



UNIVERSITY COLLEGE OF ENGINEERING
OSMANIA UNIVERSITY
HYDERABAD – 500 007



Prof. V. Uma Maheshwar
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PROFILE

1. Name Dr. V. UMA MAHESHWAR
2. Designation Professor
3. Organisation Osmania University, Hyderabad
4. Department & College Dept. of Mechanical Engineering,
University College of Engineering,
Osmania University, Hyderabad
5. Date and Place of Birth :August 02, 1969 , Jagtial
6. Gender :Male
7. Marital Status :Married
8. Nationality :Indian
9. Academic Qualifications

Degrees	Branch/ Specialisation	Institute/University
Ph.D.	Mechanical Engineering	University College of Engineering, Osmania University
ME	Mechanical Engineering with Specialisation in Turbomachinery	
BE	<i>Mechanical Engineering</i>	

10 Teaching experience:

P.G. level : 23 years
U.G. level : 25 years

11 Fields of Specification

- Turbo machinery
- Thermal Engineering
- Computational Fluid Dynamics
- Quality Management Systems
- Renewable Energy Systems
- Career Guidance and Counseling

12 Appointments held prior to joining the Osmania University service:

Designation	Name of the Employer	Period
1)R&D Engineer & Coordinator-ISO 9001	R&D , Mahindra & Mahindra Nashik, Maharashtra	1996-97
2)Production Manager 3)Manager-Production Planning and Control	Harvin Scientific Optics Pvt Ltd, Hyderabad	1993-96
4)Design and Development Engineer	Renewable Energy Systems Ltd, Hyderabad	1992-193

13 Teaching experience:

P.G. level : 20 years
U.G. level : 22 years

14 Fields of Specification

- Turbo machinery
- Thermal Engineering
- Computational Fluid Dynamics
- Quality Management Systems
- Renewable Energy Systems
- Career Guidance and Counseling

15 List of paper publications

S.No.	Details of Papers Published
1	Vanamala Uma Maheshwar, Nidamarty Laasya Priya, "Galactic Cosmic Energy -a Novel Mode of Energy Harvesting", Journal by Springer Publisher on Emerging Trends in Smart Modeling Systems and Design Vol. 2, 2019
2	V. Uma Maheshwar, Ankita Chiluka,"Application of Natural Fibre Reinforced Polymer Composite Materials in Turbo Machines", Sixth International Conference on Natural Polymers, ICNP – 2018, held at Mahatma Gandhi University, Kottayam, Kerala during December 07 - 09, 2018
3	V. Uma Maheshwar, Aditya Shiva Appalla,"Biodegradable materials for tissue engineering in surgeries and organ transplantations", Sixth International Conference on Natural Polymers, ICNP – 2018, held at Mahatma Gandhi University, Kottayam, Kerala during December 07 - 09, 2018
4	V Uma Maheshwar, Vijrumbana, "Analysis of Key Design Parameters of a Pure Scramjet Engine to Reduce its Starting Mach Number", International Journal of Modern Engineering and Research Technology. Volume 5, Special Issue, June 2018, pp 161-177
5	V. Uma Maheshwar, Moogi Srinivasa Rao "Comparative Study of Structured and Unstructured Meshing of Nozzle Model", International Journal of Modern Engineering and Research Technology. Volume 5, Special Issue, June 2018, pp 178-186

