

# CURRICULUM VITAE

## VENKATKUMAR D

Associate Professor  
Department of Mechanical Engineering  
National Engineering College  
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### Permanent Address

10/25A, Rajagopalapuram  
Nachiarpatti (Post)  
Srivilliputhur (Talk)  
Virudhunagar Dist.  
Pin - 626 125.

### Educational Degrees

- PhD* Faculty of Mechanical Engineering, Anna University Chennai, 2017.  
*Thesis:* Prediction of thermal histories, residual stresses and distortion in welded components. (Aug. 2017)
- ME (CAD/CAM)* Kalasalingam University (KLU)  
Krishnan Koil, Srivilliputhur - 626 190, 2002, 82%
- BE (Mechanical)* Kalasalingam University (KLU)  
Krishnan Koil, Srivilliputhur - 626 190, 1999, 65.85 %
- Higher Secondary* Thiyagaraja higher secondary school, Srivilliputhur, 1995, 74.16%
- SSLC* Thiyagaraja higher secondary school, Srivilliputhur, 1993, 77%

### Present position

*Associate Professor* Department of Mechanical Engineering, National Engineering College,  
Kovilpatti - 628 503. (Dec 2017 onwards)

### Previous Position

*Assistant Professor (Senior Grade)* Department of Mechanical Engineering, National Engineering College,  
Kovilpatti - 628 503. (May 2010 - Dec 2017) - 7 Years.

*Assistant Professor* Department of Mechanical Engineering, National Engineering College,  
Kovilpatti - 628 503. (June 2005 - May 2010) - 5 Years.

## Professional Experience

- *Assistant Professor* Department of Mechanical Engineering, R.V.S.College of Engineering and Technology, Dindigul (Sept 2002 – May 2005) – 2 years – 8 Months.

## Research Supervisor

- *Recognized supervisor* of Anna University Chennai for guiding Ph.D. scholars under the faculty of Mechanical Engineering

## Awards / Achievements:

- Successfully implemented the online Learning Management Systems (LMS) platforms such as Google Classroom & MOODLE at National Engineering College.
- Received Best paper award in the International Conference on Emerging Trends in Materials and Manufacturing Engineering (IMME17) 10-12 March 2017, organized by NIT, Trichy.

## Funded Research Projects Details (Completed)

- **Title of the project** : Prediction and Control of distortion in components during hardfacing.

**Duration** : 3 years (2007 -2010)

**Funding Agency** : Department of Atomic Energy & Rs.20,00,000/-

**Collaborator** : IGCAR, Kalpakkam

## Publications

### International / National Journals

S.No.	Name of the Journal	Title of the Paper	DOI
1.	Journal of Mechanical Science and Technology (2016)	3D finite element simulation of temperature distribution, residual stress and distortion on 304 stainless steel plates using GTA welding	10.1007/s12206-015-1208-5
2.	Materials Today: Proceedings (2018)	Finite Element Analysis of Heat Input Effect on Temperature, Residual Stresses and Distortion in Butt Welded Plates	10.1016/j.matpr.2017.11.525
3.	High temperature Materials and Process (2019)	Effect of constraints on residual stresses and distortions in a 316 stainless steel butt welded plates	<a href="https://doi.org/10.1515/http-2019-0048">https://doi.org/10.1515/http-2019-0048</a>
4.	Journal of structural engineering (2008)	Stress analysis at knuckle of variable thickness in torispherical end vessels using axisymmetric shell finite element	35(2); Jun-Jul 2008, 101-107

## Conferences

### International Conferences

S.No.	Title of the paper	Name of the college	Duration
1.	Finite Element Analysis of Heat Input Effect on Temperature, Residual Stresses and Distortion in Butt Welded Plates	National Institute of Technology, Trichy.	March 2017
2.	Modeling and Prediction of Thermal Histories and Residual Stresses in Single Bead on Plate Welding Process	Mepco Schlenk Engineering College, Sivakasi.	March 2016

### National Conferences

S.No.	Title of the paper	Name of the college	Duration
1.	Analysis of overall equipment effectiveness	Gogte Institute of technology, Belgaum	MTM 2004, 21st -22nd May 2004.
2.	Quality improvement -The six sigma way.	Jayam college of Engg. & Tech., Dharmapuri.	Romiecon - 2k4, July2-3rd, 2004
3.	Minimization of stress concentration at knuckle in torispherical ends by finite element method using two node axisymmetric shell element.	Panimalar Engineering college, Chennai.	MSME 2007, 16th March 2007.
4.	Minimization of stress concentration at knuckle in torispherical ends by using finite element method	Kongu Engineering College, Perundurai,	(PLM-2007) 2nd & 3rd, March 2007
5.	Stress analysis at variable thickness in Torispherical End Vessels using axisymmetric shell finite elements.	ICADEM, Sethu Institute of Technology	2007
6.	Parametric design of spur gear using CATIA VBA - S.Venkadesh, D.Sritharan, D.Venkatkumar	RTIME'08, Sardar Raja College of Engg.	5th April 2008.
7.	Finite element analysis of temperature distribution using moving TIC heat source over 316 LN steel plate	National Welding Seminar, Kolkatta organized by Indian Welding Society	NWS 2009 - (10.12.2009 - 12.12.2009)

### Learning Management System (LMS - MOODLE) - Courses Completed.

- Completed the learn Moodle MOOC "Teaching with Moodle 3.3", run by Moodle head quarters. July 2017.
- Completed the learn Moodle basics MOOC "Learn Moodle 3.4", run by Moodle head quarters. Feb 2018.
- Completed the learn Moodle basics MOOC "Learn Moodle 3.5 Basics", run by Moodle head quarters. July 2018.

