



ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)
Rajampet, Annamayya District, A.P – 516126, INDIA

Faculty Profile

Basic Information:

NAME : Dr. D. Krishna Mohan Raju
DESIGNATION : Professor & AICTE IDEA Lab Incharge
DEPARTMENT : Mechanical Engineering
DATE OF BIRTH : 05-07-1967
DATE OF JOINING : 05-08-2017
EMAIL ID : krishnamohan.inventions@gmail.com
EMPLOYEE ID : AITS031004



Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D	JNTU Hyderabad	2015
M.Tech.	R.E.C. – CALICUT, CALICUT UNIVERSITY	1992
B.Tech.	S.V. University	1990

Research Details:

1. Areas of Specialization	:	Automobile Engineering, Energy Conservation, Thermal Power Plant, I.C. Engines, Home appliances
2. No. of Publications	:	10
3. Awards Received	:	-
4. Research Guidance		
	No. of PhD Guided:	
	No. of M.Tech. Guided:	
	No. of B.Tech. Guided:	
5. Details of Professional Membership:		
6. Subjects Taught	:	

• Publication Details:

Title	Publisher	Published Year
1. A Conceptual Design of Collapsible Wind Friction Reduction Attachments to Truck for Better Fuel Economy	International Journal of Engineering Research and Technology (IJERT), ISSN 0974-3154, Vol. 5, No. 3, pp. 251-259	2012



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2. A Conceptual Design of Collapsible Wind Friction Reduction Attachments to Bus for Better Fuel Economy	International Journal of Advanced Mechanical Engineering (IJAME), ISSN 2250-3234, Vol. 2, No. 1, pp. 25–34	2012
3. A Conceptual Design of Wind Friction Reduction Attachments to The Rear Portion of A Car for Better Fuel Economy at High Speeds	International Journal of Engineering Science and Technology (IJEST), ISSN 0975-5462, Vol. 4, No. 5, pp. 2366–2372	2012
4. A Conceptual Design Of Collapsible Wind Friction Reduction Attachments To Bike For Better Fuel Economy	International Journal of Multidisciplinary Research & Advances in Engineering (IJMRAE), ISSN 0975-7074, Vol. 4, No. III, pp. 239–252	2012
5. A New Idea On Rotary Engine	Recent Advances in Mechanical Power Transmission – 6th National Convention of Mechanical Engineers, Institution of Engineers (India), Karnataka State Centre, Bangalore	1990
6. Theoretical Analysis On Proposed Economical Energy Efficient Solar Cum Thermal Power Plant	National Seminar on New Energy Technologies and Clean Environment, University College of Engineering, Osmania University, Hyderabad	1993
7. An Absorption Refrigeration System for Big Cold Storage Rooms in Coastal Areas Using Ocean Thermal Energy	Proc. IX ISME Conference on Mechanical Engineering, Dept. of Mech. & Industrial, University of Roorkee, Roorkee	1994
8. Distillation Plant in Combination With Coastal-Based Thermal Power Plant Using Ocean Thermal Energy – An Idea	National Symposium on Power Plant Fly Ash Utilization and Waste Heat Recovery Systems, Osmania University, Hyderabad, in association with AICTE – New Delhi	1995
9. A New Simple Indexing Mechanism – An Idea	International Conference on Manufacturing Excellence, Organized by Indian Institution of Production Engineers & Institution of Electrical Engineers, U.K., Bangalore	1995
10. A Solar Drier in Combination With Heat Pump	National Symposium on Solar–2000, Pondicherry, Organized by Pondicherry College of Engineering	1996



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Patent Details:

