

## Dr A.H.L.SWAROOP

**Address:** Flat No; 501, Lucky Homes, Opp) K.T.R.College GUDIVADA Krishna(Dt), A.P- 521301

**Mobile:** + (91) 9491678603 | **Email:** [ahlscivil@gmail.com](mailto:ahlscivil@gmail.com), [ahls@gecgudlavalurmic.in](mailto:ahls@gecgudlavalurmic.in)

### CAREER OBJECTIVE

To obtain a position of responsibilities that utilizes my skills and experience and keen to work in an environment where I can enhance my knowledge.

### PERSONAL DOSSIER

- Date of Birth** : 14<sup>th</sup> November 1985
- Languages Known** : English (SRW), Telugu (SRW), Hindi(SRW)
- Nationality** : Indian
- Scopus Id** : 57202610234
- Orcid ID** : 0000-0003-1139-1417
- Vidwan ID** : 198953

### EDUCATIONAL CREDENTIALS

- AICTE PG Certificate Program in Machine Learning from IIIT, Raichur in July 2024**
- Ph.D in Civil Engineering** from Andhra University, Visakhapatnam in August, 2022.
- Master of Engineering** in Structural Engineering in 2011 from AU, Visakhapatnam
- Master of Business Administration (HR&CM), in IIBMS, Hyderabad** with First Class
- Bachelor of Technology** (Stream: Civil Engineering), (2003-2007)  
Bapatla Engineering College, Acharya Nagarjuna University, Andhra Pradesh (72.8%)
- Intermediate Education** (Stream: Maths, Physics, Chemistry), (2001-2003)  
Sarada Junior college, Srikakulam, Board of Intermediate Education, Andhra Pradesh (83%)
- SSC**, Ramakrishna Residential School, Visakhapatnam, (2000-2001) (81.5%)

### WORKING EXPOSURE

DESIGNATION	INSTITUTION	PERIOD
Associate Professor & HoD	Seshadri Rao Gudlavaluru Engineering College	December 2023 to till date
Associate Professor	Seshadri Rao Gudlavaluru Engineering College	July 2023 to November 2023
Sr.Gr Assistant professor	Gudlavaluru Engineering College	June 2016 to June 2023
Assistant professor	Gudlavaluru Engineering College	May, 2012 to May 2016
Sr.Lecturer & HOD(i/c)	A.A.N.M&V.V.R.S.R Polytechnic, Gudlavaluru	June 2009- May 2012
Lecturer	Bapatla Engineering College, Bapatla	August 2008 to April 2009
Jr Engineer	B.E.&Billimoria Co Ltd	July 2007 to July 2008

## TRAININGS/WORKSHOPS

S.No	Title	Duration	Organizers Details
1	Training teachers for Excellence	May, 2011	A.A.N.M. & V.V.R.S.R. Polytechnic, Gudlavalleru
2	Global Positioning Systems	September, 2011	NITTTR, Chennai
3	Natural Hazards—Role of Civil Engineers	August, 2012	GEC, Gudlavalleru
4	Recent Advances in Civil Engineering	September, 2012	DMSSVH, Machilipatnam
5	Special Concretes	November, 2012	IE(I), Vijaywada
6	Aakash For Education	November, 2012	IIT, Bombay
7	Engineering Mechanics	December 2013	IIT, Bombay
8	Fluid Mechanics	May, 2014	IIT, Kharagpur
9	Entrepreneur Technology Programme	February, 2015	ISB, Hyderabad
10	Structural Engineering Solutions Using STAAD Pro	May, 2015	VRSEC, Vijaywada
11	ANSYS Applications	June, 2015	GEC, Gudlavalleru
12	Introduction to Structural Engineering	January, 2016	IIT, Kharagpur
13	Outcome based Education	June, 2016	NIT, Warangal
14	Advances in Civil engineering Software	August, 2016	VRSEC, Vijaywada
15	Pre-stressed concrete structures	March, 2017	NIT, Warangal
16	Stability Design of Steel buildings	November, 2017	IIT, Madras
17	Advancements in Construction Materials	June, 2018	GEC, Gudlavalleru
18	Design of Structures-A Practical Approach	November, 2018	GEC, Gudlavalleru
19	Effects of Soil Structure Interaction on structures against static and dynamic loads	February, 2020	GEC, Gudlavalleru
20	Civil Engineering Research-A Step Forward	May, 2020	GEC, Gudlavalleru
21	Recent Advancements in Special Concretes	October 2020	GEC, Gudlavalleru
21	Innovations in Civil Engineering	March, 2021	GEC, Gudlavalleru
22	FDP Python Programming	August, 2021	ECT Academies, IITs & NITs
23	Hands on Training with ETABS Software	March, 2022	SRGEC, Gudlavalleru
24	Training Program for Q Leaders on NAAC Accreditation	May, 2022	APSCHE, AP
	Matlab Applications in Civil Engineering	March, 2024	SRGEC, Gudlavalleru
25	Disaster Risk reduction through Sustainable Infrastructure	December, 2024	RCE, Eluru
26	Applications of Matlab in Civil Engineering	February, 2025	NITW & SRGEC
27	Awareness on NABL Accreditations	July 2025	SRKR, Bhimavaram
28	Next Gen Highrise buildings	July 2025	ACCE, Hyderabad

