

MR. DESH DEEPAK (IIT, Delhi Alumni)

ASSOCIATE PROFESSOR
DEPARTMENT OF MECHANICAL/ AUTOMOBILE ENGINEERING



EDUCATION:

- ≠ B.Tech. (Mechanical Engineering)-2007 ,UP Technical University
- ≠ M.Tech. (Engineering Mechanics, CFD)-2010, IIT Delhi.

PROFESSIONAL EXPERIENCE:

- ≠ **INDUSTRIAL:** Design Engineer, TRATEC Engg. Pvt. Ltd.
- ≠ **TEACHING:** Associate Professor in W.C.T.M. Gurgaon.

Handled design assignments of super heavy load trailers from respected clients including the BEL, Defence Research and Development Organization.

RESPONSIBILITIES AT WCTM:

- ≠ Teaches subjects like Engineering Mechanics, Fluid Mechanics and Machinery, Strength of Material, Theory of Machines, Industrial Engineering etc.
- ≠ Coordinated for the establishment of the laboratories of Mechanical Engg.

CERTIFICATIONS AND SHORT TERM COURSES:

- ≠ Training of PRO-Engineer Wildfire 1.0 at G.L.A.I.T.M. Mathura.
- ≠ Training of AutoCAD (2000, 2004), CADD CENTRE, Lucknow.
- ≠ Training of ANSYS ICEM CFD at IIT Delhi.
- ≠ Training of ANSYS FLUENT at IIT Delhi.

PUBLICATIONS AND PRESENTATIONS:

- ≠ **One research paper**, published and presented in an International Conference

RESEARCH SUMMARY:

Mr. D.Deepak's research work is concerned with the accurate determination of Hydrodynamic Coefficient of an underwater vehicle using CFD. Focus has been on more accurate detailing of flows using CFD applying higher computational power, making it expensive. The derivatives obtained from the simulation of the quasi-static drift of the body with zero degree stern and rudder angle at various angles of attack and angular velocities give the stability HDCs. Stern and rudder angles control submarine motion and the simulation of the quasi-static drift of the body with non-zero degree stern and rudder angles give the control HDCs. This approach allows the development of templates - which mesh and execute a set of quasi-static CFD simulations to arrive at the values of the stability and control HDCs using modest computational resources and cost - for trajectory simulations of concept designs of underwater vehicles without expensive real time CFD simulations of these motions.

DR. BRAJENDRA NATH TRIPATHI

ASSOCIATE PROFESSOR

DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

B.E- Mechanical, National Institute of Technology Kurukshetra(2003)

M.Tech-Maharshi Dayanand university Rohtak(2010)

Ph. D-IIT(ISM Dhanbad) (2016)

PROFESSIONAL EXPERIENCE:

Teaching : 14 yrs.

Industry : 5 yrs.

(i) Worked for 5 years in Atul Glass Industries Ltd Faridabad Haryana.

RESPONSIBILITIES AT WCTM:

Teach Fluid Mechanics, to the undergraduate students of Mechanical Engineering.

PUBLICATIONS & PRESENTATIONS:

1. Presented a paper on '**Condition Monitoring of rotating equipments in Plant using Vibration Analysis**' at the National Seminar on 'Advances in Mechanical Engineering' held at Gurgaon Institute of Technology & Management, Gurgaon on 21st & 22nd February 2014.
2. Presented a paper on '**Advances in the Shaft Sealing System of Centrifugal Pumps**' at the National Seminar on 'Advances in Mechanical Engineering' held at Dronacharya College of Engineering, Gurgaon on 22nd July 2009.
3. Presented a Paper on '**Condition Monitoring at NFL Bathinda**' at a Seminar organized by **National Productivity Council, New Delhi** for Senior Engineers at New Delhi on 21st March 2000.
4. Paper '**Problem Faced on Steam Turbine at NFL Bathinda, a Case Study**' was published in '**Fertilizer News**' (a Technical Journal published by Fertilizer Association of India, New Delhi) in its February 1994 edition.
5. Paper '**Failure of Ball Bearings & its Diagnosis by Vibration Analysis**' was published in '**Chemical Engineering World**' in its May 1989 edition.
6. Paper '**Air Compressor Failure at NFL Panipat, a Case History**' was published in '**Fertilizer News**' in its November 1986 edition.

