

## RESUME

**1. Name in full** : Dr. Vanimireddy Diwakar Reddy

**2. Designation** : Associate Professor

**3. Contact Phone number** : 9440088282  
**e-mail id** : vdrsvuce@gmail.com

**4. Date of Birth** : 05-05-1978



### 5. Academic Credentials

Degree	University	Year	Field of Specialization
B.Tech	Sri Venkateswara University College of Engineering, Tirupati	2000	Mechanical Engineering
M.Tech	Visweswaraya Technological University, Belgaum	2005	Machine Design
Ph.D	Sri Venkateswara University College of Engineering, Tirupati	2012	Tribology

### 6. Experience

Organization	Designation	Period
Sri Venkatewara University College of Engineering, Tirupati	Associate Professor	August 2009 – Till Date
Yogananda Institute of Technology & Science, Tirupati	Assistant Professor	July 2008 – August 2009
Chadalawada Ramanamma Engineering College, Tirupati	Assistant Professor	Dec.2007 – June2008
Sri Venkatewara University College of Engineering, Tirupati	Teaching Assistant	Dec.2000 to Oct. 2002 & July 2004 to Dec.2007

### 7. Areas of Specialization

: Machine Design,  
Tribology, Machine Dynamics

Date

Signature of the Teacher

## A) List of Papers published in International / National Journals

1. **V.Diwakar Reddy**, K. Ravindranath, K, G. Jayachandra Reddy, “On the static and dynamic performance of short spiral hydrodynamic journal bearing” Central Machine Tool Institute, India, Journal of MTT Volume No: 9 Issue: 4 April 2010. ISSN:0972-7396.
2. **V.Diwakar Reddy**, K. Ravindranath, K, G. Jayachandra Reddy, PS Ramakrishnudu *Static and Dynamic Performance Characteristics of Hydrodynamic Short Divergent Spiral Journal Bearing*” IUP Journal of Mechanical Engineering, Vol.4, No.1, February 2011.
3. Ananda Kumar Eriki, **V. Diwakar Reddy**, “*Tool and Job Scheduling in a tool constrained environment using Heuristic approach*”, International Journal of Mechanical Computational and Manufacturing Research, Vol.1, No.1, June 2012, 12-18, ISSN: 2301-4148.
4. S. Rushma, **V. Diwakar Reddy**, G. Jayachandra Reddy and K. Ramakrishna Prasad, *Lubrication of journal bearing considering roughness, couple stress under cavitation condition*” International Journal of Applied Mathematics and Mechanics, Vol. 7(21); 85-98, 2011.
5. A. Hemantha Kumar, G. Krishnaiah, **V. Diwakar Reddy**, “*ANN based prediction of surface roughness in turning*”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 3, Issue2 May – August 2012, pp162-170.2012.
6. **V.Diwakar Reddy**, Sushil Kumar Priya, G. Krishnaiah and G. Bhanodaya Reddy “*Sensitivity Analysis Of Surface Roughness Of AISI 1040 Carbon Steel In Dry Turning Operation With PVD Tool Using Taguchi Design Method*” Central Machine Tool Institute, India, Journal of MTT Volume No:11 Issue:12 Pages 5- 11; Dec.2012. ISSN:0972-7396.
7. C. Bhaskar Reddy, **V.Diwakar Reddy**, C.Eswara Reddy,”*Experimental investigations on MRR and surface roughness of EN19 & SS420 Steels in wire EDM using Taguchi Method*”, International Journal of Engineering Science and Technology, vol. 4 IssueXI Pages 721 to 732, Nov. 2012.
8. A.Gopichand, G. Krishnaiah, B.Mahesh Kumar, **V.Diwakar Reddy**, A.V. N.L. Sharma, “*Design and Analysis of corrugated steel sandwich structure Using ANSYS Workbench*”, International Journal of Engineering Research & Technology (IJERT), Vol.-I, Issue – 8, 2012. ISSN:2278-0181.
9. T.Sreenivasa Murthy, R.K. Suresh, G. Krishnaiah, **V.Diwakar Reddy**, “*Optimisation of process parameters in dry turning operation of EN41B alloy steels with cermet tool based on the Taguchi method*” International Journal of Engineering Research and Applications, (IJERA), Vol.3, Issue2 March-April – 2013.
10. K. Mani lavanya, R.K. Suresh, A. Sushil kumar Priya, **V.Diwakar Reddy**, “*Optimisation of Process Parameters in Turning Operation of AISI-1016 Alloy Steels with ANN using Taguchi Method and ANOVA*” IOSR Journal of Mechanical and Civil Engineering (IOCR-JMCE) Vol.-X, Issue X (may-June 2013)PP 01-00ISSN:2320-334X.

