

Dr Ch Kesava Reddy

Research Professor & Dean of Academic Affairs

📞 91-9490678416 @ ckreddi38@gmail.com, chirra.reddy@emergingtechuniversity.com
🌐 <https://www.linkedin.com/in/dr-ck-791b53365>



SUMMARY

Accomplished academic leader with extensive experience as Dean, Principal, and Research Professor across leading global institutions. Demonstrated success in driving curricular reform, faculty development, and research growth, coupled with a proven history of earning top national and international awards in education, leadership, and innovation. Adept at fostering cross-institutional collaboration, advancing academic standards, and delivering impactful student and faculty outcomes through visionary governance and industry-aligned initiatives.

ACADEMIC & ADMINISTRATIVE EXPERIENCE

	Dean of Academic Affairs University of Emerging Technologies 📅 12/2025 - Present 📍 CA, USA
	Research Professor Lincoln University College 📅 01/2025 - Present 📍 47301, Petaling Jaya, Selangor Darul Ehsan, Malaysia.
	Professor & Principal (Regular) Madhira Institute of Technology, suryapet ,Affiliated to Jawaharlal Nehru Technological University(JNTUH) Hyderabad,Telangana. 📅 11/2024 - 11/2025 📍 Kodad
	Professor & Principal (Regular) Universal College of Engineering & Technology, Affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK),A.P 📅 08/2021 - 09/2024 📍 Guntur
	Professor & Principal (Regular) Newton's Institute of Science and Technology, Affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK),A.P 📅 08/2019 - 08/2021 📍 Guntur
	Professor & Principal (Regular) Swami Ramanand Teertha Institute of Science & Technology, Affiliated to Jawaharlal Nehru Technological University(JNTUH) Hyderabad,Telangana. 📅 03/2019 - 08/2019 📍 Nalagonda
	Associate Professor (Regular) Mahatma Gandhi Institute of Technology, Affiliated to Jawaharlal Nehru Technological University(JNTUH) Hyderabad, Telangana. 📅 12/2013 - 03/2019 📍 Hyderabad, India
	Assistant Professor (Regular),Department of Mechanical Engineering(Mechatronics) Mahatma Gandhi Institute of Technology, Affiliated to Jawaharlal Nehru Technological University(JNTUH) Hyderabad, Telangana. 📅 03/2003 - 11/2013 📍 Hyderabad, India
	Assistant Professor (Regular),Department of Mechanical Engineering LakiReddy Bali Reddy College of Engineering(Autonomous),Affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK),A.P 📅 06/2001 - 11/2002 📍 Mylavaram, India
	ACADEMIC APPOINTMENT RATIFICATION Jawaharlal Nehru Technological University Hyderabad (JNTUH) Hyderabad (JNTUH), Telangana, India: Assistant Professor , Associate Professor ,Professor & Principal

ACADEMIC QUALIFICATIONS

Post Doctoral Fellowship (PDF) - Wighton's Scholarship - in Mechanical Engineering

Lincoln University
📅 2021 - 2023 📍 Malaysia

Ph.D. (Mechanical Engineering)

Rayalaseema University

- 📍 A.P, India
- Specialization: Thermal Engineering
 - Ph.D. Thesis Title: Experimental Investigations on pongamia biodiesel with different insulated combustion chambers of direct injection Diesel engine
 - Ph.D. Guide: Dr.M.V.S.Murali Krishna, Professor, Mechanical Engineering Department, C.B.I.T, Hyderabad

ACADEMIC QUALIFICATIONS

M.Tech. (Mechanical Engineering)

JNTUH

Hyderabad, Telangana, India

- Specialization: Thermal Engineering
- Admission through GATE score
- Secured First Class with Distinction, 72% marks

%

72 / 100

B.E. (Mechanical Engineering)

Vijaya Nagara Engineering College

Bellary, Karnataka

- Affiliated to Gulbarga University
- Secured First Division

GPA

First Division / 4.0

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Google Scholar

scholar.google.com/citations?hl=en&user=kme4B3cAAAAJ



Research gate

researchgate.net/profile/Chirra-Reddy?ev=hdr_xprf



Linkdin

linkedin.com/in/dr-ck-791b53365



Patents

patentscope.wipo.int/search/en/result.jsf?_vid=P10-MSHA1W-74406

ACADEMIC & RESEARCH CONTRIBUTIONS



Board of Studies Member for Mechanical Engineering

2021 - Present

Rayalaseema University College of Engineering, Kurnool, Andhra Pradesh, India. 2021 Till date



Ph.D. Co-Supervisor

Currently serving as Ph.D. Co-Supervisor for seven (07) research scholars - Lincoln University, Malaysia



Ph.D. SUPERVISION & RESEARCH GUIDANCE

Lincoln University, Petlang Jaya, Selangor Darul Ehsan, Malaysia.
Viswesaraya Technological University, Belgaum, Karnataka, India.
Sridhar University, Rajasthan, India.
Shri Jagadish Prasad Jhabarmal Tibrewala University, Rajasthan, India



PUBLICATIONS - Journals, Conferences, Patents, Books

PUBLICATIONS - Journals, Conferences, Patents, Books



Journal Publications

IJ: International Journal - 41, IC: International Conference - 13+6(accepted), NC: National Conference - 03



INTERNATIONAL JOURNALS



1. Kesava Reddy, Nikhil Murthy (July 2026), Assessment of thermomechanical properties of CFRP laminates reinforced with nano-graphene, with and without phenol addition. Springer Nature, <https://doi.org/10.1038/s41598-026-48912-6>.