**National conferences/seminars attended:**

S.No	Title	Duration	Organizers Details
1	Fire safety in Public Buildings	November,2004	KITS,Warangal
2	Durability Studies on concrete	April,2007	JNTU,Anantapur
3	NCIET	December,2013	GEC, Gudlavalleru
4	Recent Developments in Retrofitting, Repairs and Rehabilitation of Structures	July,2015	GEC, Gudlavalleru
5	COVID19-Innovations in Teaching, Learning and Assessment strategies”	January,2021	KLU, Vijaywada
6	Seismic behavior of existing elevated water tanks Resting on different type of foundations	September,2021	BEC,Bapatla

---

**PROJECTS**

---

- **P.hD Thesis:** Response of coastal structures in different soil conditions against tsunami forces and studies on associated scouring phenomenon.
- **M.Tech Dissertation :**Response of an Overhead Service Reservoir for dynamic forces considering Soil-Structure Interaction
- **B.Tech Project:** Durability studies on concrete with partial replacement of cement with fly ash and GGBS

---

**OTHERS**

---

- Scored Gate rank 807 in GATE 2007.
- Scored MAT Score of 74 percentage.
- Scored Rank 35 in AURCET 2013’
- Question Paper Setter for various Autonomous Engineering Colleges
- Examiner for Theory and Labs for JNTUK Examinations and various Autonomous Engineering Colleges.
- College Level Associate coordinator for NAAC from 2022 to 2023
- Time Table coordinator for the AY 2013-14&2014-15
- NAAC department coordinator for 2014 session
- NBA department coordinator for 2016 & 2021
- BOS Chairman from December 2023 onwards
- Member BOS of Civil Engineering from 2014 onwards
- Department Examination Coordinator from 2019-20 to 2021-22
- Department Budget Coordinator for 2014-17 &2022 onwards
- Department Programme committee, Advisory committee member from 2014 onwards

**Membership in Professional Bodies:**

- Member of Institute of Engineers (IE)---M160676-4
- Member of American Society of Civil Engineers (ASCE)
- Member of Indian society for Technical Education-LM136347
- Member of Indian Concrete Institute

**Consultancy activities:**

Actively participating in consultancy activities like Material testing, Design of structures, Non Destructive Testing etc for various Public and Private Organizations.

---

**SOFTWARE SKILLS**

---

- *Well versed with AUTOCAD, Staad Pro, SAP, ETabs.*

---

**IN HOUSE R&D PROJECTS**

---

S. No.	Year	Date	Name of the Investigators	Title of the Project	Amount (₹)	Status
1	2020-21	17-12-2020	Sri. A. H. L Swaroop,	Diagnosis of Structural Health Conditions of GEC Main Building by using Advanced Non-Destructive Techniques	50,000	Completed
2	2022-23	31-01-2023	Dr. A. H. L. Swaroop, Mr. S. Arun Chaitanya, Dr. P. Kodanda Rama Rao	An Experimental Investigation and Analysis on Partial Replacement of Cement with Bio-Medical Waste Ash in Concrete- A Step towards Environmental Sustainability	60,000	Completed

