

SUMIT KUMAR

D-246, B. R. Ambedkar Hall of Residence (BRH), IIT Kharagpur, Kharagpur-721 302,
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Educational Background

Degree	Year of Completion	Institution/University	CGPA Obtained
Doctor of Philosophy (PhD) (Pursuing)	Ongoing (joined in 2015)	Indian Institute of Technology Kharagpur, India	-----
M.Tech (Mechanical Engineering)	2012	Indian Institute of Engineering Science and Technology, Shibpur, India	9.55/10 (Department Rank 1)
B.Tech (Mechanical Engineering)	2010	Saroj Mohan Institute of Technology/ West Bengal University of Technology	8.91/10 (Department Rank 1)

Awards and Achievements

- **University Silver Medal** from **Indian Institute of Engineering Science and Technology, Shibpur** for securing **1st Position** in Master of Engineering, Mechanical Engineering Department, 2012.
- **MHRD Scholarship** for two years through **GATE** (Graduate Aptitude Test in Engineering) 2010, GATE Percentile: 94.
- **Secured 1st Position** in Bachelor of Technology in Mechanical Engineering Department from Saroj Mohan Institute of Technology, Guptipara, India

Work Experience

Name of Organization : Heritage Institute of Technology, Kolkata
Designation : Assistant Professor (Mechanical Engineering Department)
Duration : July 2012 to July 2015

Publications

- **S. Kumar**, S. Chakrabarti, D. K. Mandal and S. Majumder, "A numerical investigation on fluid flow through a sudden expansion", JEHMT, vol. 36, pp. 81-101, 2014.
- **S. Kumar**, S. Chakrabarti, S. Majumder, "Flow through a sudden expansion: a review", IJESR, vol. 4(4), pp. 167-180, 2014.
- **S. Kumar**, S. Chakrabarti, "A review: enhancement of heat transfer with nanofluids", IJERT, vol. 3(4), pp. 549-557, 2014.
- **S. Kumar**, "The EDL effect in microchannel flow: A critical review", IJACR, vol. 3(4), pp. 240-250, 2013.
- **S. kumar**, S. Chakrabarti, "Numerical study on flow characteristics through sudden expansion with the help of streamline contours", Journal of engineering and management, vol-5(2), pp. 5-9, 2012.
- **S. Kumar**, S. Chakrabarti, "The effect of aspect ratio and Reynolds number on the nature of recirculating bubble and velocity profile in fluid flow within a sudden expansion configuration" proceedings of international conference on advances in mechanical engineering and its interdisciplinary areas (ICAMEI-2012), 27TH – 28TH, December, 2012, CEMK, Kolaghat, India.

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- B. K. Dey, A. Guha, **S. Kumar**, S. Chakrabarti, "Effect of contraction ratio and Reynolds number on centre-line velocity and effective length for a plain suddenly contracted nozzle" proceedings of international conference on advances in mechanical engineering and its interdisciplinary areas (ICAMEI-2012), 27th – 28th, December, 2012, CEMK, Kolaghat, India.
- **S. Kumar**, S. Chakrabarti, "Study on average static pressure characteristics and their related important parameters in case of a sudden expansion configuration used as a diffuser", Proceedings of UGC national conference on advances in computer integrated manufacturing (NCACIM-II) March 16-17, 2012 JNVU, Jodhpur, India.

SEMINAR/WORKSHOP/CONFERENCE ATTENDED

- "Symposium on recent trends in health care science and technology" (March 5 & 6, 2012) organised by centre for health care science & technology, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal.
- "Workshop on research methodology" (July 29 to 31st), organised by department of Mechanical Engineering, Heritage Institute of Technology, Kolkata, West Bengal, India.
- "Short-term course on computational combustion" (28th February-3rd March, 2012) organised by Department of Aerospace Engineering, IIT Kanpur and the combustion institute (Indian section).
- "Workshop on advances in mechanical engineering (WAME-2012)" (1st February, 2012) organised by department of mechanical engineering, Bengal Engineering and Science University, Shibpur, West Bengal.
- "International Conference on Mechanical Engineering Technology" (January 20 & 21, 2012) organised by Department of Mechanical Engineering, St. Joseph College of Engineering and Technology, Palai, Kerala.
- "National workshop on CFD and its application in bio-fluid dynamics (NWCDFD'12)" (2nd - 4th January, 2012) organised by department of Mechanical Engineering, College of Engineering and Management, Kolaghat, West Bengal.
- "Recent advances in thermal engineering (RATE-2011) organised by department of Mechanical Engineering, Bengal Engineering and Science University, Shibpur, West Bengal.
- "Workshop on energy conservation techniques in industries" (27-28 September 2013), organized by department of chemical engineering, Heritage Institute of Technology, Kolkata, West Bengal.
- "Workshop on research methodology" (29-31 July 2013), organized by department of mechanical engineering, Heritage Institute of Technology, Kolkata, West Bengal.
- "Workshop on occupational health and safety with related environmental issues", (27th March 2014) jointly organized by department of mechanical, electrical, civil and chemical engineering, Heritage Institute of Technology, Kolkata, West Bengal.
- "Workshop on disaster risk reduction" (4th April 2014), organized by chemical engineering department, Heritage Institute of Technology, Kolkata, West Bengal.
- "International workshop on advances in healthcare engineering" (2-4 January 2014), organized by department of mechanical engineering, college of engineering and management, Kolaghat, West Bengal.

PROFESSIONAL AFFILIATIONS

- Indian Society of Heat and Mass Transfer (ISHMT)
- The Combustion Institute (Indian Section)
- National Society of Fluid Mechanics and Fluid Power (NSFMFP)
- The Indian Society of Theoretical and Applied Mechanics (ISTAM)

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References:

Prof. Suman Chakraborty,
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Prof. Sunando DasGupta,
Department of Chemical Engineering,
IIT Kharagpur, Kharagpur, India
Email ID: sunando@che.iitkgp.ernet.in

Personal Details:

Father's Name : Dr. Kapildev Upadhyay
Sex : Male
Date of Birth : 28th February, 1987
Nationality : Indian
Language Known : English, Hindi, Bengali