MR. ANIL KUMAR SARKAR

ASSISTANT PROFESSOR
DEPARTMENT OF MECHANICAL /
AUTOMOBILE ENGINEERING



EDUCATION :

- B Tech (Mechanical Engineering) N I T Jamshedpur
- M B A (Finance) Faculty Of Management Studies, Delhi University

PROFESSIONAL EXPERIENCE :

- **INDUSTRIAL** : 34 Years (Re red As Deputy General Manager From M/ S Indian Oil Corp.)
- **TEACHING** : Assistant Professor In Wctm . Gurgaon

RESPONSIBILITIES AT WCTM :

- Teaches Subjects Like Machine Design I & li, Strength Of Materials I & li , Kinema cs Of Machine, Material Science & Technology

TRAINING , WORKSHOP AND SHORT TERM COURSES:

- Training Of Planning , Scheduling &Monitoring I , li, lii By Eil Delhi
- Short Term Courses On Industrial Turbine And Industrial Compressor

PUBLICATIONS AND PRESENTATIONS:

- One Research On “ Petroleum Coserva on In India” From Petoleum Conserva on Of Research Assciaton Presented In Interna onal Conference At Beijing, China.

INDUSTRIAL EXPERIENCE SUMMARY:

Mr. Anil Kumar Sarkar 34 Years Of Experience Is About Refining Industry. The Different Ac vi es Covered Are Maintenance Of Refinery Equipment Like Turbine , Compressors, High Pressure Pumps. Furnace ,Columns Water Treatment Plant And Construc on & Commissioning Of Grassroot Refinery. As Deputy General Manager At Head Office Advises All The Refineries On Maintenance Func on .

MR. VINAY KUMAR SHARMA

PROFESSOR

DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

B.Sc. (Engg.) Mechanical, Regional Engineering College, Rourkela
(now a NIT) 1971

M.E. (Mech.)M/c Design, University of Roorkee,
Roorkee (now an IIT) 1974

PROFESSIONAL EXPERIENCE:

Teaching : 7.5 yrs.

Industry : 32 yrs.

- (i) Worked for 27 years in Fertilizer Corporation of India Limited & in National Fertilizers Ltd.(A Govt. of India Undertaking) & held post of “Chief Manager” when left.
- (ii) Worked for 5 yrs in Bandar Imam Petrochemical Co, Bandar Imam, Iran & Fanavaran Petrochemical Company, Bandar Imam, Iran, as a “Specialist Mechanical Engineer” for Condition Monitoring & Maintenance of Rotating Equipments.

SPECIAL TRAINING:

- Underwent 4 weeks training on “Industrial Radiography” in HAL Bangalore in September 1985.
- Underwent 2 weeks training on “SGP Steam Turbines” at Simmering Graz Pauker, Vienna, Austria in October 1987.

RESPONSIBILITIES AT WCTM:

Teach Strength of Materials, Mechanical Machine Design & Power Plant Engineering to the undergraduate students of Mechanical Engineering.

PUBLICATIONS & PRESENTATIONS:

1. Presented a paper on ‘**Condition Monitoring of rotating equipments in Plant using Vibration Analysis** ’ at the **National Seminar on ‘Advances in Mechanical Engineering’** held at **Gurgaon Institute of Technology & Management, Gurgaon** on **21 st & 22 nd February 2014.**

2. Presented a paper on '**Advances in the Shaft Sealing System of Centrifugal Pumps**' at the National Seminar on 'Advances in Mechanical Engineering' held at Dronacharya College of Engineering, Gurgaon on 22nd July 2009.
3. Presented a Paper on '**Condition Monitoring at NFL Bathinda**' at a Seminar organized by **National Productivity Council, New Delhi** for Senior Engineers at New Delhi on 21st March 2000.
4. Paper '**Problem Faced on Steam Turbine at NFL Bathinda, a Case Study**' was published in '**Fertilizer News**' (a Technical Journal published by Fertilizer Association of India, New Delhi) in its February 1994 edition.
5. Paper '**Failure of Ball Bearings & its Diagnosis by Vibration Analysis**' was published in '**Chemical Engineering World**' in its May 1989 edition.
6. Paper '**Air Compressor Failure at NFL Panipat, a Case History**' was published in '**Fertilizer News**' in its November 1986 edition.

