

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

1. Academic/Administrative Responsibilities within the University

S.No.	Position	Faculty/Department/ Centre/Institution	From	To
1.	Time Table Co-ordinator	Department of Mechanical Engineering	Jan 2022	Till Date
2.	Faculty In-charge for No Dues To B.Tech. (Mechanical Engg.) & M.Tech. (TPE & ISE) Students	Department of Mechanical Engineering	Aug 2020	Till Date
3.	Member of Anti-Ragging Committee	Institute Level	Nov 2022	Till Date
4.	Member of Safety Audit Committee	Institute Level	Nov 2022	Till Date
5.	Member of MOOCs Committee	Institute Level	Feb 2023	Till Date
6.	Member of B.Tech (Mechanical Engg.) Project Committee	Department of Mechanical Engineering	Aug 2022	July 2023
7.	Class Committee Chairman for First Year of M.Tech (TPE)	Department of Mechanical Engineering	Aug 2021	July 2022
8.	Member of B.Tech (Mechanical Engg.) Project Committee	Department of Mechanical Engineering	Aug 2020	July 2021
9.	Member of Data Collection Committee	Department of Mechanical Engineering	April 2021	Till Date
10.	Member of Implementation of NEP 2020 for UG Program	Department of Mechanical Engineering	Aug 2020	Till Date
11.	Faculty Advisor for B.Tech (Mechanical Engg.) 2020-24 Batch Students	Department of Mechanical Engineering	July 2021	Till Date
12.	Member of NBA Committee	Department of Mechanical Engineering	Nov 2021	Till Date
13.	Member of PMRF Candidates Screening Committee	Department of Mechanical Engineering	July 2022	Till Date
14.	Member of Anti-Ragging Committee	Institute Level	Feb 2021	March 2022

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2. Details of Academic Work

(i) Curriculum Development

- Mechanical Vibrations and Acoustics
- Smart Materials and Structures

(ii) Courses Taught at Undergraduate and Postgraduate Levels

Undergraduate level

- Strength of Materials
- MEMS Devices – Design and Fabrication
- Mechanics of Machines - II
- Dynamics of Machinery
- Composite Materials
- Industrial Robotics

Postgraduate level

- Safety in Engineering Industry

3. Number of PhDs Guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Guide/Co-guide)	Year of Award
Pankaj Chaupal	Structural Health Monitoring (SHM) of Composite Beam and Plates using Machine Learning Approach & Shearlet Transform Technique	Guide	Ongoing
E. Ashok	Noise, Vibration and Harshness (NVH) analysis of Automobile Systems	Guide	Ongoing

4. Projects Guided at Postgraduate Level

S.No.	Name	Roll No.	Topic	Session
1.	Bhaskar Meesala	211321013	Vibro-acoustic Behaviour of Glass Fibre Reinforced Polymer Curved Plate under Non-Uniform Thermal Condition	July-Dec 2022

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2.	Tandel Mihir Harichandra	211221024	Mechanical Testing of Composite Repair Aluminium with CFRG patch	July-Dec 2022
3.	Sumith Kumar Reddy Vanipenta	211221021	Identification of High-Risk Operations and Hazardous Areas of a Cement Plant and review their HIRA and SOP	July-Dec 2022
4.	Vivek Kauraw	211220027	Human Body Vibration Analysis In Sitting Posture For Automobile Application	Jan-May 2022
5.	Aniket Padale	211220018	Detection Of Crack Orientation in a Plate using Shearlet Transform	Jan-May 2022
6.	Vivek Kauraw	211220027	Dynamic Failure Analysis of Valve Train Mechanism	July-Dec 2021
7.	Aniket Padale	211220018	Damage Identification in GFRP Plate using Wavelet Packet Transform	July-Dec 2021
8.	P.K. Bharadwaj	211219017	Finite Element Analysis of Human body in Semi-Supine Posture subjected to Whole Body Vibration	Jan-May 2021
9.	P.K. Bharadwaj	211219017	Modal Analysis of Human Body Vibration Model for Indian Subjects under Semi-Supine posture	July-Dec 2020
10.	Kshirsagar Rohit Vitthal	211219012	Condition Monitoring of Turbine Blades	July-Dec 2020 & Jan-May 2021