07/2026



2. Kesava Reddy, Md. Nizamuddin (Aug'2022), Effect of Injection Timing, Pressure and Preheating on Exhaust Emissions of YSZ Coated Diesel Engine with Pongamia Biodiesel, The International journal of analytical and experimental modal analysis (IJEMA), ISSN: 0886-9677 pp 898-905

08/2022



3. Basetty Mallikarjuna, Chirra Kesava Reddy (Sep'2022), OBE: The Impact of E-learning in Computer Science through Moodle during Covid-19 International Journal of Advanced Engineering (IJASS), ISSN: 2635-5817, 5(2), pp 16-29. <https://ictaes.org/journal/ijae/digital-library/ijae-vol-05-no-02/?ckattempt=2>

09/2022



4. Kesava Reddy Md. Nizamuddin (Mar'2022), Investigation on emissions of LHR Diesel engine with pongamia Biodiesel, Journal of Interdisciplinary cycle research, ISSN: 0022-1945, pp 1838-1849

03/2022



5. Kesava Reddy Ch (Nov 2021), internet of things to enhance development for successful plantations, continuously regulated agriculture components, 10(11), pp 454-463. https://www.ijbpas.com/pdf/2021/November/MS_IJBPAS_2021_NOV_SPCL1040.pdf

11/2021



6. Kesava Reddy Ch., IOT Monitoring System for Smart Agriculture (Oct'2021) Drugs and Cell Therapies in Hematology ISSN 2281-4876, 10(1), PPP 2924-2930. <http://www.dcth.org/index.php/journal/article/view/606>

10/2021



7. Sakthivel, Kesava Reddy, Chh., Analysis of Machine learning Techniques for Agriculture crop prediction system (Oct'2021), Drugs and Cell Therapies in Hematology ISSN 2281-4876, 10(1), PP 2938-2945. <http://www.dcth.org/index.php/journal/article/view/608>

10/2021



8. Pradeepkumar Panda, Kesava Reddy, Chh., Experimental Investigations on Mechanical Properties of water Hyacinith Fiber/Nano silica powder Reinforced polymer matrix-based Hybrid Composites (Aug 2021) Advances in Material science and Engineering. PP 1-10. <https://pdfs.semanticscholar.org/f06b/0296d7df495b068d2e4b2135289f5088c3af.pdf>

08/2021



9. Ashokachary, KK., Kesava Reddy, Chh., Pradeepkumar, JJ., Rajarao, V., (2019). Visualization of flow pattern over cylinders and cylinder with cone for improved performance of wind turbines, International of innovative technology and exploring engineering (IJITEE), ISSN 2278-3975, 8(8), pp. 811-817. <https://www.ijitee.org/download/volume-8-issue-8/>

06/2019



10. Yvv Satyavathi, Kesava Reddy ch, (Dec 2018). Finite element analysis of Air craft wing utilizing various types of materials IJRECE, ISSN 2393-9028, 6(4), PP 1736-1741

12/2018



11. Kesava Reddy ch, (March 2018), Thermal Analysis of YZTP Coated Piston Crown, International Journal Of Creative Research Thoughts (IJCRT), 6(1), PP 1035-1048. <https://ijcrt.org/generatecerti.php?&pid=IJCRT1803248>

