Faculty Profile:

Name: Dr.Laxmi.B.Wali

Designation: Assistant Professor

Experience: - Total 15 years of Teaching as on Aug 3 2026

1. RNSIT - (Feb 2014-till date)
2. PESIT - (July 2012-Dec 2013)
3. SJMIT - (Aug 2011- June 2012)

Qualification:

1. AICTE PG Certificate Course from IIIT Dharwad
2. Ph. D - (VTU)
3. M. Tech - Machine Design (BIET)
4. B. E - Industrial and Production Engineering (SJMIT)

Awards Received

VTU 5th Rank Holder

Specializations (Academic): Design Stream and management

SUBJECTS HANDLED			
1	Elements of Mechanical Engineering	**9**	Operation Research
2	Engineering Mechanics	**10**	Operations Management
3	Introduction to Mechanical Engineering	**11**	Mechanics of Composite Materials
4	Mechanics of Materials	**12**	Work Study and Ergonomics
5	Kinematics of Machines	**13**	Facility Planning and Design
6	Dynamics of Machines	**14**	Computer Aided Engineering Drawing
7	Design of Machine Elements	**15**	Product Design and Manufacturing
8	Theory of Machines	**16**	Project Management

Specializations (Research):

Design Stream, Vibration, FEM, Energy Harvesting, Smart materials, Low velocity Impact Analysis, Abrasive Jet Machining, Computation with MATLAB, Optimization.

Publications:

PUBLICATIONS	
1	**Laxmi.B.Wali**, Dr. Chandrashekara C V, " A Review of Vibration Energy Harvesting using Piezoelectric Materials " 2018, International Journal of Research in Electronics and Computer Engineering (IJRECE), VOL. 6 ISSUE 3, 439-445 ISSN: 2348-2281 (ONLINE)
2	**Laxmi.B.Wali**, Dr. Chandrashekara C V, " Finite Element Modelling of Cantilever Beam Bounded with Piezoelectric patch Subjected to Vibration for Energy Harvesting " 2021,International Research Journal of Engineering and Technology (IRJET) , Volume: 08 Issue: 10 ,392-400, e-ISSN: 2395-0056, p-ISSN: 2395-0072
3	**Laxmi.B.Wali**, Dr. Chandrashekara C V, " Modelling and Optimization of Orientated Beam with Tip Mass for Vibration Energy Harvesting using Piezoelectric Patches ", 2022, Journal of Mines, Metals and Fuels, Volume 70,Issue 10A 2022. 374-379
4	**Laxmi.B.Wali**, Dr. Chandrashekara C V, "A Study of effect of tip mass density, orientation and resistance on vibration energy harvester", Computer Integrated manufacturing systems, Vol.29 No.2 2023. 98-108
5	**Laxmi.B.Wali**,Dr.T.K.Chandrashekar," A Study on PZT-5A and PZT-5H bounded on the orientated cantilever beam with tip mass for vibration energy harvesting ", European Chemical Bulletin,Vol.12,Issue-9 ,1714-1725,
6	Bommanna .K, **Laxmi.B.Wali** et.al, "Nanostructured Insights: Exploring Structural Properties and Characterization Challenges in Clay-Based Hybrid Nanocomposites" Journal of propulsion technology" Vol.12,No.3,

CONFERENCE	
1	Sampath kumar,Laxmi.B.Wali,et.al,"Strength Analysis of precipitation -synthesized calcite-zincite composite nanoparticles"-ICASTM-25,First International conference on Advanced materials and Sustainable technologies- **NITTE, Blore**
2	Laxmi.B.Wali, Dr. Chandrashekara C V, " Modelling and Optimization of Orientated Beam with Tip Mass for Vibration Energy Harvesting using Piezoelectric Patches "-SMARTME-2022,6th International conference on Sustainable materials and recent trends in mechanical engineering,8th,9th July 2022-**REVA University,B'lore**
3	Laxmi.B.Wali, Dr. Chandrashekara C V, "Finite Element Modelling of Cantilever Beam Bounded with Piezoelectric patch Subjected to Vibration for Energy Harvesting"-ICETSEM-2021-15th 16th July 2021-2nd International conference on emerging trends in Science,Engineering and Mangement-**GMIT Davangere**