---

**PAPERS PUBLISHED**

---

**Papers Published in Journals:28+1\*(Accepted)**

**A) SCI/ESCI:02**

1. A.H.L.Swaroop et al “Evaluation of progressive collapse behavior in reinforced concrete buildings” Structures ISSN: 2352-0124 Volume 45, November 2022(Elsevier Science Direct Journal –SCIE)
2. Dr A.H.L.Swaroop et al “ Performance measurement the additions of sawdust in the brick with the expansive soils” International Journal of System Assurance Engineering and Management ISSN: 0976-4348 Volume 16 Issue 7 July 2025 (SCI/Scopus Indexed Journal)

## **B) Scopus Indexed:05 +01\***

3. D.Vaneela ,**A.H.L.Swaroop**,Sk.YajDani, “**Seismic Behavior of RC Framed Residential Building Considering Soil Structure Interaction**”, International Journal of Civil and Structural Engineering Research ISSN 2348-7607 (Online) Vol. 4, Issue 1, pp: (203-210), Month: April 2016 - September 2016 (**Scopus Indexed Journal**)
4. **A.H.L.Swaroop**,Sk.YajDani,S.R.K.Reddy “**Response Of Structures Against Tsunami Forces Under Different Soil Conditions**”ARPN Journal of Engineering and Applied Sciences VOL. 13, NO. 11, JUNE 2018pp 3686-3691 (**Scopus Indexed Journal**)
5. **A.H.L.Swaroop**,Sk.YajDani,S.R.K.Reddy “**Influence Of Tsunami Induced Scouring Action On Foundation Stability Of Coastal Structures**”International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 7, July 2018, pp. 889–894, (**Scopus Indexed Journal**)
6. Naga Prathyusha S **A.H.L.Swaroop** , “Strength and Durability Properties on Fiber Reinforced Concrete by Replacing Fine Aggregate with Stone Powder” International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online), Volume-8 Issue-2, July 2019 (**Scopus Indexed Journal**)
7. N.Kiran kumar **A.H.L.Swaroop**, “**A Hybrid Crack Detection Approach of Depth Estimation for 2D Building**” Gradiva Review Journal ISSN NO : 0363-8057 Volume 08, Issue-10, September 2022 (**Scopus Indexed Journal**)
8. **Dr A.H.L.Swaroop et al** “Application of Machine learning for crack detection on concrete structures using CNN Architecture” Goya journal, ISSN:0017-2715 Volume 18, Issue-4, April 2025 (**\*Scopus Indexed Journal Accepted**)

## **C) Science Direct/Web of Science : 03**

9. Dr A.H.L.Swaroop et al “Development and applications of different types of green biosorbents for eliminations of hardness from water: A review on treatment, kinetics mechanism and future scope” Advances in Biomarker Sciences and Technology 6 (2024) ISSN: 2543-1064 (**Elsevier Science Direct Journal**)
10. Dr A.H.L.Swaroop et al “Synthesize and applications of green custard apples leaves biosorbents for adsorptions of sulphates and fluorides from water” Environmental Surfaces and Interfaces Volume 3 , November 2024 1–23 ISSN: 2949-8643, (**Elsevier Science Direct Journal**)
11. Dr A.H.L.Swaroop et al “Eco Friendly -Efficient M25 Concrete: A Performance Study Incorporating Industrial and Agricultural By products for Sustainable Construction” NOVYI MIR Research Journal ,ISSN NO: 0130-7673 Volume 10 Issue 7 July 2025(**Web of Science Journal**)