03/2018

ACADEMIC & RESEARCH CONTRIBUTIONS

	12. KesavaReddy, Ch., MuraliKrishna, M.V.S., ManzoorHussain, M., Ravichandra, M., (Feb 2018), Effect of low thermal conductivity materials on performance of Internal Combustion engine-A review and experimentation, International Organisation of Scientific Research (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISSN2278-1684, 15(1), pp87-94. https://www.iosrjournals.org/iosr-jmce.html	 02/2018
	13. KesavaReddy, Ch., ManzoorHussain, M., Satyanayana, S., MuraliKrishna, M.V.S., (2018) Experimental Investigation-Magnetic Assisted Electro Discharge Machining. IOP Series Materials Science and Engineering. ISSN1757-899X. PP1-8. https://iopscience.iop.org/article/10.1088/1757-899X/346/1/012062/meta	 02/2018
	14. KesavaReddy, Ch., MuraliKrishna, M.V.S. and RatnaReddy, T., (2016). Effect of injection timing, pressure and preheating on Exhaust emissions of ceramic coated diesel engine with Pongamia Biodiesel. International Journal of Current Engineering and Technology (IJCET), ISSN2277-4106, 6(5), pp1841-1848. https://inpressco.com/category/ijcet/ .	 10/2016
	15. KesavaReddy, Ch., MuraliKrishna, M.V.S., RatnaReddy, T., (Sep'2016). Experimental Investigations on exhaust emissions of low heat rejection diesel engine with pongamia Biodiesel, International Journal of Application of Innovation in Engineering & Management (IJAIE), ISSN2319-4847, 5(9), pp179-190.	 09/2016
	16. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., (Sep'2016), Experimental Investigations on Performance parameters of semi adiabatic diesel engine with Mahua Bio diesel International Journal of Application of Innovation in Engineering & Management (IJAIE), ISSN: 2319-4847, 5(9), pp32-44.	 09/2016
	17. RatnaReddy, T., MuraliKrishna, M.V.S. and KesavaReddy, Ch., (Sep'2016), Experimental Investigations on Exhaust emissions of low heat rejection diesel engine with crude Mahua oil, International Journal of Thermal technologies (IJTT), ISSN 2277-4114, 6(3), PP 253-260. https://inpressco.com/category/ijtt/ .	 09/2016
	18. Janardhan, N., MuraliKrishna, M.V.S., Kesava Reddy, Ch., Durgaprasad Ro, T., (Feb' 2016), Studies on exhaust emissions and combustion characteristics of DI-Diesel engine with air gap insulation with varied injection timing and injector opening pressure, International Journal of Current Engineering and Technology (IJCET), ISSN2277-4106, 6(1), pp117-125. https://inpressco.com/category/ijcet/ .	 02/2016
	19. Janardhan, N., MuraliKrishna, M.V.S., KesavaReddy, Ch., Durgaprasad Ro, T., (Feb'2015), Effect of injection timing on performance Parameters of Direct injection Diesel Engine with air gap insulation, International Journal of Thermal Technologies (IJTT), ISSN2277-4114, 6(3), PP 9-17.	 02/2015
	20. Janardhan, N., MuraliKrishna, M.V.S., KesavaReddy, Ch., Durgaprasad Ro, T., (Feb'2015), Influence of injector Opening pressure on performance parameters of DI Diesel Engine with three levels of insulation with diesel operation, International Journal of Current Engineering and Technology (IJCET), ISSN2347-5161, 5(1), PP 53-60.	 02/2015
	21. Janardhan, N., MuraliKrishna, M.V.S., KesavaReddy, Ch., Durgaprasad Ro, T., (Feb'2015), Effect of injection timing on exhaust emissions and combustion characteristics of Direct Injection Diesel engine with ceramic coated cylinder head International Journal of Current Engineering and Technology (IJCET), ISSN2277-4106, 5(1), pp46-52. https://inpressco.com/category/ijcet/ .	 02/2015
	22. MuraliKrishna, M.V.S., Janardhan, N., KesavaReddy, Ch., VenkatakrishnaMurthy., (Dec'2014) Experimental Investigations On DI Diesel engine with different Combustion chambers Insulation, British Journal of Applied Science & Technology (BJAST), ISSN2231-0843, 6(3), pp240-260. https://publons.com/journal/21960/british-journal-of-applied-science-technology .	 12/2014
	23. Janardhan, N., MuraliKrishna, M.V.S., KesavaReddy, Ch., Durgaprasad Ro, T., (Dec'2014), Effect of injection timing on performance parameters of direct diesel engine with ceramic coated cylinder head International Journal of Scientific Engineering Research (IJSER), ISSN2229-5518, 5(12), pp1596-1607. https://www.ijser.org/indexing.aspx .	 12/2014
	24. Janardhan, N., MuraliKrishna, M.V.S., KesavaReddy, Ch., Durgaprasad Rao, T., (Dec'2014), Effect of injection timing on exhaust emissions and combustion characteristics of Direct injection Diesel engine with high grade insulated combustion chamber, International Journal of Application of Innovation in Engineering & Management (IJAIE), ISSN2319-4847, 3(12), pp213-221	 12/2014
	25. Srihari, K., KesavaReddy, Ch., (May'2014), Effect of sorret and magnetic field on unsteady flow of a radiating and chemical reacting fluid, International academy of science, Engineering and Technology, (IASET-IJME), ISSN 2319-2259, 3(3), PP 1-11.	 05/2014
	26. KesavaReddy, Ch., (Dec'2013), Comparative Performance of a crude pongamia oil in a low heat rejection Diesel engine International Organisation of Scientific Research (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISSN2278-1684, 10(3), PP44-55. https://www.iosrjournals.org/iosr-jmce.html .	 12/2013
	27. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Jun'2013), Performance, Exhaust Emissions and Combustion Characteristics of Mohr oil based Bio-diesel in a Medium Grade Low Heat Rejection Diesel Engine International Journal of Automotive Engineers and Technologies (IJAET), ISSN 2146-9067, 2(2), PP 70-84.	 06/2013
	28. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (May'2013), Performance, Exhaust Emissions and Combustion Characteristics of Mohr oil based Bio-diesel in a Medium Grade Low Heat Rejection Diesel Engine International Journal of Science, Engineering and Technology Research (IJSETR), ISSN 2278-7798, 2(5), PP 1023-1035.	 05/2013
	29. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Apr'2013), Performance, Exhaust Emissions and Combustion Characteristics of Mohr oil in crude form and Bio-diesel form in a Medium Grade Low Heat Rejection Diesel Engine, International Journal of Engineering Research and Development (IJERD), ISSN2278-067X, PP 58-70.	 04/2013
	30. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Apr'2013), Studies on performance of ceramic coated diesel engine with Fueled With crude Mohr oil, TI Journals-International Journal of Engineering Sciences (IJES), ISSN 2306-6474, 2(4), PP119-129.	 04/2013
	31. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Feb'2013), Comparative performance of ceramic coated diesel engine with mohr oil in crude and biodiesel form International Journal of Engineering and Advanced technology (CSIR). ISSN2249-8958, 2(3). PP588-596	 02/2013
	32. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Nov'2012), Performance evaluation of mohr oil based biodiesel in low grade LHR diesel engine International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN2319-8753, 1(1), PP80-94.	 11/2012
	33. RatnaReddy, T., MuraliKrishna, M.V.S., KesavaReddy, Ch., VenkatakrishnaMurthy., (Nov'2012), Performance evaluation of mohr oil based biodiesel in low grade LHR diesel engine British Journal of Applied Science & Technology (BJAST), ISSN2231-0843, 1(1), PP80-94. https://publons.com/journal/21960/british-journal-of-applied-science-technology .	 11/2012

