

CURRICULAM VITAE



Name Dr. D. Annapurna

Father's Name Mr. D. Satyanarayana

Date of Birth 12th March, 1980

Marital Status Married, one son and one daughter

Present Position & Office Address Professor
Department of Civil Engineering
University College of Engineering (A)
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❖ Academic Qualifications

Ph.D.(Civil Engineering) University College of Engineering,
Osmania University, Hyderabad
Title of Ph.D. Thesis: "Strength and durability studies on
Fly ash and GGBS based Geopolymer concrete"

M.E. (Structural Engineering) University College of Engineering,
Osmania University, Hyderabad, (2003)

B. Tech (Civil Engineering) Sri Krishna Devaraya University, Ananthapur, (2001)

❖ Teaching Experience

1st July 2020 to till date Professor, Department of Civil Engineering, UCE, OU,
Hyderabad

1st July 2017 to 30th June 2020 Associate Professor, Department of Civil Engineering,
UCE, OU, Hyderabad

1st July 2014 to 30th June 2017 Asst. Professor (Selection Grade), Department of Civil
Engineering, UCE, OU, Hyderabad

1st July 2009 to 30th June 2014 Asst. Professor (Senior Scale), Department of Civil
Engineering, UCE, OU, Hyderabad

1st July 2007 to 30th June 2009 Asst. Professor, Department of Civil Engineering, UCE,
OU, Hyderabad

1st July 2005 to 30th June 2007 Asst. Professor, Department of Civil Engineering,
VNRVJIET, Hyderabad

1st July 2004 to 30th June 2005 Asst. Professor, Department of Civil Engineering, SVITS,
Mahabub Nagar

❖ Professional Experience

March 2003 to June 2004

CAD/GIS Engineer, RM Software India Ltd., Banjara Hills, Hyderabad

❖ Administrative Experience

- In charge –Concrete and Testing Materials Lab, computer lab in-charge
- I year class test in-charge
- Department startup facilitator
- Department Convener for admission into ME-PTPG
- Department committee member
- Department seminar library in-charge
- Department time table in-charge and overall time table in-charge
- Faculty Advisor-Infrastructure Engineering & Structural Engineering
- Department Coordinator, TEQIP & RUSA
- Additional Chief Superintendent of Exams, UCE,OU
- Special Officer, Infrastructure, UCE,OU

❖ Areas of Research/ Interest

- Sustainable materials
- Special Concretes
- Numerical analysis of concrete
- Durability aspects of concrete
- Design of structures
- Computer aided analysis and design of structures

❖ Subjects taught at U.G. and P.G. level

At UG Level	At PG Level
Concrete Technology	Theory of Elasticity
Theory of Structures	Advanced Concrete Technology
Building Materials Construction and Drawing	Prestressed concrete
Reinforced Cement Concrete	Structural Design
Pre stressed Concrete	Construction equipment and methods
Strength of Materials	Construction planning and scheduling
Engineering Mechanics	Value Engineering
	Structural Health Monitoring
Engineering Graphics	Retrofitting and Rehabilitation of structures
Fluid Mechanics	
Environmental science	

❖ Research Publications

➤ Scopus Indexed Journals

1. P.Anuradha,D.Annapurna, K.L.Radhika, Flexural behaviour of Hybrid and Graded Fibre Reinforced Concrete, Low Carbon Materials and Technologies for a Sustainable and Resilient Infrastructure, Lecture Notes in Civil Engineering, Scopus Indexed Journal, Volume 440, ISSN:2366-2577, 2023, Pp:433-444
2. D. Annapurna, Ezatullah Yaqubi, P.Anuradha, K.L.Radhika, Seismic response of RC framed irregular structures, Materials Today Proceedings, Page:530-537, Elsevier, 2023
3. D.Annapurna, Ravande Kishore, Water and Chemical penetration characteristics of graded Geopolymer concrete, Materials Today Proceedings, Elsevier,2023
4. D. Annapurna, Ravande Kishore, Development of Graded Geopolymer Concrete, The Indian Concrete Journal, July 2019, pp:34-40
5. D. Annapurna, Ravande Kishore, Influence of Alkali Silica Reaction on Geopolymer Concrete, Select proceedings of ASCM 2019, Lecture notes in civil engineering, Springer, volume 68, pp:61-71
6. D. Annapurna, Ravande Kishore, K.Anil (2020), Effect of different aggregates on alkali silica reaction of Geopolymer concrete, In: Satapathy S., Raju K., Molugaram K., Krishnaiah A., Tsihrintzis G. (eds) International Conference on Emerging Trends in Engineering (ICETE). Learning and Analytics in Intelligent Systems, vol 2. Springer, Cham. https://doi.org/10.1007/978-3-030-24314-2_2
7. D. Annapurna, Ravande Kishore, Experimental and analytical studies on flexural behavior of Geopolymer concrete, The Indian Concrete Journal, December 2017, Vol.91, No.12,pp 45-50.