S.No.	Details of Papers Published
6	V. Uma Maheshwar, Pavan Mummadi, “ Computational Study of Savonius Vertical Axis Wind Turbine (VAWT) for Different Overlap Ratios”, International Journal of Modern Engineering and Research Technology. Volume 5, Special Issue, June 2018, pp 187-197
7	V. Uma Maheshwar, RVSSR Pavana Kumar, “Computational Study of Two Phase Flow and Heat Transfer in Helical Pipes”, International Journal of Modern Engineering and Research Technology. Volume 5, Special Issue, June 2018, pp 198-205
8	Vanamala Uma Maheshwar, Nidamarty Laasya Priya, “Galactic Cosmic Energy -a Novel Mode of Energy Harvesting”, International Conference on Emerging Trends in Engineering(ICETE) Organised by Alumni Association, University College of Engineering, Osmania University at Hyderabad during March 22-23, 2019 : pp 458-465
9	V. Uma Maheshwar, AMK Prasad, “Experimental Investigation of Downstream Flow Field in a Linear Turbine Cascade: Effects of Relative Wall Motion” , International Journal of Advanced Research in Basic Engineering Sciences and Technology, Volume 2, Special Issue 22 - April 2017, pp.37-49, ISSN 2456-5717
10	V. Uma Maheshwar, AMK Prasad, “Experimental Investigation of Downstream Flow field in a Linear Turbine Cascade: Effects of Incidence changes”, International Journal of Engineering Technology, Management and Applied Sciences, Volume 4, Issue 10, Oct 2016, ISSN 2349-4476
11	V.Uma Maheshwar & Raja Rao, An Innovative Design Concept of Four Wheel Steering Mechanism for an Automobile, SAE International Journal, Paper ID : 2013-01-2845, Published on Nov 27, 2013. The same paper was also Invited for presentation at 8th SAEINDIA International Mobility Conference & First Commercial Vehicle Engineering Congress 2013 held during December 4-7, 2013 at Chennai Trade Center, Chennai Organised by SAE International.
12	Md. Abdul Raheem Junaidi, GM Sayeed Ahmed, Dr. Nawazish Mehdi, V. Uma Maheshwar, “Design Optimisation and Analysis of a Steam Turbine Rotor Grooves”, IOSR Journal of Mechanical and Civil Engineering, Vol 8, Issue 6 (Sep-Oct 2013), pp 66-72
13	V. Uma Maheshwar, Ahmed Abdul Moiz, Ali Qasim Khoyee, P Satya Seshu and Vassan Hariharan “Hybrid Electric Vehicle Penetration in Asia-Pacific Countries – Current Scenario and Future Challenges”, 7th SAE International Mobility Conference ,New Delhi, 9-11 January 2012.
14	V. Uma Maheshwar, "Career Guidance for Final Year Engineering Students”, International Conference on Reforms in Technical Education-Global Trends (ICORTE-2010), organised by Dept. of Mechanical Engineering, University College of Engineering, Osmania University at Hyderabad during 27-28 August, 2010
15	V. Uma Maheshwar, "Placement Officer – the Brand Manager of College”, International Conference on Reforms in Technical Education-Global Trends (ICORTE-2010), organised by Dept. of Mechanical Engineering, University College of Engineering, Osmania University at Hyderabad during 27-28 August, 2010
16	V.Uma Maheshwar, P. Usha Sri "Innovative Teaching- Learning Methods for Engineering Education”, International Conference on Reforms in Technical Education-Global Trends (ICORTE-2010), organised by Dept. of Mechanical Engineering, University College of Engineering, Osmania University at Hyderabad during 27-28 August, 2010
17	V. Uma Maheshwar, P. Usha Sri, M. Prashanth Kumar,A. Vijay Kumar "Global Wind Energy Scenario- Role of Mechanical Engineering" International Conference on Recent Advances in Mechanical Engineering(ICRAME-2010), organised by Noorul Islam University, Kumarakoil, Tamilnadu during April 8-9, 2010.

