

BIO-DATA

1.	Name	:	Dr. Kopparthi Phaneendra Kumar
2.	Designation	:	Principal
3.	Department	:	Mechanical Engineering
4.	Date of Birth	:	04-05-1971
5.	Date of joining In Present College	:	03-01-2014
6.	Google scholar	:	https://scholar.google.co.in/citations?hl=en&user=HmJh320AAAAJ&view_op=list_works&sortby=pubdate
7.	Official Address	:	Dr. K. Phaneendra Kumar Professor of Mechanical Engineering Vignan's Lara Institute of Technology & Science, Vadlamudi, Vadlamudi, Chebrolu Mandal, Guntur Dist. – 522 213.
8.	Phone Nos: Office Residence Mobile	: : : :	0863 – 2118312 0863 – 2230354 91-9441063389
9.	Mail id.	:	phani_vec@rediffmail.com
10.	Blood Group	:	A⁺

11. Qualifications

Examination/Degree	University/Board	Institution	Year	Class/Div	Specialization
Ph.D	Andhra University	College of Engineering	2010	-	Mechanical Engineering
M.Tech	Acharya Nagarjuna University	V.R.Siddhartha Engineering College	2005	First class with Distinction	Production Engineering
B.Tech/AMIE	Institution of Engineers (India)	Institution of Engineers (India)	1996	First class	Mechanical Engineering
Diploma	State Board of Technical Education & Training	Col.D.S.Raju Polytechnic	1991	First class with Distinction	Mechanical Engineering

12. Total Experience: 29 Years**a) Teaching - 22 Years**

Institution	Designation	Duration		Scale of Pay (Rs.)
		From	To	
Vignan's Lara Institute of Technology & Science, Vadlamudi	Professor & Principal	3 rd January, 2014	Till date	37,400-67,000 with AGP of 10,000
Vignan's Foundation for Science, Technology and Research, Vadlamudi	Professor & Head	27 th October, 2010	2 nd January, 2014	37,400-67,000 with AGP of 10,000
Vignan's Engineering College, Vadlamudi	Associate Professor	1 st September, 2005	26 th October, 2010	12,000-420-18,300
Vignan's Engineering College, Vadlamudi	Assistant Professor	7 th December, 2001	30 th August, 2005	8,000-275-13,500

b) Industry - 7 Years

Institution	Designation	Duration	
		From	To
Kabsons Gas Equipment Private Limited Hyderabad	Quality Assurance Engineer	29 th May, 1997	6 th December, 2001
Bharat Dynamics Limited Hyderabad	Quality Control Supervisor	24 th November, 1994	28 th May, 1997

13. Research Projects/Funded Programmes

Title	Funding Agency	Sanctioned Amount	Year
Augmentation of Thermal Conductivity with Nano Fluids	AICTE	6.9 Lakhs	2009
Modernization of Computer Aided Design/ Computer Manufacturing Laboratory	AICTE	7.00 Lakhs	2011
National Conference on “Advances in Mechanical Engineering”	DST, SERB	0.60 Lakhs	2013
International workshop on “Advanced and Integrated Energy Systems and Conservation”	DST, SERB	0.65 Lakhs	2013
Fabrication of biodegradable composites	APCOST	0.075 Lakhs	2008
Development of new hybrid composite material and its characterization	APCOST	0.075 Lakhs	2007

14.	Field of specialization	:	Production Engineering
15.	Subjects of interest (teaching)	:	Engineering Mechanics, Mechanics of Solids, Finite Elements & Analysis, Production Planning & Control, Fluid Mechanics & Hydraulics.
16.	No. of Scholars (Working for Ph.D.)	:	8
17.	No. of M. Tech Projects guided	:	5
18.	No. of B. Tech Projects guided	:	8
19.	Awards received	:	Best Teacher Award in 2005, 2006, 2007 and 2009
20.	Membership of Professional bodies	:	1. Member of ASME 2. Member of IEEE 3. Life Member of ISTE
21.	Member Curriculum development Bodies (such as BOS)	:	1. Member of Board of Studies in School of Mechanical Engineering, Vignan’s University 2. Member of Board of Studies in School of Automobile Engineering, Vignan’s University
22.	Publications I. Journals II Conferences	: : :	6 4
23.	Conferences/Courses-attended/organized	:	8
24.	Administrative Positions held	:	1. Head of the Department 2. Chairman – College Discipline Committee 3. Chairman – Board of Studies 4. Member – Academic Council 5. Convener – Youth Festivals

