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**PERSONAL DETAILS**

Nationality : Indian  
State : Telangana State  
Date of birth : 04<sup>th</sup> August, 1985  
Age : 40 Years  
Sex : Male  
Father's name : Mr Bhavsingh Gugulothu



**EDUCATION**

Program	Institution	Year of completion
Ph.D. in Mechanical Engineering	Osmania University, Hyderabad, Telangana State	2023
M Tech in Ocean Engineering	Indian Institute of Technology Madras, Chennai	2011
B Tech in Mechanical Engineering	JNTU College of Engineering, Hyderabad, Andhra Pradesh	2008
Intermediate	Sree Chaithanya Junior College, Khammam, Andhra Pradesh	2003
S.S.C	APTWRS, Eturnagaram, Warangal, Andhra Pradesh	2001

**SKILLS**

- Computer skills  
Packages : GAMBIT & Fluent, Orca Flex, Auto CAD, Math CAD, Mathematica and Microsoft Office.  
Operating System : Windows (98/2000/2010/XP)  
Language : 'C' programming, FORTRAN and MAT LAB.

**PROJECTS**

- “Experimental Investigations on Augmentation of heat transfer in Shell and Tube Heat Exchangers” as Ph.D. Thesis
- To Design a “Steel Catenary Type Marine Riser” as a PG Design Project.
- “Studies on the Seabed Interaction of Riser and Catenary System for a FPSO” as a PG Main Project.
- “CFD analysis of two-phase flow using VOF model for low mass fluxes of refrigerants prediction of pressure drop”, as a UG Project.

**TRAINING DETAILS**

- Worked as a Project Assistant in BHEL Hyderabad.
- Practical Training in Chennai Port Trust during my M.Tech course work.
- Working as “Assistant Professor (Contract)” (for Teaching UG & PG classes) since, 2<sup>nd</sup> July, 2011 in the Department of Mechanical Engineering, Jawaharlal Nehru Technological University Hyderabad, University College of Engineering, Science and Technology Hyderabad.

**MEMBERSHIP**

- Life membership in “The Indian Society for Technical Education (ISTE)”, with LM: 97298.
- Membership in “International Association of Engineers (IAENG)”, Membership Number: 143206.
- Life Member of National Society of Fluid Mechanics and Fluid Power (NSFMFP), Membership Number: LM847.

## AWARDS AND ACHIEVEMENTS

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1. Secured All India Rank 4109 (82.14 Percentile) in GATE-2009 (Graduate Aptitude Test in Engineering) in Mechanical Engineering.
2. Recipient of Scholarship from Ministry of Human Resources Development (MHRD), Government of India, during M.Tech at Indian Institute of Technology Madras (IIT Madras).

## EXTRA& CO-CURRICULAR ACTIVITIES

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1. Presented a model on “Cylindrical Parabolic Concentric Heat Collector” in SRUJANA-2007, a State Level Project Exhibition cum Competition.
2. Short listed twice an interview of “**Neyveli Lignite Corporation India Limited**” written test in 2008 and 2012.
3. Scored 102<sup>nd</sup> Rank in “**PGECET-2008**” Conducted by “OSMANIA University”, Hyderabad.
4. Short listed in written test for Interview in “**DRDO SET-2008**” conducted for **Scientist B**.
5. Short listed in written test for the post of “**Assistant Professor**” conducted by JNTU Kakinada, in 2012.
6. Short-listed in written test for 3<sup>rd</sup> Stage Computer Based Test of **CEN-01/2018 (ALP & Technicians)** Conducted by Railway Recruitment Boards, Ministry of Railways, Government of India in 2019.
7. Short listed in written test for Phase-2, faculty position of Department of Mechanical and Aerospace Engineering at **Indian Institute of Technology Hyderabad (IIT Hyderabad)**, advertisement No. Special Recruitment Drive/02-2023 for SC/ST/OBC-NCL/EWS for faculty positions in 2023.
8. Short listed for an interview, faculty position in Department of Mechanical Engineering at **Indian Maritime University**, advertisement No. IMU-HQ/R/T/2025/01, Special Recruitment Drive-Teaching Faculty for SC/ST/OBC.

