



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 & Dean of Innovation and Incubation Centre
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:

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|--|------------------------|---|
| 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. |