Gedela Prasanna Kumar

M.E. (Structural Engineering), (Ph.D.)

Contact No.: 9502077982

7989426484

e- mail : prasannakumar2211@gmail.com



1. Academic Qualifications:

S.No.	Examination	Board/University	Specialization	Year	Division/ %Marks
1	Ph.D.	Andhra University	Structural Engineering	2023	Thesis Submitted
2	M.E.	Andhra University	Structural Engineering	2015	8.63 (CGPA)
3	B.Tech	JNTUK Kakinada	Civil Engineering	2013	88 %
4	Intermediate	Board of Intermediate AP	MPC	2009	95.7 %
5	SSC	Board of SSC, AP		2007	93%

2. Professional Experience :

S .No.	Designation	Place of Work	Period
1	Assistant Professor	Aditya Institute of Technology and	20-06-2016 to Till
		Management, Tekkali	date
2	Graduate Apprentice	Palasa Municipality and Amadalavalasa	20-05-2015 to 19-06-
	Engineer(GAE)	Municipality	2016

3. Administrative Experience:

S.No.	Designation	Place of Work
1	Department NBA Core Committee member and Criteria 1,2 supporting Coordinator	Aditya Institute of Technology and Management
2	Department Time table Coordinator	Aditya Institute of Technology and Management
3	Department Course file Coordinator	Aditya Institute of Technology and Management

4. Fields of Research Interests: Strength and Durability aspects of concrete with nano materials and supplementary cementitious materials.

5. Memberships : ISTE – LM124639 (Life Member)

6. Academic Profile

1. **Specialization** : Structural Engineering

2. Titles of the Thesis Works:

Ph.D. Thesis:

• "Effect of colloidal silica on strength and durability properties of M20 and M40 grades of concrete" under the esteemed guidance of Dr. K. Rajasekhar. (Submitted)

M.Tech Dissertation:

• "An Experimental Investigation on Strength properties of M20 grade concrete by using M-Sand along with 2% nano silica" under the guidance of Dr.K.Rajasekhar.

B.Tech Academic Project:

• "Planning, Analysis and Design of G+5 Multistoried Building" under the guidance of Ms. R. Priyanka.

3. Subjects taught:

Under Graduation Program:

- Strength of Materials
- Structural Analysis
- Fluid Mechanics
- Hydraulics & Hydraulic Machines
- Engineering Geology
- Environmental Engineering
- Strength of Materials Lab
- Fluid mechanics & Hydraulic Machinery Lab
- Engineering Geology Lab
- Concrete Technology Lab
- Computer Applications in Civil Engineering

Post Graduation Program:

- Optimization in structural design
- Design of substructures

4. Certification courses:

• I've done a NPTEL certification course on Soil Mechanics /Geotechnical Engineering I with a score of 62% having Elite certificate.

7. Paper Publications:

- 1. Prasanna Kumar, Rajasekhar.K, An Experimental Study on Influence of Colloidal Silica on Durability Properties of Concrete, International Journal of Engineering Trends and Technology, Vol. 70, No. 10, 2022, pp. 35-43. (SCOPUS IndexedJournal)
- 2. Gedela Prasanna Kumar and Rajasekhar.K, Effect of colloidal silica on compressive strength of concrete, Materials Today: Proceedings, Vol.56, Part1, 2022, pp.520-526. (SCOPUS Indexed Journal)
- 3. Priyatham B P R V S, ChaitanyaD V S K, G Prasanna Kumar, Effect of ferrochrome slag and fly ash on the mechanical properties of concrete, IOP Conf. Series: Materials Science and Engineering 1025 (2021) 012024 IOP Publishing doi:10.1088/1757-899X/1025/1/012024. (SCOPUS Indexed)
- 4. Rajasekhar, K., and G. Prasanna Kumar, An Experimental Investigation on Strength Properties of Concrete with Nano Silica using Manufactured Sand, International Journal of Applied Engineering Research 14.19 (2019): 3774-3777.
- 5. Prasanna Kumar.G, Venkata Ramana and Krupasindhu Biswal, An experimental study on strength properties of concrete by partial replacement of fine aggregate with quartz sand, International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research And Development(IJCSEIERD); ISSN (Online): 2249-7978; ISSN (Print): 2249-6866; Impact Factor(JCC) (2018): 8.1092;Index Copernicus Value (ICV) (2016): 60.2; Naas Rating: 4.15; Vol 9, Issue 3; Edition: Jun-2019.
- 6. Prasanna Kumar.G ,Krupasindhu Biswal,Venkata Ramana.B, An experimental study on effect of partial replacement of cement by flyash and fine aggregate by stone dust on concrete, International Journal for Research in Engineering Application & Management (IJREAM) ISSN: 2454-9150 Vol-04, Issue-12, Mar 2019.
- 7. Chandra Kumar Nimmana, Tirupati Naidu Gedala, Prasanna Kumar Gedela, To Study the Seismic Behaviour of Multi Storeyed Building along with Planning at Various Zones using Hierarchical Agglomerative Clustering", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 6 Issue III, March 2018.
- 8. Prasanna Kumar.G, Krupasindhu Biswal, Mounica, Effect of Crusher Dust as Partial and Fully Replacement of Fine Aggregate on Strength Properties of M25 Grade Concrete, International Journal of Engineering Science Invention (IJESI)ISSN (Online): 2319 6734, ISSN (Print): 2319 6726, Volume 6 Issue 12|, December 2017, pp. 46-52
- 9. Chandra Kumar Nimmana, G Prasanna Kumar, Manoj Kumar Pakki, Hierarchy of Governance Stations (Cities) Determination Using Agglomerative Hierarchical Clustering, IJIRT, December 2017, Volume 4 Issue 7, ISSN: 2349-6002