## NPTEL ONLINE COURSES ATTENDED

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1. Awarded with “**Elite**” Certificate for successfully completing the course “**Bio-energy**” with consolidated score of **69%** from July-September, 2019 offered by **the Ministry of HRD, Govt. of India**.
2. Awarded certificate NPTEL-AICTE “**Faculty Development Programme**” for successfully completing the course “**Bio-energy**” with a consolidated score of **69% funded by the Ministry of HRD, Govt. of India** from July-September, 2019.
3. Awarded Certificate for successfully completing the “**Biomass Characterization**” of **4 Credit** course for the session July-October, 2019 offered by **the Ministry of HRD, Govt. of India**.

## NPTEL COURSES FOR TRANSLATION

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1. Engineering Metrology (112104250), Lecture Series: 19-27, dated: 11.09.2020.
2. Energy Conservation and Waste Heat Recovery (112105221), Lecture Series: 45-55, dated: 19.07.2021.
3. Introduction to Aircraft Control System (101104330)
4. Rocket Propulsion (101106082)
5. Introduction to Abrasive Machining and Finishing Processes (112103250)

## WORKSHOPS CONDUCTED

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1. Conducted webinar on “**Laws of thermodynamics & their applications**” under twinning activity with Mentee Institute Motihari College of Engineering Motihari, Bihar & SMVDU, Jammu on 8<sup>th</sup> to 10<sup>th</sup> February, 2021.
2. Organized an Online Short-Term Course on “**Hybrid Vehicle Technology**” under twinning activity with Mentee Institute Motihari College of Engineering Motihari, Bihar & SMVDU, Jammu on 11<sup>th</sup> to 13<sup>th</sup> February, 2021.
3. Dr. Naga Sarada Somanchi and **Dr. Ravi Gugulothu**, Conducted UGC sponsored Two-week Online Refresher Course on “**Robotics**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 19.02.2024 to 02.03.2024.
4. Dr. N Darga Kumar and **Dr. Ravi Gugulothu**, Conducted UGC sponsored Two-week Online Refresher Course on “**Principles of Engineering Mechanics and Mechanics of Solids**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 09.09.2024 to 24.09.2024.
5. Dr. Naga Sarada Somanchi and Dr. Ravi Gugulothu, Conducted UGC sponsored Two-week Online Refresher Course on “**Advances in Thermal Engineering and Their Applications**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 20.01.2025 to 01.02.2025.
6. Dr. Indira Rani Marpu and Dr. Ravi Gugulothu, Conducted UGC sponsored Two-week Online Refresher Course on “**Optimization Tools for Engineering Applications**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 14.07.2025 to 29.07.2025.

7. Dr. B Balu Nayak, Sri Suresh B, and Dr. Ravi Gugulothu, Conducted UGC sponsored Two-week Online Refresher Course on “**Robotics and Additive Manufacturing**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 06.10.2025 to 21.10.2025.
8. Dr. K Vijaya Kumar Reddy, and Dr. Ravi Gugulothu, Conducted UGC sponsored Two-week Online Refresher Course on “**Cooling the Future: Innovations in Battery Thermal Management Systems for Electric Vehicles**”, organized by UGC-Malaviya Mission Teacher Training Centre, JNTU Hyderabad, during 16.02.2026 to 02.03.2026.

## PATENTS

1. Dr. Naga Sarada Somanchi and Dr. Ravi Gugulothu, “EXPERIMENTAL AND NUMERICAL DESIGN ON THE FORCED CONVECTION HEAT TRANSFER CHARACTERISTICS OF AIR IN A CIRCULAR TUBE WITH INSERTS”, awarded by Office of the Controller General of Patents, Designs & Trade Marks, Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India on 29.03.2024.
2. Dr. Jatoth Heeraman, Dr. Ravi Gugulothu, Dr. Naga Sarada Somanchi, and Dr. Narsimhulu Sanke, “A DOUBLE PIPE HEAT EXCHANGER WITH ENHANCED HEAT TRANSFER USING DIMPLED TWISTED TAPE INSERTS”, Patent No.: 2025411055258 A.

