



**DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT**  
22 Mile, B.M Kaval, Udayapura, Kanakapura Road, Bangalore-560082.

**DEPARTMENT OF CIVIL ENGINEERING**

<b>Faculty Name</b>	<b>Dr. Shubhalakshmi B S</b>	
<b>Designation</b>	<b>Assistant Professor</b>	
<b>Educational Qualification</b>	<b>B.E., M.Tech., Ph.D</b>	
<b>Experience in Years</b>	<b>13 years</b>	
<b>Area of Interest</b>	<b>Strengthening of Structures, Retrofitting, Rehabilitation</b>	
<b>Email ID</b>	<a href="mailto:shubhalakshmi-cvl@dayanandasagar.edu">shubhalakshmi-cvl@dayanandasagar.edu</a>	

**Educational Details**

- Ph.D- Structural Engineering, Bangalore Institute of Technology, Bengaluru, 2019
- M.Tech.- Structural Engineering, Bangalore Institute of Technology, Bangalore, 2008
- B.E. - Civil Engineering, R V College of Engineering, Bangalore, 2006

**Personal Details**

- Date of Birth: 16<sup>th</sup> November
- Hobbies: Playing Badminton, through ball, listening to music
- Languages Known: Kannada, Hindi, English

**Professional Experience**

- Working as an Assistant Professor in the Department of Civil Engineering at DSATM, Bengaluru from 7th August 2019 to till date.
- Worked as an Assistant Professor in the Department of Civil Engineering at DSCE, Bangalore from 10th August 2015 to 6th August 2019.
- Worked as an Assistant Professor in the Department of Civil Engineering at AIT, Bangalore from 31 January 2014- 29 May 2015.
- Worked as a Lecturer in the Department of Civil Engineering at DSCE, Bangalore from 21 July 2008 – 25 June 2012.

- Publications

**International Journals:**

- K. Mallikarjuna, M. K. Harikeerthan, **B. S. Shubhalakshmi**, K. S. Vinay Kumar, Ravindra Pratap Singh, Maddali Srikanth, Y. Krishna Srinivasa Subba Rao, Suresh Kumar, Aggegnenu Shara Shata, Research Article on **“Effect of Reinforcement on Tensile Characteristics in AA 5052 with ZrC and Fly Ash-Based Composites”** Hindawi- Advances in Materials Science and Engineering, Volume 2022, Article ID 7070304, 7 pages, 30<sup>th</sup> September 2022,