BOOK CHAPTER	
1.	**Revolutionizing Sustainability in engineering: The Transformative role of Al and ML in material development ,manufacturing and environmental management, Futuristic Research Trends , Volume 2, Year 2025, Pages 99, DOI:978-93-7020-647-2**

PATENTS	
1.	Patent No.410038 - Hygienic garbage bin
2.	Patent Design number: 6507147- Apparatus for additive manufacturing of composite materials

NPTEL			
SL.No	Duration	Course	Status
1	12-Weeks	German-1	Successfully Completed

Coursera	
Sl.No	Course
1	Google Al Fundamentas

COORDINATOR	
1	**IQAC Coordinator-2026**
2	**IA Coordinator-2026**
3	**DAB Coordinator-2026**
4	**PAC Coordinator-2026**
5	**Result Analysis Coordinator-2025-26**
6	**Medal of Merit Coordinator-2025-26**
7	**BAJA SAE INDIA**
8	**NBA** Criteria **-7/8** Department Coordinator
9	**College Magazine Coordinator-2024**

10	**NAAC** Criteria **-4** Department Coordinator
11	**Module Coordinator** for the subject **Introduction to Mechanical Engineering and Mechanics of Materials, Kinematics of Machines, Operation research etc** **LAB Incharge MATLAB, Design Lab,Modelling and Analysis Lab etc**
12	**Centralized Internal Assessment Coordinator -2024**
13	**Department Internal Assessment Coordinator-2021 to present**
14	**Seminar Coordinator-2024-25**
15	**Project Coordinator-2017**
16	**Class Teacher, Mentor**
17	Coordinated for **AICTE Activity Events** , **Global Alumini Meet Maha Sangama 2023, Webinars**, **Alumini Talk, Faculty Development Programs,Graduation Day**

Talk/Workshop Organized	
1	**Simulink Game Day**-In Association with MATHWORKS
2	BAJA SAEINDIA Club Introductory Session on 29th April 2026 **–SIT College Faculty and Students team**
3	Knowledge Talk on Coolathon,Heat Load Calculation on 23rd April 2026-**Mr.Mukundan M S**-Director at M S Enterprises.
4	Expert Talk-Awareness about Linkedin Platform for Engineers-26th March 2026-**Adv.Kiran Bettadapur**
5	Talk on **Supply chain Management** on 13th Jan 2023 **-Mr.Praveen Deshpande –** Head SCM and **Mr Bharat Thirtha** – supply chain specialist, MOOG Motion Controls pvt. Ltd
6	Talk on **Opportunities through competitive exams(GATE/IES…) for B.E/B.Tech Graduates** on 29th Aug 2020-Mr. Prajwal R (Gold Medalist RNSIT)

Sl.No	**INDUSTRIAL VISIT**
1	Organized Industrial Visit to **Hindustan Coco Cola Beverages Ltd ,Bidadi,Bengaluru on Nov 4th 2025**
2	IMTEX Forming-2025,BIEC

3	Monitored **5 group of students Project at NASH Industries(Peenya industries)** by weekly Visit along **with Former HoD T.Sreenivasan Sir-2018**