ACADEMIC & RESEARCH CONTRIBUTIONS

-  **34.** RatnaReddy, T.T.,MuraliKrishna, MM.V.S.,KesavaReddy,Ch.,VenkatakrishnaMurthy.,(Oct'2012), Comparative performance of different versions of the low heat rejection diesel engine with mohr oil-based biodiesel,International Journal of Research & Reviews in Applied Sciences (IJRRAS),ISSN 20176-734X,1(1),PP 73-87.  10/2012
-  **35.** KesavaReddy,Ch., MuraliKrishna,M.V.S., RatnaReddy,T.,VenkatakrishnaMurthy., (Oct'2012).Performance evaluation of a high-grade low heat rejection diesel engine with crude pongamia oil International Journal of Engineering Research and Applications (IJERA), ISSN2248-9622,-2(5),PP 1505-1516.  10/2012
-  **36.** RatnaReddy,T.,MuraliKrishna,M.V.S.,KesavaReddy, Chh.,VenkatakrishnaMurthy., ((Jun'2012), Performance evaluation of a low-heat rejection diesel engine with mohr oil based biodiesel, British Journal of Applied Science & Technology(**BJAST**),ISSN2231-0843,2(2), pp179-198 .<https://publons.com/journal/21960/british-journal-of-applied-science-technology>  06/2012
-  **37.** KesavaReddy,Ch.,MuraliKrishna,M.V.S.,VenkatakrishnaMurthy.,RatnaReddy,T.,(Jun'2012), A comparative study of the performance evaluation of a low heat rejection engine with three different levels of insulation with crude pongamia oil operation, Canadian Journal on MechanicalSciences&Engineering,3(3),PP59-71.<https://www.nrcresearchpress.com/journal/tcsme>  06/2012
-  **38.** RatnaReddy,T.,MuraliKrishna,M.V.S.,KesavaReddy,Ch.,VenkatakrishnaMurthy.,(May'2012), Performance evaluation of a medium grade low heat rejection diesel engine with mohr oil based Bio diesel, International Journal of Recent Advances in Mechanical Engineering,(IJMECH)(Australia),ISSN 2200-5854,1(1),PP 1-1  05/2012
-  **39.**KesavaReddy, Chh.,MuraliKrishna,M.V.S.,VenkatakrishnaMurthy.,RatnaReddy,T.,(Apr'2012), Control of oxides of nitrogen emissions from high grade low heat rejection diesel engine with crude pongamia oil by catalytic reduction, International Journal of Advanced Scientific Engineering & Technological Research (IJASETR), (Australia).ISSN 1839-7239, 1(2), pp10-25  04/2012
-  **40.** KesavaReddy,Ch.,MuraliKrishna,M.V.S.,VenkatakrishnaMurthy.,RatnaReddy,T.,(Jan'2012), Performance evaluation of a low grade low heat rejection diesel engine with crude pongamia oil, International Scholarly Research Network (ISRN) Renewable Energy(USA), ISSN2090-7451.<https://www.hindawi.com/journals/isrn/contents/isrn.renewable.energy/>  01/2012
-  **41.** KesavaReddy,Ch.,MuraliKrishna,M.V.S.,VenkatakrishnaMurthy.,RatnaReddy,T.,(2011), Potential of a low heat rejection diesel engine with crude pongamia oil, (IJMER).ISSN2249-6645,pp210-224 .<http://www.ijmer.com/pages/indexing.html>  05/2011
-  **INTERNATIONAL CONFERENCES**
-  **1.** Aripineni Rishikesh,Vivekanadam Balasubramanyam,Chirra Kesava Reddy (Aug'2026),LivestockChain-XAI: An Integrated Cyber-Physical Intelligence Framework for Livestock Health and Supply Chain Traceability,2026 IEEE 5th World Conference on Applied Intelligence and Computing (AIC 2026),Organized by Shri Ram Institute of Technology, Jabalpur  08/2026
-  **2.** ManishGupta,OyyappanDuraipandi,ChirraKesava Reddy,Oyyappan Duraipandi (July2026), Integrated Decision Intelligence Framework for Quantifying Supply Chain Optimisation Readiness Using Fuzzy AHP-TOPSIS, XGBoost Ensemble Learning, and Covariance-Based SEM7th International Conference on Advances in Computer Engineering and Communication System,ICACEAS2026,6&7,Aug2026, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology& University of North Texas, College of Information, USA,Paper Accepted(Springer Nature)  07/2026
-  **3.**ManishGupta,OyyappanDuraipandi,ChirraKesava Reddy,Oyyappan Duraipandi (July2026),AI-Driven Digital Twin frame work for real time ergonomic assessment and adaptive work station optimization in the Global IT work force,July20-22,2026,9th European International conference on IEOM,Barcelona,Catalonia,Spain.  07/2026