➤ International Journals

1. Hadi Faizal Mohiuddin Khaza,D.Annapurna, An experimental investigation on flexural strength of bamboo reinforcement concrete , International Journal of Emerging Technologies and Innovative Research, Vol.11, Issue 9, page no.c162-c170, September-2024, ISSN:2349-5162
2. P.Anuradha, Ezatullah Yaqubi, D.Annapurna, A comparative study of pounding effect on Multi storied building with and without shear wall, International Journal of Innovative Science and Technology, Volume 7, Issue 12, December 2022.
3. D.Deepthi Carol , D.Annapurna, An Investigation On Service Life & Mgo Use In Green Cement, International Journal of Emerging Technologies and Innovative Research, Vol.10, Issue 6, page no.k306-k314, June-2023
4. G. Sushma, D.Annapurna, Development of Artificial Neural Network Model for Geopolymer Concrete, International Journal of Emerging Technology and Advanced Engineering, 2250-2459, Volume 8, Special Issue 5, May 2018,ISBN: 978-93-8935-488-1.

5. Sultan Saleh Al-Tais, Annapurna, Experimental Investigation on Volcanic Ash – Based Geopolymer Concrete, International Journal of Engineering Technology Science and Research, ISSN 2394 – 3386, January 2018, Volume 5, Issue 1
6. Annapurna, Ravande Kishore, Evaluation of mechanical properties of Fly ash and GGBS based Geopolymer concrete, Journal of Emerging Technologies and Innovative Research (JETIR), December 2017, Volume 4, Issue 12
7. Annapurna. D, Ravande Kishore, Influence of Calcium Content on Micro Structure of Geopolymer Mortar, International Journal of Emerging Technology and Advanced Engineering, E-ISSN 2250–2459, December 2017, Volume 7, Special Issue 2, ,pp no.473-478
8. Annapurna. D, Ravande Kishore, Influence of calcium content on durability of geopolymer mortar, International Journal of Chem Tech Research, 2017, Vol.10 No.4, pp 311-317
9. Annapurna. D, Ravande Kishore, “A study on microstructure of fly ash & GGBS based Geopolymer concrete”, International Journal of Science and Innovative Engineering & Technology, May 2017, issue Volume 4
10. D. Annapurna, Ravande Kishore, M. Ushasree , “Comparative study of experimental and analytical results of geopolymer concrete” , International Journal of Civil Engineering and Technology-ISSN-0976, Vol 7 ,Issue 1, Jan-Feb-2016, pp-211-219.
11. D. Annapurna, Ravande Kishore, G. Vikas ,”Effect of Alkaline Liquid ratio on compressive strength of Geo Polymer Concrete”, International Journal of Research in Engineering and Technology, Feb-2015, eISSN-2319-1163, pISSN: 2321-7308, Vol 4, Special Issue-01
12. D. Annapurna, N. Sriram, “Comparative study of seismic analysis of a normal building and building with floating columns”, International Journal of Research in Engineering and Technology, Dec-2015, eISSN-2319-1163, Vol 4, Special issue-13
13. D. Annapurna , Mr. N. Venkata Ramana,” Mechanical properties of self curing concrete using polythelene glycol and fly ash as partial replacement”, International Journal of Earth Sciences and Engineering-ISSN-0974, Volume 7, No.4, , August-2014, pp-546-551