25. National and International Publications:

- **Phaneendra Kumar Kopparthi**, Vengal Rao Kundavarapu, Venkata Ravishankar Dasari, Venkata Rao Kaki, Bhaskara Rao Pathakokila, Modeling of glass fiber reinforced composites for optimal mechanical properties using teaching learning based optimization and artificial neural networks, SN Applied Sciences, Vol. 2, Iss. 1, 2020, pp. 131. DOI: 10.1007/s42452-019-1837-x.
- **Phaneendra Kumar Kopparthi**, Vengal Rao Kundavarapu, Venkata Ravishankar Dasari, Bhaskara Rao Pathakokila, Determination of flow front velocity and optimal injection pressures for better impregnation of E-glass with polyester in resin transfer mold, INCAS Bulletin, Vol. 11, Iss. 3, 2019, pp. 87-98.
- K Vengalrao, **Phaneendra Kumar Kopparthi**, DVR Shanker, N Srinivasababu, N Sateesh, An Investigation on RTM Process Parameters and their Influence on Impact Failure Behavior of FRP Laminates, Materials Today: Proceedings, Vol. 4, Iss. 2, 2017, pp. 2167-2173.
- K Vengalrao, **Phaneendra Kumar Kopparthi**, DVR Shanker, N Srinivasababu, AKK Yadav, “An Investigation on the Quality of the Laminates Produced by VARTM Process and Process parameters, Materials Today: Proceedings, Vol. 4, Iss. 8, 2017, pp. 9196-9202.
- N. Srinivasababu, **Phaneendra Kumar Kopparthi**, “Long Time Dried Hybrid Imperata Cylindrica/Sacred Grass Fibre Reinforced Polyester Composites – Part I: Tensile Properties”, Materials Today, Elsevier, Volume 2, Issues 4–5, 2015, Pages 2801–2807.
- N. Srinivasababu, **Phaneendra Kumar Kopparthi**, G. Srikar, “Mechanical Performance of Polycarbonate/ABS, Glass Filled Polycarbonate Blends – Review”, Applied Mechanics and Materials, Vols. 766-767, 2015, pp. 27-33.
- K. Vengalrao, **Phaneendra Kumar Kopparthi**, D. Venkata Ravi Shankar and N. Srinivasababu, “ Role of pigment to assess flow front velocity in manufacturing of Chopped GFRP Composites – Part-I”, CHEMCON 2015, INDIAN CHEMICAL ENGINEERING CONGRESS, 68th Annual Session of Indian Institute of Chemical Engineers, Indian Institute of Technology Guwahati, during 27-30 December, 2015.
- **Phaneendra Kumar Kopparthi**, K.V.N.S. Rao, K.R. Krishna and B. Theja, “neural network based vibration analysis with novelty in data detection for a large

steam turbine”, ISSN-1070-9622 (print) 1875-9203 (online), International Journal of Shock and Vibration, November 23, 2010.

- **Phaneendra Kumar Kopparthi**, Rao K.V.N.S.,B.J.M.Rao, “Thermal Performance of a central annular cavity vessel with fins of a box-type Solar-Cooker” International Journal of Sustainable Engineering, vol.5 (2),91-96, 2012.
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Convective heat transfer characteristics of sisal-water nanofluid, 4th BSME-ASME International conference, Dhaka, pp. 403-409, December 27-29, 2008.
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Preparation and Characterization of Biodegradable Nanoparticles”, International Journal of Nanosystems, 1(1), pp. 7-10, 2008.
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Experimental Analysis of Sisal Nanofluids in a Shell Coil Heat Exchanger”, International Journal of Nanosystems, 1(1), pp. 87-90, 2008.
- **Phaneendra Kumar Kopparthi**, Nageswara Rao, D., Synthesis and Characterization of Biodegradable Nanoparticles-Their use in Nanofluids and Nanocomposites, Int. J. Optoelectronics and Advanced materials, Manuscript # J08091003 (Under Review).
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Applications of Biodegradable Nanofluid as Coolant in a Shell and Coil Heat Exchanger”, International Journal of Thermal Sciences, (Manuscript number-THESCI-D-08-00487), (Under Review).
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Augmentation of Overall Heat Transfer Coefficient of the water with Nanofluid in a Shell Coil Heat Exchanger” International conference on Innovation in composites for the new century, Proceedings of INCCOM-06, Indian Institute of Technology (IIT), Kanpur, 12-14 December 2007, pp. 35-38.
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Cellulose Fibre Reinforced Composites: A Review” International conference on Advanced Design and Manufacturing, Sethu Institute of Technology, Pulloor, 9-11 August, 2007, pp. 665-681.
- **Phaneendra Kumar Kopparthi**, Rao D. N., “Surface Modifications of Natural Fibres: A Review” National conference on composite materials, proceedings of 94th Indian Science Congress Annamalai Nagar, Chidambaram, January 3 – 7, 2007, pp.1-12.
- Prasad. T. V. S. R. K., Satyanarayana. D., and **Phaneendra Kumar Kopparthi**, “An Integrated Model for Production – Inventory – Distribution Supply Chain”, International Journal of Industrial Engineering and Technology, ISSN0974-3146, Vol. 3, No. 1 (2011), pp. 55-65.
- **Phaneendra Kumar Kopparthi**, D.N. Rao and P.B.G.S.N. Murthy, “Surface modifications of Natural Fibres: A Review” National Conference on composite materials, proceedings of 94th Indian Science Congress Annamalai Nagar, Chidamabaram, 1-12., January 3-7, (2007).