#### **D) UGC Care :05**

12. **A.H.L.Swaroop**.P.Kodanda Rama Rao “**COVID’19-A Disaster to Construction Industry**”, Journal of Interdisciplinary Cycle Research ISSN NO 0022-1945, Volume XII, Issue IX, September 2020 (**UGC Care Journal**)
13. **A.H.L.Swaroop**, “**Experimental Investigation Of M35 Grade Standard Concrete By Partially Replacing Natural Fibres, Foundry Sand And Sea Sand**”, Juni Khyat Journal. ISSN 2278-4632, Volume 12, Issue 09, No 01, September, 2022. (**UGC Care Journal**)
14. Dr A.H.L.Swaroop et al “**A Study On Strength Characteristics Of Self Compacting Concrete By Partial Replacement Of Cement With Metakolin And Flyash**” International Journal of Creative Research Thoughts (IJCRT) ISSN: 2320-2882 Volume 11, Issue 4 April 2023 (**UGC Care Journal**)
15. Dr A.H.L.Swaroop et al “**An Experimental Investigation On Self-Compacting Concrete With Partial Replacement Of Cement With Incinerated Biomedical Waste Ash**” Journal of Emerging Technologies and Innovative Research (JETIR) (ISSN-2349-5162) Volume 11, Issue 4, April 2024 (**UGC Care Journal**)
16. Dr A.H.L.Swaroop et al “**Experimental Investigations On Performance Of Biomedical Ash In Concrete**” Journal of Xidian University ISSN No:1001-2400 Volume 18, Issue 4, 2024 (**UGC Care Journal**)

#### **E) Other Journals :13**

17. **A.H.L.Swaroop**, K.Venkateswara Rao, Prof P.Kodanda Ramarao, —”**Durability studies on Concrete with Flyash and GGBS**” International Journal of Engineering Research and Applications (IJERA) ISSN:2248-962 www.ijera.com Vol.3, Issue 4, Jul-Aug 2013, pp.285-289
18. Phanikumar. V, G.Sai krishna, **A.H.L.Swaroop** “**Sealing of Sandy soil ponds with claylayer**”, International Journal of Engineering and Innovative Technology (IJEIT), ISSN: 2277-3754, Volume 3, Issue 1, July 2013, pp- 49-52.
19. **A.H.L.Swaroop**, K.Venkateswara Rao, Prof P.Kodanda Ramarao, “**Experimental Investigations on durability characteristics of concrete developed by using brick powder (bp) and quarry dust**”, International journal of civil engineering and Technology (ijciet) ISSN 0976 – 6308(Print) ,ISSN 0976 – 6316(Online) Volume 6, Issue 1, January (2015), pp. 86-96
20. K.Venkateswara Rao, **A.H.L.Swaroop**, Dr P.Kodanda Ramarao “**Study on Strength Properties of coconut Shell Concrete**”, International journal of civil engineering and Technology (ijciet) ISSN 0976– 6308 (Print) ,ISSN 0976 – 6316(Online) Volume 6, Issue 3, March (2015), pp. 42-61

21. K.VenkateswaraRao, **A.H.L.Swaroop**, K Dhanasri, K Sailaja “**Study On Strength Properties Of Low Calcium Based Geopolymer Concrete**”, International journal of civil engineering and Technology (ijciet) ISSN0976–6308(Print), ISSN0976–6316(Online) Volume6, Issue11, November(2015), pp. 149-155
22. **A.H.L.Swaroop**, Sk.YajDani, S.R.K.Reddy “**Response of Coastal Structures against Tsunami Forces and Mitigation Measures**”, International Journal of Innovative Research in Science, Engineering and Technology ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710 Vol. 5, Issue 4, April 2016, pp. 5884-5889
23. G.Vamshi Krishna, **A.H.L.Swaroop**, “**Strength And Durability Properties Of M30 Grade Of Concrete By Using Fly Ash And Ceramic Wastes**”, International Journal of Informative & Futuristic Research ISSN: 2347-1697, Volume 3 Issue 10 June 2016, Page No. 3881-3892
24. P Vamshi Krishna, **A.H.L.Swaroop**, “**Experimental Study on High Strength Self Compacting Concrete Using Nano Silica**”, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Volume 6, Page No. 2685-2689
25. P Subhash Bhargava, **A.H.L.Swaroop**, “**Comparative Analysis on Response of a School Building against Gravity, Earthquake and Tsunami forces**”, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 04 Issue: 05 | May -2017, Page No: 1839-1847
26. **A.H.L.Swaroop**, Sk.Yazdani, S.R.K.Reddy, “**Response of Coastal structures against Tsunami Forces and its Variation when impact load is Applied on Exterior and Interior Columns under Different Soil conditions**”, International Journal of Recent Technology and Engineering (IJRTE) ISSN : 2277-3878, Volume 8 Issue-5, January 2020.
27. **A.H.L. Swaroop**, “**Experimental Investigation on Strength Characteristics by partial Replacement of fine aggregate with Quarry dust & Cement with Fly ash in concrete**” International Journal of Advances in Engineering and Management” ISSN: 2395-5252, Volume 2, Issue 7, pp 505-509. September 2020
28. **A.H.L. Swaroop**, “**Planning, Analysis and Design of Minister’s Head Quarters with STAAD-Pro**”, International Research Journal of Modernization in engineering Technology and science ISSN: 2582-5208, Volume 02, Issue-09, September 2020
29. Dr A.H.L.Swaroop et al “**Analysis and Design of G+5 Floors Apartment Building** International Journal of Innovative Science and Research Technology ISSN No: -2456-2165, Volume 8, Issue 4, April – 2023”

