

Name: Mr. Dumpala Bhanuchandra Rao

Employee ID: A5MEC00T46

Designation: Assistant Professor

Department: Mechanical Engineering

Date of Birth: 04-07-1990

Father Name: D Anjeneyulu

Mother Name: D Venkatalakshmi

Reservation Category if Any: BC-A

SC

ST

BC- A/B/C/D/E

OC

Address: Harischandrapuram village/post, Kotabommali mandal, Srikakulam, 532430

Mobile Number: 9492704711

Email id: bhanurch@gmail.com

Date of Joining in the Institution: 15-06-2016

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph.D.(PT)	AU College of Engineering, Visakhapatnam	(2020-Pursuing)	
M. Tech. (Thermal Engineering)	JNTUK	First class with distinction	2013
B. E. (Mech. Eng.)	A.U., Visakhapatnam.	First class with distinction	2011

Total Years of Experience (Teaching/Industry): 07

Period		Organization/Institution	Designation
Jun2016	Till Date	AITAM, Tekkali.	Asst Professor
Jan 2014	May2016	Pydah college of engineering, Visakhapatnam.	Asst Professor

MEMBERSHIP WITH PROFESSIONAL BODIES

- Life member of ISTE chapter from 2019 (M.No. LM 128349)

PROJECTS DONE DURING MY CAREER

➤ **Details of Graduate (B.E) Program:**

Area of Thesis work : Manufacturing Materials

Title of Thesis: “Modeling and Optimization of End Milling process Parameters Using Response Surface Methodology”

➤ **Details of Post Graduate Thesis:**

Area of Thesis work : Computational Fluid Dynamics

Title of Thesis : "CFD Analysis and Performance of Parallel and Counter Flow in Concentric Heat Exchanger"

Mini project: “CFD Simulation of Enhanced Heat Transfer in Concentric Tube with Inner Twisted Tape Insert by Using Nano Fluids”

PROJECTS GUIDED/GUIDING

B.Tech Projects: Guided – 08, Guiding - 01.

M.Tech PROJECTS: Guided – 02, Guiding – 01.

Workshops Attended

- Participated in the international conference on “Futuristic Trends In Materials And Energy Systems (FTME-2011)” at V R SIDDHARTHA engg.college
- Organizer in technical symposium **SAVEME-09** department of engineering chemistry at S. R. K. R Engg College.
- Participated in **SANKALPA-10**, a National level paper presentation and poster presentation Event at S. R. K. R Engg College.
- Attended a National level Workshop on “Recent advancement in Polymer material and Nano Materials for Engineering Applications (RAPNEA-2019)” at NIT Raipur.
- Participated in the Faculty Development Program on “Fault diagnosis, Condition Monitoring and Structural Dynamic Analysis” at AITAM Tekkali.
- Participated in Two Day National Conference on “GREEN and SUSTAINABLE ENERGY- Indian perspective in Global Environment” at AITAM Tekkali.
- Participated in the Faculty Development Program on “Research Potential and Scope in Mechanical Engineering (RPSME-2016)” at AITAM Tekkali.
- Participated in One Day Awareness Workshop on “Intellectual Property Rights (IPR) in E&IT” at AITAM Tekkali.
- Participated in International Conference on “ICMSEA-2017” at Baba institute of Technology and Science, Visakhapatnam.
- Participated in the Faculty Development Program on “IC Engines and Gas turbines” in NPTEL-AICTE Funded by the Ministry of HRD, Govt. of India.
- Worked as a Member of organizing committee for *AME*, a technical event at S.R.K.R College of Engineering, Bhimavaram, India.
- Worked as Team Leader of *Sri Ganesh Sevasamithi* and visited few rural areas and motivated the people for their development as part of national service scheme activities, AP.

Workshops Organized

- Acted as Coordinator for “ICETESTM-18” a 2 day Inter National level Conference.