26. National and International Workshops Organized/Attended

1. Attended five day Short Term Intensive Course on “CAD/CAM”, 21 – 25th June 2006, organised by Department of Mechanical Engineering, Vignan’s Engineering College, Vadlamudi.
2. Coordinator for the Short Term intensive course on “Advances in Composite Materials” during 28th to 30th June, 2007.
3. Attended, Two Day Workshop on “Role of Exergy Analysis in Advanced Energy Systems for Reduced Global Warming”, 30th & 31st July, 2008, organised by Department of Mechanical Engineering, Vignan’s Engineering College, Vadlamudi.
4. Attended, a National workshop on Meta Heuristics and their applications in Design, Manufacturing and Materials, 2009-10, organised by Department of Mechanical Engineering, Vignan’s Engineering College, Vadlamudi.
5. Convener for the Short Term intensive course - Indo-US Collaboration for Engineering Education Course on “Finite Element Methods”, from 28th June to 2nd July, 2010 at Vignan’s Foundation for Science Technology and Research, Vadlamudi.
6. Convener for the Short Term intensive course - Indo-US Collaboration for Engineering Education Course on “Nanotechnology Concepts & Applications”, from 11th to 15th July, 2011, at Vignan’s Foundation for Science Technology and Research, Vadlamudi.
7. Convener for the DST Sponsored Short Term intensive course - A National Workshop on Renewable energy is scheduled on 23 and 24 November, 2012 at Vignan’s Foundation for Science Technology and Research, Vadlamudi.
8. Convener for the DST Sponsored Short Term intensive course - A National Conference on ‘Recent Advances in Mechanical Engineering’ is scheduled on 22nd and 23rd February 2013 at Vignan’s Foundation for Science Technology and Research, Vadlamudi.
9. Attended, three day 3rd World Summit on “Accreditation”, 18th – 20th March, 2016, organized by National Board of Accreditation.
10. Attended an Internal Conference on Emerging Trends in Electro-Mechanical Technologies and Management, 26th to 27th July 2019, organised by HMR Institute of Technology and Management, New Delhi.
11. Attended an Workshop on “Need and Road Ahead for Institutions”, 9th November, 2019, organised by Department of IQAC and VPC-MHRD-IIC of Vignan Pharmacy College, Vadlamudi.
12. Attended an Internal Conference on Emerging Trends in Mechanical Engineering (ICETME – 2019) and presented a paper titled “A Review on Surface Displacements and Strains using Digital Image Correction Techniques”, 8th & 9th November 2019, organised by Vignan’s Foundation for Science, Technology & Research, Vadlamudi.
13. Attended an Internal Conference on Emerging Trends in Mechanical Engineering (ICETME – 2019) and presented a paper titled “Tensile and Flexural Properties of Delaminated Woven E-glass/epoxy Composites”, 8th & 9th November 2019, organised by Vignan’s Foundation for Science, Technology & Research, Vadlamudi.

27. R & D Projects

- Principal Investigator for the AICTE Funded Project entitled “Augmentation of Thermal Conductivity of Nanofluids” under Research Project Scheme (RPS) with an amount of Rs. 6.9 Lakhs.
- Principal Coordinator for AICTE funded Project “Modernization of Computer Aided Design/Computer Manufacturing” in the School of Mechanical Engineering, Vignan’s Foundation for Science and Technology and Research with an amount of Rs.7 Lakhs.
- Principal investigator for the APCOST Funded Project entitled “Fabrication of biodegradable composites” with an amount of 0.075 Lakhs
- Principal investigator for the APCOST Funded Project entitled “Development of new hybrid composite material and its characterization” with an amount of 0.075 Lakhs.

28. Scholars Awarded with Ph.D at Vignan’s Foundation for Science, Technology and Research:

1. Scholar 1: Sri G. Sekhar, working on the area of “Mechanical Properties of Carbon Fiber Reinforced Epoxy Composites”.

Fiber Reinforced Laminate is designed to be processed by Match Die Mould (MDM) technique using carbon fiber (Bidirectional/Unidirectional fabric as well as unidirectional tape) and epoxy resin. It is proposed to manufacture the test laminate, said previously in Match Die Moulds (MDM) with de-bulking loads being applied by Hydraulic Press, which also contains platens, heated electrically, to affect the polymerization in - situ. The laminates thus cured will be split into test coupons by diamond edge dust deposited circular saws. This specimen is tested in Instron UTM, generating the stress – strain elastic curve to obtain the Mechanical Properties of composites. Thus the final outcome will be reliable design allowable for mechanical and physical properties, for the chosen ply geometries.

2. Scholar 2: Sri K. Vengala Rao, working on the area of “Synthesis and Characterization of Glass Fiber Reinforced Polyester Composites using VARTM”

Fiber reinforced laminates is to be processed by VARTM using Glass fiber and polyester resin. The main aim is to study resin flow patterns analytically. The laminated are cut into the dimensions and are tested in UTM as per ASTM standards by varying volume fraction of glass fibers. The final outcome will be to prepare composites with reasonably good mechanical properties.

Declaration

I hereby declare that the statements made in this application are true to the best of my knowledge.

Place: Vadlamudi.

(Dr. K. Phaneendra Kumar)