S.No.	Details of Papers Published
18	P. Usha Sri, V. Uma Maheshwar and C. Syamsundar "Computational Analysis of a Centrifugal Pump Impeller", International Conference on Recent Advances in Mechanical Engineering(ICRAME-2010), organised by Noorul Islam University, Kumarakoil, Tamilnadu during April 8-9,2010.
19	P. Usha Sri, V. Uma Maheshwar and C. Ganesh "Design and Analysis of Francis Turbine Casing" is presented at International Conference on Recent Advances in Mechanical Engineering(ICRAME-2010),organised by Noorul Islam University, Kumarakoil, Tamilnadu during April 8-9, 2010.
20	L Sivaramakrishna, V Uma Maheshwar, " Web based On-line Condition Monitoring Systems" International Conference on "Vibration Engineering and Technology of Machinery (VETOMAC-IV) " during December 17-19, 2007 at Hyderabad organised by University College of Engineering in Collaboration with BHEL R&D and Vibration Institute of India.
21	V Uma Maheshwar "Effect of Relative Wall Motion on Secondary and Tip Clearance Flows in a Linear Turbine Cascade", International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM 2004) held during December 28-30th , 2004 at IIT-Kharagpur organised by Indian Institute of Technology, Kharagpur.
22	P. Usha Sri, V. Uma Maheshwar, G Rammurthy, "Heat Transfer Analysis of Free convection of Non-Newtonian Power Law Fluid over a Vertical Plate with Constant Heat Flux", The Institute of Engineers (India) Journal-Chemical Engineering, Vol. 84, September 2003, pp. 25-32
23	C. Srinivas Rao, V. Uma Maheshwar "Knowledge Management: New Strategic Imperative for Business" ,National Seminar on "Convergence of Technologies" held during 20_22nd January, 2001 organised by Arunai College of Engineering, Tiruvannamalai
24	C. Srinivas Rao, V. Uma Maheshwar ,"Implementing E-Govemance - Hard and Soft Solutions" Indian Engineering Congress -2000 held at Hyderabad during 18-22, December, 2000 organised by Institute of Engineers- India.
25	V Uma Maheshwar, "Eco-friendly Transport Vehicles - Recent Technological Developments" ,Sixteenth National Convention of Environmental Engineers, held at Guwahati during November 4-5, 2000 organised by The Institution of Engineers (India), Guwahati.
26	V Uma Maheshwar, P Usha Sri "Wind Energy in India - Future Prospects" at International Conference on "Energy Management -beyond 2000" held at Lucknow during October 19-21,2000 organised by The Institution of Engineers (India), UP State Centre, Lucknow.
27	V Uma Maheshwar, DN Reddy "Small Wind Turbine Electrical Pump Systems for Rural Applications in India- A Renewable Energy option" is presented at International Conference on "Energy Management -beyond 2000" held at Lucknow during October 19-21, 2000 organised by The Institution of Engineers (India) , UP State Centre, Lucknow.
28	V Uma Maheshwar, P Usha Sri "Application of Quality Systems in Technical Education" National Conference on "Technical Education in the new Millennium - Management & Challenges" (TECMANCH-2000)" organized during March 12-13, 2000 by University College of Engineering (Autonomous) , Osmania University Hyderabad

S.No.	Details of Papers Published
29	V Uma Maheshwar, Ravande Kishore "Role of Technology in Technical Education" is presented at National Conference on "Technical Education in the new Millennium - Management & Challenges" (TECMANCH-2000)" organized during March 12-13,2000 by University College of Engineering (Autonomous), Osmania University , Hyderabad
30	V. Uma Maheshwar, G Rammurthy "Combined Free and Forced Convection Flow of non-Newtonian fluids over a Vertical Surface", Asia Pacific Journal of Energy, Heat and Mass Transfer, Vol. 21, No. 4, December 1999, pp. 157-174 (ISSN 0970-9991)
31	V. Uma Maheshwar, G Rammurthy " Computer Aided Model for Analysis of Mixed Convection Heat Transfer Boundary Value Problem over a Vertical Surface", Fifteenth National Convention of Mechanical Engineers and National Seminar on "Role of Information Technology in Engineering" organized by the Institution of Engineers (India), Andhra Pradesh State Centre, Hyderabad during December 16-18, 1999.
32	V Uma Maheshwar, P Usha Sri "Quality Management Systems for Technical Education", National Seminar on Restructuring of Technical Education System for Better Efficiency and Effectiveness organised by ISTE Chapter, V. R. Siddhartha Engineering College, Vijayawada during December 5-6, 1997

16 Publications other than journal articles (books, chapters in books):

Year	<u>Activity:</u> Text/Reference books published by International Publishers, with ISBN/ISSN number
2007	Editor for Proceedings of International Conference on Vibration Engineering and Technology of Machinery (VETOMAC –IV) Organised by University College of Engineering, OU and BHEL R&D at Hyderabad during Dec 17-19, 2007 ISBN 819041641-4

Year	<u>Activity:</u> Subject books published by National Level publishers, with ISBN/ISSN number or state / Central Government publications
2010	Editor for Souvenir for International Conference on Reforms in Technical Education –Global Trends (ICORTE-2010) Organised by Dept of Mechanical Engineering, University College of Engineering, OU at Hyderabad during August 27-18, 2010

17 Responsibilities held at University & Outside

- Placement Officer, University College of Engineering, (2005-2019)
- Co-Convener, TS PGECET 2019
- Founding Secretary, National Association of Placement Officers (NATPO)
- Founding Jt. Secretary, Alumni Association , University College of Engineering, Osmania University

- 18 Current Additional Responsibilities at University & Outside
- Coordinator, Human Capital Development Centre, Osmania University
 - Vice Chairman, Society of Automotive Engineers-India Hyderabad Division
 - Faculty Advisor, SAE Colegiate Club, OU Engg College
 - Faculty Advisor, YOUVA NGO, Osmania University
 - Faculty Advisor, Engineers Music & Cultural Club, OU Engg College