

## ACADEMIC PROFILE

**B. R. JAYALEKSHMI**  
Associate Professor

### **Education**

Ph.D., Civil Engineering, 2009, NIT Surathkal.

M.E., Structural Engineering, 1992, Govt. Engineering College Jabalpur, University of Jabalpur

B.Tech., Civil Engineering, 1988, NITCalicut/REC Calicut, University of Calicut

### **Research Fellowship**

Post Doctoral Research Fellowship, 2010, IIT Madras

### **Research Interaction Visit**

1. Queen's University Belfast, UK, 2008
2. University of Western Sydney, Australia, 2011.

### **Research Publications**

Journal Publications: 31

Conference Publications: 47

### **Research Guidance**

**Ph.D.: 2 & 2 in Progress.**

**M.Tech:**

Structural Engineering – 41

Geotechnical Engineering - 5

### **Sponsored Research Projects (Co-Investigator):**

1. Dynamic soil-structure interaction effects in multistoreyed structures on homogeneous soil and geosynthetic reinforced soil, BRNS, Govt.of India.
2. Seismic vulnerability and earthquake resistant design, MHRD, Govt.of India.
3. Setting up of Earthquake Engg. Laboratory, NPEEE, Govt.of India.

### **Details of service at NITK Surathkal : 22years**

Associate Professor, 01.01.2011 till Date

Assistant Professor, 01.01.2008 to 31.12.2010

Senior Lecturer, 01.01.2003 to 31.12.2007

Lecturer, 01.01.1998 to 31.12.2002

Assistant Lecturer, 29.08.1994 to 31.12.1997

### **Curriculum Development:** *Added the following courses to curriculum.*

#### **B.Tech (Civil Engineering)**

- FEM Applications in Civil Engineering
- Computer Aided Design And Applications in Civil Engineering
- Seismoresistant Concrete Structures

#### **M.Tech (Structural Engineering)**

- Computational Techniques and Computer Aided Design in Structural Engineering.
- Computer Aided Design in Structural Engineering.

### **Laboratory Development**

- Instrumental in the setting up of **Earthquake Engineering** Laboratory.
- Responsible for the purchase of equipments for **Earthquake Engineering** Laboratory

- Involved in purchase of equipments for **Material Testing Lab**.
- Instrumental in the setting up of **Research Computing Laboratory** and purchase of softwares LS DYNA, ANSYS & CIVIL FEM, STAADPro., SAP 2000 & ETABS

### Subjects taught

#### *B.Tech Civil Engineering*

- Structural Analysis I
- Structural Analysis II
- Structural Design I (RCC)
- Computer Aided Design & Applications in Civil Engineering (C/C++)
- Finite Element Analysis & Applications in Civil Engineering
- Elements of Earthquake Engineering
- Computer Programming (FORTRAN Theory & Lab)
- Computer Programming (C Theory & Lab)
- Civil Engineering Materials Lab I & II

#### *M.Tech (Structural Engineering)*

- Computational Techniques and Computer Aided Design in Structural Engg.
- Theory of Elasticity And Plasticity
- Shells & Folded Plates
- Earthquake Engineering
- Computer Aided Design in Structural Engg. Lab.
- Structures Lab
- Finite Element Method
- FEM for Geotechnical Engineers

### Membership of Professional Bodies

- Life Member, Indian Society of Technical Education
- Life Member, Indian Society of Earthquake Technology
- Life Member, Indian Association of Environmental Management
- Associated member, Institution of Engineers

### Assistance in Administration

- Member - Departmental Post graduate/ Under graduate/Research Committee (DPGC,DUGC,DRPC), DAAB
- Secretary - DRPC
- Member - Library Advisory committee, 2005 -2013
- Member - Anti-Ragging Squad, 2006 - 2012
- Faculty Advisor
  - M.Tech Structural Engg. Iyear & II year, 2004 - 2006& 2015-2017
  - M.Tech Structural Engg II year, 2006
  - B.Tech Civil Engg. 2007 Batch (2007,2008,2009,2010)
  - B.Tech Civil Engg. 2012 Batch (upto 3rd Sem)
- Coordinator
  - Earthquake Engineering Lab
  - Research Computing Lab
- Coordinator
  - Accreditation for UG in Civil Engineering (NBA 2014)