➤ **International Conference**

1. D. Annapurna, Ms. Deepthi Carol Devarapalli, An extensive study on a viable cement alternative using different activator combinations, Fourth international conference on sustainable energy, environment and green technologies, Poornima College of Engineering Jaipur, India. August 9-10, 2024
2. Rudra Amarnath Babu, D. Annapurna, Hydrodynamic and seismic analysis of balanced cantilever bridge, Third International conference on advances in concrete and construction engineering for sustainability (ICACC 2024), Organized by Vasavi college of engineering, April 26-27, 2024.
3. D. Annapurna, Ezatullah Yaqubi, P. Anuradha, K.L. Radhika, “Seismic response of RC framed irregular structures”, International UKIERI Concrete Congress, 14-17 March 2023, NIT Jalandhar

4. D. Annapurna, Abdul Hadi, Ezatullah Yaqubi, “Critical factors affecting quality performance of construction projects in Afghanistan”, International Conference on Cement and Building Concrete for a sustainable and Resilient infrastructure (CBKR 2023), 28-29 March 2023, NIT Warangal
5. Dr.P.Anuradha, Dr.D.Annapurna, Dr.K.L.Radhika, Flexural behaviour of hybrid and graded fibre reinforced concrete, International Conference on Cement and Building Concrete for a sustainable and Resilient infrastructure (CBKR 2023), 28-29 March 2023, NIT Warangal
6. D.Annapurna, Ravande Kishore, “Water and Chemical penetration characteristics of graded Geopolymer concrete”, Second International Conference on Construction Materials and Structures (ICCMS-2022) during 13-19 December, 2022, NIT Calicut.
7. D.Swetha Sudarshan Rao ,D.Annapurna, “ Prediction of compressive strength of Geopolymer concrete using NDT techniques and ANN tool” International Conference of construction materials and smart structures for sustainable development (ICCMSSSD 2020), 29th to 31st December, 2020,VNR Vignana Jyothi Institute of Technology & Science, Nizampet, Hyderabad.
8. Annapurna. D, Ravande Kishore, Effect of different aggregates on alkali silica reaction of Geopolymer concrete, International Conference on Emerging Trends in Engineering (ICETE), 22-23 March 2019, UCE,OU.
9. G. Sushma, D. Annapurna, Development of Artificial Neural Network Model for Geopolymer Concrete, 3 days International conference on Advanced computing applications in Civil Engineering, 20th -22nd April, 2018, Department of Civil Engineering, UCE,OU.
10. Sultan Saleh Al-Tais, Annapurna, Experimental Investigation on Volcanic Ash – Based Geopolymer Concrete ,2nd International conference on advancement in Engineering, applied science and management(ICAEASM-2018) 28th Jan-2018
11. Annapurna. D, Ravande Kishore, Performance of Geopolymer concrete in chemical environment, International conference on composite materials and structures-ICCMS-2017, 27-29th December-2017, IIT Hyderabad
12. Annapurna. D, Ravande Kishore, Mary Sowjanya, Analytical Modelling of Geopolymer Concrete Using Ansys Software, Proceedings of 62nd Congress of ISTAM, University College of Engineering, Osmania University, India, Dec. 15th -18th , 2017
13. Annapurna. D, Ravande Kishore, Influence of Calcium Content on Micro Structure of Geopolymer Mortar, IC-ISE-2017, CED-UCE-OU- 29th to 31st December-2017.
14. Prof. Ravande Kishore, M. A. Prasad, D. Annapurna, Prediction of compressive strength of Recycled Concrete using Fuzzy Logic, Emerging Trends in Civil Engineering-6th -8th , Jan. 2014, VNRVJIET, Hyderabad.
15. D. Annapurna, Mohid, Selection of contractor by using multiple decision making models, Emerging Trends in Civil Engineering-6-8, Jan. 2014, VNRVJIET, Hyderabad.
16. D. Annapurna, Venkata ramana, Mechanical properties of self curing concrete using polythelene glycol and fly ash as partial replacement, Emerging Trends in Civil Engineering-6-8, Jan. 2014, VNRVJIET, Hyderabad.