MR. PRASHANTA KUMAR PAUL

ASSISTANT PROFESSOR
DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

- ≠ B.Tech. (Mechanical Engineering), GB PANT University, Pantnagar, UK
- ≠ M.Tech. (Mechanical Engineering), MDU ROHTAK.

PROFESSIONAL EXPERIENCE:

- ≠ **INDUSTRIAL:** 30 years (Construction Engineer, Planning Engineer and Project Engineer at EIL Delhi).
- ≠ **TEACHING:** Assistant Professor in W.C.T.M. Gurgaon.

Handled various Project assignments of super size from Civil work to commissioning and from Design to Construction.

RESPONSIBILITIES AT WCTM:

- ≠ Teaches subjects like Power Plant Engineering, Dynamics of Machines, EGD,
- ≠ Organizes Industrial Visits etc.
- ≠ Member of organizing committee of Seminar on "Advancement in Mechanical Engineering".

TRAINING, WORKSHOP AND SHORT TERM COURSES:

- ≠ Training of Planning, Scheduling & Monitoring I,II,III by EIL Delhi.
- ≠ Training of HVAC by AC CENTRE, Hyderabad.
- ≠ Attended workshop on HAZOP STUDY at Milan, Italy.
- ≠ Short term course on precision welding by BHEL Trichy.

PUBLICATIONS AND PRESENTATIONS:

One research paper on cold storage design (Maxm atm temp. 51d) published and presented in an International Conference at Abu Dhabi, UAE.

INDUSTRIAL EXPERIENCE SUMMARY:

Mr. Prashant Kumars 30 years experience is about Construction Engineer, Planning Engineer and finally to Project/Design Engineer of chemical Plants .The different activities covered Licencer selection, Basic Design, Detail Design, Quality Control, Progress Measurement, Manufacturing, and Erection of chemical plants .The work also involved Boiler, Pumps, Compressor, Valves, AC Equipment, Chilling PLANT, WTP, ETP etc. for Contract Management, Coordinating the agencies, Man-hour estimation, Progress Reporting and Client handling.

MR. MADHAVENDRA SINGH GAUTAM

ASSISTANT PROFESSOR
DEPARTMENT OF MECHANICAL/AUTOMOBILE
ENGINEERING



EDUCATION:

- ≠ B.Tech. (Mechanical Engineering), U.P.T.U, Lucknow;
- ≠ M.Tech (Thermal Engineering), R.T.U., Kota.

PROFESSIONAL EXPERIENCE:

- ≠ Lecturer, Aravali Institute, Faridabad.
- ≠ Assistant professor in World College of technology and management, Gurgaon.

RESPONSIBILITIES AT WCTM:

- ≠ Member of organizing committee CAD/CAM workshops-2012, 2013
- ≠ Member of Tech FEST Committee
- ≠ Coordinator of Deptt. of Mechanical Engineering
- ≠ Teaches UG student of Mechanical Engineering and Other departments
- ≠ Coordinated for the establishment of the laboratories of Mechanical Engg.

AWARDS, HONORS AND FELLOWSHIPS:

- ≠ 2nd position, B.Tech (Mechanical Engineering), K.C.N.I.T. Banda in 2007.

CERTIFICATIONS AND SHORT TERM COURSES:

- ≠ Attended the Faculty Development Program after B.E., named as "Finishing School" at MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY (MNIT), Jaipur.
- ≠ Training of PRO-Engineer Wildfire 2.0 at K.C.N.I.T., Banda
- ≠ Training of AutoCAD (2007, 2006, 2004), CADD CENTRE, Lucknow.

PUBLICATIONS AND PRESENTATIONS:

- ≠ Co-supervised five B.Tech thesis in solar power plant.