- 10. Mounica & G.Prasanna kumar, A review on life cycle cost analysis for roads, International Journal of Research ,ISSN: 2348-6848 p-ISSN: 2348-795X, Volume 04, Issue 13, October 2017
- 11. Prasanna Kumar.G, Durga Rama Naidu.G, Puspalatha.P ,Manoj Kumar.P, An experimental study on non-destructive tests and stress strain curves of M20 grade concrete with nano-silica using M-sand, International Journal of Civil Engineering & Technology (IJCIET), Volume 8, Issue 3, March 2017, Pp.385–390, ISSN Print: 0976-6308 And ISSN Online: 0976-6316; Journal Impact Factor (2016): 9.7820. (SCOPUS Indexed Journal)
- 12. Durga Rama Naidu.G, Manoj Kumar.P, Prasanna Kumar.G, D. Hari Prasad, Behaviour of M20 grade concrete at different temperatures, International Journal of Civil Engineering & Technology (IJCIET), Volume 8, Issue 3, March 2017, Pp.1043-1048, ISSN Print: 0976-6308 And ISSN Online: 0976-6316; Journal ImpactFactor (2016): 9.7820 (SCOPUS Indexed Journal)

8. Patent Publication:

• Patent No: 202241059042

• Title: Enhancing the strength of concrete by optimal usage of colloidal silica

• DOP: 21-10-2022

• Inventors: Gedela Prasanna Kumar and K. Rajasekhar

9. Project Works Guided (B.Tech (Civil Engineering)):

S.No	Title of the Project work	Year	
1	Planning, analysis, design and detailing of auditorium.	2016-2017	
2	A presentation on replacement of fully coarse and fine aggregates of M25 concrete with concrete debris and crusher dust.	2016-2017	
3	An Experimental Study on Strength properties of M25 Grade concrete by replacing cement with fly ash and fine aggregate with crusher dust.	2017-2018	
4	Partial Replacement of fine aggregate with quartz sand in concrete.	2017-2018	
5	An experimental study on strength characteristics of M25 grade concrete using steel and synthetic fibers.	2017-2018	

Project Works Guided (M.Tech (Structural Engineering)):

S.No	Title of the Project work	Year
1	To Study The Seismic Behavior Of Multistoried Building Along With Planning At Various Zones Using HAC.	2017-2018