WORKSHOP/FDP/CONFERENCE/WEBINAR ATTENDED	
1	**5-Day Workshop on** "Sustainable Development Goals :Strategies for sustainable development" organized by the Department of Civil Engineering, **RNS Institute of Technology, Bengaluru, From 27-07-2026 to 31-07-2026**
2	**5-Day FDP on** "Artificial Intelligence in Healthcare" Concept, Applications and Hands –on implementation organized by the Department of Data Science Engineering, **RNS Institute of Technology, Bengaluru, From 24-08-2026 to 29-08-2026**
3	**5 Day National FDP on** "Agentic AI: Design ,Development & Real –World Applications" held at **RNSIT From March 09th to 13th 2026**
4	**6 Day Atal FDP** on Advanced Trends in Aerospace Engineering: Quality, Smart Materials, Sustainable Avionics and Additive Manufacturing at **AMC Engineering College ,18/08/25 to 23/08/25**
5	**One day FDP** on OBE and NBA Awareness Program 2.0 , 30/11/2024 ,RNSIT
6	**One week** Software Training on Structure Integrity/Design Analysis,30/9/2024 to 05/10/2024-VTU,Belgavi (Online Mode)
7	**40 days** Software Training by ALTEM Technologies ,2nd Aug 2021-4th Oct 2021–VTU, Bengaluru(Online Mode)
8	**2 days** Workshop on **"Leadership development program"** ,6th and 7th of April, 2024, RNSIT
9	**3 days** Workshop on **"Universal Human Values"** ,10th to 12th May 2024, RNSIT
10	Webinar on "**Attributes of Achiever Women leaders**…The Missing 33%",30th Nov 2024, Presidency University(Online Mode)
11	**5 days FDP** on "Advances and Challenges in Electric vehicle technology "on 14-18 Nov 2022 ,RNSIT(Online mode)
12	**3 days FDP** on "Recent Advances in Computing Techniques in Mechanical Engineering", 11-13th June 2020,SMVIT (Online mode)
13	**3 Week** Workshop on MATLAB in interdisciplinary engg research, 14th Dec 2020 to 2nd Jan 2021,BMSCE, VJEC(Online mode)
14	**3 days FDP** on "Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering" October 28-30, 2021. RNSIT(Online mode)
15	**One week FDP** on "Introduction to Python Programming & its Applications" , 19th to 23rd June 2023 ,VTU(Online Mode)
16	**3 days FDP** on "Finite Element method for Engineers", Jan 30th-Feb 1st 2017,RNSIT
17	**3 days FDP** on "Composites-Mechanics, Processing and Characteristics", 21-23 Mar 2013, PESIT.
18	**2 days FDP** on "FEM & Experimental Vibration Techniques", 11-12 May, 2019, VTU Mysore.
19	**3 days FDP** on "Optimization Techniques in Mechanical Engineering systems Design", PESIT,23-25 Mar 2015
20	**3 days VTU** Workshop on "**Research Methodologies and Latex"**, 26-28 May 2016,DBIT
21	**1** day Workshop on "**Finite Element Method**", 3 Feb 2018,RNSIT
22	**6th International conference** on sustainable materials and recent trends in mechanical engineering, on 8th and 9th July 2022, REVA University.

23	**2nd International Conference** on Emerging Trends in Science, Engg and Management, 15th, 16th July 2021,GMIT (Online mode)	
24	**3 days FDP** on "Recent Trends in Thermal Engineering,on April 28-30,2022, RNSIT(Online mode),	
25	Webinar on engg simulation for aerospace and defence domain,Cambridge IT, 21st may 2020	
26	Engg simulation and additive manufacturing for aerospace and defence domain,	
	B.E PROJECTS GUIDED AT RNSIT	
	Title of the project	**USN of Students**
1	Study of crack propagation in composite material	1RN12ME032,031,037,038
2	Fabrication of Fourway hacksaw blade cutting machine	1RN13ME021,022,023,055
3	Quantitative analysis of keyway distortion in camshaft	1RN14ME013,017,035,045
4	Design and fabrication of vertical wind turbine for Power generation at highway medians	1RN14ME094,103,118,15ME404
5	Modal analysis of cantilever beam bounded with PZT	1RN15ME171,16ME424,426,427
6	Design and fabrication of trash collecting machine	1RN16ME019,028,040,044
7	Performance Evaluation of Bifacial solar module vs conventional solar module	1RN16ME055,065,15ME175
8	Analysis of drag reduction in commercial vehicle using CFD	1RN18ME002,007,022,026
9	Design and fabrication of hydraulic forklift	1RN19ME402,410,446,480
10	Design and fabrication of R-F based pipe inspection robot	1RN19ME030,031,035,080
11	Design and fabrication of Ambulance bed suspension system	1RN19ME099,094,102,104
12	Smart Factory Anomaly detection using Machine Learning	1RN23ME001,009,014,034
	Altair,2nd May 2020	
27	Webinar on 2D Material for Diverse Application, Cambridge IT,23rd May 2020	