## INTERNATIONAL CONFERENCE PAPERS

1. **Ravi Gugulothu**, Naga Sarada Somanchi, R Sri Rama Devi and Devender Vilasagarapu (2014), “Experimental Study of Solar Still with Energy Storage Material”, is presented in “International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends”, Organized by Department of Mechanical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal, Madhya Pradesh, held on 27<sup>th</sup> to 29<sup>th</sup> November, 2014.
2. **Ravi Gugulothu**, Naga Sarada Somanchi, R Sri Rama Devi and Kishan Banothu (2014), “Solar Water Distillation Using Three Different Phase Change Materials”, is presented in “International Conference on Advances in Design & Manufacturing”, held on 5<sup>th</sup>–7<sup>th</sup> December, 2014 at NIT Tiruchirappalli, Tamil Nadu, India.
3. **Ravi Gugulothu**, Naga Sarada Somanchi, Sri Rama Devi R and Hima Bindu Banoth (2015), “Experimental Investigations on Performance Evaluation of a Single Basin Solar Still Using Different Energy Absorbing Materials”, is presented “International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE)-2015”, Organized by National Institute of Technology Surathkal (NIT K), Mangalore, Karnataka, during 12<sup>th</sup> -14<sup>th</sup> March, 2015.
4. **Ravi Gugulothu**, Naga Sarada Somanchi, Devender Vilasagarapu and Hima Bindu Banoth (2015), “Solar Water Distillation Using Three Different Phase Change Materials”, is presented in 4<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2015)” Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal. During 14<sup>th</sup> -16<sup>th</sup> March, 2015.
5. **Ravi Gugulothu**, Naga Sarada Somanchi, K.Vijaya Kumar Reddy and Devender Gantha (2015), “A Review on Solar Water Distillation Using Sensible and Latent Heat”, is presented in “International Conference on Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20”, Organized by Department of Mining Engineering, National Institute of Technology Karnataka, Surathkal, India, during 17<sup>th</sup>- 18<sup>th</sup> April, 2015.
6. **Ravi Gugulothu**, Naga Sarada Somanchi, Hima Bindu Banoth and Kishan Banothu (2015), “A Review on Solar Powered Air Conditioning System”, is presented “International Conference on Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20”, Organized by Department of Mining Engineering, National Institute of Technology Karnataka, Surathkal, India, during 17<sup>th</sup>- 18<sup>th</sup> April, 2015. [doi: 10.1016/j.proeps.2015.06.073](https://doi.org/10.1016/j.proeps.2015.06.073).
7. **Ravi Gugulothu**, Naga Sarada Somanchi, K Vijaya Kumar Reddy and Kavya Akkiraju (2016), “A Review on Enhancement of Heat Transfer in Heat Exchanger with Different Inserts”, is presented in 5<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2016)” Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal. During 12<sup>th</sup> -13<sup>th</sup> March, 2016.
8. **Ravi Gugulothu**, Vijaya Kumar Reddy K, Naga Sarada Somanchi and Etukuri Lalith Adithya (2016), “A Review on Enhancement of Heat Transfer Techniques”, is presented in 5<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2016)” Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal. During 12<sup>th</sup> -13<sup>th</sup> March, 2016.
9. **Ravi Gugulothu**, Naga Sarada Somanchi, Devendar G, Pranavi Kaluri and Neeraja Deepika (2016), “Solar Water Distillation Using Different Phase Change Materials”, is presented in 5<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2016)” Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal. During 12<sup>th</sup> -13<sup>th</sup> March, 2016.

10. **Ravi Gugulothu**, Naga Sarada Somanchi, K Vijaya Kumar Reddy and Jeewan V Tirkey (2016), “A Review on Baffles for Shell and Tube Heat Exchangers”, Proceedings of the Asian Congress on Gas Turbines (ACGT-2016). Department of Aerospace Engineering, Indian Institute of Technology Bombay, during 14<sup>th</sup> to 16<sup>th</sup> November, 2016.
11. **Ravi Gugulothu**, Narsimhulu Sanke and A.V.S.S.K.S Gupta (2018), “Numerical Study of flow characteristics in shell and tube heat exchangers”, Proceedings of the International Conference Numerical Heat Transfer and Fluid Flow (NHTFF-2018), Organized by Department of Mathematics, NIT Warangal, India, during 19<sup>th</sup> to 21<sup>st</sup> January, 2018. [doi.org/10.1007/978-981-13-1903-7\\_43](https://doi.org/10.1007/978-981-13-1903-7_43).
12. **Ravi Gugulothu**, Narsimhulu Sanke, Farid Ahmed and Ratna Kumari (2020), “Numerical Study on Shell and Tube Heat Exchanger with Segmental Baffle”, International Joint Conference on Advances in Computational Intelligence (IJCACI-2020), Organized by Daffodil International University, Bangladesh; Jahangirnagar University, Bangladesh and South Asian University, India. On 20<sup>th</sup>-21<sup>st</sup> November, 2020. DOI: [10.1007/978-981-16-0586-4](https://doi.org/10.1007/978-981-16-0586-4).
13. **Ravi Gugulothu**, Narsimhulu Sanke, Farid Ahmed, Naga Sarada and M.T.Naik, “Numerical study of shell and tube heat exchanger parameters”, Proceedings of 1<sup>st</sup> International Conference on Applied Analysis, Computation and Mathematical Modelling in Engineering (AACMME-2021), Organized by Department of Mathematics, National Institute of Technology, Rourkela, held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021. [doi.org/10.1007/978-981-19-1824-7\\_6](https://doi.org/10.1007/978-981-19-1824-7_6).
14. **Ravi Gugulothu**, Narsimhulu Sanke, Sahith Nagadesi and Ratna Kumari Jilugu, “Thermal hydraulic performance of helical baffle shell and tube heat exchanger using RSM Method”, Proceedings of 1<sup>st</sup> International Conference on Applied Analysis, Computation and Mathematical Modelling in Engineering (AACMME-2021), Organized by Department of Mathematics, National Institute of Technology, Rourkela, held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021. [doi.org/10.1007/978-981-19-1824-7\\_11](https://doi.org/10.1007/978-981-19-1824-7_11).

