Faculty Profile

Name: **Dr. CHANDRA SHEKHAR A**
Designation: **Associate Professor & Associate Dean-IQAC**
Teaching areas: Robotics, Mechatronics, Autonomous Vehicles, MEMS, NEMS, UAV
Research interests: Robotics, Mechatronics, Machine learning, AI,IOT, Mechatronics and Nanotechnology..

Education:

- PhD – Mechanical Engineering from JNTU Hyderabad (2018)
- MBA Operations Mgmt. from Sikkim Manipal University (2011)
- M.Tech. Industrial Engg & Management from JNTUH(2006)
- B.Tech. Mechanical Engineering from JNTU Hyderabad (2004).

Research Publications (Selected): Total:46

1. Chandrashekhar, UrvinDesai, P. Abhilash, "PATH PLANNING OF A SERIES ROBOTS USING A* ALGORITHM, EAI/Springer Innovations in Communication and Computing, ISBN 978-3-030-49794-1.
2. A.Chandra Shekhar, S.Shahab, S.HimamSaheb, "Analysis of Geneva mechanism using Dwell Symmetrical Coupler Curve Mechanism" Materials Today: Proceedings, 2020, Scopus/ Google Scholar

Research/ Selected Conferences Attended: Total – 43

1. A. Chandrashekhar, D. Sugumar, B. Subramanian and N. Basker, "Challenges and Application of 3D Printing in Radiation Oncology," 2023 International Conference on Disruptive Technologies (ICDT), Department of CSE, GL Bajaj Institute of Technology and Management, Greater Noida, India.
2. A. Chandrashekhar, AI Driven Test and Measurement Automation in Electronics Manufacturing, 9th INTERNATIONAL CONFERENCE On Science, Technology, Engineering and Mathematics on 4th & 5th April, 2024, Organised by Jeppiaar Engineering College , Chennai-600119, TamilNadu,India.

Selected Text Books: Total : 2

1. Metaverse and Immersive Technologies: An Introduction to Industrial, Business and Social Applications - Chandrashekhar A, Shaik Himam Saheb, Sandeep Kumar Panda, S. Balamurugan , Sheng-Lung Peng , ISBN: 978-1-394-17715-8 , John Wiley & Sons, Inc

Research/ Selected Chapters: Total – 10

1. W. Vinu, Sonali Vyas, A. Chandrashekhar, T. Ch. Anil Kumar, T. Raghu, Mohit Tiwari, Developing Robot-Based Neuro rehabilitation Exercises Using a Teaching–Training Process, 2024, Chapter-5, Wiley.
2. A Chandrashekhar, R Raffik, R Sridevi, M Sindhu, Kodela Rajkumar, Tarun Jaiswal, 3D- Printed Human Organ Designs with Tissue Physical Characteristics and Embedded Sensors, Human Cancer Diagnosis and Detection Using Exascale Computing, Volume 135, John Wiley Sons.

Selected Patents: (Granted – 6, Published - 6) Total – 12

Granted

1. 202023100403 - Dr.A.ChandraShekhar, GNO.IPC B25J 9/16 - IoT Enabled Device for Controlling Robot and its Learning, International: Published Issue 12.12.2022, Granted 09-02-2023. International.

Published:

1. 202041026841-Emergency Notification Systems for the use with footwear for user's safety, Published Issue 10/7/2020.

Faculty Advisor: SAE Baja 2014 ,EFFI – CYCLE 2014,SAE Baja 2015 ,SUPRA SAEINDIA student FORMILA 2015

Memberships in Societies: IIIE, ROBOTICS SOCIETY OF INDIA, Member of the International Association of Engineers, Hong Kong, ISTE, IEEE etc