



### Faculty Profile

Name : Dr. A.K. Vivekanandan  
Designation : Associate Professor  
Date of Joining : August 2022  
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#### Educational Qualifications:

Degree	Year of Graduation	University	Grade
Ph.D in Mechanical Engineering	2021	National Taiwan University of Science and Technology, Taiwan.	First class
M.E in Aeronautical Engineering	2013	Hindustan Institute of Technology and Sciences, Chennai	First Class
B.E in Aeronautical Engineering	2010	Anna University, Chennai	First Class

#### Area of Specialization:

1. Phase transformation
2. Surface coating techniques
3. Nanotechnology
4. Composite materials

#### Professional Experience:

Teaching : 5 Years      Industry: NIL      Research: 06 Year      Total: 11 Years

#### Research and Development:

Patents	Published: NIL	Granted: NIL	Commercialized: NIL
Journal Papers	WoS: 09	Scopus:10	Others: NIL
Conference Papers	International: 2	National: NIL	Others:NIL
Consultancy in INR	2,00,000		



### Professional Development:

STTPs: NIL	FDPs: 1	Seminars: NIL
Workshops: NIL	NPTEL Courses: 1	Other MOOC Courses: NIL

### Students Supervised/Guided:

UG : 8                                      PG: 01                                      Ph.D: NIL                                      Total: 9

### Collaboration with Industry:

1. Design and develop a single nanowire device for the thermoelectrical application. Focused ion beam and reactive ion etching techniques were proposed for fabricating nanowire devices and studying their thermal and electrical properties. (*Cooperated with Institute of Physics, Academia Sinica, Taiwan.*)
2. Develop an integrated system to detect Hydrogen gas and evaluate the microdevice sensing performance. (*Cooperated with NTUT, Taiwan, and King Saudi University, Saudi Arabia.*)
3. Development and Implementation of a Hexapod Electromagnetic Foot Robot for Efficient Chimney Inspection. (KUB, Pune, India.)

### Special Achievements:

1. **The Young Researcher of the Year- 2020** Award, granted by the TTS, Taiwan, to recognize excellence in research and teaching.
2. Recipient of National Taiwan University of Science and Technology Full Scholarship (Feb/2017 -Jan/2021).
3. “Futuristic thermoelectric materials” 7<sup>th</sup> International Conference on Science, Engineering, and Technology (ICSET-22) in Nehru Institute of Engineering and Technology, April 2022, Coimbatore, India.
4. “Smart materials in thermoelectric energy harvesting” Mahindra international lectures Series, Department of Aeronautical, Mahindra engineering college. May 2022, Salem, India.
5. “Ultrasonic assisted manufacturing process” Department of Mechanical engineering, Vardhaman college of engineering, December 2021, Hyderabad, India.