Industrial Visits

- “Study of Existing Methoding Practices at Undertaken at RINL-Vizag steel plant, Visakhapatnam. Foundry, on design of different casting model components has been studied and documented.
- project based training at Hyderabad VISION DIES AND MOULDING PRODUCTS

Awards & Achievements

- Got Reward and appreciation for obtaining maximum percentage of marks in Master of Technology in V R Siddhartha Engg. College, Vijayawada.
- Won first prize in Cricket Competition conducted by Mechanical Engineering Association, S.R.K.R College of Engineering, Bhimavaram, India.

Journals & Publications

- “SIMULATION OF AIR FLOW AROUND CEILING FAN IN AN ENCLOSED SPACE BY USING CFD” Published on **International Journal of Scientific & Technology Research**, Volume-9, Issue-06 June 2020. Journal impact factor: 4.295.
- “CFD Analysis and Performance of Parallel and Counter Flow in Concentric Heat Exchanger” Published on **International Journal Of Engineering Research And Technology (IJERT)**, Volume-2, Issue-11 Nov 2013. Journal impact factor: 1.7078 calculated by GISI.
- “CFD Simulation of Heanched Heat Transfer in Concentric Tube with Inner Twisted Tape Insert by Using Nano Fluids” Published on **International Journal Of Engineering Research And Technology (IJERT)**, Volume-2, and Issue-11 Nov 2013. Journal impact factor: 1.7078 calculated by GISI.
- “CFD Analysis and enhancement of heat transfer in compact shell and tube Heat Exchanger by using camphor water” Published on **International Journal of Research in Engineering and Technology (IJRET)**. Volume-6, Issue-8 of August 2017.
- “Production and characterization of Aluminium-Titanium Di Boride composite using powder metallurgy technique” Published on **International Journal of Engineering and Management Research (IJEMR)**. Volume-7, Issue-3 of May-Jun 2017.
- “Surface Modification of AA6063 with A1023 Nano Reinforcement by Using Friction Stir” Published on **International Journal for Research & Development in technology (IJRDT)**. Volume-13, Issue-2 of May-Jun 2018.
- “Numerical and experimental Analysis of Thermal Performance in a Parallel Flow Double pipe Heat Exchanger” Published on **International Journal of Engineering, science and Mathematics (IJESM)**. Volume-8, Issue-8 of Dec-2017.

Go-Cart Design and Part Modeling

- Acted as Coordinator for Go-Cart Design “Sieger Pro Karting Championship-2K18” a Go-Cart Racing Conducted at Kakinada.
- Acted as Coordinator for Go-Cart Design “Imagine to Innovating Championship-2K19” a Go-Cart Racing Conducted at RIT Visakhapatnam.
- Acted as Coordinator for Electric E-Bike Design “Imagine to Innovating Championship-2K19” an E-Bike Racing Conducted at AITAM Tekkali Srikakulam.

Areas of Research Interests

- Computational Fluid Dynamics
- Heat transfer
- Fluid Mechanics
- Strength of materials
- Design based projects
- CFD based projects

Areas of Interest:

1. Thermodynamics
2. Heat Transfer
3. Thermal Engineering
4. Computational fluid dynamics
5. Operation research

Technical Skills:

- Mechanical Engineering Software's: ANSYS-FLUENT (CFD).
: CATIA.
: Working knowledge of AutoCAD.

NPTEL Courses

- Participated in the NPTEL Online Certification Course on “IC Engines and Gas turbines” in NPTEL-AICTE Funded by the Ministry of HRD, Govt. of India.
- Participated in the NPTEL Online Certification Course on “Engineering Mechanics: Statics and dynamics” in NPTEL-AICTE Funded by the Ministry of HRD, Govt. of India.
- Participated in the NPTEL Online Certification Course on “Engineering Thermodynamics” in NPTEL-AICTE Funded by the Ministry of HRD, Govt. of India.



Place: **Tekkali**

(D Bhanuchandra Rao)