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5. Projects Guided at Undergraduate Level

S.No.	Name	Roll No.	Topic	Session
1.	Saket Raj Dheeraj Kumar Jha Sandeep Bajja	111119103 111119025 111119107	Nonlinear vibration response of graded nanobeam	Jan-May 2023
2.	Abhinav Vijayakumar Paulo Sijin Yash Khatri	111119004 111119085 111119140	Repair of composite beam using composite patch / aluminum patc	Jan-May 2023
3.	M K Jaiganesh S Rohit Tejus R	111118068 111118103 111118114	Design and Control of an Unmanned Surface Vehicle for Ocean Plastic Cleanup	Jan-May 2022
4.	Kevin Mathew Thomas Kulkarni Atharva Kumar	111118049 111118053	Characterization and modelling for development of indigenous wire arc additive manufacturing process	Jan-May 2022
5.	Jaypal Singh R Swagata Das Syed Kamran Abbas	111117043 111117091 111117092	Dynamic Analysis of Disc Brake Squeal using Finite Element Method	Jan-May 2021
6.	Ashwin Sankar	111117018	Study of Downsizing and Design of Split-Crankshaft Engine	Jan-May 2021

6. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Vibro-acoustic Characteristics and Acoustic Emission based Structural Health Monitoring of Cylindrical GFRP Panels at Elevated Temperatures	SEED Grant from NIT Tiruchirappalli	15/04/2021	14/04/2023	Ongoing

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7. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
22 nd July – 11 th Aug 2012	5 th Asia Pacific Summer School (APSS) on Smart Structures	International	Participant	Indian Institute of Science (IISc), Bengaluru, India	Indian Institute of Science (IISc)

8. Invited Talks delivered

Topic	Date	Inviting Organization
Biodynamics of Human Body for Space Application	20-05-2022	Bannari Amman Institute of Technology, Erode, Tamil Nadu.
ME8692 – Finite Element Analysis	28-04-2022	MRK Institute of Technology Engineering & Technology, Cuddalore, Tamil Nadu.
Condition Monitoring of Rotating Machines	26-10-2021	Department of Mechanical Engineering, Mahendra Institute of Engineering & Technology, Namakkal, Tamil Nadu.
Evolution and Future Scope of Mechanical Science – EFMS'21	16-04-2021	Department of Mechanical Engineering, Bannari Amman Institute of Technology, Erode, Tamil Nadu.
Wavelet-based Methods for Composite Structures	29-01-2021	Department of Civil Engineering, IEST, Shibpur, West Bengal.
Conditional Monitoring of Turbine Blades	08-09-2020	Kongu Engineering College, Erode, Tamil Nadu.
Conditional Monitoring of Modern Machine Tools - A Journey Towards Industry 4.0.	02-02-2019	Sree Vidyanikethan Engineering College (Autonomous), Tirupati. Andhra Pradesh.
Damage identification in a bladed disk using wavelet packet transform	10-12-2018	SASTRA Deemed University, Thanjavur, Tamil Nadu.
Damage identification in a bladed disk using wavelet packet transform	27-11-2018	TAMUQ, Doha, Qatar.

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9. Membership of Professional Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with Date
Life Member	Institute of Smart Structures and Systems (ISSS)	LM-379
Life Member	in Indian Society of Theoretical and Applied Mechanics (ISTAM)	L/2000

10. Academic Foreign Visits

Country	Duration of Visit	Programme
Doha, Qatar	3 Days	Qatar-UK Workshop
Swansea, UK	1 Week	Research Work
Jeonbuk, South Korea	5 Days	Advances in Structural Health Management and Composite Structures (ASHMCS 2014)
New York, USA	1 Week	First International Conference on Mechanics of Composites (MECHCOMP 2014)