-  **4.** Kesava reddy Ch,Mohammad Nizamuddin Inamdar (Nov'2023), Effect of Emissions on performance of Compression Ignition Engine with Pongamia BioDiesel-A Review and Experimentation International conference on Innovation and advances in Interdisciplinary Research,MewarUniversity,Rajasthan,,28-29thNovember,2022, ISBN:978-93-91535  11/2023
-  **5.** KesavaReddyCh,Indira PriyaDarshiniCh (Feb2021), Nano Fluids act on Performance of Solar Flat Plate Collector. International conference on Energy and Environment(ICE2021),JIE,Thrisur,Kerala,09th-10thApril20121(Springer).  02/2021
-  **6.** KesavaReddy,Ch.,ManzoorHussain,M.,(March2019), Digital human modeling in Ergonomic Risk Assessment of working posturesusing RULA International conference on Industrial Engineering and operational management ,Bangkok,Thailand,March5-7,2019,pp2714 to2725  03/2017
-  **7.** KesavaReddy,Ch.,Indira PriyaDarsini., (Feb 2019), Design and Analysis of Gas turbine blisk,4th International conference on Multidisciplinary research (ICMR-2019).Osmania University Hyderabad.ISBN:978-93-87793-67-5.  02/2019
-  **8.** KesavaReddy,Ch., Indira PriyaDarsini (Dec 2018), Thermal Analysis of slotted and drilled disk brake,1st International conference on Advances in Mechanical engineering(ICAME-2018).CMRCET Hyderabad.Dec 21stto Dec22nd,ISBN:978-81-923800-1-8.  12/2018
-  **9.** KesavaReddy, Chh.andMuraliKrishna, MM.V.S.,(Dec2018),Effect of Low Thermal conductivity materials on performance of compression Ignition Engine-A Review and Experimentation,1st International conference on Advances in Mechanical engineering(ICAME-2018), CMRCET,Hyderabad,Dec 21stto Dec22nd,ISBN:978-81-923800-1-8.  12/2018
-  **10.** KesavaReddy,Ch.andManzoorHussain,M.,(Nov2017),Experimental Investigation-Magnetic Assisted Electro Discharge Machining,International Conference on Recent advances in Materials and Manufacturing Technology, at **BITS Pilani, Dubai Campus, Dubai,UAE** ,28th to 29th Nov'2017.  11/2017
-  **11.** KesavaReddy, Chh.andMuraliKrishna,M.V.S.,(Oct2016),Effect of injection timing, Pressure and Preheating on Exhaust emissions of Diesel engine with air gap insulated combustion chamber with Pongamia biodiesel,**Recent Trends In Engineering, Science and Technology(ICRTPNFE-2016)),Elsevier Energy Procedia Proceedings**pp 116-124,Department of Mechanical Engineering ,St.Peter's engineering college, IFHE, Hyderabad.**25th to 27th October 2016**, Hyderabad.  10/2016
-  **12.** KesavaReddy,Ch.andMuraliKrishna,M.V.S.,(Oct2016)Experimental Investigations on performance parameters of semi adiabatic Diesel engine with crude Mahua oil,**Recent Trends In Engineering, Science and Technology(ICRTPNFE-2016)),Elsevier Energy Procedia Proceedings**pp 116-124,Department of Mechanical Engineering,,St.Peter's engineering college, IFHE, Hyderabad.**25th to 27th October**, Hyderabad.  10/2016
-  **13.** KesavaReddy,Ch.(Sep2016) Performance and emission evaluation of a crude pongamia oil in a low heat rejection Diesel engine,**Emerging Trends In Mechanical Engineering(ICTIME 2016),23 to 24th September2016**, Proceedings of International conference, pp682-691,Department of Mechanical Engineering ,Faculty of Science and Technology, IFHE, Hyderabad.  09/2016

NATIONAL CONFERENCES

ACADEMIC & RESEARCH CONTRIBUTIONS

-  1.Ch.KesavaReddy,(Feb2018),Investigation of Di-diesel Engine with LHR Combustion chambers with alternative fuels Recent Trends in Mechanical Engineering(NCRTME-18),Feb26-27,2018 at JNTUH College of Engineering(Autonomous),Hyd-85.Telangana,India  02/2018
-  2. Ch.KesavaReddy,(Dec 2014),CFD Analysis on Heat transfer and Pressure drop characteristics of a corrugated louvered fin and flat tube compact heat exchanger National conference on Relevance of English, Mathematics and management Sciences to Technical courses(REMMT-2014), Mahatma Gandhi Institute of Technology Hyderabad-75,Telangana,India.  12/2014
-  3. Ch.KesavaReddy,(Dec2014),Design of connecting rod of IC engine: optimization approach,National conference on Relevance of English, Mathematics and management Sciences to Technical courses (REMMT-2014), Mahatma Gandhi Institute of Technology,Hyderabad-75,Telangana,India.  12/2014

