineering Technology*. IJAET, April-June-2011, Vol.II, Issue II,/245-249
- 4) **Ramani Bharat M**, Gupta Akhilesh, and Ravi Kumar, Performance and economic analysis of double pass solar collector, *5<sup>th</sup> ASME Conference on Energy Sustainability*, 6, August 2011, Washington DC, USA and possibly will publish in International journal related to Energy Sustainability.
- 5) **Ramani Bharat M**, Gupta Akhilesh, and Ravi Kumar, Thermal modelling of double pass solar air collector, communicated in the International journal.

- 6) Rupesh Ramani, **Bharat Ramani**, Anjana Saparia, Solar Refrigeration Technologies – A key review on current status and recent developments, *International Journal of emerging technology and advanced engineering*, Vol-2, Issue 7, 2012.

b) Papers in International conferences

- 1) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Measurement of extinction coefficient of porous absorber used in solar air collector, Proc. 3<sup>rd</sup> International conference on solar radiation and day lighting SOLARIS 2007, IIT Delhi, 143-147, Feb. 2007.
- 2) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Performance enhancement of double pass solar air collector with porous absorber, Proc. International congress on Renewable Energy, SESI, 2007, New Delhi, Nov. 2007.
- 3) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Simulation of double pass solar air collector, Prod of Indo-Australian International Symposium, IIT Roorkee.
- 4) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Measurement of effective thermal conductivity of porous material, Prod. of 33<sup>rd</sup> National and 3<sup>rd</sup> International Conference on Fluid Mechanics and Fluid Power, organized by Dept. of Mechanical Engineering, IIT Bombay during 7-9 December 2006, 1705.
- 5) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Performance evaluation of double pass solar air collector with and without porous absorber, Proc. 19<sup>th</sup> National and 8<sup>th</sup> ISHMT-ASME Heat and mass transfer conference, JNTU Hyderabad, Jan. 2008.
- 6) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Performance enhancement of double pass solar air collector with porous absorber, Prod. Of International conference, on Advances in Mechanical Engineering, (ICAME-2008) at SVNIT- Surat, during 15-17 December 2008, 254-258.
- 7) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Measurement of volumetric heat transfer coefficient of porous material, Proceedings of the 20<sup>th</sup> National and 9<sup>th</sup> International ISHMT-ASME Heat and Mass transfer conference held during 4-6 January 2010 at IIT Bombay.
- 8) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Performance evaluation of double pass solar air collector with and without porous material, Proceedings of the International Conference on Advances in Mechanical Engineering ICAME 2009 organized by Institute of Mechanical Engineers at Shah Alam, Malaysia during 24-25 June 2009.

c) Papers in National Journal/Conference

- 1) Ramani B.M and P Prabhakaran, Thermal analysis of buried pipe heat exchanger, Proceedings of DAE-BRNS National Symposium held at M.S.University of Baroda, Vadodara, during June 2004.
- 2) Ramani B.M and P Prabhakaran, Mathematical modelling of buried pipe heat exchanger, Proceedings of National conference held at Osmania University, Hyderabad during December 2005.

- 3) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Thermal performance characteristics of double pass solar air collectors-a review, Proc. National conference on advancements and futuristic trends in mechanical engineering, G.Z.S. College of Engineering and Technology Bathinda, Punjab, 216-223, 2006.
- 4) Ramani B.M, Akhilesh Gupta and Ravi Kumar, Study of heat transfer augmentation using twisted tape swirl generator inside rectangular duct of double pass solar air collector, Proc. II<sup>nd</sup> National conference on recent developments in Mechanical engineering, Thaper Institute of Engineering and Technology, Patiala, Punjab, 318-324, 2006.
- 5) Ramani B.M, Akhilesh Gupta, Ravi Kumar and Rathod P, Augmentation of heat transfer in solar air collector, Proc. National conference on strategies for an energy sufficient India, Swami Keshwanand Institute of Technology, Jaipur, Feb. 2008.

**n) Professional Training Received**

Sl. No.	Name of Training	Organization where training was received	Year	Duration
1	Process Analysis and Optimization using Pinch Technology	Indian Institute of Technology-Roorkee	2005	23 <sup>rd</sup> May to 3 <sup>rd</sup> June
2	Effective teaching and Classroom Management	Indian Institute of Technology-Roorkee	2008	27 <sup>th</sup> to 28 <sup>th</sup> January
3	Building Integrated Photovoltaic Thermal System	Indian Institute of Technology – Delhi	2011	8-14, February

**o) Membership Of Professional Bodies/Organizations**

Sl. No.	Name of Professional Body	Membership status
1	ISTE	Life
2	SAE	Annual
3	IAES	Life
4	ISHMT	Life (applied)

**p) Important Conferences / Seminars Attended**

Sr. No	Conference / Seminars	Title of paper read(if any)	Year
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1	SOLARIS 2001	Measurement of extinction coefficient of porous absorber used in solar air collector	2007
2	International congress on Renewable Energy, SESI	Performance enhancement of double pass solar air collector with porous absorber	
3	ICFMFP -2006	Measurement of effective thermal conductivity of porous material	2006
4	ISHMT-ASME Heat and mass transfer	Performance evaluation of double pass solar air collector with and without porous absorber	
5	ICAME 2009, Shah Alam, Malaysia	Performance evaluation of double pass solar air collector with and without porous material	
	ISHMT-ASME Heat and Mass transfer	Measurement of volumetric heat transfer coefficient of porous material	2010

**q) Any Other Relevant Information You May Like To Furnish**

The summary of Activities during 2008-2009

- Completed Ph.D in Mechanical Engineering from IIT Roorkee.
- A.D.Patel Institute of Technology has been certified ISO 9001:2008 in the month of January 2010 and acted as Deputy Management Representative.
- Invited to deliver an expert lecture at many technical/engineering Institutes like Charuset Institute of Technology, R.K.University Parul Institute of Technology, L.J. Institute of Technology & Engineering etc.
- Published two research papers at international level (One published in Int. conference at SVNIT during 15-17<sup>th</sup> December 2008 and other in Int. Conference held at Shah Alam, Malaysia during June 24-26 2009.)
- Conducted two CFD basic training workshops with Prof. V.N.Singh.
- Arranged technical quiz and group discussion as a part of SME activity in February 2009.
- Undertaken Solar water heating cleaning project for energy conservation on 17<sup>th</sup> January 2009.
- Arranged and coordinated many industrial visits for final level Mechanical Students.
- Undertook research project on “Steam –hydraulic engine”
- Co-ordinated consultancy project “engine testing”
- Guided one M.E. project and four B.E. Projects and presently guiding two M.E. dissertations.
- GTU ME Syllabus co-ordinator for I.C Engine and Automobile.
- NBA Coordinator at MEFGI

“The highest reward for man’s dedication to excellence is not he gets from it, but what becomes through it”