11. **V.Diwakar Reddy**, A. Gopichand, G. Nirupama, G. Krishnaiah, "Design and Fabrication of Corrugated Sandwich Panel using Taguchi Method", IAEME, International Journal of Design and Manufacturing Technology (IJDMT), Vol.-4, issue – 2, May – August,2013. ISSN – 0976-6995. Impact factor 4.2823(2013).
12. AVNL Sharma, **V. Diwakar Reddy**, K. Venkatasubbaiah, " Influence of Cutting parameters on surface roughness, metal removal rate and power consumption on EN353 with coated tools by ANOVA" Central Machine Tool Institute, India, Journal of MTT Volume No: 12 Issue: 3 March2013;ISSN:0972-7396.
13. S.Indumathi, **V. Diwakar Reddy**, G.Krishnaiah, "Grey Relational Analysis to Determine Optimum Process Parameters for Thermo Mechanical Form Drilling - Riveting",International Journal of Research in Aeronautical and Mechanical Engineering", Voume No. 1 Issue.3 July,2013, Page-74-83.
14. A. Gopichand, Dr. G. Krishnaiah, **Diwakar Reddy**. V, N. V. S. Shankar," Modeling Analysis of a steel Sandwich Plate System (SPS) Floor" International Journal of Engineering Research and Technology, Volume No. 2 Issue . 11, Nov. 2013 ISSN2278-0181
15. A. Gopichand, Dr. G. Krishnaiah, **Diwakar Reddy**. V, D. Krishnaveni," Numerical Simulation of Sandwich Plate System (SPS) Floor" International Journal of Innovative Research in Science and Engineering and Technology, Volume No. 2 Issue . 11, Nov. 2013. ISSN2319-8753.
16. G.Nirupama, V.Diwakar Reddy,G.Krishnaiah, "Design and Fabrication of Spot Welded Corrugated Panel Under Three Point Bending by FEM" GCMM-2014, Procedia Engineering, Elsevier, Dec. 2014.
17. G.Mahedhar Reddy, V.Diwakar Reddy, "Theoretical Investigations on Dimensional Analysis of Ball Bearing Parameters by using Buckingham Pi-Theorem"GCMM-2014, Procedia Engineering, Elsevier, Dec. 2014.
18. J. Raghu raj, VVLN Sravanthi, V. Diwakar Reddy, " Design and fabrication of micro load sensor", Journal of Basic and applied engineering research, April 2015, pp.706-709.
19. B.L. Narayana, V. Diwakar Reddy, G. Krishnaiah, "Characteristics Investigation of Squeeze Film Damper using Triangular Element" International Journal of innovation in Engineering and Technology. April,2015.
- 20.

## **B) List of Papers presented in International Conferences/Seminars**

1. Jachandriah.B, **Diwakar Reddy**. V, Bhanodaya Reddy.G, Eswara Reddy. C, "Jatropha Oil with Pre-heating as an Alternative Fuel for C.I Engine", 5<sup>th</sup> International Symposium on Fuels and Lubrication, IOCL, R&D Center, Faridabad, India, in association with SAEINDIA, New Delhi, March, 2006, SAE No. 2006-28-0040.
2. **V.Diwakar Reddy**, G. Bhanodaya Reddy, C.E. Reddy, K. Vijaykumar Reddy, "A comprehensive survey on Bio- Fuels for use in IC Engines", International Conference

on IC Engines and combustion, JNTU College of Engineering, Hyderabad, 6<sup>th</sup> – 9<sup>th</sup> December, 2007.