**Guest lecturers Delivered:**

S.No.	Name of the Programme	Institute	Duration
1.	FDP on "E- Learning Management System - MOODLE"	SCAD College of Engineering, Cheranmahadevi,	6 <sup>th</sup> Dec & 7 <sup>th</sup> Dec 2019.
2.	Faculty Development Programme on "Engineering Mechanics"	National Engineering College, K.R. Nagar, Kovilpatti.	16 <sup>th</sup> Dec & 22 <sup>nd</sup> Dec 2013.
3.	One day workshop on "Overview of CATIAR14"	P.A.C. Ramasamy raja Polytechnic College	07.09.2014
4.	Guest Lecture on "Finite Element Analysis & ANSYS"	P.A.C. Ramasamy raja Polytechnic College	11.07.2017

**Faculty Development Programme attended:**

S.No.	Name of The Programme	Organized by	Duration
1.	FDP on "CAD/CAM"	Mepco schlenk Engineering college, Sivakasi.	9 <sup>th</sup> to 13 <sup>th</sup> June 2003.(5 days)
2.	FDP on "computer Aided Manufacturing".	Mepcoschlenk Engineering college, Sivakasi.	24 <sup>th</sup> to 29 <sup>th</sup> Nov 2003 (5days)
3.	AICTE-ISTE sttp on "Recent trends in Automated Manufacturing systems"	R.V.S. College of Engg. & Tech.,Dindigul	15 <sup>th</sup> -19 <sup>th</sup> Dec 2003.(5 days)
4.	AICTE-ISTE sttp on "Emerging trends in CAD/CAM-Theory and Practice"	National Institute of Technology, Tiruchirapalli.	20 <sup>th</sup> to 31 <sup>st</sup> Dec 2004.(10 days)
5.	Two day seminar on "Optimization Techniques for Engineering Applications."	R.V.S.College of Engg. & Tech.,Dindigul	10 <sup>th</sup> -11 <sup>th</sup> March 2005 (2 days)
6.	FDP on "Hydraulics and Pneumatic controls".	K.L.N.College of Engineering, Pottapalayam.	5 <sup>th</sup> to 10 <sup>th</sup> Dec 2005(5 days)
7.	"Pneumatic training programme."	Janatics India Private Limited, Coimbarote.	18 <sup>th</sup> -20 <sup>th</sup> Dec 2006. (3days)
8.	Two day workshop on "Finite elements analysis of welding processes"	National Institute of Technology, Tiruchirapalli.	24 <sup>th</sup> Jan -25 <sup>th</sup> Jan 2008. (2 days)
9.	Two weeks workshop on " Recent advances in modeling and simulation of joining of materials"	National Institute of Technology, Tiruchirapalli.	29 <sup>th</sup> -10 <sup>th</sup> Jan 2009.(10Days)
10.	BRNS theme meeting on "Diffusion, Mass transfer and its consequences in Materials"	Indira Gandhi centre for Atomic Research , Kalpakkam.	24 <sup>th</sup> - 26 <sup>th</sup> Nov 2011.

11.	Continuing Professional Development Programme on “Quality Initiatives in Technical & Higher Educational Institutions.	Engineering Staff College of India.	23 <sup>rd</sup> – 25 <sup>th</sup> Jan 2012.
12.	Workshop on R&D projects proposals - Awareness, needs and benefits.	Anna University, Chennai	28 <sup>th</sup> June 2013
13.	Training of Evaluators / Resource Persons on Outcome Based Accreditation Phase - 1 and II	National Board of Accreditation	14 <sup>th</sup> – 16 <sup>th</sup> June 2014.
14.	One day workshop on “Intellectual Property Rights & Innovations”	National Engineering College	11 <sup>th</sup> July 2015.
15.	Three days workshop on “Formulation of Research and Development Grant proposals by scientists and Technologists.	National Engineering College	18 <sup>th</sup> – 20 <sup>th</sup> Nov 2015.
16.	Innovative Methods for Teaching Mechanical Engineering"	NIT Warangal	22 <sup>th</sup> -26 <sup>th</sup> , March 2017
17.	Technology Enabled Learning Process	National Institute of Technical Teachers Training & Research.	29 <sup>th</sup> May – 29 <sup>th</sup> May 2017.
18.	GIAN course on “Smart Manufacturing”	National Institute of Technology, Jalandhar	19 <sup>th</sup> -24 <sup>th</sup> Feb 2018
19.	FDP101x Foundation Program in ICT for Education [Part I]	IIT Bombay	08 <sup>th</sup> March – 12 <sup>th</sup> April 2018.
20.	Pedagogy for effective use of ICT for school teachers	IIT Bombay	26 <sup>th</sup> July to 07 <sup>th</sup> Sep 2018

### **International Conference Organized**

- Organizing secretary of International conference on “Recent Advances in Material Processing Technology” (RAMPT’13). ( Jan 7-9, 2013)

### **Membership of Scientific / Engineering Bodies**

1. Member, Indian Society for Technical Education (ISTE)
2. Member, Institution of Engineers (India)

### **Personal**

*Date of birth:* April 27, 1978

*Place of birth:* Srivilliputhur, Tamilnadu, India

*Spouse:* Lakshmi Priya

*Daughter:* Mithra Oviya