

CURRICULUM VITAE

Dr. Vidya Balagam, Ph.D.

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OBJECTIVE:

To secure a challenging position where I can effectively contribute my skills

EDUCATION:

January 2020:	PhD in Civil Engineering at Andhra University Entitled- "Effect of thermal cycles on mechanical properties of standard concrete (M 30) and high strength concrete (M 90)" under guidance of Prof. K. Srinivasa Rao
2008-2010:	M.E (Structural engineering) at AU. 8.62 CGPA, First Class with Distinction.
2002-2006:	B.E in civil Engineering from AU College of Engineering, Visakhapatnam. 74.15%, First Class with Distinction.
2000-2002:	Intermediate Board of Education (M.P.C) Narayana Junior College 90%
1999-2000:	Secondary School of Education Mohan Secondary School 83%

RESEARCH INTERESTS:

- Cement composites in concrete
- Use of recyclable materials like waste plastic, aggregate in concrete
- Concrete under thermal cycles
- High strength concrete

PUBLICATIONS:

1. C. Nagendra Prasad and **B. Vidya**, "Strength of brick masonry prisms when cement replaced with fly ash", The IUP journal of structural engineering, vol. V, No.4, pp.53-60, October 2012.
2. R. Chinna Rao, S. Sai Tejaswi, **B. Vidya** and J. Renuka, "Experimental Investigation of Waste Glass Powder as Partial replacement of cement and sand", The IUP journal of structural engineering, vol. V, No.4, pp.14-22, October 2015.
3. B.V. Sai Kiran, U. Ganga Raju, A. Bharat Kumar, P. Chandra Sekhar and **B. Vidya**, "Comparative study of symmetric structure with floating and non-floating column under

seismic condition”, International Journal of Engineering Research (IJER), Vol. 4, No.2, pp.481-487, March- April 2016.

4. **Vidya B**, C. Nagendra Prasad and D. Manasa, “Effect of corrosion on steel fibre reinforced concrete”, The IUP journal of structural engineering, vol. X, No.1, pp.16-24, January, 2017.
5. **Vidya B**, Blessy Zion and K. Srinivasa Rao, “A study on development of High strength concrete of grade (95 Mpa)”, The IUP journal of structural engineering, vol. X, No.1, pp.7-19, July, 2017.
6. **Vidya B** and K. Srinivasa Rao, “Development of M 90 grade of concrete using micro silica”, International journal of research in applied sciences and engineering technology (IJRASET), Vol. 5, Issue XII, pp. 2275 – 2282, December 2017. ISSN : 2321-9653
7. **Vidya B** and K. Srinivasa Rao, “Thermogravimetric analysis of concrete”, International Journal of Modern Trends in Engineering Research (IJMTER), Vol.5, Issue.4, pp.187-194, 2018. DOI : 10.21884/IJMTER.2018.5121.JRKJ2
8. **Vidya B**, N. Sravani, K. Manisha, G. Lakshmana Rao and O. Chandra Shekar, “Mechanical properties of field demolished aggregate concrete”, International journal of engineering and techniques (IJET)”, Volume 4, Issue 3, pp. 174-178, May-June, 2018. 10.29126/23951303/IJET-V4I3P30
9. **Vidya B**, K. Lakshman, S. Varahalu and G. Tirumala Rao ”Analysis and Design of four legged transmission tower with different bracings”, International Journal of Management Technology and Engineering (IJMTE), Volume XI, Issue IV, pp. 4658-4666, April-2019.
10. **Vidya B**, K. Lakshman, S. Varahalu and G. Tirumala Rao, “Comparative study of four legged transmission tower with different sections”, International Journal of technical innovation in modern engineering and science (IJTIMES), Vol. 5, Issue 5 , May 2019, pp. 39-45.
11. **Vidya B** and K. Srinivasa Rao, “Effect of thermal cycles on compressive strength of high strength concrete (M 90) compared to normal strength concrete (M 30)” The Indian Concrete Journal (ICJ), Vol. 93, No.6, June 2019, pp.8-17. (Scopus index)
12. **Vidya B** and K. Srinivasa Rao, “Effect of thermal cycles on concrete: An overview”, International Journal for Research in Engineering Application and Management (IJREAM), Vol.5, Issue 3, pp.6-14, June, 2019.
13. **Vidya B**, Janardhan CH, Sri Harsha P, Venkata naidu B, Sai Sasidhar Reddy CH, Utilization of PVC waste as a partial replacement in concrete – An overview, International Journal of research and analytics reviews, Vol.7, Issue 3, July 2020.
14. **Vidya B** and K. Srinivasa Rao, “Thermo-mechanical behaviour of standard and high strength concrete subjected to thermal cycles, proceedings of first online conference- International conference on recent advances in computational and experimental mechanics (ICRACEM), September 4-6, 2020, IIT KHARAGPUR ISBN 978-93-5416-440-8, ISBN 978-93-5416-440-8 (eBook)
15. **Vidya B** and K. Srinivasa Rao, “Effect of thermal cycles on split tensile strength of normal strength (M 30) and high strength concrete (M 90)” communicated to Civil Engineering and Architecture (Scopus index)

