



Prof. MOHAMMED. JUNEDUDDIN

Behind Dr. Kabre Hospital, Opposite to Congress Bhaven, Dhule-424001

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EDUCATIONAL DETAILS

- 2009 : **M.Tech. in Mechanical Engineering (Heat Power Engineering) from Visvesvaraya National Institute of Technology (VNIT-Nagpur), July-2009.**
- 2007 : **B.E in Mechanical Engineering ACET-Nagpur university, July-2007**

PROFESSIONAL EXPERIENCE:

- ❖ **ASSISTANT PROFESSOR: Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule.**
(from 01-07-2017 to till date).
- ❖ **ASSISTANT PROFESSOR: Indian Maritime University (IMU), GOVT OF INDIA, Mumbai),**
(from 01-02-2016 to 30-05-2017).
- ❖ **SR. LECTURER CUM MECHANICAL ENGINEER: LARSEN & TOUBRO LIMITED(L&T), Mumbai.**
(from 23-12-2009 to 30-12-2015).
- ❖ **CFD Engineer (M. Tech Project Intern): Zeus Numerix Pvt Ltd, Pune**
(from 01-07-2008 to 30-07-2009).
- ❖ **ASSISTANT PROFESSOR: Jawaharlal Darda Institute of Engineering & Technology, Yavatmal.**
(from 01-08-2009 to 20-12-2009).

Research Projects:

ZEUS NUMERIX PVT LTD, PUNE. (CFD APPLICATION ENGINEER: 01-07-2008 to 30-07-2009)

Team: 12 ENGINEERS (5- SR. CFD ENGINEER & 5- Ph.D. Research Scholars, 2-Professors (IITB))

1. "CFD simulation of RADAR Cross Section of a Generic Missile".

CFD analysis in a hypersonic flow region of a generic missile was carried out by using the newly developed CFD software known as CFDExpert. We had generated 4.25 billion points mesh of generic missile having a file size of 96 GB. This multi-block structured grid model was solved and simulated by high performance parallel computing of PARAM Yuva Super Computer Lab of CDAC, Pune. The results were also obtained and compared by using other CFD softwares. This was a live project of DRDO & a dedicated team of researchers & designers were involved in this including few CFD Engineers, professors from IITB and Ph.D. scholars from IITB.



ZEUS NUMERIX PVT LTD, PUNE (M. TECH PROJECT INTERN, 01-07-2008 to 30-05-2009)

2. CFD analysis of vortex shading from cylindrical surfaces (M. TECH PROJECT):

The project titled "*CFD analysis of vortex shading from cylindrical surfaces*" was my project during the final year of M.Tech. This project was allotted & guided by Dr. Gopal Shevare (Bachelor's, Master and Ph.D. degrees in Aerospace Engineering from IIT Bombay) at Zeus Numerix Pvt Ltd Pune. Various energy transformations & transportation phenomena were studied and captured. A converged solution of mass, momentum and energy equations were obtained by using CFDExpert and other CFD softwares. A simulated video clip showing the mechanism of vortex formation was prepared by using the time series data of fluid flow parameters. This video clips were much appreciated and uploaded on some cfd websites. Further studies were also carried out in this filed.

❖ Workshop / Conferences / Seminars Attended

Sr. No.	Title of FDP/Workshop/Conference attended	Name of the Organizer (FDP/Workshop/Conference Organized by)	(Date/duration of Workshop Attended)
1	ROBOTICS	(MANIT, Bhopal) (AICTE-ATAL FDP)	10 th -14 th DEC-2019. (1-weeks FDP)
2	Pedagogical and Assessment Techniques for Product Design Engineering	DBATU-Lonere	25 th Feb-6 th March-2019. (2-weeks FDP)
3	Train the Trainer	Navjyoti Global Solutions Pvt Ltd, Gurgaon	25 th Feb-6 th March-2019. (2-weeks FDP)
4	Product Design Engineering	SSGBCOE, Bhusawal	7 th Dec-11 th Dec-2018. (1-Week FDP)
5	AUTODEST INVENTOR & FUSION	AUTODESK	7 th Dec-11 th Dec-2018. (1-Week FDP)
6	Introduction to Robotics	IIT-Bombay	9 th -10 th March-2018. (2-Days Workshop)
7	NBA Accreditation and Mapping of PEOs, POs & Cos	NITTTTR, Bhopal.	7 th July-11 th July-2014. (1-Week FDP)
8	Design & Analysis of Pressure Vessels	L&T- Design Department (Powai-Mumbai)	1 st July- 30 th July-2013. (1 Month Training)
9	Workshop on Designing Softwares (UG-NX/CATIA/PRO-E)	L&T(C-TEA), Madh, Mumbai	2 nd July-7 th July-2012. (1-Week Workshop)
10	Effective Curriculum Implementation with Industry Partnership	NITTR, Bhopal	25 th Oct-29 th Oct-2010. (1-Week FDP)