RESEARCH SUMMARY:

Mr. M.S. Gautam's research work is concerned with the optimization of specific work output and thermal efficiency of combined cycle at different air fuel ratio, pressure ratio and variable supplementary heating. In the present paper the pressure ratio has been taken in the range of 4 to 20 bar, air fuel ratio 50, 55, 60, and 65 and supplementary heating from 0.1 to 0.5. It is observed that specific work output and thermal efficiency improve at lower air fuel ratio, pressure ratio and supplementary heating. In the present analysis effect of supplementary heating on performance of combined cycle is discussed. It was desirable that at the (exhaust temp. of gas turbine t_{4a} + gas turbine by passed temp. t_3) should be above 813 K, otherwise the steam cycle would be inefficient resulting in lower combined cycle plant efficiency.

MR. GURDEEP SINGH GREWAL

ASSISTANT PROFESSOR

DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

- ≠ Diploma (Production and Industrial Engineering), from- P.S.B.T.E.
- ≠ B.Tech (Mechanical Engineering) from - Punjab Technical University.
- ≠ M.Tech (Manufacturing Techniques and Automation) from Maharishi Dayanand University.

PROFESSIONAL EXPERIENCE:

Teaching in World College of Technology and Management since 2012.

RESPONSIBILITIES AT WCTM:

- ≠ Organized CAD/CAM workshops-2013
- ≠ Member of Tech FEST Committee
- ≠ Teaches subjects to undergraduate students like Material Science, Theory of machines, Fluid machines, Basics of Mechanical Engineering etc.

MR. RAVINDER KUMAR ANAND

ASSISTANT PROFESSOR

DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

B.Engg. (Mechanical Engineering)- 1995, MDU, Rohtak

MBA (Operation Management) from Indira Gandhi National Open University (IGNOU)

M.Tech. (Mechanical Engineering)-2008, UPTU, Lucknow.

Ph.D. (Pursuing) – Amity University, Noida

PROFESSIONAL EXPERIENCE:

INDUSTRIAL: 4.9 years

TEACHING: 14 years

A. Teaching :- 13.9 Years

- 1) As Assistant Professor with Panipat Institute of Engineering and Technology, Panipat from October 2014 to May 2015.
- 2). As Principal with S.S. College of Polytechnic Karnal from November 2008 to October 2014.
- 3) As Assistant. Professor with Panipat Institute of Engineering and Technology, Panipat from August 2008 to November 2008.
- 4) As Lecturer, Senior Lecturer and Assistant Professor with Inderprastha Engineering College, Ghaziabad from August 2001 to August 2008.

B). Industry :- 4.9 Years

- 1). Worked with **Bhushan Steel & Strips Limited**, Site-4, Industrial Area, Sahibabad, Ghaziabad from November 1996 to August 2001 as **Maintenance Engineer**.

CERTIFICATIONS AND SHORT TERM COURSES:

1. One week short-term course on TQM at NITTTTR, Chandigarh.
2. International conference on “Challenges and Strategies for Sustainable Energy, Efficiency and Environment” at UPTU Lucknow.
3. ICTE sponsored National workshop on “Advances in Arc Welding Processes” organized by Krishna Institute of Engineering and Technology in collaboration with Indian Institute of Welding .

PUBLICATIONS AND CONFERENCE:

Journals:

1. 'Complexity Analysis of Mechanical Assemblies' (2007) in Journal of Intelligent System Research, January - June 2007; pp 1-9

Conferences;

1. 'Some Aspects of Flexible Manufacturing System (FMS) in Indian Manufacturing Industries' (2006) in National Conference on Advances in Mechanical Engineering (AIME- 2006), January 20-21, 2006, Jamia Millia Islamia, New Delhi, pp 449-456.
2. 'Conflicts between DFA and DFM- How to find the best solution' (2006) in National Conference on Recent Developments and Future Trends in Mechanical Engineering (RDFTME-2006), November 3-4, 2006 NIT, Hamirpur (HP), pp 235-245.
3. 'Design for Low Cost - A solution to the Conflict between DFM & DFA' in National Conference on Trends & Advances in Mechanical Engineering December 9-10, 2006, YMCA Institute of Engineering, Faridabad, Haryana, pp 549-554.
4. 'Linking Modularity and Flexibility to DFM/ DFA Contradiction' in AICTE Sponsored National Level Seminar on Robotic and Automation, March 30-31, 2007, N.C. College of Engineering, Israna (Panipat), pp 10.
5. 'Case Study of Paharpur Cooling Towers Ltd.' in AICTE Sponsored National Level Seminar on Robotic and Automation, March 30-31, 2007, N.C. College of Engineering, Israna (Panipat), pp 5.