## **Papers Published in National Conferences/Seminars: 06**

### **A) Scopus Indexed :03**

1. **A.H.L.Swaroop et al** “**Krishi Rakshan - A New Recommendation System To The Farmer**”, International Conference on Intelligent Computing and Control Systems [ICICCS 2022], 25-27, May 2022, Madurai, India. (Scopus indexed)
2. **A.H.L.Swaroop et al** “**Seismic behavior of existing elevated water tanks resting on different type of foundations**” ISTCE 2021 IOP Conf. Series: Earth and Environmental Science 982 (2022) 012082 IOP Publishing doi:10.1088/1755-1315/982/1/012082 .organized by bapatla Engineering College (Scopus indexed)

3. A.H.L.Swaroop et al “ Strategic Miner Selection for Optimizing Block Generation Time in POW- Based Blockchain Pool Mining Using SMNST Framework , Proceedings 2024 Oits International Conference on IT OCIT2024. DOI: 10.1109/OCIT65031.2024.00125

## **B) Other Conferences:04**

1. **A.H.L.Swaroop**,M.U.P.Harshita, “Experimental Investigations on Durability characteristics of concrete with GGBS and Flyash under severe conditions”, National conference on Innovations in Engineering & Technology NCIET 2013ISBN978-1-4276-5484-7,pp446-452. On 27th &28th December 2013at Gudlavalleru Engineering College,Gudlavalleru.
2. **A.H.L.Swaroop**, S.R.K.Reddy,P.K.RamaRao, K.Venkateswara Rao, “Seismic Evaluation and Retrofitting of R.C. Columns using Jacketing technique”, National Seminar on Recent Developments in Retrofitting, Repairs and Rehabilitation of Structures ISBN 978-1-4276-5542-4 pp 12-19 on 11th &12th July 2015 at Gudlavalleru Engineering College,Gudlavalleru.
3. **A.H.L.Swaroop**,D.Vaneela,G.VamshiKrishna,“Retrofitting of Reinforced Structures using Lowcost Materials”, National Seminar on Recent Developments in Retrofitting, Repairs and Rehabilitation of Structures ISBN 978-1-4276-5542-4 pp 60-72 on 11th &12th July 2015 at Gudlavalleru Engineering College,Gudlavalleru.
4. **A.H.L.Swaroop**, “Diagnosis of Structural Health Conditions of G.E.C Main Building by using Advanced Non-Destructive Techniques” Online International Conference on Advancements andInnovations in Civil Engineering (ICAICE’22),17-18,December,2021, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.

---

## **PATENTS**

1. **A.H.L.Swaroop**, had published an Indian patent on “Experimental Investigation of Partial Replacement of Fine Aggregate by Stuck Stone Dust and Maguni” on 13/05/22.
2. **A.H.L.Swaroop**, had published an Indian patent on “Smart Construction for Composition and building Materials” on 22/07/22
3. **A.H.L.Swaroop**, has been granted an Indian patent on “ Touch Controlled Concrete Hardness Testing Device” on 19/06/2023

---

## **DECLARATION**

I hereby declare that all the information provided above are true, complete and correct to the best of my knowledge and belief



**(Dr A.H.L.SWAROOP)**