

# CURRICULUM VITAE

## Prem Kumar

Assistant professor

SLIET LONGOWAL, Punjab

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**Area(s) of Interest:-** Hydro energy, Fluid mechanics, Fluid machinery, Thermal energy, IC Engine, Bio-diesel,

Educational Qualifications	Year	Board/Institution	CGPA* / %
M.Tech (Alternate Hydro Energy System )	2014	IIT Roorkee, Roorkee	7.7/ 81.67
B. Tech (Mechanical)	2011	GNDEC, Ludhiana	74.56

## PROFESSIONAL EXPERIENCE

1. Two Year Experience as an **Assistant Professors** in Mechanical Department in **SLIET, Longowal** ( under MHRD, Govt of India ) Punjab
2. One year experience in **Nestle IndiaLTD**, Punjab

### Responsibilities held in Plant Maintenance:

- Fly ash combuster
- Air Heaters
- Refrigeration
- Air compressors
- ET Plant

### Projects undertaken:

- Installation of Fly Ash Combuster
- Installation and Commissioning of RO Water Plant.

## INTERNSHIP

1. **National Thermal Power Corporation , Dadri Gautam Buddha Nagar, Uttar Pradesh (India).** A six month industrial training.

## PROJECTS

### **Alternate Hydro Energy Centre, IIT Roorkee ( M.TECH)**

#### **IMPACT OF BIODIESEL ON PERFORMANCE AND EXHAUST EMISSIONS OF A DIESEL ENGINE** (9 months)

Biodiesel as an ecofriendly and renewable fuel substitute for diesel has been getting the attention of researchers all over the world. Diesel engines are used for most of the engineering applications because they have low specific fuel consumption and higher thermal efficiency compared to petrol engines. The aim of the present dissertation work is to focus in the area of production of biodiesel from pongamia oil & waste cooking oil. The different blends of these biodiesels with diesel and Kerosene were considered. The work includes the fuel properties evaluation and the performance testing of the same in a diesel engine.

### **GURU NANAK DEV ENGG. COLLEGE, LUDHIANA (B.TECH)**

- **Minor Project**  
**Tandom rotor air craft**
- **Major Project**  
**Use of Ejector in domestic refrigerator system.**

## RESEARCH PUBLICATIONS

1. Prem Kumar, M.P. Sharma, Gaurav Dwivedi, "***Impact of ternary blends of Biodiesel on Diesel engine Performance***", Egyptian journal of Petroleum, **Elesveir publication** (Accepted-11 June 2015)
2. Prem Kumar, M.P. Sharma, Gaurav Dwivedi, "***Assessment of Oxidation Stability of Oils for Biodiesel Production***", VIVECHAN International Journal of Research, 2014, Vol. 5
3. Prem Kumar, M.P. Sharma, Gaurav Dwivedi, "***Impact of biodiesel on Combustion, Performance and Exhaust Emissions of Diesel Engines***", Journal of Integrated Science and Technology, 2014, Vol. 2, pp.57-63
4. Prem Kumar, Indraj Singh. "***Performance Evaluation of Waste Cooking Biodiesel and its blends on Diesel engine***" APGRES-2015, Rajasthan Technical University, Kota, India
5. Prem Kumar, M.P. Sharma, Gaurav Dwivedi, "***Impact of Waste cooking biodiesel blended with diesel kerosene and ethanol on engine performance***," ICGTEPC-2014, NIT TRICHI"

## SKILLS AND ACHIEVEMENTS

**Computer Languages** C,C++, MATLAB, ORIGIN,LABVIEW

**Languages Known** English (SRW), Hindi (SRW), Punjabi.

## EXTRA CURRICULARS

- Qualified **GATE** Exam in **2011, 2012, 2013, 2014, 2015 and 2016** with good score.
- Worked as a **volunteer** in AHEC **COGNIZANCE- 2013**, IIT ROORKEE
- Regular Blood Donor in various Blood Donation camps
- Have won First prize in “**Technical contraption**” competition event held at GNDEC,LDH.
- NSS Volunteer, GNDEC. Actively participated in various NSS camps organized in GNDEC, Ludhiana.

## PERSONALDETAILS

**Father's Name:** Harekrishana chaudhary

**Date of Birth:** 02/06/1987

**Gender:** Male

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## REFERENCES

**Dr. M.P. Sharma**

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**Dr. Arun Kumar**

MNRE Chair Professor

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