RESEARCH SUMMARY:

Ph.D (Pursuing) – Amity University, Noida

MR. DEEPAK SHARMA

ASSISTANT PROFESSOR

DEPARTMENT OF MECHANICAL/AUTOMOBILE ENGINEERING



EDUCATION:

B.Tech. (Mechanical Engineering)- 2003 , Kurukshetra University, Kurukshetra

M.Tech. (Manufacturing and Automation)-2011, M.D. University, Rohtak

Pursuing PhD (Mechanical Engineering), SMVDU, Katra, J & K, India

PROFESSIONAL EXPERIENCE:

INDUSTRIAL: 02

TEACHING: 07

(Summary of Experience)

- Worked with IIMT Group of Institutions as an Assistant Professor since July 2015 to January 2016.
- Worked with IMS Engineering College, Ghaziabad, U.P., as Assistant Professor since January 2014 to January 2015.
- Worked with Bhagwan Parshuram College of Engineering, Bali Brahamanan, Gohana, Haryana as an Assistant Professor in Department of Mechanical Engineering since November 2011 to September 2013.
- Worked as a Senior Lecturer in Mechanical Engineering with Delhi Institute of Technology and Management, Gannaur, Haryana since January 2008 to June 2009.
- Worked as a Lecturer in Mechanical Engineering with Bhagwan Parshuram College of Engineering, Bali Brahamanan, Gohana, Haryana since October 2005 to September 2007.
- Worked with M/s Anant Raj Industries Ltd., Rewari, Haryana as a Production/Mechanical Maintenance engineer since October 2003 to September 2005.

RESPONSIBILITIES AT WCTM:

- Teaching “Steam and Power Generation” to the second year students

CERTIFICATIONS AND SHORT TERM COURSES:

- Life membership of Indian Institute of Welding, Kolkata.
- Life membership of Indian Society of Technical Education.
- Attended one week staff development program on Introduction to MATLAB and MATROX imaging library (SDPMMIL-2012) held at SMVDU, Katra, Jammu and Kashmir

- Attended two days national technical symposium “Azero 2002” organized by Haryana engineering college, Jagadhari, Yamuna nagar, Haryana in 2002.
- Attended one day workshop on “Advances in Arc Welding” held at BPRCE, Gohana, Haryana on 19th Feb, 2010.
- Attended two days National conference on machine intelligence research and advancements (NCMIRA-2012) held at SMVDU, Katra, Jammu and Kashmir from 21st to 23rd Dec, 2012.
- Attended one day workshop on “Supply Chain Management” held at IMS Engineering College, Ghaziabad on 01.02.2014.
- Attended All India Seminar on “Renewable Energy Developments-Challenges and the Way Forward” jointly organized by The Institution of Engineers (India) Ghaziabad local center and IMS Engineering College, Ghaziabad on 8th March, 2014.
- Attended National Conference on Innovative Developments in Science, Technology and Management held at Gangs Technical Campus, Bahadurgarh on 1st March, 2015.

PUBLICATIONS AND CONFERENCE:

- **Deepak Sharma** and Dr. Rajesh Kumar Bhushan, “Thermomechanical Modeling of FSW: A Review”, Proceedings of NCMIRA-2012, International Journal of Emerging Technology and Advanced Engineering, Vol. 3, Special Issue 2, PP 130-135, January 2013.
- **Deepak Sharma** and Dr. Rajesh Kumar Bhushan, “Green Welding for Various Similar and Dissimilar Metals and Alloys: Present Status and Future Possibilities”, Journal of Cleaner Production (Elsevier) (Under Review Process).
- Rajbir Saini, **Deepak Sharma** and Ajay Kumar, “Investigation of Microhardness and Metallurgical Properties of Friction Stir Welded AA6061-T651 Aluminium Alloy”, International Journal of Science Technology and Management, Vol. 1, Issue 5, PP 118-126, December 2013.