PATENTS (patentscope.wipo.int/search/en/result.jsf?_vid=P10-MSHA1W-74406)

National - 10, International - 05

-  1.**IoT-Enhanced Dedicated drone based testing of building's strength located in hazardous environment IPI**, Patent Application Number: **202431001277**, Publication date:26-01-2024.  01/2024
-  2. Performance evaluation of a thermal insulation zirconia coated engine with low heat rejection IPI, Patent Application Number: 2021105704, Publication date:19-11-2021  11/2021
-  3. Secured Mutual authentication protocol using Physical unclonable function (PUF) for IoT smart home devices.IPI, Patent Application Number: 202041056988, H04L0009080000, Publication date 19-02-2021  02/2021
-  4.A smart and Efficient setup to use Solar Energy for CCTV Cameras, IPI, Application Number: 202141000855A, H04L67/1008, Date of Publication:15-01-2021.  01/2021
-  5. Method to Analyze Thermal Sensation response through static environment variables and dynamic physical parameters in populated indoor locations.IPI, Application Number: 202141003424A, A61L, Date of Publication 05-02-2021  02/2021
-  6. Side supporting wheels for Two Wheelers, IPI, H04L0029080000, Patent Application Number: 202141006213, IPI, Date of Publication 19-02-2021  02/2021
-  7. An automated locker with embedded systems for more efficiency in terms of security and privacy. IPI, Application Number: 202141006540, IPI, Date of Publication 26-02-2021.  02/2021
-  8. A machine learning techniques for early detection of Stroke based Signals.IPI, Patent Application Number: 202131006222,IPI,Date of Publication 15-02-2021.  02/2021
-  9. A Novel material fabrication to detect Breast Cancer using deep novel classification mechanism. Application Number: 202141022983, IPI, Date of Publication 11-06-2021  06/2021
-  10. Interconnection of USB devices over the cloud, Application Number:202141021846, IPI, Date of Publication 11-06-2021.  06/2021
-  11.**Sewage Pipe line blockage and Bottle neck detection using hybrid sensor and Geo-spatial Data analysis**, Application Number: 2021101981, Date of granted 26-05-2021, **International Patent, AU**  05/2021
-  12.**A Method of Tracking and Managing Municipal wastes using Geo-spatial Technology**, Application Number:2021102153, Date of granted 26-05-21,**International Patent,AU**  05/2021
-  13.**Foot operated seed and leaves Pulverizer using automated thrust control technique**.Application Number: 2021102601, Date of granted 28-07-2021, **International Patent, AU**.  07/2021
-  14. **Performance evaluation of a thermal insulation zirconium coated engine with low heat rejection**, Application Number:2021105704,Date of granted:10-11-2021,AU.  10/2021
-  15. **A smart Traffic monitoring IP camera system for realistic modeling of IoT Networks**, Application number:2021105712,Date of Grant:03-11-2021.  11/2021

MEMBERSHIPS IN PROFESSIONAL BODIES

-  **Life Member - Indian Society for Technical Education**
LM31795
-  **Life Member - Indian society of theoretical and applied mechanics**
LM 808
-  **Life Member - Indian society for Heat and Mass transfer**
LM-834
-  **Life Member - International Association of Engineers, Hong Kong**
LM 129548
-  **Life Member - The Combustion Institute - Indian Section (CI-IS)**
LM1233
-  **Life Member- HongKong Society of Mechanical Engineers(KOME)**
M20180907001
-  **Life Member- HKCBEEES(HongKong)**
HKCBEEES101769

ACADEMIC & RESEARCH CONTRIBUTIONS



REVIEWER & EDITORIAL BOARD MEMBERSHIPS

SCIREA Journal of Physics, <http://www.scirea.org/journal/EditorialBoard?JournalID=14000>
International Journal of Engineering Development and Research (IJEDR), <https://www.ijedr.org/editorialBoard.php>
Innovation Science Academy (ISA), <https://journal.scienceacad.com/editorial-and-advisory-board/>
International Academy of Science, Engineering and Technology(IASET), <https://www.iaset.us/editorial-board/international-journals/international-journal-of-mechanical-engineering>
Journal of Thermal and Fluid Science (RAME-JTFS)-EBTF202010
Journal of Energy and Natural Resources JENR, USA
ICT-Advanced Engineering Society, North Korea, <https://ictaes.org/journal/ijae/editorial-board/>
IJATES, IJARSE, IJRSE, IJSTM, IJEEE Journals, from March'2025
International Journal of Innovative Research in engineering & Multidisciplinary Physical Sciences (IJIRMPs), <https://www.ijirmps.org/editors-and-reviewers.php>



Guest Faculty

Lincoln University (LUC) and University of Malaya (UOM) Malaysia
Asian Institute of Technology (AIT), Bangkok
University of Emerging Technologies, USA,CA



Session chair

Presented a paper in International Conference on Industrial Engineering and Operations Management (IEOM 2019), at Bangkok, Thailand



Participated and presented a paper

📅 11/2017 - 11/2017

International Conference on Recent advances in Materials and Manufacturing Technology, at BITS Pilani, Dubai Campus, Dubai, UAE, 28th to 29th Nov'2017

