


NAME				
P.DIVAKARA RAO				
QUALIFICATIONS				
B.Tech, M.Tech.				
DATE OF BIRTH				
25/07/1973				
AREA OF RESEARCH/SPECIALIZATION				
Composite Materials and Design				
E MAIL ID				
raodivakar.p@jbiet.edu.in raodivakar_p@yahoo.co.in				
PHONE NUMBER				
7893006007				
SUBJECTS TAUGHT				
UG Level: Engineering Mechanics , Engineering Graphics, Mechanics of Solids , Mechanics of Fluids and Hydraulic Machines, Design of Machine Members-I, Finite Element Methods, CAD/CAM, Instrumentation & Control systems, Dynamics of Machines, Robotics. PG Level: Finite Element Methods, Computer Aided Process Planning				
ACHIEVEMENTS				
Papers Published				
International Journals				
1	Mathematical model and optimisation for tensile strength of human hair reinforced polyester composites	Int. J. Computational Materials Science and Surface Engineering	Accepted for publication	
2	Tensile Studies on Random Oriented Human Hair Fiber Reinforced Polyester Composites	Journal of Mechanical Engineering, Transaction of the Mechanical Engineering Division, The Institution of Engineers, Bangladesh	December	2017
3	Effect of fiber loading and void content on Tensile properties of keratin based randomly oriented human hair fiber composites”	International Journal of Composite Materials	September	2017
4	A Study on Entrepreneurial Inclination among students	International Journal of Emerging Research in Management and Technology	August	2017

5	Gender Effects on Risk Propensity, Risk perceptions and Risk Taking Behaviour of Entrepreneurs- An Exploratory Analysis	International Journal of Science Technology and management	March	2017
6	Finite Element Analysis of a Gas Turbine Rotor Blade	International Journal of Advanced Engineering Research and Studies	March	2016
7	Impact of Socio-Economic Factors on Women Entrepreneurship In India: An Empirical Study	International Journal of Business and Administration Research Review July - Sep, 2015. Page 154-160.	September	2015
8	Reducing Machining Time by Using Modern Manufacturing Software	International Journal of Engineering Development and Research	December	2014
9	Design of Variable Valve Actuation in I.C.Engine	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
10	Design of Centralized Oil Lubrication for Writing & Printing Paper Plant”	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
11	Finite Element Analysis of Vibration Fixture Made of Aluminum and Magnesium Alloys	International Journal of Latest Trends in Engineering and Technology (IJLTET)	January	2013
12	Design of Variable Valve Actuation in I.C.Engine	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
13	Design of Centralized Oil Lubrication for Writing & Printing Paper Plant	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
14	Reduction of Ream Packing Machine Engineering Downtime by 50% from Current Level	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
15	Design of Centrifugal Pump for Palm Fruit Pulp Handling in Palm Oil Plant	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
16	Design of Air Condition & Distribution Systems	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
17	Centralized Oil Lubrication System	International Journal of Latest Trends in Engineering and Technology (IJLTET)	January	2013

18	Finite Element Analysis of Vibration Fixture Made of Aluminum and Magnesium Alloys”	International Journal of Latest Trends in Engineering and Technology (IJLTET)	January	2013
19	Design and analysis of Gasket sealing of cylinder head under engine operation conditions	Internattional Journal of Innovations in Engineering & Technology(IJIET)	June	2013
20	Implementation of Lean manufacturing system on Oil pump.	Internattional Journal of Innovations in Engineering & Technology(IJIET)	February	2013
21	Kinematic analysis and optimum design of 8-8 redundant spatial in-parallel manuplator	Internattional Journal of Innovations in Engineering & Technology(IJIET)	February	2013
22	Profile modification for increasing the tooth strength in spur gear using CAD and CAE	Internattional Journal of Innovations in Engineering & Technology(IJIET)	February	2013
International Conferences				
1	Experimental Studies on Behavior of Keratin Based Human Hair Fiber - A New Reinforcing Material for Composites	International Conference on Recent Trends in Engineering & Sciences (ICRTES) Feb 20th 2018	February	2018
2	“Gender Effects on Risk Propensity, Risk perceptions and Risk Taking Behaviour of Entrepreneurs- An Exploratory Analysis”	International Conference on Emerging trends in Engineering, Science and management	March	2017
3	Tensile properties of human hair reinforced polyester composites”	International conference on advances in materials and manufacturing (ICAMM-2016)	December	2016
4	Mechanical characterization of human hair fibre reinforced polyester composite- a comparative analysis	International conference on Emerging Trends in Mechanical Engineering during 23-24 September 2016 (ICETIME 2016)	September	2016
5	Work- Life Balance of Women Entrepreneurs in India”	Managing Human Resources in Global Era- Prospects & Challenges		2014
6	A study of Women Entrepreneurship in SME’s in India- A Critical Study”	Tenth Biennial Conference on Entrepreneurship conducted by Entrepreneurship Development Institution of India (EDI),	February	2013