#### ONLINE JOURNAL PAPERS

1. S. Naga Sarada, P. Ram Reddy and **Gugulothu Ravi** (2013), “Experimental Investigations on Augmentation of Turbulent Flow Heat Transfer in a Horizontal Tube Using Square Leaf Inserts”, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 8, August 2013, pp: 420-424. [www.ijetae.com/files/Volume3Issue8/IJETAE\\_0813\\_65.pdf](http://www.ijetae.com/files/Volume3Issue8/IJETAE_0813_65.pdf)
2. Naga Sarada Somanchi, Sri Rama Devi R and **Ravi Gugulothu** (2014), “Experimental Investigations on Heat Transfer Enhancement in a Horizontal Tube Using Converging and Diverging Conical Strip Inserts”, Applied Mechanics and Materials Volume 592-594, pp: 1590-1595, 2014, ISSN: 16627482. [doi.org/10.4028/www.scientific.net/AMM.592-594.1590](https://doi.org/10.4028/www.scientific.net/AMM.592-594.1590)
3. S.Naga Sarada, Banoth Hima Bindu, Sri Rama Devi R and **Ravi Gugulothu** (2014), “Solar Water Distillation Using Two Different Phase Change Materials”, Applied Mechanics and Materials Volume 592-594, pp:2409-2415, 2014, ISSN: 16627482. [doi.org/10.4028/www.scientific.net/AMM.592-594.2409](https://doi.org/10.4028/www.scientific.net/AMM.592-594.2409).
4. K. Vijaya Kumar Reddy, Naga Sarada Somanchi, Hima Bindu Banoth and **Ravi Gugulothu** (2014), “Experimental Study of Solar Still with Energy Storage Materials”, ASME 2014, 12<sup>th</sup>Bennial Conference on Engineering Systems Design and Analysis, Volume 2: Dynamics, Vibration and Control; Energy; Fluids Engineering; Micro and Nano Manufacturing. Paper No. ESDA2014-20109, pp: V002T09A005. ISBN: 978-0-7918-4584-4. [doi:10.1115/ESDA2014-20109](https://doi.org/10.1115/ESDA2014-20109)
5. **Ravi Gugulothu**, Naga Sarada Somanchi, R. Sri Rama Devi and Devender Vilasagarapu (2014), “Experimental Study of Solar Still with Energy Storage Material”, Journal of Sustainable Manufacturing and Renewable Energy, Volume 3, Number 1-2, 2014. ISSN: 2153-6821, Nova Science Publishers, Inc.
6. Naga Sarada Somanchi, Sri Rama Devi Rangisetty, Sudheer Prem Kumar Bellam, **Ravi Gugulothu** and Samuel Bellam (2014), “Experimental Investigations on Heat Transfer Enhancement in a Horizontal Tube Using Converging and Diverging Conical Strips”, ASME 2014 Gas Turbine India Conference, New Delhi, India, December 15<sup>th</sup>- 17<sup>th</sup>, 2014, ISBN: 978-0-7918-4964-4. [doi:10.1115/GTINDIA2014-8287](https://doi.org/10.1115/GTINDIA2014-8287).
7. **Ravi Gugulothu**, Naga Sarada Somanchi, Sri Rama Devi R and Hima Bindu Banoth (2015), “Experimental Investigations on Performance Evaluation of a Single Basin Solar Still Using Different Energy Absorbing Materials”, Aquatic Procedia 4(2015) 1483-1491. [doi: 10.1016/j.aqpro.2015.02.192](https://doi.org/10.1016/j.aqpro.2015.02.192).
8. **Ravi Gugulothu**, Naga Sarada Somanchi, K.Vijaya Kumar Reddy and Devender Gantha (2015), “A Review on Solar Water Distillation Using Sensible and Latent Heat”, proceedings of “International Conference on Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20”, Procedia Earth and Planetary Science 11 (2015), pp:354-360. [doi: 10.1016/j.proeps.2015.06.072](https://doi.org/10.1016/j.proeps.2015.06.072).
9. **Ravi Gugulothu**, Naga Sarada Somanchi, Hima Bindu Banoth and Kishan Banothu (2015), “A Review on Solar Powered Air Conditioning System”, proceedings of “International Conference on Global Challenges, Policy Framework

& Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20”, *Procedia Earth and Planetary Science* 11(2015), pp:361-367. [doi.org/10.1016/j.proeps.2015.06.073](https://doi.org/10.1016/j.proeps.2015.06.073).

10. Naga Sarada Somanchi, Anjaneya Prasad B, **Ravi Gugulothu**, Ravi Kumar Nagula and Sai Phanindra Dinesh K (2015), “Performance of Solar Still with Different Phase Change Materials”, *International Journal of Energy and Power Engineering*, 2015; 4(5-1): 33-37. ISSN: 2326-960X. [doi: 10.11648/j.ijpe.s.2015040501.15](https://doi.org/10.11648/j.ijpe.s.2015040501.15).
11. **Ravi Gugulothu**, Naga Sarada Somanchi, Devender Vilasagarapu and Hima Bindu Banoth (2015), “Solar Water Distillation Using Three Different Phase Change Materials”, 4<sup>th</sup> International Conference on Materials Processing and Characterization, *Materials Today: Proceedings* 2(2015), 1868-1875. [doi.org/10.1016/j.matpr.2015.07.137](https://doi.org/10.1016/j.matpr.2015.07.137).
12. Laxmana Swamy, B. Sudheer Prem Kumar, K. Vijaya Kumar Reddy, Aruna Kumari. A, Bellam Samuel Naveen and **Ravi Gugulothu** (2015), “Performance and Analysis of Diesel Engine at Various Injection Timings under Various Cooling Rates during Shorter Injection Period”, 4<sup>th</sup> International Conference on Materials Processing and Characterization, *Materials Today: Proceedings* 2(2015), 1672-1681. [doi.org/10.1016/j.matpr.2015.07.095](https://doi.org/10.1016/j.matpr.2015.07.095).
13. **Ravi Gugulothu**, Naga Sarada Somanchi, Devendar G, Pranavi Kaluri and Neeraja Deepika (2017), “Solar Water Distillation Using Different Phase Change Materials”, 5<sup>th</sup> International Conference of Materials Processing and Characterization (ICMPC-2016), *Materials Today: Proceedings* 4 (2017), pp: 314-321. [doi.org/10.1016/j.matpr.2017.01.027](https://doi.org/10.1016/j.matpr.2017.01.027).
14. **Ravi Gugulothu**, Naga Sarada Somanchi, K. Vijaya Kumar Reddy and Kavya Akkiraju (2017), “A Review on Enhancement of Heat Transfer in Heat Exchanger with Different Inserts”, 5<sup>th</sup> International Conference of Materials Processing and Characterization (ICMPC-2016), *Materials Today: Proceedings* 4 (2017), pp: 1045-1050. [doi.org/10.1016/j.matpr.2017.01.118](https://doi.org/10.1016/j.matpr.2017.01.118).
15. **Ravi Gugulothu**, Vijaya Kumar Reddy. K, Naga Sarada Somanchi, and Etukuri Lalith Adithya (2017), “A Review on Enhancement of Heat Transfer Techniques”, 5<sup>th</sup> International Conference of Materials Processing and Characterization (ICMPC-2016), *Materials Today: Proceedings* 4 (2017), pp: 1051-1056. [doi.org/10.1016/j.matpr.2017.01.119](https://doi.org/10.1016/j.matpr.2017.01.119).
16. Vijaya Kumar Reddy.K, Sudheer Prem Kumar B, **Ravi Gugulothu**, Kakaraparthi Anuja and Vijaya Rao P (2017), “CFD Analysis of a Helically Coiled Tube in Tube Heat Exchanger”, 5<sup>th</sup> International Conference of Materials Processing and Characterization (ICMPC-2017), *Materials Today: Proceedings* 4 (2017), pp: 2341-2349. [doi.org/10.1016/j.matpr.2017.02.083](https://doi.org/10.1016/j.matpr.2017.02.083).