BOOKS PUBLICATION

(INTERNATIONAL BOOKS - 15, NATIONAL BOOKS - 02)

1.Strategic Logistics and Supply Chain Management

Blue Rose Publications,India,UK,ISBN:978-93-7825-295-2

📅 03/2026

2.Data trust in the digital era-Building resilient architectures

Vinsa publications, ISBN:978-8198998026

📅 07/2025

3.AI-Based Electric Vehicle

GehPress, ISBN:978-93-6717-937-6

📅 06/2025

4.Data Science for Beginners

NTL publications, ISBN:978-81-19762-34-7

📅 08/2024

5.Modern Machine Learning Concepts

Vinsa publications, ISBN:978-8197152726

📅 04/2024 🔗 <https://amzn.in/d/bX20FTw>

6.Basic civil and Mechanical Engineering

Vinsa publications, ISBN:978-81-968096-9-0

📅 03/2024

7.Autonomous Vehicle Design & Engineering

Vinsa publications, ISBN:978-81-968096-3-8

📅 03/2024 🔗 <https://amzn.in/d/d0mT3fy>

8.Artificial Intelligence in Mechanical Engineering

Vinsa publications, ISBN:978-81-968096-5-2

📅 02/2024 🔗 <https://amzn.eu/d/4jqXUgo>

9.Advancements in Supply Chain Management

Vinsa publications, ISBN:978-81-968096-2-1

📅 01/2024

10.Fundamentals of Engineering Thermodynamics

Cosmas publications, ISBN:978-81-19359-57-8

📅 01/2024 🔗 <https://amzn.eu/d/iJGcSID>

11.Advancements in Electric and Hybrid vehicles

Cosmas publications, ISBN:978-81-19359-56-1

📅 12/2023 🔗 <https://amzn.eu/d/3wlupBm>

12.Design and Analysis of Axial Flow Fans

Lambert Academic Publishing, Germany, U.K, ISBN:978-613-9-58589-2

📅 04/2018 🔗 <https://www.amazon.com/Design-Analysis-Axial-Flow-Fans/dp/6139585899>

BOOKS PUBLICATION

13.Design Analysis and Fabrication of Piston on CNC Machine

SIA omni Scriptum Publishing (Scholars Press), Lativa, European Union, ISBN:978-620-2-30951-6

📅 04/2018 [🔗 https://www.morebooks.de/store/gb/book/design-analysis-and-fabrication-of-piston-on-cnc-machine/isbn/978-620-2-30951-6](https://www.morebooks.de/store/gb/book/design-analysis-and-fabrication-of-piston-on-cnc-machine/isbn/978-620-2-30951-6)

14.Structural and Thermal Analysis of Silver coated Piston crown

SIA omni Scriptum Publishing (Scholars Press), Lativa, European Union, ISBN:978-620-2-31161-8

📅 05/2018 [🔗 https://www.morebooks.de/store/gb/book/structural-and-thermal-analysis-of-silver-coated-piston-crown/isbn/978-620-2-31161-8](https://www.morebooks.de/store/gb/book/structural-and-thermal-analysis-of-silver-coated-piston-crown/isbn/978-620-2-31161-8)

15.-Stroke Compression ignition Engine noise using different blends of Pongamiaoil

Lambert Academic Publishing, Germany, U.K, ISBN:978-3-659-51006-9

📅 01/2014 [🔗 https://www.amazon.in/Stroke-Diesel-Engine-Different-Pongamia/dp/3659510068](https://www.amazon.in/Stroke-Diesel-Engine-Different-Pongamia/dp/3659510068)

NATIONAL BOOKS

Thermal Engineering - I

Sure publications, Hyderabad 2004

📅 2004

Thermal Engineering - II

Sure publications, Hyderabad 2004

📅 2004

Revised Edition of Thermal Engineering -II

Sure publications-2006

📅 2006

TECHNICAL SKILLS

Computational Fluid Dynamics

Design Optimization

ANSYS Fluent

ANSYS CFX

ANSYS Mechanical

COMSOL Multiphysics

MATLAB/Simulink

OpenFOAM

COURSERA CERTIFICATES

AI for Autonomous Vehicles and Robotics

University of Michigan '2026

HVAC Fundamentals - (2026)

Completed training in electrical fundamentals, HVAC system operation, heating and cooling components, refrigerants (A2L), pressure-temperature relationships, multimeter usage, and preventive HVAC maintenance.