Title of Patent	Submitted/Published/Awarded
1. "A Rotary Piston Engine" Patent Application No. : D-CHE/0612. (242/MAS/1998), dated on 06 - 02 – 1998.	Patent No.:201003, Patent granted on 16-6-2006.
2. "A Multi Engine Automobile" Patent application No.: 2849/CHE/2008, Date of Filing: 10-05-2009. Date of Publication: 01/06/2012	Patent No.: 293971, Date of Grant:07/03/2018
3. "A SYSTEM FOR CONTROLLING VALVE OPERATING PERIOD" Patent application No.: 2853/CHE/2008, Date of Filing: 10-05-2009. Date of Publication: 08/06/2012.	Patent No.:300988 Date of Grant:13/09/2018,
4. "A DOUBLE CRANK OPPOSITE CYLINDER ENGINE WITH FLYWHEEL DRIVEN AT HIGH SPEED" Patent application No.: 2855/CHE/2008, Date of Filing: 10-05-2009. Date of Publication: 29/06/2012.	Patent No.:300303, Date of Grant: 27/08/2018
5. "HIGH TEMPERATURE ISOTHERMAL EXPANSION SYSTEM" Patent application No.: 2848/CHE/2008, Date of Filing: 10-05-2009. Date of Publication: 01/06/2012.	Patent No.:306245, Date of Grant: 24/01/2019
6. "AN IMPROVED AIR SUSPENSION SYSTEM" Patent application No.: 2852/CHE/2008, Date of Filing: 10-05-2009. Date of Publication: 01/06/2012.	Patent No.:3330216, Date of Grant: 24/01/2020.
7. "An Efficient Counter Flow Heat Exchanger" Patent application No.: 2850/CHE/2008, Date of Filing: 10-05-2009, Date of Publication: 01/06/2012.	Patent No.:336913, Date of Grant: 15/05/2020.
8. "Heat Exchanger to Liberate Coolant Liquid Heat to Atmosphere" Patent application No.: 2851/CHE/2008, Date of Filing: 10-05-2009, Date of Publication: 08/06/2012.	Patent No.:314700, Date of Grant: 25/06/2019.
9. "Practical Isothermal Compression and Isothermal Expansion System" Patent application No.: 2854/CHE/2008, Date of Filing: 10-05-2009, Date of Publication: 01/06/2012.	Patent No.:341133, Date of Grant: 10/07/2020.
10. "Portable Water Production From Drainage Water Using Reverse Osmosis Technique And Efficient Counter Flow Heat Exchanger" Patent application No.: 1289/CHE/2009, Date of Filing: 03-12-2009, Date of Publication: 11/05/2012.	Patent No.:336801, Date of Grant: 13/05/2020.
11. "An Innovative Wax Lamp" Patent application No.: 1304/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 348025, Date of Grant: 28/09/2020.
12. "High Heat Transfer Coefficient Counter Flow Heat Exchanger" Patent application No.: 1282/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 349878, Date of Grant: 22/10/2020.



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13. "Liquid Fuel Injection System In The Form Of Vapour In The I.C.Engines" Patent application No.: 1293/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 350557, Date of Grant: 30/10/2020.
14. "Gasket With Self Sealing Pressure" Inventor: D.Krishna Mohan Raju, Patent application No.: 1306/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 353526, Date of Grant: 11/12/2020.
15. "Steering Mechanism To Achieve Perfect Steering Using Cams" Patent application No.: 1288/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 353527, Date of Grant: 11/12/2020.
16. "Low Manufacturing Cost Refrigerator" Patent application No.: 1283/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 373295, Date of Grant: 30/07/2021.
17. "HIGH HEAT TRANSFER COEFFICIENT STEAM BOILER" Patent application No.: 1297/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 373296, Date of Grant: 30/07/2021.
18. "A HIGH HEAT TRANSFER COEFFICIENT DRY STEAM CONDENSER" Patent application No.: 1300/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 365985, Date of Grant: 03/05/2021.
19. "Collapsible Front and Rear Attachments To Automobiles For Reducing Wind Friction" Patent application No.: 1301/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 383525, Date of Grant: 02/12/2021.
20. "High Efficient Friction Belt Drive System" Patent application No.: 1311/CHE/2009, Date of Filing: 03-12-2009.	Patent No.:396005, Date of Grant: 30/04/2022.
21. "Combined Steel Wheel And Tyre Wheel System To Travel The Vehicles Both On Rails And On Road" Patent application No.: 1299/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 398271, Date of Grant: 31/05/2022.
22. "MULTIPLE WORM AND WORM WHEEL MECHANISM FOR LIFTING HIGH LOADS" Patent application No.: 1286/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 413948, Date of Grant: 08/12/2022.
23. "LIFTING MECHANISM USING HYDRAULIC MOTOR AND MULTIPLE WORMS AND WORM WHEEL MACHANISM" Patent application No: 1294/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 416474, Date of Grant: 02/01/2023.
24. "DISTILLED WATER PRODUCTION USING EFFICIENT COUNTER FLOW HEAT EXCHANGER AND COMPRESSOR" Patent application No.: 1295/CHE/2009. Date of Filing: 03-12-2009.	Patent No.: 413237, Date of Grant: 30/11/2022.
25. "PRESSURISED WATER TANK" Patent application No.: 1309/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 419599, Date of Grant: 30/01/2023.
26. "AN EFFICIENT CONTINUOUS VARIABLE TRANSMISSION SYSTEM" Patent application No.: 1310/CHE/2009, Date of Filing: 03-12-2009.	Patent No.: 416455, Date of Grant: 02/01/2023.



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27. "PRACTICAL ISOTHERMAL COMPRESSION SYSTEM USING HYDRAULIC PUMP AND PRACTICAL ISOTHERMAL EXPANSION SYSTEM USING HYDRAULIC TURBINE" Patent application No.: 1305/CHE/2009, Date of Filing: 03-12-2009,	Patent No.: 413897, Date of Grant: 08/12/2022.
28. "Power Saving Fan" Patent application No.: 1302/CHE/2009 Patent No.: 426316, Date of Filing: 03-12-2009, Date of Grant: 22/03/2023.	Patent No.: 426316, Date of Grant: 22/03/2023.
29. "Efficient Air Conditioning Using Evaporative Cooling Combined With Mixed Type Counter Flow Heat Exchanger" Patent Application No.: 201641044048, Dated: 23-12-2016.	Patent No.:485228, Date of Grant: 19/12/2023.