17. **Ravi Gugulothu**, Narsimhulu Sanke, AVSSSKS Gupta and Ratna Kumari Jilugu, “A Review on Helical Baffles for Shell and Tube Heat Exchangers”, *International Journal of Modern Engineering and Research Technology*, Volume 5, Special Issue, June 2018, pp: 129-139, ISSN: 2348-8565.
18. **Ravi Gugulothu**, Narsimhulu Sanke, and Ratna Kumari Jilugu and Sri Rama Devi Rangisetty, “Numerical Investigation on Heat Transfer of Helical Baffles Shell and Tube Heat Exchangers”, *International Journal of Modern Engineering and Research Technology*, Volume 5, Special Issue, June 2018, pp: 155-160, ISSN: 2348-8565.
19. **Ravi Gugulothu**, Narsimhulu Sanke and A.V.S.S.K.S Gupta (2018), “Numerical Study of Heat Transfer Characteristics in Shell and Tube Heat Exchanger”, *Lecture Notes in Mechanical Engineering: Numerical Heat Transfer and Fluid Flow*, Edited by Srinivasacharya D and K. Srinivas Reddy. [10.1007/978-981-13-1903-7\\_43](https://doi.org/10.1007/978-981-13-1903-7_43).
20. Shankar Goud B, Ratna Kumari Jilugu, **Ravi Gugulothu** and K. Shiva Kumar (2019), “Effects of the Thermal Radiation on the Boundary Layer Flow over an Exponentially Stretching Sheet in the Presence of Viscous Dissipation”, *International Journal of Modern Engineering and Research Technology*, Volume 6, Issue 1, January 2019, ISSN: 2348-8565 (Online).
21. Farid Ahmed, Md Minaruzzaman Sumon, Muhtasim Fuad, **Ravi Gugulothu** and AS Mollah, “Numerical Simulation of Heat exchanger for analyzing the performance of parallel and counter flow”, *WSEAS Transactions on Heat and Mass Transfer*, Vol.: 16, 2021, pp: 145-152. DOI: [10.37394/232012.2021.16.17](https://doi.org/10.37394/232012.2021.16.17).
22. **Ravi Gugulothu** and Narsimhulu Sanke, “Use of segmental baffle in shell and tube heat exchanger for nano emulsions”, *Journal of Heat Transfer*, Wiley Publisher, Vol.: 51, Issue: 3, May-2022, pp: 2645-2666. [doi: 10.1002/htj.22418](https://doi.org/10.1002/htj.22418), ISSN: 2688-4542.
23. **Ravi Gugulothu** and Narsimhulu Sanke, “Effect of helical baffles and water based Al<sub>2</sub>O<sub>3</sub>, CuO and SiO<sub>2</sub> nanoparticles in the enhancement of thermal performance for shell and tube heat exchanger”, *Journal of Heat Transfer*, Wiley Publisher, Vol.: 51, Issue: 5, 2022; pp: 3768-3793. [doi.org/10.1002/htj.22474](https://doi.org/10.1002/htj.22474), ISSN: 2688-4542.
24. **Ravi Gugulothu**, Narsimhulu Sanke, Naga Sarada Somanchi, Vikas Normalla, Farhana Akter, and B D Y Sunil, “A numerical study of water-based nanofluids in shell and tube heat exchanger”, *Energy Harvesting and Systems*, Walter De Gruyter publishers, 2023. [doi: 10.1515/EHS-2022-0155](https://doi.org/10.1515/EHS-2022-0155), ISSN: 2329-8766.
25. Lalitha Krishna Nitturi, Venkata Kusuma Soumya Kapu, **Ravi Gugulothu**, Aparna Kaleru, Vinay Vuyyuri, and Ahmed Farid, “Augmentation of heat transfer through passive techniques”, *Journal of Heat Transfer*, Wiley Publishers, Vol.: 52, Issue: 6, September 2023, pp: 4422-4449. [doi: 10.1002/htj.22877](https://doi.org/10.1002/htj.22877), ISSN: 2688-4542.