3. **V.Diwakar Reddy**, K. Ravindranath, K. Ramakrishna Prasad, G. Jayachandra Reddy,” Load Carrying capacity of Hydrodynamic Convergent Spiral Journal Bearing”, IISc Centenary - International Conference on Advances in Mechanical Engineering (IC-ICAME), IISc Bangalore, July 2<sup>nd</sup> – 4<sup>th</sup> , 2008.
4. **V.Diwakar Reddy**, K. Ravindranath, K. Ramakrishna Prasad, G. Jayachandra Reddy,” Dynamic Characteristics of Convergent Spiral Journal Bearing ”, 6<sup>th</sup> International Conference on Industrial Tribology – 2008 (ICIT-2008), IOCL, New Delhi, Nov. 6<sup>th</sup> - 8<sup>th</sup> , 2008 P. No. 052.
5. **V.Diwakar Reddy**, K. Ravindranath, K.Dileep Kumar, “Experimental and Neural Network Analysis of a Rotor on Short Spiral Journal Bearing”, Paper code 181 International Conference on Design and Advances in Mechanical Engineering, SKP Engg. Collge,Dec. 17<sup>th</sup> -18<sup>th</sup> 2011.
6. **V.Diwakar Reddy**, G. Krishnaiah, et al “ Analysis of form drilling AA1100 using HSS tool”, Paper code 121178,PSRCenter, Bangkok

### C) List of Papers presented in National Conferences / Seminars

1. **V.Diwakar Reddy**, T.K. Mondal , B. S. Suresh , “Coupled Field Analysis of Piston Cylinder Apparatus for High Pressure and High Temperature DTA System”. All India Seminar/ Conference on Advances in Mechanical Engineering, S.V.University College of Engineering, Tirupati, August 2004, pp: D1-D6.
2. **V.Diwakar Reddy**, T.K. Mondal, B.S. Suresh, “To study the change of volume of Ammonium Nitrate in terms of pressure in High Pressure Differential Thermal Analysis System and Calculate by Gruneissen Equation”. All India Seminar/Conference on Advances in Mechanical Engineering, S.V.University College of Engineering, Tirupati, August 2004 pp: B4-B6.
3. **V.Diwakar Reddy**, P. Hema, “Mathematical Modeling of Friction Stir Welding Parameters on Lathe”, National Conference on Recent Advances in Manufacturing Engineering, RAMT 06, Velammal Engineering College, Chennai February 2006 pp: 67-70.
4. **Diwakar Reddy.V**, K. Ravindranath, “Creep Induced Stress Relaxation of the Bolted Joints Using FEA”, All India Seminar/Conference on Emerging trends in Mechatronics and Instrumentation, S.V.University College of Engineering, Tirupati, June 2007.
5. G. Bhanodaya Reddy, **V. Diwakar Reddy**, C. Eswara Reddy “Utilisation of Bio-Diesel of Jatropha oil in IC Engines – A Comparative Study”, All India Seminar/Conference on Emerging Trends in Mechatronics and Instrumentation, S.V.University College of Engineering, Tirupati, June 2007.
6. G. Nirupama, C. Ramakishore, **V.Diwakar Reddy**, “Major Causes for Delamination in Composites and Available Methods to Overcome”, All India Seminar / Conference on Emerging Trends in Mechatronics and Instrumentation, S.V.University College of Engineering, Tirupati, June 2007.

7. **V.Diwakar Reddy, G. Dileep, K. Ravindranath** “ Analysis of Vibration Parameters of a Rotor on Spiral Journal Bearing using Neural Networks”, Presented at 2<sup>nd</sup> AP Science Congress, organized by AP Akademi of Sciences, Hyderabad and Sri Venkateswara University, Tirupati, Nov. 2009. # ES-O:28
8. **V.Diwakar Reddy, G. Dileep, K. Ravindranath** ”Application of DARSIRI method to improve the functionality of journal bearing ” TNATRAGNANA – 2009 held on 6<sup>th</sup> & 7<sup>th</sup> Oct .2009 at GSSS Institute of Engineering and Techonology,Mysore.
9. C. Bhaskar Reddy, **V. Diwakar Reddy**, C. Eswara Reddy, G. Jayachandra Reddy “Evolution and Growth of Wire Electrical Discharge Machining, (WEDM) and Applications – A Review” 2<sup>nd</sup> AP Science Congress held on 14<sup>th</sup> to 16<sup>th</sup> Nov. 2009at Sri Venkateswara University, Tirupati. # ES-O:
10. C. Bhaskar Reddy, **V. Diwakar Reddy**, C. Eswara Reddy, G. Jayachandra Reddy “Unconventional Machining- Role of Electric Discharge Machining – A Review” Presented at Vallabha Vidhya Nagar, Gujarat. Nov. 2010.