7	Role of Good Governance in Human Development in India – Issues & Challenges	INTERNATIONAL CONFERENCE ON SMART SYSTEMS(ICSS-2013)	December	2013
8	Recent Trends and Future Potential of Animal Fiber Reinforced Composite Materials	International conference on Engineering Materials and Processes (ICEMAP-2013)	May	2013
9	Reduction of Ream Packing Machine Engineering Downtime by 50% from Current Level	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
10	Design of Centrifugal Pump for Palm Fruit Pulp Handling in Palm Oil Plant”	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
11	Design of Air Condition & Distribution Systems	International Journal of Advanced Materials Manufacturing & Characterization	March	2013
12	Tensional Vibration Analysis of Pre-Twisted Cantilever Beam using FEA	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013
13	Modeling and Analysis of 4-Stroke Petrol Engine Crank Shaft”	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013
14	Modeling and Analysis Fork Lift	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013
15	Reduce Internal Rejection in IC Engine Valve Using Six Sigma Method	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013
16	Finite Element Modeling for Maximum Temperature in Friction Stir Welding and its validation	International Conference on Advancements in Engineering & Management(ICAEM-2013)	February	2013
17	Analysis of Composite Drive Shaft	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013
18	Thermal Analysis of Functionally Graded Plates Using Higher order theories”	International Conference on Advancements in Engineering & Management(ICAEM-2013)	February	2013
19	Mohammed Faisal, Y Vijayakuumar, V.Sreenivasulu, P.Divakara Rao- Modelling and analysis of 4-storke petrol engine crank shaft	International Conference on Advancements in Engineering & Management (ICAEM-2013)	February	2013

National Conferences

1	Shape Optimization And Analysis of arm of an Excavator	National Conference On Recent Trends in Mechanical Engineering- JNTU	February	2018
2	Experimental Studies on flexural strength of Human Hair Reinforced Polyester Composites	National Conference On Recent Trends in Mechanical Engineering- JNTU	February	2018
3	Reducing the shrinkage defect in the high pressure casting process for an automotive application product with water flow rate optimization	National conference on recent trends in mechanical engineering- JNTU	February	2018
4	Traits of women as successful entrepreneurs –an Indian perspective	National conference on “women empowerment & entrepreneurship”	November	2012
5	A review on oscillating heat pipe	National conference on recent advances in mechanical engineering and their impact on Indian industries (rameiii-2012)	September	2012
6	Recent trends and future potential of natural fiber reinforced composite materials	National conference on recent advances in mechanical engineering and their impact on indian industries (rameiii-2012)	September	2012

Workshop/SSTPs/Conference Organized

- Conducted One week FDP on Engineering Drawing with Auto CAD during 28th June – 4th July,2018
- Organized a Seminar on FUSION 360 on
- Conducted one week FDP on Emerging trends in Manufacturing and Design during 18-22 January, 2018
- Organized a seminar on Skill India initiative and Entrepreneurship for a successful Indian during 30sept-1st Oct.2015
- Conducted a seminar on Automotive materials and surface Engineering held on 23 rd December, 2016
- Conducted a one day seminar on Geometric Dimensioning and Tolarencing
- Conducted a One Day Seminar on “Non Destructive Testing” on in association with Associative Engineering Services.
- Coordinated a One Day Seminar on “Solution for Composite Materials using ANSYS 12.1 Version” on 19th February, 2011.

