



**FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
FACULTY ACHIEVEMENTS DETAILS**

S.No	Year	Achievement Details
1.	2023-24	Dr. Pankaj Jadhav Awarded as a “Kalikasnehishikshakarpuraskar” by sujay education and welfare society Kalaburagi
2.	2023-24	Dr. Pankaj Jadhav Funded project under NAIN Project. Project: Oxyscore Amount Funded: 162500
3.	2023-24	Dr. Akash Funded project under NAIN Project. Project: Smart tracker for solar energy optimization Amount Funded: 225000
4.	2022-2023	Dr. Akash Patent title: Deep learning based rapid post earthquake damage detection of RL resistant movement frame buildings (2023). Published on: 01/09/2023
5.	2023-2024	Dr. Akash received a seed money (Rs. 2 Lakhs) for the Development of wear resistant NANO thermal spray coating for turbine or marine application.
6.	2023-2024	Dr. Akash has guided two research scholars in Sharnbasva University
7.	2023-2024	Dr. Pankaj Jadhav Patent title: Deep learning based rapid post earthquake damage detection of RL resistant movement frame buildings (2023). Published on: 01/09/2023
8.	2023-2024	Dr. Pankaj Jadhav received a seed money (Rs. 2 Lakhs) for the Development and analysis of advanced materials by 3D printing/Additive Manufacturing.
9.	2022-23	Dr. Pankaj Jadhav Patent title: Development of TI-C particulate reinforced AL-2219 composites. Published on: 15/12/2023
10.	2019-20	Dr. Pankaj Jadhav Patent title: A novel design of hydraulic jack using android by Bluetooth connections Published on: 06/03/2020



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11.	2022-2023	DrSanjeevReddy.K.Hudgikar(PUBLISHED AND GRANTED) PATENTTITLE:“AI BASED MECHANICAL AORTIC HEART VALVE” PUBLISHEDON:21/01/2025
12.	2023-2024	DrSanjeevReddy.K.Hudgikar PATENTTITLE(PUBLISHED AND GRANTED):“IOT BASED SMART ROBOT FOR AIR CONDITIONER DUCT CLEANING” PUBLISHEDON:23/12/2025
13.	2023-2024	DrSanjeevReddy.K.Hudgikar PATENTTITLE(PUBLISHED AND GRANTED):“IOT BASED ELECTRIC VEHICLE ENERGY CONSUMPTION PREDICTING DEVICE” PUBLISHEDON:27/07/2024
14.	2022-2023	DrSanjeevReddy.K.Hudgikar PATENTTITLE(PUBLISHED AND GRANTED):“IOT BASED SOLAR POWER AGRICULTURE ROBOT” PUBLISHEDON:27/07/2024
15.	2022-2023	DrSanjeevReddy.K.Hudgikar PATENTTITLE(PUBLISHED AND GRANTED):“SMART CRANE GIRDER WELDING SYSTEM” PUBLISHEDON:17/06/2022
16.	2022-2023	DrSanjeevReddy.K.Hudgikar PatentTitle:"EFFECT OF FIN GEOMETRY ON ENGINE CYLINDER FINS". Published on: 24/01/2020
17.	2022-2023	DrSanjeevReddy.K.Hudgikar PatentTitle: "PERFORMANCE EVALUATION OF CRITICAL HERT FLUX BY USING THE SURFACTANTS" Published on: 31/01/2020
18.	2022-2023	DrSanjeevReddy.K.Hudgikar PatentTitle:"DESIGN AND MANUFACTURING OF AUTOMATED STAIRCASE CLIMBING WHEELCHAIR PROTOTYPE BY USING BELT DRIVE" Published on: 31/01/2020
19.	2021-2022	DrSanjeevReddy.K.Hudgikar PatentTitle: “SMART GRID INTEGRATION: RENEWABLE BASED MICRO HYBRID POWER SYSTEM” Published on: 15/11/2019

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FACULTY ACHIEVEMENTS DETAILS

20.	2021-2022	DrSanjeevReddy.K.Hudgikar Patent Title: “MECHANICAL FACTORS INFLUENCING SUCCESS IN ROOT CANAL OBTURATION” Published on: 15/11/2019
21	2021-2022	DrSanjeevReddy.K.Hudgikar Patent Title: “CFD ANALYSIS OF ERYTHRITOL MELTING PROCESS IN A CLOSED CYLINDRICAL CONTAINER” Published on: 15/11/2019
22	2022-23	DrSanjeevReddy.K.Hudgikar Patent Title: “HYBRID AUTOMODE TWO WHEELER”. Published on: 09/05/2022
23	2023-24	DrSanjeevReddy.K.Hudgikar Authored a book title “MECHATRONICS SYSTEM DESIGN” First Edition Published by Adam’s Book Company Solapur, ISBN:978-81-973300-5-6, Volume 1, November 2024.
24	2023-24	DrSanjeevReddy.K.Hudgikar Authored a book title “ARTIFICIAL INTELLIGENCE IN MANUFACTURING” First Edition Published by Lulu Publication 3101 Hillsborough St Raleigh, NC 27607, United States, ISBN:978-1-304-60689-1, Volume 1, March 2024
25	2023-24	DrSanjeevReddy.K.Hudgikar Authored a book title “DESIGN OF MACHINE ELEMENTS” First Edition, Published by Kripa Drishti Publications Pune, ISBN:978-93-94570-43-06, Volume 1, May 23 2023.
26	2021-22	DrSanjeevReddy.K.Hudgikar Authored a book title “INDUSTRIAL ENGINEERING AND PRODUCTION MANAGEMENT” First Edition, Published by Kindle direct Publishing 410 Terry Ave N Seattle Washington, United States 98109, ISBN:979-8-4400-9743-8, Volume 1, January 14 2022.
27	2021-22	DrSanjeevReddy.K.Hudgikar Authored a book title “ DIGITAL TRANSFORMATION INDUSTRY 4.0 ” First Edition Published by Lulu Publication 3101 Hillsborough St Raleigh, NC 27607, United States, ISBN:978-1-4583-2000-1, Volume 1, May 11 2022.
28	2023-24	DrSanjeevReddy.K.Hudgikar Recognition of the International Publications of the Edited Book Chapter Titled: MEASUREMENT AND SCALING TECHNIQUES In the book titled “ RESEARCH METHODOLOGY ” ISBN:978-81-973300-7-0, Published in Adam’s Book Company Publication Solapur Maharashtra, October 2024.
29	2023-24	DrSanjeevReddy.K.Hudgikar