<https://doi.org/10.1155/2022/7070304>

- **B.S.Shubhalakshmi**, H.N.Jagannatha Reddy, R.Prabhakara, Arjun Kasi, “**Experimental & Analytical Comparative Analysis on Effectiveness of Different Wrapping Techniques for Two way RC Slabs using Different International Guidelines**” published in Springer, Singapore, Nandagiri, L., Narasimhan, M.C., Marathe, S. (eds), Recent Advances in Civil Engineering, Lecture Notes in Civil Engineering, Volume 256, Springer, Singapore, [https://doi.org/10.1007/978-981-19-1862-9\\_14](https://doi.org/10.1007/978-981-19-1862-9_14), Online ISBN 978-981-19-1862-9, Print ISBN 978-981-19-1861-2, Page No. 215-230, June 2022
- **Shubhalakshmi B S**, H N Jagannatha Reddy, R Prabhakara, Arjun Kasi, M K Harikeerthan, “**Numerical Investigation on Two Way RCC Slabs Strengthened Using FRP Fabrics**” published in International Journal Of Innovative Research In Technology (IJIRT), Volume 8 Issue 11, Page No. 380-383, ISSN: 2349-6002, April 2022
- **B.S.Shubhalakshmi**, H.N.Jagannatha Reddy, R.Prabhakara, Arjun Kasi, “**Performance-Based Economic Evaluation of Retrofitted Slabs with Different FRP’s and Different Configurations**” published in Springer Nature Singapore Pte Ltd. 202,1 M. C. Narasimhan et al. (eds.), Trends in Civil Engineering and Challenges for Sustainability, Lecture Notes in Civil Engineering 99, [https://doi.org/10.1007/978-981-15-6828-2\\_25](https://doi.org/10.1007/978-981-15-6828-2_25), Page 323-331, Sept 2020
- Md Ibrahim, **Shubhalakshmi B.S**, “**Seismic Performance of Reinforced Concrete Structures at Different Damage Levels**”, published in International Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE), Volume 3, Issue 5, Page 476-478, ISSN(Online) : 2456-8910 [DOI: 10.29027/IJIRASE.v3.i5.2019](https://doi.org/10.29027/IJIRASE.v3.i5.2019)
- Abhishek Anakal, Kasi Arjun, **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, “**Analytical study on Retrofitted RC slab with different FRPS**”, published in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), e-ISSN: 2455-2585, Volume 4, Issue 6, June 2018, **Impact Factor: 5.22 (SJIF-2017)**
- Prashant.S, **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, “**Comparative study on Flexural strength of Two way RC slabs Retrofitted with CFRP, GFRP and PPFRRP**”, published in International Journal of Research in Engineering, Science and Management (IJRESM), Volume 1, Issue 6, June 2018
- Vasanth.S.D, Vinay.A, A.V.Pradeep Kumar, **Shubhalakshmi.B.S**,”**An experimental study on Physical properties of clayey soil by using destructive and non-destructive tests**” published in International Journal of Engineering Research & Technology (IJERT), ISSN:2278-0181, Volume 7, Issue-5, May 2018
- Abhishek Anakal, Kasi Arjun, **Shubhalakshmi.B.S**, “**Retrofitting of Reinforced concrete slabs using different FRP’s-A critical review**”, published in International Journal of Advances in Science Engineering and Technology, ISSN(p): 2321 –8991, ISSN(e): 2321 –9009, Vol-6, Iss-1, Spl. Issue-1, Feb-2018
- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, “**The Structural Behavior of RC Slab Retrofitted Using Polypropylene Fibre Reinforced Polymers (PPFRP), With and Without Mechanical Anchorage**” published in Journal of Civil and Construction Engineering (MAT Journals), ISSN: 2457-001X, Volume 4, Issue 1, Page 1-4 , January 2018
- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, “**An investigation on the flexural strength of retrofitted RC slabs with polypropylene fibre reinforced polymers (PPFRP)**” published in International Journal of Advanced Research and Development (IJARD) an **UGC approved journal**, ISSN: 2455-4030, Volume 2, Issue 6, Page No. 439-442, November 2017
- Parvathi K S, **Shubha Lakshmi B S** , K Arjun & Shivakumar B Patil, “**A Study On Crop Water Requirement From The Manual Method**” published in Global Journal Of Engineering Science And Researches (GJESR), ISSN 2348 – 8034, volume 4, issue 6, page no. 80-84, June 2017
- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, K.Arjun “**Flexural strength of Structural RC slab**”

**retrofitted with Basalt fiber along with mechanical anchorage”** published in International Journal of Current Research (IJCR), ISSN: 0975-833X, volume 9, issue 05, Page No. 50284-50288, May 2017

- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, K.Arjun **“Flexural strength of Two-way RC slabs retrofitted using Basalt fiber reinforced polymer (BFRP) with mechanical anchorage”** published in International Journal of Advanced Research (IJAR), ISSN: 2320-5407, Int.J.Res. 5(4), Page No. 1198-1204, April 2017
- Rahul M, Arjun.K, **Shubhalakshmi.B.S “Flexural study on simply supported reinforced concrete two-way slab with partial replacement of GGBS”**, published in International Journal of research Granthaalayah, International Journal of research- Granthaalayah, pg no.1-9, [www.granthaalayah.com](http://www.granthaalayah.com), March 2017, ISSN(O):2350-0530, ISSN(P): 2394-3629
- Darshan, **Shubhalakshmi.B.S**, K.Arjun, **“Axial compressive load test on concrete filled steel tubes with self compacting concrete”**, published in International Research Journal of Engineering and Technology (IRJET), Vol. 3 Issue 9, Sept. 2016, e-ISSN 2395-00056, p-ISSN 2395 0072, **ISO 9001:2008 Certified Journal**
- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, K.Arjun **“Flexural Strength Of Two-Way RC Slabs Retrofitted With Basalt Fiber Reinforced Polymer (BFRP)”** published in International Journal Of Engineering Sciences & Research Technology, volume 5, issue 8, Page No.207-213, August 2016, ISSN: 2277-9655
- Tara Sen, Dr.H.N.Jagannatha Reddy, **Shubhalakshmi.B.S “Shear Strength Study of RC Beams Retrofitted Using Vinyl Ester Bonded GFRP and Epoxy Bonded GFRP”** published in Civil and Environmental Research, Vol 2, No.2, 2012, ISSN 2222-1719 (Paper) ISSN 2222-2863 (Online), **Impact factor: 5.52**
- Tara Sen, Dr.H.N.Jagannatha Reddy, **Shubhalakshmi.B.S “Flexural Characteristic Study of RCC Beams Retrofitted using Vinyl Ester Bonded GFRP and Epoxy Bonded GFRP”** published in (IAEST) International Journal of Advanced Engineering Sciences and Technologies, volume 10, issue 1, 070-075, 2011 (ISSN: 2230-7818)
- Tara Sen, Umesh Mishra, **Shubhalakshmi.B.S “Nonlinear Finite Element Analysis of Retrofitting of RCC Beam-Column Joint using CFRP”** published in International Journal of Engineering and Technology, Volume 2, Number 5, Article 165, Page No. 467, October 2010