16. **Vidya B** and K. Srinivasa Rao, "Tensile behavior of high strength (M 90) and normal strength concrete (M 30) subjected to thermal cycles" *Gis Science Journal*, Volume8, Issue 3, March 2021, pp. 52-64. (Scopus index)
17. **Vidya B** and K. Srinivasa Rao, "Investigations on mechanical properties of high strength concrete", *PENSEE*, Volume 51, Issue 3, March 2021, pp.212-225. (Scopus index)
18. **Vidya B** and K. Srinivasa Rao, "A study on thermo-mechanical behaviour of concrete subjected to thermal cycles", communicated to *The Indian Concrete Journal (ICJ)* – special issue, (Scopus index)
19. **Vidya B** and D. Manasaa, "Utilization of waste PVC plastic as a partial replacement of fine aggregate in concrete", communicated to *Journal of material sciences*
20. **Vidya B** and D. Manasaa "Microstructure study on High strength concrete and Standard concrete subjected to thermal cycles", communicated to *International Journal of Management Technology and Engineering*.
21. **Vidya B** and K. Srinivasa Rao, "Thermo-mechanical behaviour of standard and high strength concrete subjected to thermal cycles", accepted in "Recent Advances in Computational and Experimental Solid/Fluid Mechanics" book by Springer Nature.

ACADEMIC DUTIES:

1. Worked as a NBA coordinator for the Department of Civil Engineering.
2. Actively involved in NAAC work (criterion -6).
3. Assigned as a coordinator for the professional body – The Institution of Engineers (India), and organized many events under the banner of IEI.
4. Worked as a Project coordinator for the final year students in reviews for all batches since 2015.
5. Representative to the Library from the Civil Engineering Department in 2018.
6. Assigned as a B. Tech coordinator and counselled students continuously regarding their performance.
7. In charge of the concrete laboratory since 2015 and done many consultancies works on material testing for the works occurred in and around college.
8. Innovatively developed High strength concrete of M 90 grade along with 2018 and 2019 admitted batch and grabbed first prize in International fest organized by GITAM (deemed to be university) and also grabbed first and second prize in Andhra University fest.
9. Attended as an external examiner for B. Tech and M. Tech projects at Andhra University for 10 years.

Conference/ seminar/ workshop/ fdp attended: (last three years)

1. Attended online training program on "Disaster risk reduction in resilient infrastructure" organized by Department of Civil Engineering, Andhra University College of Engineering, 30th September to 2nd October, 2020.
2. Attended and presented a conference paper entitled "Thermo-mechanical behaviour of standard and high strength concrete subjected to thermal cycles, first online conference- International conference on recent advances in computational and experimental

mechanics (ICRACEM), September 4-6, 2020, **IIT KHARAGPUR**.