Wind Energy

Coursera (Denmark University)

Python Programming

Coursera (IBM)

Automotive Engineering

Udemy

Introduction to Data Engineering

course authorized by IBM and offered through Coursera' 2026

Introduction to Solar Cells

Coursera (DTU Technical University of Denmark)

Introduction to Thermodynamics: Transferring Energy here and there

Coursera (Michigan University)

Introduction to Artificial Intelligence

Coursera (IBM)

Cyber Security: Application of AI

Macquarie University, Sydney. Australia'2026

Introduction to Petroleum Engineering

Coursera (Tomsk University)

Solar Energy Basics

Coursera (The State University of New York)

Introduction to Cyber Security tools & Cyberattacks

Coursera (IBM)

AWARDS



Academic Leadership Award 2025

Noble Bond 2025 Indo-Pak Paragon awards organized by ISRHC and SIAM Technology college, Thailand, 12 to 13th April 2025



The Best Researcher Award-2020

Engineering & Technology, SAS Society, India



India Independence award 2021

Best Performer Working for Differently Abled Children, Organized by Dolphin(PG) College of Science & Agriculture, Punjab, India



IMRF James Watt Excellence Award in Mechanical Engineering.2020



The Best Senior Faculty Award

NRA, India, NRA/BSSA/0111164/2020-2021



The Best Thesis Award

Oct'28, 2020, Keysets University, Thailand

SOCIAL & COMMUNITY DEVELOPMENT CONTRIBUTIONS

Advisory Committee Member

Haritha Foundation

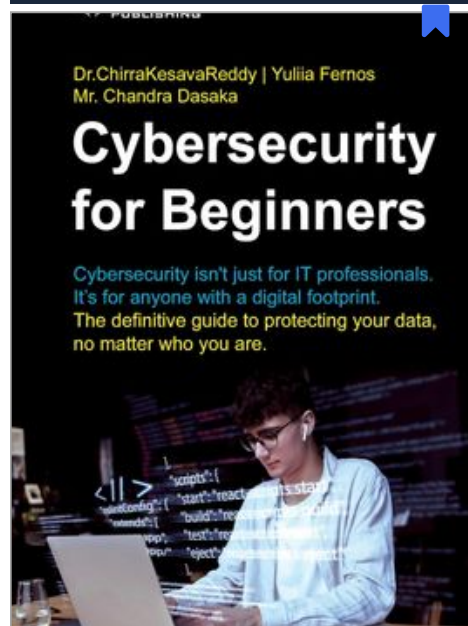
📅 2020 - Present 📍 Hyderabad

Focused on rural education, child welfare & environmental awareness. (<https://harithafoundation.org/>)

- Leading and advising rural child education, welfare, and awareness programs
- Conducted and guided multiple outreach activities benefiting underprivileged children
- Promoted education, hygiene, environment, and career awareness in rural communities
- Facilitated and contributed (JNTUH, Hyderabad, Telangana)-₹22 Lakhs worth advanced 3D Printing Machine through Haritha Foundation for academic and research purposes
- The facility is actively benefiting M.Tech and Ph.D scholars for: Advanced prototyping, Research experimentation, Product development, Industry-oriented innovation
- Strengthened research infrastructure and hands-on learning capabilities for postgraduate and doctoral students
- Promoted innovation, design thinking, and additive manufacturing research among higher education scholars
- This initiative significantly enhanced the institution's research output, project quality, and practical exposure.

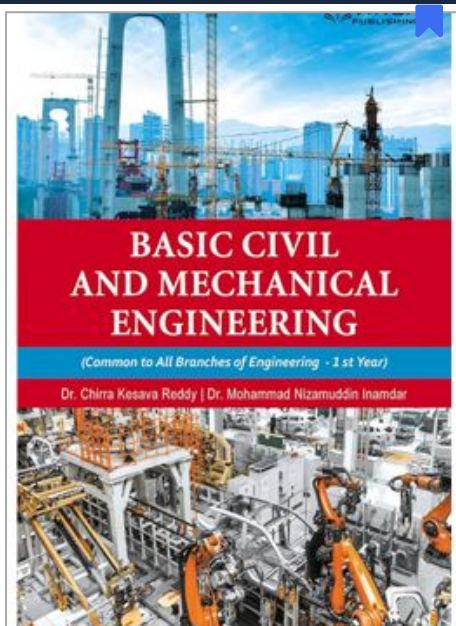
I hereby declare that all statements in this Curriculum Vita are true, complete and correct to the best of my knowledge and belief.

CERTIFICATIONS



Title

Dr Chirra Kesava Reddy Yulia Fernos Mr chandra Dasaka



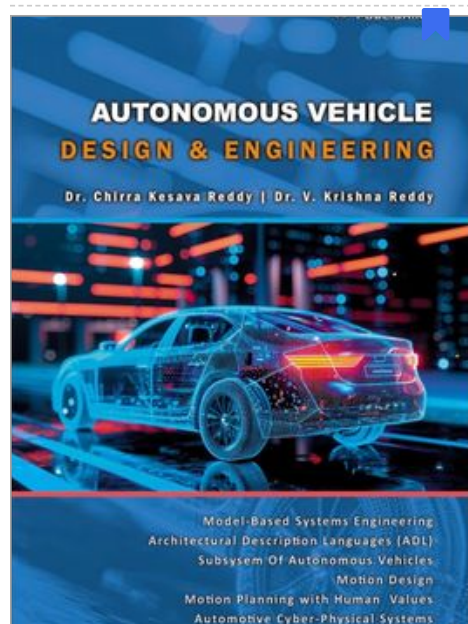
Title

Dr Chirra Kesava Reddy Dr Mohammad Nizamuddin



Introduction to Data Engineering an online course authorized by IBM and offered through Coursera

Dr Ch Kesava Reddy



Title

Dr Chirra Kesava Reddy Dr V Krishna Reddy

REFERENCES

Available upon request

Khesava