#### **D) List of M.Tech dissertations guided - Completed / In Progress**

S.No	Name of the Student	Title	Year of Completion
1.	Mr. M. Rajesh (1108526)	A real Coded genetic algorithm for optimization of cutting parameters in turning for HSS tool material	2011
2.	Mr. B. Balaji (1105512)	Productivity improvement of the Grid Caster By Computer based Statistical tools	2011
3.	Miss. Bhargavi (1109235)	Assessment of tool geometry and tool wear in orthogonal cutting by image processing using genetic algorithm and artificial neural network	2011
4.	Mr. Hari Krishna (1109531)	An integrated approach for desired surface roughness on mild steel with hss & carbide tipped tool using GA &ANN	2011
5.	Mr. Naresh Kumar M (1109527)	Analysis of Tool parameters of friction riveting process	2012
6.	Mr. D. Mallikarjuna Reddy (1109523)	Prediction of surface roughness & Optimisation of cutting parameters using Back Propagation (GUI) Artificial Neural network & Genetic Algorithm on EN32 material with Tungstun Carbide and CBN tool	2012
7	C. Rajesh (1110541)	Parametric Analysis of turning operation of AISI 4140 using CVD tool	2013
8	A. Navanth (1109521)	Optimisation of Drilling Parameters of AL2014 & 7072 Alloys by using Genetic Algorithm and Grey Relational Analysis	2013
9	B. Manohar (1110531)	Parametric Analysis of turning operation of EN24 using PVD tool	2013

### E) Courses handled

<b>P.G.Program</b>	<b>U.G.Program</b>
Finite Element Methods Software Laboratory	Engineering Graphics Machine Drawing Kinematics of Machinery Principles of Machine Design Design of Machine Members Finite Element Methods Heat Transfer Instrumentation and Control CAD laboratory Computer Graphics Computer Graphics Laboratory

### E) Administrative Positions Held

<b>Name of the Organization</b>	<b>Designation</b>	<b>Period</b>	
		<b>From</b>	<b>To</b>
Sri Venkateswara University College of Engineering, Tirupati.	In-Charge, CAD software Laboratory	Sept. 2009	Continuing
Sri Venkateswara University Engineering college Hostels., Tirupati	Deputy Warden (Maintenance)	April, 2010	May,2014
EAMCET – 2010	Assistant Regional Coordinator	2010	-
Approval Committee of AICTE Mandatory Disclosure	Member	2010,2011	Continuing
Member of Financial Management Report, TEQIP (Phase – II) Scaling 1.2 (World Bank Project)	(FMR) - Member	2011	Continuing
Approval Committee Member of UGC – 12 <sup>th</sup> Plan Grant of College of Engineering, SVU – Tirupati	Member	2011	-
Department NAAC Approval Committee	Co-ordinator	2013	Continuing
Co-ordinator for spot valuation	Co-ordinator	Dec-2013	--

### F) Conferences / Seminars/Workshops Organized

S.No	Title of the event	Capacity	Period
1	“All India Seminar/Conference on Advances in Mechanical Engineering”, S.V.University College of Engineering, Tirupati,	Member	August 2004.
2	“Students Symposium on M`explore -2007 in Mechanical Engineering”, S.V.University College of Engineering, Tirupati	Member	March 2007.
3	“All India Seminar/Conference on Emerging Trends in Mechatronics & Instrumentation”, S.V.University College of Engg., Tirupati.	Member	June 2007.
4	A Two day Workshop on Entrepreneurship is being organized by Dept. of Mechanical Engineering, S.V.University College of Engg., Tirupati. in association with Entrepreneurship CELL, Dept. of Management studies,S.V.University,Tirupati.	Member	6 <sup>th</sup> and 7 <sup>th</sup> OCT. 2007.
5	TECHMEET – 2K8, a one day 3 <sup>rd</sup> National level Technical paper presentation being organized by CREC, Tirupati.	Convenor	8 <sup>th</sup> March 2008.
6.	2-Week ISTE Workshop on <b>Engineering Thermodynamics National Mission on Education through ICT</b> (MHRD, GoI) Empowerment of Students & Teachers	Coordinator	11 <sup>th</sup> to 22 <sup>nd</sup> Dec. 2012

