

UNIVERSITY OF CALCUTTA

ACADEMIC DEPARTMENT – JUTE AND FIBRE TECHNOLOGY

FACULTY ACADEMIC PROFILE/ CV

- 1. **Full name of the faculty member**: Dr. Amiya Kumar Singha
- 2. **Designation**: Associate Professor
- 3. **Specialisation** : Heat Power, Refrigeration and Air Conditioning, Computational Fluid Dynamics.
- 4. **Passport size photograph** :



5. **Contact information** :

Address: Sonartari Apartment, 3rd Floor, 326/7 Raja Ram Mohan Roy Road Kolkata : 700008 E mail : amiya_singha@rediffmail.com Ph. No. - 09903383102

6. **Academic qualifications**:

College/ university from which the degree was	Abbreviation of the degree
obtained	
Jalpaiguri Government Engineering College /	B.E. (Mechanical)
North Bengal University	
Bengal Engineering College / Calcutta	M.E.(Heat Power Engineering)
University	
State Council for Engineering and Technical	Diploma in Industrial Safety
Education.	
Javdavpur University	PhD (Engineering)

7. Positions held/ holding: Associate Professor

8. **Research interests**:

- Computational Fluid Dynamics
- Refrigeration and Air conditioning.
- Fire and Safety Engineering.

9. **Research guidance** :

Number of researchers awarded M.Phil/ Ph.D degrees : 04 Number of researchers pursuing M.Phil/ Ph.D : 01

10. **Projects :**

1) Modernization & Development of Mechanical Engg. Laboratory.

11. Select list of publications:

Singha, A. K., Sarkar, A, De, P. K., "Numerical study on heat transfer and fluid flow past a circular cylinder in the vicinity of a plane wall", *Numerical Heat Transfer; Part A: Applications*, 53:6, 641-666, 2008.

Singha, A. K., Sarkar, A, De, P. K., "Wall effect on heat transfer and fluid flow for incompressible viscous flows past a circular cylinder", Journal of Energy Heat and Mass Transfer ; vol. 31, pp. 169-184, 2009.

*Singha, A. K., "*Numerical Simulation of Shedding Pattern of near wake vortices behind a circular cylinder near a plane boundary" International Journal on Recent and Innovation Trends in Computing and Communication; vol. 2, pp. 3149-3154, 2014.

Bairagi, S. R., Ray, S. C., Singha, A. K., "Studies of Dimensional Parameters and Properties of Newly Developed Nonwoven Floor Mats" International Journal of Engineering Sciences & Research Technology, Vol-6(12), pp. 224-230, 2017.

*Singha, A. K., "*Numerical Simulation of Flow past a Circular Cylinder between Parallel Walls" International Journal of Creative Research Thoughts; Vol. 5(4), pp. 2315-2323, 2017.

*Singha, A. K., "*Heat Transfer and Fluid Flow Past a Circular Cylinder Between Parallel Walls" International Journal of Engineering Sciences & Research Technology; Vol. 6(12), pp. 224-230, 2017.

Sekhar Das, Amiya Kumar Singha, Atin Chaudhuri & Prasanta Kumar Ganguly, "Lengthwise jute fibre properties variation and its effect on jute–polyester composite" The Journal of The Textile Institute: 24.05. 2019.

Singha, A. K., Sarkar, A, De, P. K, "Wall effect on heat transfer past a circular cylinder numerical study ", Proceedings of International Conference on Mechanical Engineering (ICME), Dhaka, Dec 2005.

A. K. Singha, S. Ghosh, "Optimizing the design of bare tube cooling coil in cold storage application", Proceedings of International Conference on Mechanical Engineering (ICME), Dhaka, Dec 2005.

A. K. Singha, "Numerical Study of a Viscous Fluid Flow Past A Circular Cylinder in an Unbounded Domain", Proceedings of International Conference on Mechanical Engineering (ICME), Dhaka, Dec 2011.

*A. K. Singha, "*Heat Transfer across a Bare Tube Cooling Coil in Staggered Arrangement for Cold Storage Application", Proceedings of International Conference on Mechanical Engineering (ICME), Dhaka, Dec 2015.

Singha, A. K, "Heat Load and Duct Design in Comfort Air Conditioning – A Case Study", Proceedings of Clean and Comfort Air in Public Buildings " 2016, State Electrical Engineer's Association.

C) Book Chapter:

Sekhar Das1, Shantanu Basak, Pintu Pandit and Amiya Kr. Singha, "Chapter 5 : Hybrid Bast Fibre Strengthened Thermoset Composites" Thermoset Composite Materials Research Foundations 38 (2018) PP 112-127.

12. Membership of Learned Societies:

Life Member of Institute of Engineers

Life Member of Indian Society of Heating, Refrigerating & Air conditioning Engineers (ISHRAE)

13. Patents: Nil

14. Invited lectures delivered: Nil

15. Awards: Nil

16. Other notable activities: Consultancy Work

- i) Air Conditioning and Ventilation proof Consultant of RITES for construction of seven multi specialty/ super- specialty hospitals at districts, under WB Housing Board, Government of West Bengal.
- ii) Mechanical Ventilation system consultancy of Indoor Cricket Coaching Centre of The Cricket Association of Bengal (CAB)