26. **Ravi Gugulothu** and Narsimhulu Sanke, “Experimental investigation of heat transfer characteristics for a shell and tube heat exchanger”, Energy Harvesting and Systems, Walter De Gruyter publishers, 2023, DOI: [10.1515/EHS-2022-0147](https://doi.org/10.1515/EHS-2022-0147).
27. Naga Sarada Somanchi, **Ravi Gugulothu**, and Tejeswar SV, “Experimental Investigations on Heat Transfer Enhancement in a Double Pipe Heat Exchanger Using Hybrid Nanofluids”, Energy Harvesting and Systems, Walter De Gruyter publishers, 2023, doi: [10.1515/EHS-2023-0065](https://doi.org/10.1515/EHS-2023-0065), ISSN: [2329-8766](https://www.issn.org/issn/2329-8766).

## BOOK CHAPTERS

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1. **Ravi Gugulothu**, Narsimhulu Sanke and A.V.S.S.K.S Gupta (2018), “Numerical Study of flow characteristics in shell and tube heat exchangers”, Proceedings of the International Conference Numerical Heat Transfer and Fluid Flow (NHTFF-2018), Organized by Department of Mathematics, NIT Warangal, India, during 19<sup>th</sup> to 21<sup>st</sup> January, 2018. ISBN 978-981-13-1902-0, doi.org/[10.1007/978-981-13-1903-7\\_43](https://doi.org/10.1007/978-981-13-1903-7_43)
  2. **Ravi Gugulothu**, Narsimhulu Sanke, Farid Ahmed and Ratna Kumari (2020), “Numerical Study on Shell and Tube Heat Exchanger with Segmental Baffle”, Proceedings of International Joint Conference on Advances in Computational Intelligence, Daffodil International University, Dhaka, Bangladesh, DOI: [10.1007/978-981-16-0586-4](https://doi.org/10.1007/978-981-16-0586-4), ISBN: 978-981-16-0585-7, ISSN: 2524-7565, e-Book ISBN: 978-981-16-0586-4.
  3. **Ravi Gugulothu**, Narsimhulu Sanke, Farid Ahmed, Naga Sarada Somanchi, and M.T. Naik, “Numerical investigation of baffle spacing in a shell and tube heat exchanger with segmental baffle”, Applied Analysis, Computation and Mathematical Modelling in Engineering, Lecture Notes in Electrical Engineering 897, ISBN 978-981-19-1824-7, pp: 83-98. doi.org/[10.1007/978-981-19-1824-7\\_6](https://doi.org/10.1007/978-981-19-1824-7_6).
  4. **Ravi Gugulothu**, Narsimhulu Sanke, Sahith Nagadesi, and Ratna Kumari Jilugu, “Thermal hydraulic performance of helical baffle shell and tube heat exchanger using RSM Method”, Applied Analysis, Computation and Mathematical Modelling in Engineering, Lecture Notes in Electrical Engineering 897, ISBN 978-981-19-1824-7, pp: 167-187. doi.org/[10.1007/978-981-19-1824-7\\_11](https://doi.org/10.1007/978-981-19-1824-7_11).
  5. Ravi Gugulothu, Narsimhulu Sanke, Abdul Razak, Naga Sarada Somanchi, Farid Ahmed, and Devika Banothu, “[Design of experiments using Surface Response Methodology \(RSM\)](#)”, Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India from 8<sup>th</sup> -10<sup>th</sup> April, 2023.
  6. Narsimhulu Sanke, Naga Sarada Somanchi, Ravi Gugulothu, and Saisree Bandi, “Advances in transfer enhancement techniques for cutting edge cooling systems”, 2<sup>nd</sup> International Conference on Mechanical Engineering: Researches and Evolutionary Challenges-2024 conducted by National Institute of Technology Warangal, Telangana, India from 29<sup>th</sup> to 31<sup>st</sup> May, 2024.
  7. Mohan Bukya, Thummuri Saivishal, Umaphathi Reddy P, Ravi Gugulothu, Gobburi Raghavendra, and Chandra Kumar, “[Advances in transfer enhancement techniques for cutting edge cooling systems](#)”, 2<sup>nd</sup> International Conference on Mechanical Engineering: Researches and Evolutionary Challenges-2024 conducted by National Institute of Technology Warangal, Telangana, India from 29<sup>th</sup> to 31<sup>st</sup> May, 2024. doi.org/[10.1007/978-981-96-7576-0\\_21](https://doi.org/10.1007/978-981-96-7576-0_21).
  8. Narsimhulu Sanke, Naga Sarada Somanchi, Ravi Gugulothu, and Saisree Bandi, “[Advances in transfer enhancement techniques for cutting edge cooling systems](#)”, 2<sup>nd</sup> International Conference on Mechanical Engineering: Researches and Evolutionary Challenges-2024 conducted by National Institute of Technology Warangal, Telangana, India from 29<sup>th</sup> to 31<sup>st</sup> May, 2024. doi.org/[10.1007/978-981-96-7576-0\\_31](https://doi.org/10.1007/978-981-96-7576-0_31)
  9. Tavva Chandra Lekha, Ravi Gugulothu, Tejaswini Malothu, and Achiya Khanam, “Advancements in Biogas Production: Enhancing efficiency through anaerobic Digestion Technologies”, International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies-IEMDST-2024, Department of Physics, National Institute of Technology Warangal, on 4<sup>th</sup> to 5<sup>th</sup> July, 2024. Proceedings of the International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies IEMDST-2024, 04–05 July, NIT Warangal, India. doi.org/[10.1007/978-981-96-5863-3\\_39](https://doi.org/10.1007/978-981-96-5863-3_39).
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## REVIEWED JOURNALS