### G) Conferences / Seminars/Workshops Attended

S.No	Title of the event	Organizing Institution	Period
1.	International Conference on IC Engines and combustion	JNTU College of Engineering, Hyderabad	6 <sup>th</sup> – 9 <sup>th</sup> Dec., 2007.
2.	IISc Centenary -International Conference on Advances in Mechanical Engg.(IC-ICAME)	IISc Bangalore	2 <sup>nd</sup> – 4 <sup>th</sup> , July 2008.
3.	6 <sup>th</sup> International Conference on Industrial Tribology – 2008 (ICIT-2008),	IOCL, New Delhi,	Nov. 6 <sup>th</sup> -8 <sup>th</sup> , 2008
4.	2 <sup>nd</sup> AP Science Congress	Sri Venkateswara University, Tirupati	14 <sup>th</sup> to 16 <sup>th</sup> Nov. 2009
5.	All India Seminar / Conference on Emerging Trends in Mechatronics and Instrumentation,	S.V.University College of Engineering, Tirupati,	June 2007.
6.	5 <sup>th</sup> International Symposium on Fuels and Lubrication,	IOCL, R&D Center, Faridabad, India, in association with SAEINDIA, New Delhi,	March, 2006,
7.	National Conference on Recent Advances in Manufacturing Engineering, RAMT 06,	Velammal Engineering College, Chennai	Feb., 2006
8.	All India Seminar / Conference on Advances in Mechanical Engineering	S.V.University College of Engineering, Tirupati.	Aug. 2004

S.No	Title of the event	Organizing Institution	Period
	<b>Workshops</b>		
9.	Polymer Composite Materials: Manufacturing, Properties and their Applications	BGS R&D Center, Department of Mechanical Engineering S.J.C. Institute of Technology, Chickballapur. Karnataka,INDIA	April 2003.
10	Gas Dynamics and its Applications conducted by	Department of Mechanical Engg., K.L. College of Engineering Guntur, Andhra Pradesh,INDIA	Nov., 2005.
11.	Train the Trainer Program-Autodesk Inventor.	AutoDesk India Pvt. Ltd. in association with Department of Mechanical Engg. J.N.T.U College of Engineering, Hyderabad, INDIA	March 2006
12	IBM Training Program on AIX, RDBMS, DB2, and SQL conducted	IBM IT-Educational Services, Bangalore, held at S.V.U College of Engineering, Tirupati, AP, INDIA,	May 2006.
13	Entrepreneurship (One Week)	Sri Padmavathi Mahila viswavidhyalayam, Tirupati	29-03-2010-09-04-2010
14	Research Methodology	TEQIP, SVUCE, Tiruapti	29-09-2012-30-09-2012
15	CEP work shop for Coordinator on Engineering Thermodynamics	CE & QIP IIT, Bombay	20-11-2012-24 -11-2012
16	Akash for Education	Two day ISTE Workshop NMEICT(MHRD)	10-11-2012 – 11-10-2012
17	Data Base Management Systems	Two Week ISTE Workshop NMEICT(MHRD)	21-05-2013 to 31-05-2013
18	Pedagogy Training (Basic Module)	NITTTR, Chandigarh	30-09-2013 to 04-10-2013



## H) Projects sanctioned

Scheme	Name of the Principal Investigator	Amt sanctioned Rs.	Sanctioned letter details	Remarks
		NR+ R		
<b>MODROBS ,AICTE, NewDelhi</b>	Dr.V.Diwakar Reddy	900000+100000 =10,000,00	Ref.No. 9-189/RIFD/ MODROB/ Policy- 1/2013-14 Dt. 30-07- 2013	Under progress

## I) Membership of professional bodies

- (i) Tribology Society of India (TSI) - Life Member
- (ii) Member Institute of Engineers – MIE (M – 147-156-7)
- (iii) Member of ISTE