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❖ Workshop/ Conference Organized:

Sr. No.	Workshop / Conference	Place	Role
1	CAD-CAM & CNC Training (L& T Graduate Engineering Trainees (GET) Training program,	L&T-C-TEA Madh, Mumbai	Trainer (Subject Expert)
2	CAD-Fest-2012 (L&T Corporate level CAD modelling competition held at the global level amongst L&T employees)	L&T, Powai, Mumbai	Core Organizing committee member
3	INTEGREAT (State Level Project Exhibition and Paper presentation)	L&T, Powai, Mumbai	Core Organizing committee member
4	N.S.D.C Project (National Skill Development Corporation, Ministry of Skill Development & Entrepreneurship, Govt Of India).	L&T, Powai, Mumbai	Syllabus designing and revamping for various trade course.
5	ITI Trade syllabus design Project (Industrial Training Institute, constituted under Directorate General of Employment & Training (DGET), Ministry of Labour & Employment, Union Government of India)	L&T, Powai, Mumbai	Syllabus designing for various trades including welders, fitters, CNC Operator, Machinist, etc.
6	MSBTE Teachers Training Program	L&T, Powai, Mumbai	Trainer (Subject Expert)
7	CAD-CAM & CNC Courses (SUMMER VACATION TRAINING COURSES)	L&T, Powai, Mumbai	Trainer (Subject Expert)

❖ Grants

Sr. No.	Name of the Faculty	Title of the proposal	Sanctioning Authority	Year	Granted Amount
1	Mohammed.Juneduddin	UNNAT BHARAT ABHIYAN	MHRD-Govt of India	2019	50,000/-



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❖ Special Achievements:

- ✓ BEST EMPLOYEE OF THE YEAR, L&T-Powai MUMBAI, Date 30-07-2014.
- ✓ Qualified GATE-2007 Examinations with 90 Percentile
- ✓ Qualified PET-2014-Mumbai University.

❖ **EXTRA CO-CURRICULUM ACHIEVEMENT**

- Worked as an *Academic Advisors* (DBATU) for Academic Audit of Degree Colleges -2019.
- SVKM'S IOT, Dhule *Project Coordinator* for UNNAT BHARAT ABHIYAN (UBA).
- "PYTHON FOR DATA SCIENCE & AI" COURSERA (4 Weeks Online Course) 23rd Oct-2019: 98 % GRADE.
- Attended: "eSim 1 Day workshop": a first course in IoT series, conducted by IITB, on 21st sep-2019.
- Attended: "Linux 1-Day Workshop", conducted by IIT Bombay Remote Center, on 23rd Aug-2019.
- Attended: Python 1-Day Workshop", conducted by IIT Bombay Remote Center, on 22nd June-2019.
- Attended: Scilab 1-Day Workshop", conducted by IIT Bombay Remote Center, on 4th May-2019.
- Attended: Moodle 1-Day Workshop", conducted by IIT Bombay Remote Center, on 15th March-2019.
- *E-Bike-2020*: SVKM'S IOT TEAM MENTOR (Qualified in the virtual round).
- Represented Nagpur University in University Level *Chess Tournament* (2004-2007).
- Represented Nagpur University in University Level *Cricket Tournament* (2004-2007).

❖ **TECHNOLOGY PROFICIENCY**

PLATFORMS	: Microsoft Windows, Linux, ios.
PROGRAMMING LANGUAGES	: PYTHON, MATLAB, C(BASIC) .
OFFICE TOOLS	: MS-OFFICE (MS-WORDS, MS-EXCELL, MS-POWERPOINT), GOOGLE-FORM, GOOGLE-SHEET.
DESIGN SOFTWARE	: NX-CAD, INVENTOR- 360, FUSION, CAM-SHM, CFD-EXPERT
ANALYSIS SOFTWARE	: ANSYS, ICM-CFD, HYPERMESH, PRO-ENGINEERING, CATIA

❖ **AREA OF INTEREST**

Thermodynamics, Fluid Mechanics, Heat Transfer, computer aided design(CAD), computer aided manufacturing(CAM), computer application engineering(CAE), computational fluid dynamics (CFD), refrigeration and air conditioning(RAC), heat engines(IC/EC-ENGINES), Artificial Intelligence (AI), Machine Learning(ML), Internet of Things(IOT), robotics, data science, brain computer interface(BCI)