

Bio-data

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Designation: Assistant Professor
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Contact Number (Personal): 9450071422

Personal Information:

Date of birth: 07.12.1978
Gender: Male
Marital status: Married
Spouse: Kusum Lata
Children: Two boys Vibhor and Vihan
Nationality: Indian

Educational Qualification:-

Sl. No.	Education	University/Board	Specilization	Year of Passing	Marks Percentage	Divison
1.	Ph.D.	AKTU, Lucknow	Mech.Engg.	Pursuing (2015)		
2.	M.Tech.	IIT Roorkee	Prod. & Indl. Engg.	2001	6.94/10	I
3.	B. Tech.	IET Lucknow	Mechanical Engg.	1999	70.4	I
4.	Intermediate	GIC Allahabad	Science Group	1994	66	I
5.	High School	LDDIC Mauranipur, Jhansi	Science Group	1992	70	I

Professional Experience:-

Sl. No.	Designation	Organization	From	To	Experience
1	Lecturer	DIT Dehradun	16.02.2001	20.04.2002	1 Yr 2 Month
2	Lecturer	HCST Mathura	06.09.2002	26.02.2003	5 Months
3	Asst. Prof.	HBTU Kanpur	28.02.2003	Till date (28.10.2016)	13 Yr 8 Month

B.Tech. Project: "**Development of Preventive Maintenance Schedule for a Boiler-Turbine System of a 110 MW Thermal Power Plant**"

M.Tech. Project: "**Facility layout design using Genetic Algorithm**"

Subjects taught at HBTU Kanpur:-

UG Level:

Elements of Mechanical Engg. For Ist year,
Engineering Mechanics,
Industrial Engineering,
Automobile Engineering,
Engineering Materials,
Non Conventional Energy Sources,
Elements of Mechanical Engineering for IIIrd Year Technology Branches.

PG Level:

Simulation Modeling and Analysis,
Manufacturing Automation,
Machine Tool Design,
Optimization for Engineering Design,
Advanced Materials Engineering
Applied Operation Research,
Design of Production Systems.

B. Tech Projects Guided (Completed 15)

- 1.Plant layout design based on genetic algorithm (2008)
- 2.Cell formation using genetic algorithm (2008)
- 3.Unit load and material handling considerations in facility layout design (2009)
- 4.Manufacturing cell formation using neural network (2009)
- 5.To design & develop anti lock braking system for automobiles & performance analysis (2010)
- 6.Optimization of line balancing in LML Kanpur(2010)
- 7.Design,fabrication & performance analysis of automatic guided vehicle for pipe inspection(2011)
- 8.Design,fabrication & performance analysis of automatic transmission for automotive applications(2011)
9. Design, fabrication & performance analysis of torsion bar suspension system (2012)
- 10.Design & Development of electromagnetic clutch(2012)
11. Design & Development of Motorized Scissor Jack(2013)
- 12.Design & fabrication of four wheels steering mechanism(2014)
- 13.Automated maintenance & inspection schedule for an automobile (2014)
- 14.Design and development of Nylon based Torsion bar suspension system (2015)
- 15.Development and performance analysis of paddle driven By-cycle (2015)
16. Design and fabrication of automated electro hydraulic jack (2016)

17. Design, development and fabrication of Dry-Wet-Dry cleaning machine (2016)

M.Tech Thesis Guided (completed 10)

1. A comparative study of heuristic methods & genetic algorithm to solve flow shop scheduling problem for optimization make span (2011)
2. Multi objective facility layout design using genetic algorithm (2013)
3. Computer added design and Thermo-Mechanical analysis of IC engine piston (2013)
4. FEM analysis of Automobile Frame of Chassis using ANSYS (2014)
5. Multi Objective Design optimization of ball bearing using genetic algorithm (2014)
6. Computer aided design & analysis of injection mold plastic component through mold flow advisor (2014)
7. Design and optimization of crank shaft using ANSYS (2015)
8. Design, analysis and optimization of gearbox using ANSYS. (2016)
9. Analysis of waste tyre rubber and epoxy composite (2016)
10. Optimization of connecting rod using ANSYS (2016).

Research Publication:-

Paper presented in National Seminar

- Advances in material for automotive application

Papers presented in National Conference

- Facility Layout Optimization using Genetic Algorithm
- Computer Aided Design and Analysis of injection Mold Plastic Component through mold Flow Advisor
- FEM Analysis of Automobile Frame of Chassis using ANSYS
- Emerging Frontiers in Mechanical Engineering

Short Term Courses Attended

- Robotics and Automation at IIT, Kanpur from July 7-18, 2003
- Computer Aided Advanced Computational Methods and Modeling at TIET, Patiala from July 5-16, 2004
- Intellectual Property Rights and Patent Information through NITTR, Chandigarh held at HBTI, Kanpur from Sept. 27-October 1, 2004
- Mathematical Modelling of Real Life Problems at IIT, Roorkee from July 4-15, 2005
- Workshop on Energy at BIET, Jhansi from Nov. 19-20, 2005
- Computer Machine Interfacing at NITTR, Chandigarh from Feb. 19-23, 2007
- Advances in Materials & Material Selection in Design at HBTI, Kanpur from August 24-25, 2012
- Modeling, Simulation and Analysis of Engineering Systems at HBTI, Kanpur from October 25-20, 2013
- Fatigue and Fracture of Advanced Materials at IIT, Roorkee from July 22-23, 2013

- Engineering Education: Opportunities, Challenges & Future Directions at HBTI, Kanpur from March 7-12, 2014
- Mechanics in Physics at IIT, Kanpur from June 23-27, 2014
- Workshop on Statistical Analysis for Engineers - 2015 at IIT, Kanpur from May 4-8, 2015
- State Level Faculty Interaction Seminar at HBTI, Kanpur from June 8-9, 2015
- Workshop on MATLAB Programming and its Applications at HBTI, Kanpur from Feb. 25-26, 2015
- Mechanics School at IIT, Kanpur from Feb. 20-24, 2015
- Strategic Planning and Management of Technical Institutions through ICT at UPTTI, Kanpur from August 17-21, 2015
- FDP on Achieving Academic Excellence at IIM, Raipur from Sept. 7-12, 2015
- Materials Microstructure Characterization using Optical & Scanning Electron Microscopy at IIT, Hyderabad from Dec. 20-24, 2015
- FDP on Applied Research, Training and Education in Lipid Science at HBTI, Kanpur from August 22-27, 2016
- FDP on Entrepreneurship Development at IED, Lucknow from Aug.29 - Sept. 2, 2016
- Occupational Health and Safety Management Practices organized by ESCI, The Institution of Engineers (India) and HBTU, Kanpur from October 3 - 5, 2016

Membership

Life member of The Indian Society for Technical Education.

Administrative work at HBTI Kanpur:

- 1.Convener Yoga Club (2004-2011)
- 2.In-Charge Automobile Engineering Lab (2004-till date)
- 3.In-Charge Vehicle (April 2008-April 2010)
- 4.Warden DBRA 2 hostel (May 2012- July 2015)
5. Warden DBRA 1 hostel (July 2016- till date)
6. Time-table In-charge (Mechanical Engineering)

I hereby certify that the information provided above is accurate and recent to the date indicated below.

Date:

Place: Kanpur

Signature:

Name: Ravindra Kumar Ambikesh