Workshop/SSTPs/Conference Attended

- Participated FDP on Significance of Outcome Based Education in achieving Excellency during 21-22

April,2017

- Attended a one week FDP on Effective Teaching Methods and Best practices-II during 22-28 Feb.,2017
- Attended a one week FDP on Effective Teaching Methods and Best practices during 5-9 Dec.,2016
- Attended a refresher course in Automobile Engineering 10-12 February 2015
- Participated the 2-day FDP on Effective Teaching Methodology & Evaluation during 17-18 January,2014
- Participated in the two day National workshop on Research Methodology in science, Engineering & Management conducted by JBIET, Hyderabad on 25th February and & 1st March, 2014.
- Participated in the two day Faculty Development Programme (FDP) on “Effective Teaching Methodology & Evaluation” conducted by JBIET, Hyderabad on 17th & 18th January, 2014.
- Attended the Two - Week ISTE workshop on “Engineering Mechanics” conducted by IIT Bombay from 26th November to 6th December, 2013.This workshop was held under National Mission on Education through ICT (MHRD).
- Participated in the National workshop on “Quality initiatives in Technical & Higher Educational Institutions” conducted by Engineering Staff College of India, Hyderabad from 16-18 September 2013.
- Attended the Two - Week ISTE workshop on “Engineering Thermodynamics” conducted by IIT Bombay from 11th to 21st December, 2012.This workshop was held under National Mission on Education through ICT (MHRD).
- Attended the Two Day ISTE workshop on “Aakash for Education” conducted by IIT Bombay on 10th & 11th November, 2012.This workshop was held under National Mission on Education through ICT (MHRD).
- Participated in the two day workshop on “Advance Hybrid Drive Tech in Future Automobiles” during on 27th & 28th March, 2012 organized by SAE- JBIET in association with Harsha Toyota & Kun Exclusive, Hyderabad.
- Participated in the two day Technopreneur Promotion Programme (TEPP) conducted by JBIET, Hyderabad on 04th & 5th March, 2009.
- Participated in the one day seminar on “CAE Centric Approach to Product Design” conducted by CBIT, Hyderabad on 29th August,2008.
- Attended the workshop on “Advanced Composite materials and their applications” conducted by Department of Mechanical Engineering, MVSR Engineering College, Hyderabad from 2- 11-2006 to 4-11-2006. .
- Attended the workshop on “Computer application in manufacturing” conducted by Dept. of Mechanical Engineering, Osmania University during May 27 to June 1, 2002.
- Attended the workshop on Design of Experiments conducted by SNIST, Hyderabad and Arunai Engineering College, Chennai in December 2001 and won the best participant award.

HONOURS

- Received Best paper award at ICETIME 2016, conducted by ICCFAI University for the paper titled Mechanical characterization of human hair fiber reinforced polyester composite- a comparative analysis.
- Received Best Teacher award for the academic year 2005-2006
- Received Best Teacher award for the academic year 2004-2005
- Received Best Teacher award for the academic year 2003-2004
- Received Best Teacher award for the academic year 2000-2001

- Won the Best participant award in the workshop on "Design of Experiments" conducted by Srinidhi Institute of Science & Technology, Hyderabad and Arunai Engineering College, Chennai

BOOKS PUBLISHED

- **Instrumentation & Control Systems**
- **Metal working and metrology**

STUDENT PROJECTS (UG & PG) SUPERVISED

PG:05 UG:50

ADDITIONAL RESPONSIBILITY

- ***Head of Department, Mechanical Engineering***
- ***Member Secretary, Academic Council***
- ***Member Secretary, Standing Committee to Academic Council***
- ***Member of Board of Studies, Mechanical Engineering***
- ***Addl. Controller of Examinations***