3. Attended 5- day compressive training program on Energy Conservation Building Code (ECBC), successfully passed the exam and awaiting for the **License**, organized by Administrative staff College of India, February 2020.
4. Successfully completed faculty development program on STADD PRO organized by Andhra Pradesh State Skill Development Corporation, Government of Andhra Pradesh, June 2020.
5. Successfully completed faculty development program on E-Tabs organized by Andhra Pradesh State Skill Development Corporation, Government of Andhra Pradesh, June 2020.
6. Attended NPTEL faculty development program on “Design of Reinforced concrete structures”, received **ELITE + SILVER**, November, 2019.
7. Attended Indo-China Research webinar series in civil and environmental engineering, Vardhaman College of Engineering, Hyderabad, Indian Geotechnical Society - Surat Chapter, 8-15th May 2020.
8. Attended online faculty development program on NAAC Awareness program organized by Marathwada Mitra Mandal institute of technology, Pune, May, 2020.
9. Attended webinar on “Piles in soft clay- Field Experience”, organized by Indian Geotechnical Society, Gunter Chapter, May 2020.
10. Attended webinar on “Field Testing Techniques in Geotechnical Engineering”, organized by GMRIT, 21st May, 2020.
11. Attended online faculty awareness program on outcome based education (OBE) and NBA accreditation, organized by Sinhgad Institute of Technology and Science, Pune, May 2020.
12. Attended online faculty development program on outcome based education, organized by Vmedulife software services, May 2020.
13. Attended online faculty development program on “Universal Human Values and Professional Ethics”, organized by Chebrolu Engineering College, Kakinada, May 2020.
14. Attended online faculty development program on “Recent Avenues in Civil Engineering”, organized by Narasimha Reddy College of engineering, Hyderabad, May 2020.
15. Participated in the Webinar on “Issues Related to Seismic Design of Foundations” organized by Department of Civil Engineering, Andhra University College of Engineering, 11th July 2020.
16. Participated in Five-Day Faculty Development Program on “Trends In Transportation”, Organized by Department of Civil Engineering, Gayatri Vidya Parishad College for Degree & PG Courses (A), 6th July to 10th July 2020.
17. Participated in a webinar on Open-Source Tools & Softwares in Remote Teaching and Learning organized by, Gayatri Vidya Parishad College for Degree and PG Courses(A), 5 July, 2020.
18. Attended one day seminar on “Advances in Civil Engineering” at Gayatri Vidya Parishad College for degree and PG Courses, 17th August, 2019.
19. Attended faculty development program on “Autocad” at Gayatri Vidya Parishad College

of Engineering, 11th to 15th February, 2019.

20. Attended faculty development program on “Autocad” at Gayatri Vidya Parishad College of Engineering, 11th to 15th February, 2019.
21. Attended one day seminar on “Advances in Civil Engineering” at Gayatri Vidya Parishad College for degree and PG Courses, 17th August, 2019.
22. Attended faculty development program on “Introduction to Revit Architecture” at Gayatri Vidya Parishad College for Degree & P.G Courses, 1st & 2nd August, 2018.

ACADEMIC GUIDANCE:

