

Curriculum Vitae

S. Shriram

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Career Objective

To create an environment of students who would be innovative, passionate and technology driven to help in nation building and progress by imparting my knowledge with ease of communication and learning process

Educational Qualification

Degree	Major	University	CGPA/Percentage of marks	Year of pursuance
Ph.D.	Building Science	IIT Madras, Chennai	8.8/10	2014- Current
M.Tech.	Construction Engineering and Management	College of Engineering, Guindy, Anna university, Chennai	9.64/10	2011-2013
B.E.	Civil Engineering	Velammal Engineering College, Anna university, Chennai	85/100	2007-2011

Research Experience

Research Title – Development of CO₂-based demand controlled ventilation strategy for workspaces with ductless split air-conditioner and the assessment of physiological effect of CO₂ on humans.

Expected outcome and usefulness of research – The research would provide with ventilation design strategies to control the CO₂ concentration within the workspaces. It would help the building managers to design the ventilation system to prevent acute effects on humans due to exposure to elevated CO₂ concentration. The study would also provide a design framework for integrating the system with the air-conditioner which helps in better energy efficiency.

Teaching Assistant and Experience

1. Assistant Professor (July 2013 to December 2013) – SRM university, Chennai, India.

- Courses handled
 - Surveying – 2nd year Undergraduate students
The subject tried to impart the knowledge of various surveying techniques in the field. The surveying technique ranges from the old method of chain surveying to latest method of total station.
 - Surveying Lab – 2nd year Undergraduate students
The laboratory course was in line with the theoretical concepts thought wherein the students get a first hand field experience of performing various surveying techniques.
 - Energy Efficient Buildings – 1st year Post graduate students
The curriculum focused on various aspects of building envelope, location and climatic conditions in order to design an energy efficient building. The various strategies to maintain comfort to the occupant based on various techniques on active/passive heating/cooling was elaborated in detail.
- Involved in guidance of post graduate students' thesis dissertation on waste management and Integration of Building Information Modeling (BIM) concepts in construction planning.

2. Assistant

- Prepared detailed audit report of indoor air quality and safety precautions for various laboratories in the Indian Institute of Technology Madras, India
- Involved the teaching assistant for the “Building Services” course offered for Post graduate at the Building Technology and Construction Management division in Indian Institute of Technology Madras, India.
- Teaching assistant for the laboratory course “Construction Materials” and “Strength of Materials” during my post graduate in College of Engineering, Guindy, Anna University, Chennai, India.

Proficiency skills

- Languages – C, C++, Matlab and python
- Plotting software – AutoCad, ArchiCad
- Planning software – MS project, Primavera
- Arduino coding
 - Incorporated Arduino coding to monitor CO₂ concentration in a workspace with CO₂ sensor.

- The data obtained from the sensor was used to trigger an exhaust ventilation set-up using the python code

Awards and honours

- Awarded “**Institute Research Award**” by Indian Institute of Technology Madras in recognition for the quantity and quality of research work carried out.
- Nominated for **Best paper and young researcher** award by “Building and Environment” journal for the paper published.
- University rank holder in Bachelor of Civil Engineering (16th position out of 4000 students) in the undergraduate program offered by Anna University, Chennai, India.
- Silver medalist in the M.Tech Construction Engineering and Management program at Anna University, Chennai, India.
- Qualified as successful candidate in Graduate Aptitude test for Engineering (GATE) test conducted at the All India level during the year 2010.

Subject Proficiency

- Construction materials
- Building Services
- Energy efficient building
- Construction scheduling planning and control
- Surveying

Publications

a) Paper published in refereed journal

1. Shriram, S. and Ramamurthy, K. (2019) Assessment of CO₂ based demand controlled ventilation requirement for a flexible work environment with ductless split air-conditioner. *Science and technology for built environment* (Available online on 31-01-19).
2. Shriram, S., Ramamurthy, K. and Ramakrishnan, S. (2019). Effect of occupant induced indoor CO₂ concentration and bioeffluents on human physiology using a spirometric test. *Building and Environment* 149, pp 58-67.

b) Paper published in conference proceedings as full paper

1. Shriram, S. and Ramamurthy, K., 2018. A parametric study on adaptive ventilation design strategy in ductless split air-conditioned workspaces. *Roomvent&Ventilation 2018: Excellent indoor climate and High performance ventilation*, vol. 1, pp 127-132.