10. Seminars/ Conferences/Workshops Participated:

- Participated in One Day Workshop on Intellectual Property Rights & Innovations conducted by AITAM, Tekkali on 05.07.2016.
- Participated in One-week National Workshop on "Recent Developments in Structural Engineering", organized by department of Civil Engineering, AITAM, Tekkali on October 17th to 22nd, 2016.
- Participated in One Day Workshop on Intellectual Property Rights & Innovations conducted by AITAM, Tekkali on 05.02.2017.
- Participated in FDP on "Fault diagnosis, condition monitoring and structural dynamic analysis" organized by department of Mechanical Engineering, AITAM, Tekkali during 6th to 19th November, 2017.
- Participated in National seminar on "Recent Innovations in Civil Engineering", organized by department of Civil Engineering, AITAM, Tekkali on 7th & 8th Dec 2017.
- Participated in one day awareness Programme on "Intellectual property rights & Patents" at AITAM Tekkali on 08.06.2018.
- Participated in Workshop on "Good Construction Practices" organized by department of Civil Engineering, Andhra University on 1st & 2nd October,2018.
- Participated in International Workshop on "Waste Management: Trends and Challenges" organized by department of Civil Engineering, Andhra University on 22nd February, 2019.
- Participated in FDP on "Advanced Vibration Analysis and its Application in Industry" organized by department of Civil Engineering, Andhra University during 8-12 July 2019.
- Participated in one day seminar on "Advances in Civil Engineering", organized by department of Civil Engineering, Gayatri Vidhya Parishad College for Degree and P.G courses(A) on 17th August 2019.
- Participated in Two day International workshop on "Coastal Reservoirs: Sustainable solution for water scarcity" organized by department of Civil Engineering, Andhra University on 27-28 August ,2019.
- Participated in Two day seminar on "Roles of piles in soil retention in deep excavations and deep foundations" organized by department of Civil Engineering, Andhra University on 30-31 October, 2019.
- Participated in One week Faculty Development Program on "Advanced Research Methodology and Innovative Teaching Pedagogy" organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology from 08-13 May,2020 in association with ISTE and IEI.
- Participated in Participated in the Online AICTE Recognized One Week Faculty Development Programme on "Advanced Construction Technology" from 18-25 May,2020 organized by Civil Engineering Department, NITTTR, Chandigarh.
- Participated in one week short term training program on, "Implementation of Advanced Optimization Techniques using MATLAB" organized by Electrical Engineering Department under RIT-Center for Teaching and Learning (RIT-CTL) during 01st to 06th June, 2020 through online mode.

- Participated in Participated in the Online AICTE Recognized Faculty Development Programme on "Emerging Technologies in Civil Engineering" from 08/06/2020 to 12/06/2020 (One Week) Organized by Civil Engineering Department NITTTR, Chandigarh.
- Participated in the One Week Short Term Training & Faculty Development Program on "Recent Advancements in Civil Engineering: Challenges and Future Perspectives-Part II" organized from 22-06-2020 to 27-06-2020 by Department of Civil Engineering in Collaboration with Indian Concrete Institute by Sri Vishnu College of Engineering for Women.
- Participated in Online Two Week International STTP on "Advances inTechnology and Management for Civil Engineering" organized by Department of Civil Engineering, KDKCE, Nagpur from 23rd June to 3rd July 2020.
- Participated in one week online Faculty Development Program on "Performance Of Reliable Materials In Concrete" organized from 29th June to 03rd July, 2020 by Department of Civil Engineering, AITAM.
- Participated in One Week Online FDP on "Recent Trends in Civil Engineering" organised by Department of Civil Engineering, Balaji Institue of Technology and Science, Narsampet from 6th July to 11th July 2020.
- Participated in the one week Online Faculty Development Programme on "Water Resources Management" organised by the Department of Civil Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh during 15th to 19th July, 2020.
- Participated in Five Day International Webinar On "Climate Change Impact On Water Resources Management And Environment" from 15-19 July 2020 organized by Department of Civil Engineering, A.U., and science city of AP.
- Participated in National staff Development Program webinar on "Environmental Resource Management Towards Sustainability ",21 to 24 July 2020 organised by Department Of Civil Engineering, Andhra University College Of Engineering.
- Participated in in Three Days International Faculty Development Program on "Smart Solutions in Civil Engineering" organized by the Department of Civil Engineering, SRM Institute of Science & Technology, Ramapuram, Chennai from 21rd July to 23rd July 2020.
- Participated in in the AICTE Sponsored One Week Online Short Term Training Program on "Soft Computing Techniques in Civil Engineering: Water Resources, Structures & Transportation Applications" organized from 20-25, July 2020 In Collaboration With Indian Concrete Institute by Sri Vishnu College of Engineering For Women.
- Participated in Five day Online Faculty Development Program on "Recent Trends and Innovations in Civil Engineering" from 27th – 31st July 2020, organized by Department of Civil Engineering, Dr. Lankapalli Bullayya College of Engineering.
- Participated in One Week Faculty Development Program on "Developments In Concrete and Construction" organized by the Department of Civil Engineering, SRM Institute of Science & Technology, Ramapuram, Chennai-89, from 23rd July to 29rd July 2020.

