Faculty Profile

Brief Profile (Few Paragraphs)

Dr. Chandra Kumar R is an accomplished academic and researcher serving as an Assistant Professor in the Department of Mechanical Engineering at RV College of Engineering, Bengaluru. With over 19 years of teaching and research experience, he has consistently contributed to both undergraduate and postgraduate education, specializing in areas that bridge traditional mechanical engineering with contemporary technological trends.

He earned his Ph.D. in Mechanical Engineering from JNTU Anantapur in 2019 (synthesis *of biofuels and performance evaluation of DI diesel engines).* His research reflects a strong foundation in **renewable energy**, which remains his core area of expertise. Dr. Chandra Kumar's allied interests include **Industry 4.0 technologies**, making him a versatile academic who integrates sustainability with smart manufacturing practices.

He has guided numerous student research projects and has a solid publication record in reputed journals such as *Materials Today Energy* and *Surfaces and Interfaces*. his guidance has led student teams to publish innovative work on smart systems and AI applications, including sensor-integrated helmets and AI-based waste detection systems.

Dr. Chandra Kumar has also played a pivotal role in applied research, co-investigating an AICTE-funded project on the development of a twin-screw oil expeller for biofuel synthesis. Recognized for his mentorship, one of his student projects was awarded the "Outstanding Project" by KSCST in 2012-13.

Beyond academics, he actively contributes to institutional responsibilities, serving as the UG Internship Coordinator and lab in-charge for the Internal Combustion Engines Lab. His professional affiliations include ISTE, and he currently holds an external academic role as a Board of Examiners (BoE) member at Jain University.

Personal Information

- **Name:** Chandra Kumar R
- **Designation:** Assistant Professor
- **Department:** Mechanical Engineering
- **Email:** chandrakumarr@rvce.edu.in
- **Phone:** [Office Phone]

Google Scholar https://scholar.google.com/citations?user=y2eb-SAAAAAJ&hl=en

ResearchGate https://www.researchgate.net/profile/Chandra-Kumar-3?ev=prf_overview

LinkedIn: https://www.linkedin.com/in/chandra-kumar-a780b654/

ORCID: https://orcid.org/0000-0003-2877-2144

Domain of Expertise

Research Focus

- **Primary Area:** Renewable Energy
- **Allied Areas:**
  - Industry 4.0

Academic Qualifications

- **Ph.D.**: Mechanical Engineering, JNTUA, 2019, Synthesis of Biofuels and Evaluation of DI Diesel Engine Performance Parameters
- **M.Tech**: Product Design and Manufacturing, VTU, 2004
- **B.E.**: Mechanical Engineering, Bangalore University, 1999

Professional Experience

Experience

Sl. No.	Institute/College/Industry	Job Title	Duration (From- To)
1.	RV College of Engineering	Assistant Professor	01-03-2010 to Till date
2.	Sir MVIT	Lecturer	01-03-2007 to 28-02-2010

Publications & Patents

Journal Publications

1. C. Manjunatha, N. Srinivasa, S.K. Chaitra, M. Sudeep, R. Chandra Kumar, “Controlled synthesis of nickel sulfide polymorphs: studies on the effect of morphology and crystal structure on OER performance," *Materials Today Energy*, 2020.
2. C. Manjunatha, Rahul S Patil, M. Sudeep, N. Srinivasa, R. Chandra Kumar, "Rational design and synthesis of hetero-nanostructured electrospun PU@ PANI@ FeS2: A surface tailored hybrid catalyst for H2 production via electrochemical splitting of water," *Surfaces and Interfaces*, 2020.

Conference Papers

1. R. Chandra Kumar, M.M. Benal, " Microwave assisted extraction of oil from pongamia pinnata seeds," *Materials Today: Proceedings*, 2018

2. Sudeep M, Yash N Athreya, Suryajeet Patil Nikam, Chandrakumar R, Ajit Khosla and Manjunatha C, “Current developments in CuS based hybrid nanocomposite for electrochemical biosensor application: a short review," *ECS Transactions*, 2022.
3. Chinmai S Shivaru, Deeksha Bharath, Chandra Kumar “A Smart Two–Wheeler Helmet with Sensors”, *ECS Transactions*, 2022.
4. Ishan Shekhar Prasad, Medha Sanketh, Chandra Kumar, "AI on the Edge: A Novel Approach to Detect Waste on Water Bodies”, *IEEE Xplore*, 2024.
5. Kiran S Sarjakar, M R Archana, Anjaneyappa, Chandra Kumar, “Influence of Road Pavement Roughness on Carbon Emissions of Vehicular Traffic Travelling at Varying Speeds”, *IEEE Xplore*, 2024.

R & D Grants & Consultancy Projects

Ongoing & Completed Research Projects

- **Design and Development of a Twin Screw Oil Expeller for Synthesis of Bio-Fuels**– AICTE: RPS, Duration: 2014-17, Role: Co-PI.

Professional Memberships

- ISTE

Awards & Recognitions

A Student project titled “New concept Development and redesign of oil expeller for pongamia seeds” under my guidance was awarded as an” Outstanding Project “by KSCST, 2012-13

- **Ph.D. Candidates:** [1 pursuing)
- **M.Tech/M.Sc. Students:** [25]
- **Undergraduate Research Mentees:** [50]

Professional Roles

Teaching

Core Courses: [Current semester]

- ME124BTS Elements of Industry 4.0

Advanced/Lab Courses:

Professional Roles

Responsibilities

- **Academic:** UG Internship Co-ordinator
- **Administrative:** Lab in-charge, IC Engines Lab

External Connect

- BoE Member, Jain University