

TEJ BAHADUR YADAV

S/o Shri Sudama Yadav

Correspondence Address: -

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CAREER OBJECTIVE

To work in a challenging and professional environment where I can utilize my technical knowledge, laboratory experience, and practical skills in Mechanical Engineering for the growth of the organization and my professional career.

EDUCATIONAL QUALIFICATION

Qualification	Board / University	Institute	Year	Percentage
B.Tech (Smart Manufacturing)	BITS Pilani	WILP	Pursuing	-
Diploma Mechanical Engineering (Automobile)	BTE Lucknow	Govt Polytechnic Pratapgarh	2013	71.77%
12th (PCM)	UP Board	RIC Amethi	2009	49%
10th (Science)	UP Board	SSPIC Amethi	2007	61.66%

WORK EXPERIENCE

Organization	Designation	Department	Duration
BITS Pilani Rajasthan	Laboratory Technician	Mechanical Engineering	Apr 2023 – Present
LNMIIT Jaipur Rajasthan	Junior Technician	Mechanical-Mechatronics Engineering	Oct 2018 – May 2023
Amity University Noida	Lab Technician	Mechanical Engineering	Aug 2017 – Oct 2018

TECHNICAL SKILLS

At BITS Pilani, I am working in the Thermal Science Laboratory, which includes the following three courses:

1. Applied Thermodynamics
2. Heat Transfer
3. Prime Movers and Fluid Machinery

I work on the following test setups and equipment for demonstration, operation, and maintenance purposes.

1.	**Applied Thermodynamics**	A) Ostwald Viscometer B) Reynolds Number Apparatus C) Verification of Bernoulli's Theorem D) Notch and Orifice Apparatus E) Venturimeter F) VCRS Based Refrigeration Test Rig G) VARS Based Refrigeration Test Rig H) VCRS Based Ice Plant Tutor I) Air Conditioning Test Rig
2.	**Heat Transfer**	A) Heat Transfer from a Cylindrical Fin B) Free and Forced Convection Heat Transfer from an Array of Rectangular Fins C) Natural Convection Heat Transfer from a Tube D) Forced Convection Heat Transfer from a Tube E) Radiative Heat Transfer Experiment and Validation of Radiation Laws F) Performance Evaluation of Heat Exchanger under Parallel Flow and Counter Flow Modes G) Transient Heat Conduction Analysis H) Determination of Heat Transfer Coefficient and Effectiveness of Shell and Tube Heat Exchanger I) Determination of Effective Thermal Conductivity using

		Heat Transfer through a Lagged Pipe J) Determination of Boundary Layer Profile on a Flat Plate
3.	**Prime movers and Fluid Machinery**	A) Fan Laws Apparatus B) Reciprocating Pump Test Rig C) Submersible Pump Test Rig D) Centrifugal Pump Test Rig E) Pelton Turbine F) Francis Turbine G) Single Cylinder Diesel Engine H) Valve Timing Diagram I) Air Compressor Test Rig

Apart from the Thermal Science Laboratory, I also take care of the following instruments and research facilities:

1. Diffused Light Research Polariscope at the Center for Material Science and Technology
2. Solar Assisted Fluidized Bed Dryer (Completed Funded Project)
3. Low Speed Subsonic Wind Tunnel (Research Facility for Aerodynamics)

At LNMIIT Jaipur, I worked on the following test setups and equipment for demonstration, operation, and maintenance purposes.

1.	**Automotive Engineering lab**	A) Dismantling and assembly of various four-stroke multi-cylinder CI and SI engines. B) Dismantling and assembly of automotive transmission systems, including Torque Converter, AMT Gearbox, Synchromesh Gearbox, Single Plate Clutch, and Differential. C) Demonstration of various sensors and actuators used in modern vehicles on actual setups, including sensor data analysis and engine fault simulation using OBD-II, ABS System ECU Simulator, conventional and electronic ignition systems, auto electrical test bench, and car electrical wiring systems.

		D) Demonstration of latest automotive technologies such as CRDI, MPFI, DDIS, Turbocharger, GDI, VVT, DTSi, and Intercooler systems.
2.	**Fluid Mechanics and Machinery**	A) Conducted experiments on Metacentric Height, Bernoulli Apparatus, Major and Minor Losses, and Flow Measurement using Pitot Tube, Venturimeter, Orifice Meter, and Rotameter. B) Conducted experiments on Pelton Wheel, Francis Turbine, Kaplan Turbine, and Centrifugal Pump..
3.	**IC Engine Lab**	A) Testing of engine performance parameters and emission analysis using IC Engine test setups. B) Operation and demonstration of Double Stage Air Compressor and Valve Timing (VT) Diagram apparatus. C) Demonstration of cut-sectional models of IC engine components and systems. D) Handling and operation of Pycnometer, Redwood Viscometer, and Bomb Calorimeter.

OTHER SKILL- MS word, excel, PPT.

Other Responsibilities at BITS Pilani

1. Assisted PhD scholars in installation and experimental work for their funded projects.
2. Maintained stock registers, purchase bills, work order data, and preparation of laboratory work orders.
3. Assisted the department in organizing conferences, workshops, and seminars

PERSONAL DETAILS

DOB : 26/ 12/ 1992

GENDER : MALE

MARITAL STATUS : Married

NATIONALITY : INDIAN

PERMANENT ADDRESS : VILLAGE- PITHIPUR POST-AMETHI DISTT- AMETHI UP PIN- 227405

I here inform that above information is given by me is correct in my knowledge.

Tej Bahadur Yadav

TEJ BAHADUR YADAV

Laboratory Technician

Thermal Science Lab

Department of Mechanical Engineering

Birla Institute of Technology& Science Pilani