➤ **National Conference**

1. Annapurna, Rudra Amarnath, “Influence of various components on the analysis and design of balanced cantilever bridge”, 38th National convention of Architectural Engineers & National conference Decarbonizing cities Haemonizing building, mobility and Infrastructure, 19-20 November 2023, The Institution of Engineers (India), Indore.
2. Annapurna, Ravande Kishore, “Influence of Alkali Silica Reaction on Geopolymer Concrete, National Conference on Advances in Sustainable Construction Materials (ASCM 2019)”, NIT Warangal, 15-16 March, 2019.
3. Mary Sowjanya, Annapurna, Ravande Kishore, “Grade designation of Fly ash and GGBS based Geopolymer concrete”, 1st National conference on Advances in construction engineering for sustainability, ICFAI Tech School, Hyderabad, 6th October, 2017
4. Annapurna, Ravande Kishore, “Evaluation of mechanical properties of Fly ash and GGBS based Geopolymer concrete”, National conference on Recent trends in structural engineering, MCET, Hyderabad, October 6-7, 2017
5. Victor Ochieng Okowa, Meher Teja, Dinesh Chandra, Sai Bhargav, D. Annapurna, “A fuzzy logic model for estimating compressive strength of Geopolymer concrete”, National Conference on Sustainable materials and management systems in civil engineering, CBIT, HYD., 15-16 December, 2016
6. D. Annapurna, Ushasree, Ravande Kishore, “A study on flexural and split tensile strength of geo polymer concrete”, Recent Advances in Civil Engineering, RACE-2k15, CMR technical campus, HYD., 31 March, 2015
7. D. Annapurna and G. Vikas, Effect of Alkaline liquid ratio on the strength of geo polymer concrete (A theoretical approach), Recent Trends in Civil Engineering (RTCE-2015), at Gitam University, HYD., 20-21 February-2015
8. D. Annapurna, Laxmi Teja, A study on Fly ash based geo polymer concrete with bacteria, National Conference on RRACE-2014, CED, UCE, OU, HYD., 7th -8th November, 2014.
9. D. Annapurna, Ashok kumar, “Mechanical properties of concrete containing waste industrial lathe scrap fibres and micro silica”, National Conference on RRACE-2014, CED, UCE, OU, HYD., 7th -8th November, 2014.
10. D. Annapurna, Rajesh, “A study on mechanical properties of concrete with the addition of fly ash and foundry sand”, National Conference on RRACE-2014, CED, UCE, OU, HYD., 7th -8th November, 2014
11. D. Annapurna and L. Ajay Kumar, Analysis and Design of Steel and PSC composite Girder for cost comparison, Advances in Civil Engineering and Infrastructure Development (ACEID-2014), Vasavi College of Engineering, HYD., 6th-7th Feb. 2014.
12. Annapurna, A study on effect of steel fibres as shear reinforcement, RASE-2013, CED, UCE, OU, HYD.
13. Annapurna, Ajay Kumar, A study on Innovative admixture, RASE-2013, CED, UCE, OU, HYD.
14. Padmaja, Annapurna, A fuzzy model for the split tensile strength of concrete with

steel fibres, RASE-2013, CED, UCE, OU, HYD.

❖ **Reviewer**

- Reviewed two papers in Materials today proceedings, Elsevier Journal, March 2023
- Reviewed three papers in 2nd International conference on Emerging trends in Engineering (ICETE-2023), April 28-30, 2023, UCE, OU, Hyderabad

❖ **Books Published**

- Mrs. D. Annapurna, Mrs. S. Prasanna, AUTO CAD-Computer Aided Drafting of buildings, Academic Publishing Company, 2012