1. Analysis and design of multi-storied residential buildings, M. Naveen, T. Sri Harish, S. Raghu, Ch. Vamsi Krishna, CH. Naga Mohini, D.S.L. Anusha, 2010.
2. Development of High strength concrete (M 80), B. Sheeba Rani, D. Sandhya valli, D. V. Kameswari, D. DhanaSree, D. Sireesha, E. Eniyazhal, G. Anusha, G.P.N.S Bhavani, J. Prerana, V.J. Manasa 2014.
3. Comparative study of strengths on steel fibre reinforced concrete with different aspect ratio, K. Sree Sandhya, K. Geetha Sree, K. Kanthi, M. V. Lakshmi, I. Harshini, V.V.S. Niharika, K. Vineela, Y. Satya Veni B. Sunitha, B. Yerni Kumari, G. Satya Kala, 2015.
4. Experimental Investigation of Waste Glass Powder as Partial replacement of cement and sand, R. Chinna Rao, S. Sai Tejaswi, 2015.
5. Effect of accelerated corrosion on steel fibre reinforced concrete, S. Siva Sai Singh, P. Harish naidu, CH. Bhuvanesh, B. Vinay Kumar, 2015.
6. Comparative study of symmetric structure with floating and non-floating column under seismic condition, B.V. Sai Kiran, U. Ganga Raju, A. Bharat Kumar, P. Chandra Sekhar, JaiDeep .K, P. Aravid Praveen Kumar, P. Monica, S. Chinna Babu, 2016.
7. A study on development of high strength concrete of grade (95 Mpa) using different superplasticizer, Blessy Zion, 2016.
8. Effect of thermal cycles on compressive strength of M 30 and M 90 grade concrete, K. Manoj Kumar, B. Kalyan, B. V. Avinash, MD. Ashique Ismail, D. Mahesh Kumar, P. Pavani Priya, K. Satish, 2017.
9. Effect of thermal cycles on flexural strength high strength concrete (M 90) compared to standard concrete (M 30), R. Sushma, R. Rohit Babu, CH. Appala Naidu, S. Sarath Kiran, Y. Pawan Krishna, 2017.
10. Effect of thermal cycles on split tensile strength high strength concrete (M 90) compared to standard concrete (M 30), K. Srinivasa Rao, T. Satya Sameera, T. B. Bushan Gupta, O. Chandra Sekhar, K. Pavan Kumar, K. Sravan Kumar, CH. Vijayakar, 2017
11. Study on No-fines concrete with partial replacement of cement by GGBS, V.V. Sai Krishna Teja, D.S.S. Nuthan Varma, CH. Pranay, D. Charan, Y. Deepthika, 2018.
12. Mechanical properties of field demolished aggregate concrete, N. Sravani, K. Manisha, G. Lakshmana Rao, N. Praveen, S. V. S. Goutham, 2018.
13. Analysis and Design of four legged transmission towers with different bracings and sections, K. Lakshman, S. Varahalu and G. Tirumala Rao, G. Vinay, S. Deepak, 2019.
14. Study on the effect of PVC waste as a partial replacement in concrete, Janardhan CH, Sri Harsha P, Venkata naidu B, Sai Sasidhar Reddy CH, 2020.

EXPERIENCE:

Total Teaching Experience = 13 years

College	Designation	Period
Gayatri Vidya Parishad College for Degree and PG Courses (A)	Associate Professor	5th April, 2021 to till date
Gayatri Vidya Parishad College for Degree and PG Courses (A)	Assistant Professor	Feb 2015 to 3rd April, 2021
Dr. Lankapalli Bullayya College of Engineering (W), Resavanipalem	Assistant Professor	October 2010 to January 2015
Varaha Educational Institutions, Narava	Assistant Professor	June 2010 to September 2010
Vishwanadha Institute of Technology and Management, Anandapuram	Assistant Professor	Dec 2007 to May 2010

PERSONAL ACHIEVEMENT:

- Top Teaching Feedback for Academic year 2019-2020.
- Ratified as an Assistant Professor in Civil Engineering by Andhra University in December, 2015
- Topper of the M. Tech. Structural Engineering, 2008-2010 batch, Andhra University.
- Attained state wide 19th Rank in PGECET-2008

PERSONAL DETAILS:

Name : Dr. Vidya B
Father's Name : Uma Maheshwara Rao
Date of Birth : 16-04-1985
Marital status : Married
Nationality : Indian
Religion : Hindu
Language Known : English, Telugu
Present Address : W/o B. Mahesh Kumar
D/o No: 45-48-6/3,
Abid Nagar, Akkayapalem
Visakhapatnam- 530016.

Declaration:

I hereby submit my resume for your kind perusal and consideration so as to provide a platform to bring the best of my knowledge, experience and skills for all round development of the esteemed firm and last but not the least to achieve success by attaining personal growth satisfaction.

Place: Visakhapatnam

yours faithfully,

Date:

(Dr. VIDYA B)