CURRICULUM VITAE

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Ph.D
Mechanical Engineering
National Institute of Technology Durgapur
Durgapur, West Bengal

Objective: To add to my technical knowledge and skills and give a new dimension to my career by joining your Institute.

Personal Information

Name	**Manish Kumar**
Date Of Birth	6th July 1993
Marital Status	Married
Father's Name	Siyaram
Gender	Male
Languages Known	**Hindi, English, Marathi, Bengali**
Nationality	Indian
Permanent address	S/o: Siyaram Baiju Bigha Near MU Campus, Bodhgaya Gaya, Bihar, Pin - 824231

Academics Record

- Ph.D. in Mechanical Engineering Department, National Institute of Technology, Durgapur

Thesis Title: Evaluation of Plastic Collapse Moment of Initially Geometric Imperfect Pipe Bends Under Internal Pressure and Bending Moments.

Qualification	Institution, Place	Department	Year of Passing	CGPA/Percentage
Ph.D	N.I.T. Durgapur, Durgapur	Mechanical Engineering	2022	--
M.Tech	R.I.T. Islampur, Sangli	Mechanical Design	2016	8.00
B.E.(Hons.)	MMCOE Karvenagar, Pune	Mechanical Engineering	2014	72.86%
Class XII	GBRC Public School Bodhgaya	--	2010	68.00%
Class X	DAV Public School Gaya	--	2008	80.83%

CGPA: Cumulative Grade Point Average.

Field of Interest

- Strength of Material
- Finite Element Analysis
- Machine Design
- Vibration

Academic Skills

- **Softwares Known**: Autocad, Catia, Matlab, Python, Ansys, Abaqus, Latex
- **Instrument known:** Rheometer

Hobbies

- Teaching
- Playing Cricket
- Badminton
- Listening Old Songs
- Cooking

Achievements and Qualities

- Qualified in **GATE 14**
- Certification course of **ANSYS MULTIPHYSICS**
- Certification course of **CATIA v5 R20**
- Member of Reviewer board in International journal of technology and engineering sciences.
- I also want to mention that the greatest strengths that I have are strong determination, punctuality & hardworking.

Short Term Course

- Participated in the Gian course on **MEMS Modeling and Nonlinear Dynamic Based Analysis** at IIT Madras.
- Participated in the **Authors Workshop and Science Direct training** organized by NIT Durgapur and ELSEVIER.
- Participated in several short term courses during my M.Tech and PhD course work.

Publications

International Journal

1. M. Kumar, P. Roy and K. Khan. Determination of collapse moment of different angled pipe bends with initial geometric imperfection subjected to in-plane bending moments. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*. DOI: *10.1177/0954406221996406*. **(SCI)**

2. M. Kumar, P. Roy and K. Khan. New empirical equations for determining plastic collapse moment of initially imperfect pipe bends under internal pressure and in-plane closing bending moment. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. DOI: *10.1007/s40430-022-03400-6*. **(SCIE)**

3. P. Roy, M. Kumar and K. Khan. Plastic analysis of initially deformed thin-walled pressurized 30◦ to 180◦ bend pipes under in-plane opening bending moment. *International Journal of Pressure Vessels and Piping*. DOI: *10.1016/j.ijpvp.2021.104415.* **(SCIE)**

4. M. Kumar, P. Roy, K. Khan. Evaluation of collapse moment of pressurized 30◦ to 180◦ bend pipes subjected to out-of-plane bending moment. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*. DOI: *10.1177/09544062211061455*. **(SCI)**

International Conferences

1. M. Kumar, P. Roy and K. Khan. Effect of assumed and actual cross-section on collapse moment of different angled pipe bends under in-plane closing bending moment and internal pressure presented at *7th International Congress on Computational Mechanics and Simulation (ICCMS 2019)* at **IIT Mandi**, India.

2. M. Kumar, P. Roy and K. Khan. Numerical investigation of collapse moment of deformed pipe bends subjected to internal pressure and bending moment presented at *1st Online International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM 2020)* at **IIT Kharagpur**, India.

Book Chapter

1. M. Kumar, P. Roy and K. Khan. Numerical investigation of collapse moment of deformed pipe bends subjected to internal pressure and bending moment. *In: Recent Advances in Computational and Experimental Mechanics, Vol II. Lecture Notes in Mechanical Engineering*. DOI: *10.1007/978-981-16-6490-8_32*.

Declaration

I declare that all facts that I have stated above are true to the best of my knowledge and belief.

Date: 19.02.2022

Place: Durgapur **Manish Kumar**