I am one of the potential reviewers for the following quality journals

S. No.	Name of the Journal	Number of papers
1.	International Journal of Energy Conversion and Management (ECM)	01
2.	Innovative Food Science & Emerging Technologies (IFSET)	01
3.	Energy Reports (EGYR)	01
4.	Journal of Energy Storage (EST)	01
5.	Case Studies in Chemical and Environmental Engineering (CSCEE)	01
6.	Journal of Manufacturing Processes	01
7.	Progress in Engineering Science (PES)	01
8.	Next Energy (NXENER)	01
9.	Nuclear Engineering and Design	01
10.	Petroleum Science	01
11.	Thermal Advances	01
12.	Journal of Engineering Research	01
13.	Biomass Futures	01
14.	International Journal of Thermal Sciences	04
15.	Energy Harvesting and Systems (EHS)	02
16.	International Journal of Energy for a Clean Environment	02
17.	Nuclear Engineering and Technology (NET)	02
18.	Engineering Failure Analysis (EFA)	02
19.	International Journal of Heat and Mass Transfer (HMT)	03
20.	International Journal of Environmental Science and Pollution Research	03
21.	Heliyon (HLY)	03
22.	Alexandria Engineering Journal (AEJ)	03
23.	Annals of Nuclear Energy (ANE)	03
24.	Chemical Engineering Science	03
25.	Next Research (NEXRES)	03
26.	Chinese Journal of Chemical Engineering (CJCHE)	03
27.	Energy Conversion and Management	03
28.	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	04
29.	Results in Engineering (RINENG)	04
30.	Thermal Science and Engineering Process (TSEP)	04
31.	International Journal of Engineering Research in Africa (JERA)	06
32.	Journal of Heat Transfer, Wiley publication (HTJ)	07
33.	Chemical Engineering Science (CES)	08
34.	Applied Thermal Engineering (ATE)	08
35.	Renewable Energy (RENE)	09
36.	Energy and Built Environment (ENBENV)	09
37.	Journal of Thermofluids (IJTF)	09
38.	International Communications in Heat and Mass Transfer (ICHMT)	14
39.	International Journal of Heat and Fluid Flow (HFF)	12
40.	Materials Today Proceeding (MATPR)	13
41.	International Journal of Case Studies in Thermal Engineering (CSITE)	18
42.	Energy (EGY)	66
43.	1 <sup>st</sup> International Conference in Fluid Thermal and Energy Systems (ICFTES-22) organized by NIT Calicut	05
44.	10 <sup>th</sup> International and 50 <sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP-2023) organized by IIT Jodhpur	03

## OBJECTIVE

1. To be a part of a leading organization and work in a challenging position and environment where I will have opportunities to utilize my skills and abilities and nurture them.
2. To grow along with the organization by applying my Engineering knowledge.
3. [orcid.org/0000-0003-1577-4386/](https://orcid.org/0000-0003-1577-4386/) [0000-0003-0728-5523](https://orcid.org/0000-0003-0728-5523/), Web of Science Research ID: AAK-6551-2021