- Participated in Season 2 to Season 7 webinars of Sky Campus (Digital Knowledge Series 2020) organized by ICT Academy from 20th April to 29th May 2020.
- Participated in Faculty Development Program on "Bridge Structures" organized by the Department of Civil Engineering, SRM Institute of Science & Technology, Ramapuram, Chennai-89, from 3rd August to 5th August 2020
- Participated in the AICTE Sponsored One Week Online Short Term Training Program(STTP), PHASE-II on "Soft Computing Techniques in Civil Engineering" organized from 17-08-2020 to 22-08-2020 by DEPARTMENT OF CIVIL ENGINEERING, SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS)
- Participated in Five day Online Faculty Development Program on "Education 4.0 – Teaching and Learning" from 31st August-04th September 2020, organized by Department of Civil Engineering, Dr. Lankapalli Bullayya College of Engineering.
- participated in the AICTE Sponsored One Week Online Short Term Training Program(STTP) , PHASE- III on "Soft Computing Techniques in Civil Engineering: Structures, Water Resources, Geotechnical, Remote Sensing and Transportation Applications" organized from 07-09-2020 to 12-09-2020 by DEPARTMENT OF CIVIL ENGINEERING, SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS)
- Participated in the Online National Training Programme on "Disaster Risk Reduction in Resilient Infrastructure" organised by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Department of Civil Engineering, Andhra University College of Engineering, Andhra University, Visakhapatnam during 30.09.2020 to 02.10.2020.
- Participated & Got Merit in One week Faculty Development Program on Advanced Applications of Structural Concrete in Civil Engineering During 7th to 12th of June 2021 Organized by Department of Civil Engineering, K L Deemed tobe University in association with ICI.
- Participated in One Week Online Faculty Development Program on "Recent Advancement in Civil Engineering- Phase-I" organized by the Department of Civil Engineering, GMR Institute of Technology, GMR Nagar, Rajam-532127, from 7th to 12th June, 2021.
- Participated in One Week Online Faculty Development Program on "Recent Advancements in Civil Engineering- Phase-II" organized by the Department of Civil Engineering, GMR Institute of Technology, GMR Nagar, Rajam-532127, from 12th to 17th July, 2021.
- Participated in the Indo-Chile workshop on "Recent Advancements in Geotechnical Earthquake Engineering" held during 7 Sep 9 Sep, 2021.
- Participated and presented a research paper titled "EFFECT OF COLLOIDAL SILICA ON COMPRESSIVE STRENGTH OF CONCRETE" at ICMMIT-2022, during 24 25th January 2022, organized by Amity School of Engineering & Technology (ASET) and Amity Institute of Information Technology (AIIT), Amity University Jharkhand, Ranchi.

 Participated in the Second Virtual International Conference on "Emerging Research Trends in Structural Engineering (ERTSE2022)" organized by School of Civil Engineering (SCE) conducted during 24 – 25th March, 2022 at Vellore Institute of Technology, Chennai.

10. Certified Courses:

- 1. Authorized by Georgia Institute of Technology and offered through Coursera.
 - Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading
 - Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion
 - Mechanics of Materials III: Beam Bending
 - Mechanics of Materials IV: Deflections, Buckling, Combined Loading & Failure Theories
- 2. Course offered through UDEMY
 - Mastering Shear Force and Bending Moments on 29th April 2020.
- 3. Value added course on PYTHON for Civil Engineering organized by Department of Civil Engineering, Andhra University College of Engineering, and Visakhapatnam during March 22 to 31, 2022.
- 4. Value added course on MATLAB: Introduction and Applications organized by Department of Civil Engineering, Andhra University College of Engineering, and Visakhapatnam during December 12 to 24, 2022.

11. Guest Lectures:

• Delivered a webinar titled as "Special Concretes and Applications" on 27-05-2020, organized by Department of Civil Engineering, Miracle Educational Society Group of Institutions.

G. Bazanna Kuman G. Prasanna Kumar