❖ **Conferences and workshops conducted**

- Coordinator for one week training program on **STAAD PRO & ETABS (Hands on Experience)** 16th to 21st September 2019
- Coordinator for one day workshop on Repair and Rehabilitation of structures, RRS-2018, 28th February, 2018.
- Co-coordinator for 2 day Workshop on Finite Element Methods (FEM-2016, 30th July, 2016.
- Organizing Secretary for two day national conference on Recent Research advances in Civil Engineering, RRACE-2014, 7th -8th November 2014.
- Co coordinator for 2 day Workshop on Engineering Research Methodology, 12th - 13th September, 2014.
- Co-Coordinator for one week Faculty Development program on MSC-NASTRAN (Hands on Experience), 12th to 17th May 2014.
- Coordinator One week **ATAL FDP** program on “Advanced Concrete Technologies” sanctioned by AICTE to be held from November 8-11 ,2021

❖ **Research Projects**

- Seed money project titled ” Optimum mixture proportions of Geopolymer concrete”, under TEQIP-II , UCE,OU,2015-16; Amount- Rs.1,00,000/-

❖ **Guest Lectures Delivered**

- Guest Lecture delivered on title “ CAD Applications (Building Drawing) in Civil Engineering” as a part of the ISTE-Short term training programming on CAD and Advanced Techniques for Polytechnic teachers at J.N. Govt. Polytechnic, Ramanthapur, Hyderabad , on 1st July 2014.
- Delivered Lecture on title “Mix design aspects of Geopolymer Concrete”, as part of webinar conducted on “Special Concrete” by CED, UCE, OU on 5-6th June 2020.
- Delivered Lecture on title “Geopolymer concrete “one day webinar on concrete conducted by Gurunanak Institutions technical campus, 4th July 2020.
- Delivered Lecture on title “Geopolymer Concrete- A potential material to replace

conventional concrete” MIT –ADT UNIVERSITY, Pune, India

- Delivered Lecture on title “Strength and Durability aspects of Geopolymer concrete”, FDP on RISE 2K24, organized by Department of Civil Engineering, Vardhaman College of Engineering, Shamshabad on February 17, 2024.

❖ Workshops attended

- Five day "International Workshop on Construction Materials" during 13-17 December 2022, NIT Calicut
- One week online short term course “ Sustainable and durable green concrete-future and applications”, 18-22 December 2023, Dr B R Ambedkar National Institute of Technology, Jalandhar
- Delivered

❖ M.E. Thesis Guided

Academic Year	Student Roll Number	Name of student	Title of dissertation
2010-11	100509741106	M.Ramani	Numerical simulation of buckling of thin cylindrical shell under axial compression
2011-12	100509746113	P.Shailaja	A study on effect of steel fibres as shear reinforcement
	100510741107	K.Padmaja	Effect of steel fibres on split tensile strength of concrete
	01091104	B.Naveen Kumar	Development of fuzzy logic model for M25 grade concrete
	100510741602	Mohd. Abrar Ahmed	Selection of optimal construction project by using analytical hierarchy process
	100509746110	D.Venkata Ramana	Analysis and design of steel and Psc composite girders for cost comparison
	100510741610	M.A.Sami	Optimal leveling of resources for multiple projects
2012-13	100511741510	Mohd. Younus	A study on the mechanical properties of waste foundry sand concrete
	100510746101	Ch.Ashok Kumar	Mechanical Properties of concrete containing waste industrial lathe scrap fibres and micro silica
	100510746116	N.Venkata Ramana	Mechanical properties of self curing concrete using Polyethylene Glycol and Fly Ash as partial replacement of Cement
	100511741614	Mohd.Mohiuddin	Selection of an optimal contractor by various multi criteria decision making models
	100511741611	Y.Padma	Transportation cost optimization and equipment analysis using EDA techniques
2014-15	100512741603	L.Lakshmi Teja	A study on fly ash based geo polymer concrete with bacteria
	100512741508	V.Rajesh	A study on mechanical properties of bacterial concrete
	100512741119	G.Vikas	Effect of alkaline liquid ratio on compressive