#### **International Conferences:**

- **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, R.Prabhakara, Arjun Kasi, **“Experimental & Analytical Comparative Analysis on Effectiveness of Different Wrapping Techniques for Two way RC Slabs using Different International Guidelines”**, proceedings of the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2021), held at NMAMIT, Nitte on 19<sup>th</sup> -20<sup>th</sup> November 2021.
- **Shubhalakshmi.B.S**, Dr.H.N.Jagannatha Reddy, Arjun Kasi, **“Performance Based Economic Evaluation of Retrofitted Slabs with Different FRP’s and Different Configurations”**, proceedings of the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2019), held at NMAMIT, Nitte on 23<sup>th</sup> -24<sup>th</sup> May 2019.
- Md Ibrahim, **Shubhalakshmi.B.S**, **“Seismic Performance of Reinforced Concrete Structures at Different Damage Levels”**, proceedings of the International Conference on Recent Engineering Technology 2019, ISBN 978-93 81288-81-4 held at New horizon College of Engineering, Bengaluru on 5<sup>th</sup> May 2019.
- Abhishek Anakal, Kasi Arjun, **Shubhalakshmi.B.S**, **“Retrofitting of Reinforced concrete slabs using different FRP’s-A critical review”**, proceedings of the International Conference on Recent trends in Environmental Science and Engineering (RTESE 17), held at APS College of Engineering,

Bengaluru, India on 16<sup>th</sup> December 2017.

- Arjun.K, **Shubhalakshmi.B.S**, “**Behavior under Axial load for Concrete filled steel tubes**”, proceedings of the 2<sup>nd</sup> International Conference on Applied Science, Engineering and Technology (ICASET-16) held at Swetha Institute of Technology and Science, Tirupathi-AP during 18<sup>th</sup> -19<sup>th</sup> October 2016
- **Shubhalakshmi.B.S**, Tara Sen, H.N.Jagannatha Reddy, “**A review of different FRP composite system used for strengthening of RC slabs**” proceedings of the International Conference on Advances in Architecture and Civil Engineering- AARCV 2012 held at M.S.Ramaiah Institute of Technology, Bangalore during 21-23 June 2012
- Tara Sen, **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**Sustainable development using Biocomposites**” proceedings of the International Conference on Advances in Architecture and Civil Engineering- AARCV 2012 held at M.S.Ramaiah Institute of Technology, Bangalore during 21-23 June 2012
- Tara Sen, **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**Effect of different Chemical treatment on the Flexural property of sisal fibre textile composites**” proceedings of the International Conference on Advances in Architecture and Civil Engineering- AARCV 2012 held at M.S.Ramaiah Institute of Technology, Bangalore during 21-23 June 2012
- Tara Sen, **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**Computer aided nonlinear finite element analysis of rehabilitation of RC beam column joints using glass fibres**” proceedings of the 2010 International Conference on Informatics, Cybernetics and Computer Applications ICICCA 2010, held at Gopalan College of Engineering and Management, Bangalore on 19<sup>th</sup> to 21<sup>st</sup> July, 2010
- Tara Sen, **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**Computer aided nonlinear finite element analysis of retrofitting of RC beam column joints using glass fibres**” proceedings of the 2010 International Conference on Informatics, Cybernetics and Computer Applications ICICCA 2010, held at Gopalan College of Engineering and Management, Bangalore on 19<sup>th</sup> to 21<sup>st</sup> July, 2010
- Tara Sen, **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**An Experimental investigation on retrofitting on beam column joints using GFRP**”, proceedings of the International Conference on Convergence of Science and Engineering in Education and Research, A global perspective in the new millennium, ICSE 2010, held at Dayananda Sagar College of Engineering, Bangalore on 21<sup>st</sup> to 23<sup>rd</sup> April, 2010 organised by IEEE
- Umesh Mishra, Tara Sen, **Shubhalakshmi.B.S**, “**Use of fly ash and other industrial wastes as an alternative pavement materials for the construction of rural roads**” proceedings of the International Conference on Convergence of Science and Engineering in Education and Research, A global perspective in the new millennium, ICSE 2010, held at Dayananda Sagar College of Engineering, Bangalore on 21<sup>st</sup> to 23<sup>rd</sup> April, 2010 organised by IEEE