- **Deepak Sharma** and Dr. Rajesh Kumar Bhushan, “Investigation of Metallurgical, Tensile and Surface Properties of Friction Stir Welded AA6061-T651 Aluminium Alloy”, Welding Journal, August 2014 (Under Review Process).
- **Deepak Sharma** and Pradeep Kumar, “Investigation of SMAW by Varying the Concentration of Calcium Fluoride in Metal Cored Flux Coated Electrode” National Conference on Innovative Developments in Science, Technology and Management, GTC, Bahadurgarh, March 2015.
- Presented a poster, Deepak Sharma and Dr. Rajesh Kumar Bhushan, “Issues in Friction Stir Welding (FSW) of Metal matrix Composites” at RIAM 2015 held at CSIR-AMPRI, Bhopal

RESEARCH SUMMARY:

Pursuing PhD. in Mechanical Engineering from Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir under the guidance of Dr. Rajesh Kumar Bhushan (Associate Professor, Mechanical Engineering, Guru Ghasidas University, a central university, Bilaspur, Chhattisgarh).

Registrationno.:	12PHDEME01
AreaofResearch:	FrictionStirWeldingofMetalMatrixComposites
StatusofResearch:	At the final stage of experiments and testing at IIT, Nagar Gandhi

MR. OMPRAKASH PRAJAPATI

ASSISTANT PROFESSOR
DEPARTMENT OF MECHANICAL ENGINEERING



EDUCATION:

- B.Tech. (Mechanical Engineering) - 2011, UP Technical University.
- M.Tech. (Computer Aided Design) - 2014, HBTI (HARCOURT BUTLER TECHNOLOGICAL INSTITUTE, KANPUR)

PROFESSIONAL EXPERIENCE:

INDUSTRIAL: Maintenance Engineer, Good Luck Steel Tube Pipe Pvt. Ltd., Bulandshar (U.P.)

TEACHING: Assistant Professor in W.C.T.M. Gurgaon.

RESPONSIBILITIES AT WCTM:

- Teaches subjects like Engineering Mechanics, Strength of Material, Engineering Drawing and Machine Design and Drawing etc.
- Collect the data of placement of mechanical engineering students.

CERTIFICATIONS AND SHORT TERM COURSES:

- A TEQIP sponsored one week Faculty Development Programme (FDP) on "Modelling, Simulation and Analysis of Engineering Systems" Oct 25-30, 2013, Computer Science and Engineering Department, HBTI Kanpur.
- A TEQIP sponsored one week Faculty Development Programme (FDP) on "Engineering Education Opportunities, Challenges & Future Directions" March 7-12, 2014, Mechanical Engineering Department, HBTI Kanpur.
- Industrial Training in "Ronoulds Braking" Pvt. Limited in Sonipat (Haryana).
- Industrial Training in "Pariksha Power Plant" Pvt. Limited in Jhansi (U.P.).
- Training of AutoCAD (2009), CADD CENTRE (Jarman Company), Ghaziabad.
- GATE qualified in 2011, 2012, 2014, and 2015.

RESEARCH SUMMARY:

Mr. Omprakash research work is concerned with "Multi-objective Design Optimization of Rolling Element Bearing using Genetic Algorithm", Optimization of Dynamic capacity, Static capacity and Elasto-hydrodynamic minimum film thickness separately and simultaneously using an advanced multi-objective optimization technique (Genetic Algorithm) for getting the best performance of the rolling element bearing with the help of relational softwares such as Matlab, C language. Among the stochastic optimization techniques, genetic algorithms (GAs) are popular and promising ones in that they overcome the problem of local minima (or maxima). One of the advantages of GAs is that they explore different areas of the search space in parallel and have no presumptions with regard to the search space. Besides, they provide several alternative solutions to the problem at hand and can be easily combined with other methods.