			strength of geo polymer concrete
2015-16	100513741125	M. Usha Sree	Comparative study of experimental and analytical results of Geopolymer concrete
	100513741119	N. Sriram	Comparative study of seismic analysis of normal building with floating columns
	100513741515	M. Spandana	Study on mechanical properties of Fly ash- GGBS based Geolymer concrete
	100513741504	Hasnath Fatima Sadiq	Influence of calcium content on performace, durability and microstructure of Fly ash based Geopolymer concrete
2016-17	100514741128	Worku Gadisa Gabisa	Seismic damage analysis of reinforced concrete building
	100514741125	M. Mary Soujanya	Experimental and analytical studies on flexural behavior of geopolymer concrete(Using ANSYS)
2017-18	100515741617	Workineh Woldesenbet Shaimo	Contract management model of the native contractors in Ethiopian construction industry
	010911113	Erra. Shailaja	Effect of robo sand and foundry sand on mechanical properties of bacterial concrete
	100515741518	Sultan Saleh Ali Al-Tais	An experimental investigation on volcanic ash base Geopolymer concrete
	100514741502	Bajannagari Harish	A study on influence of chemical exposure on properties of Geopolymer concrete
	100514741514	Gudepu Sushma	Development of Artificial Neural Network model for Geopolymer concrete
2018-19	100516741101	A. Urmila	Development of statistical model on compressive strength of Geopolymer concrete
	100516741123	V. Naveen	A comparative study on seismic behavior of multi storey RCC framed structure and composite structure
	100516741124	J. Karunakar	A comparative study on seismic behavior of multi storeys reinforced concrete structures with friction dampers and shear walls
	100513746111	Pawan Thakur	A study on the mechanical properties of Fal-G concrete with and without coarse aggregate
2019-20	100516741609	P.S.Sandeep Kumar	Material management through inventory control
	100517741514	V.Raghavenrda Reddy	Comparative study on Geopolymer concrete and cement concrete on pavement related tests
	100515741512	K. Swetha Sudarshan Rao	Prediction of compressive strength of Geopolymer Concrete using NDT techniques and ANN tool
	100512746103	Uma Maheshwari	A study on compatability of blended fibres on properties of Geopolymer concrete
	100517741601	Vandana	Integrated value engineering and risk management in construction industry
	100517741615	Sai Teja	Application of fuzzy theory in delay analysis in construction projects
2020-21	100517746112	M.Monikasree	Seismic analysis of buildings resting on sloping

			ground
	100518741119	S.Niveditha	Comparative analysis of MIVAN structural system and conventional structural system subjected to lateral loads
2021-22	100516741126	Mohannad Abdo	Comparative analysis of seismic and wind loads of various heights for residential buildings(RCC, steel and composite)
	100519741127	Ezatullah Yaqubi	Seismic response of RC framed irregular structures
	100519741128	Mohd.Talal Ibraheem Huraini	Effect of load on multi storey RC building using Time history method analysis
	100519741104	B.Rambabu	Mechanical and water penetration characteristics of graded hybrid fibre reinforced concrete
	100519741118	K.Prashanth	A Comparative study between conventional and recycled aggregate graded hybrid fibre reinforced concrete
	100518741502	B.Kavya	Comparative study of stiffness of infill frames placed at different positions
	100520741125	D.Deepthi Carol	An Investigation on the cementitious properties of alkali activated cement
	100516746101	Aljapur Abhilash	Affect of incinerated bottom ash (IBA) as partial replacement of fine aggregate on mechanical and flexural properties of high strength concrete
	100521741128	D. Shiva Krishna	Experimental investigation on influence of bamboo bars on flexural strength properties of polypropylene fibre reinforced concrete

❖ PhD Students allotted

Student Number	Name	Admission date	Year
100520232007	Syed Husna Nooren	15/3/23	2022
100520232013	V.Navaneetha		
100520232023	M.Venkatesh		
100520232022	V.Ramya		
	Ezatullah Yaqubi		

❖ Consultancy Services

Member of Consultancy Services group at University College of Engineering (Autonomous), Osmania University, Hyderabad for the past 5 years and actively involved in generating funds to the University. In addition to routine laboratory testing of building materials and road materials, several mix design projects, structural design projects have been taken up. The satisfied regular clients include several Government organizations viz.

- GHMC, Hyderabad.
- HMDA, Hyderabad.

- HMWSSB and Other Private Organisations
- ❖ **CFO (Consent for Operation) Member – Telangana State Pollution Control Board (TSPCB) from 3.10.2022 to 30.09.2025**