#### **National Conferences:**

- B E Gururaja, Dr.C.Sadashivaiah, Arjun.K, **Shubhalakshmi.B.S** “**Seismic Behavior of RC Frame Building with Shear Wall as Lateral Load Resisting System**”, 5<sup>th</sup> National Conference on Futuristic Technology in Civil Engineering for Sustainable Development, held at SJB Institute of Technology, Bengaluru on 10<sup>th</sup> May, 2017
- Rahul M, Arjun.K, **Shubhalakshmi.B.S** “**Flexural study on simply supported reinforced concrete two-way slab with partial replacement of GGBS**”, National Conference on Recent advances in Sustainable Materials (RASM-17), held at School of Engineering & Technology, Jain University, Bengaluru on 25<sup>th</sup> March 2017
- Arjun.K, **Shubhalakshmi.B.S**, “**Comparison of Lapping Strip method with BIS method of design**” National Conference on Convergence of Science, Technology and Management-NCCSTM 2016,

held at Dayananda Sagar Academy of Technology & Management, Bengaluru on 5<sup>th</sup> May 2016

- **Shubhalakshmi.B.S**, H.N.Jagannatha Reddy, “**Strengthening of two way RC slabs retrofitted using Environmental friendly Basalt fiber reinforced polymer (BFRP)**”, poster presentation in 8<sup>th</sup> KSTA annual conference on Science and technology and Bangalore Institute of Technology, Bangalore for gennext Urban space- held during 5<sup>th</sup> & 6<sup>th</sup> November 2015.

### Academic Activity

- Project coordinator
- IRDC coordinator
- R & D Cell coordinator
- NAAC criteria coordinator (criteria 4)
- PG coordinator (M.Tech- Structural Engineering)
- NBA criteria coordinator (criteria 6)
- Test coordinator
- Result analysis coordinator
- Class teacher
- Monthly progress report coordinator
- Calendar of events coordinator
- Parent-Teacher Meeting coordinator
- EMS coordinator

### Faculty Development Activity

Course Title	Year	Institution	Duration
<b>Sustainable Building Materials and Construction</b>	22 <sup>nd</sup> & 23 <sup>rd</sup> September 2022	Christ University, Bengaluru	02 DAYS
<b>Self-Sustainable Buildings</b>	12 <sup>th</sup> to 16 <sup>th</sup> September 2022	Presidency University, Bengaluru	05 DAYS [Online]
<b>Faculty Immersion Program (FIP) on Pedagogical Approaches</b>	8 <sup>th</sup> to 12 <sup>th</sup> April 2022	Dayananda Sagar Academy of Technology & Management, Bangalore	05 DAYS
<b>Importance of Waterproofing in Buildings</b>	7 <sup>th</sup> October 2020	Department of Civil Engineering, SJC Institute of Technology, Chickballapura, Karnataka	01 DAY [Online]
<b>Scientific Writing for journals</b>	30 <sup>th</sup> September 2020	Springer Nature in collaboration with Visvesvaraya Technological University Consortium	01 DAY [Online]
<b>Infrastructure Works: Site Survey to</b>	10 <sup>th</sup> to 15 <sup>th</sup> August 2020	Dayananda Sagar Academy of Technology & Management,	06 DAYS [Online]