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DEPARTMENT OF MECHANICAL ENGINEERING
FACULTY ACHIEVEMENTS DETAILS

		Recognition of the International Publications of the Edited Book Chapter Titled: BASIC CONCEPTS IN RESEARCH DESIGN In the book " <i>RESEARCH DESIGN</i> " ISBN:978-81-19149-41-4, Published in KripaDrishti Publication (KDP) Pune Maharashtra, February 2024.
30	2020-21	DrSanjeevReddy.K.Hudgikar Recognition of the International Publications of the Edited Book Chapter Titled: IMPACT OF NANO TECHNOLOGIES IN MODERN ENGINEERIN In the book " <i>ENGINEERING INNOVATIONS</i> " ISBN:978-93-90847-07-5, Published in KripaDrishti Publication (KDP) Pune Maharashtra, February 2021. https://books.kdpublications.in/index.php/kdp/catalog/view/53/49/635-1
31	2022-23	DrSanjeevReddy.K.Hudgikar Recognition of the International Publications of the Edited Book Chapter Titled: MECHANICAL PROPERTIES OF MATERIALS In the book "ADVANCED MATERIALS AND APPLICATIONS" ISBN:978-93-94570-41-2, Published in KripaDrishti Publication (KDP) Pune Maharashtra, January 2023. https://books.kdpublications.in/index.php/kdp/catalog/book/243
32	2022-23	DrSanjeevReddy.K.Hudgikar Recognition of the International Publications of the Edited Book Chapter Titled: TYPES OF SAMPLING IN RESEARCH METHODOLOGY In the book "INTRODUCTION TO METHODS OF DATA COLLECTION" ISBN:978-93-90847-71-6, Published in KripaDrishti Publication (KDP) Pune Maharashtra, May 2023. https://books.kdpublications.in/index.php/kdp/catalog/book/268
33	2020-21	DrSanjeevReddy.K.Hudgikar Authored a book title "DECISION MAKING IN RISK MANAGEMENT" First Edition, KripaDrishti Publications Pune, ISBN:978-93-94570-30-0, Volume 1, November 08 2021.
34		DrSanjeevReddy.K.Hudgikar has guided ten research scholars in VTU.
35		DrSanjeevReddy.K.Hudgikar has Awarded four research scholars in VTU.
37		DrSanjeevReddy.K.Hudgikar Recognized by the JNT University, Ananthapur as As a Ratified Principal.
39		DrSanjeevReddy.K.Hudgikar has been appointed as BOE chairman and BOS member in SUK.
40		DrSanjeevReddy.K.Hudgikar has been appointed as doctoral committee member for Phd VTU Belegavi.
41		DrSanjeevReddy.K.Hudgikar has been appointed as BOS Navodaya engineering college Raichur.



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42		DrSanjeevReddy.K.Hudgikar has been appointed as BOS government engineering college Raichur.
43		DrSanjeevReddy.K.Hudgikar Member of research review committee at SUK and VTU.
44	2021-2022	Prof. Sushilkumar B Best teacher award in Sharnbasva University in the year 2022.
45	2022-2023	Prof. Lingaraj Kale Patent title: Forecasting EV charging station preference through shape based learning method (2023). Organized by Sharnbasva University, Kalaburagi
46	2024-2025	DrSanjeevReddy.K.Hudgikar worked as a principle in PVKK, IT Ananthapur and LAEC Bidar for 10 years
47	2019-2020	DrSanjeevReddy.K.Hudgikar Awarded “ BEST PRINCIPAL AWARD 2020”, INSc (Institute of Scholars) in Recognition of Valuable Contribution to the Academic Community & the Students INSc Bangalore 2019-2020.
48	2020-2021	DrSanjeevReddy.K.Hudgikar Awarded “INNOVATIVE RESEARCH & DEDICATED BEST PRINCIPAL AWARD” Specialization: Mechanical Engineering by The Society of Innovative Educationalist & Scientific Research Professional Chennai, 2020-2021.