<b>Execution Using Modern Project Management Techniques</b>		Bangalore in association with Indian Concrete Institute, Bengaluru	
<b>Climate Change and Carbon Issues (CCCI)</b>	6 <sup>th</sup> to 10 <sup>th</sup> July 2020	B.M.S College of Engineering, Bengaluru in association with ISTE, IGBC & IWWA	05 DAYS [Online]
<b>REVIT-Architecture</b>	3 <sup>rd</sup> to 5 <sup>th</sup> October 2018	Dayananda Sagar College of Engineering, Bangalore	03 DAYS
<b>ISTE Faculty convention</b>	9 <sup>th</sup> December 2017	Dayananda Sagar College of Engineering, Bangalore	01 DAY
<b>Need of Coastal Reservoir to solve Water crisis</b>	4 <sup>th</sup> December 2017	Dayananda Sagar College of Engineering, Bangalore	01 DAY
<b>Role of Engineers in Infrastructure, Energy &amp; Irrigation</b>	27 <sup>th</sup> September 2017	Dayananda Sagar College of Engineering, Bangalore	01 DAY
<b>Advanced technologies and modern trends in civil engineering constructions</b>	11 <sup>th</sup> to 16 <sup>th</sup> January 2016	Jyothy Institute of Technology, Bangalore	06 DAYS
<b>Effect of Corrosion on the Concrete Infrastructure and Its Durability</b>	20 <sup>th</sup> to 23 <sup>rd</sup> May 2014	VTU-VGST organized at MVJ College of Engineering, Bangalore	04 DAYS
<b>Irrigation Design &amp; Drawing</b>	12 <sup>th</sup> April 2014	Acharya Institute of Technology, Bangalore	01 DAY
<b>STEELCON</b>	26 <sup>th</sup> & 27 <sup>th</sup> April 2013	S J College of Engineering, Mysore	02 DAYS
<b>Seismic Design of Structures for Disaster Mitigation</b>	13 <sup>th</sup> to 15 <sup>th</sup> September 2012	Ministry of Earth Sciences sponsored, organized at Dayananda Sagar College of Engineering, Bangalore	03 DAYS
<b>E-week Celebrations-2012</b>	11 <sup>th</sup> to 18 <sup>th</sup> February 2012	Entrepreneurship Development Center at Dayananda Sagar Institutions, Bangalore	08 DAYS
<b>Civil FEM</b>	30 <sup>th</sup> & 31 <sup>st</sup> January 2012	Visvesvaraya Technological University at Bangalore Institute of Technology, Bangalore	02 DAYS
<b>Alternate Construction Materials for Sustainable Environment</b>	15 <sup>th</sup> to 18 <sup>th</sup> September 2010	VTU sponsored, organized at Dayananda Sagar College of Engineering, Bangalore	04 DAYS
<b>Empowered Leadership Program</b>	2008	Centre for Innovation and Leadership at Dayananda Sagar Institutions, Bangalore	02 DAYS

## Awards

- Received funds for R & D project (Co-Investigator) on “Durability Assessment and Damage Prediction of New and Alternative Pre-Cast Railway Concrete Sleepers” from RGS-VTU, Belagavi, Rs.15,00,000/- in February 2022 (On going)
- Appreciation for “Best Professional Performer 2021-22” in Certification courses/ Quality publication/ Funded projects/ Patents/ Consultancy during 2021-22 from DSATM, Bengaluru
- Reviewer for American Concrete Institute (ACI) Journals.
- Received funds to conduct Five days Online FDP on “Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings” from ATAL, AICTE, Government of India, Rs.93,000/- in July 2021
- Appreciation for “Excellent academics performance achievement” in outstanding student feedback 2020-2021 from DSATM, Bengaluru
- Received funds to conduct the symposium on “Earthquake Resistant Design of Structures for Disaster Mitigation” form Ministry of Earth Sciences, Government of India, Rs.70,000/- in February 2012
- Second topper in M.Tech- Structural Engineering at Bangalore Institute of Technology, Bangalore (2008 Batch)

## Professional Membership

- IFERP- Life member, No.- PM68530712 (Institute for Engineering Research & Publication) (Registered in 2021)
- ISTE- Life member, No.-LM 102910 (Indian Society for Technical Education) (Registered in 2015)
- IAENG- Life member, No.-149870 (International Association of ENGINEERS) (Registered in 2014)

## Contact Details

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Bengaluru-560082

## My Vision

- To follow Professional ethics and to excel in the field of teaching and research.
- To give an output of excellent engineers to the society.