

Name : Dr. MALLIKA ALAPATI, FIE, MICI, MISTE,MACCE(I)

Designation: Professor & Head

Department: Department of Civil Engineering

Mail.ID: mallika_a@vnrvjiet.in

Experience (in years): Teaching: 21 Research: 5

Others (If any, Specify): 6 years in Structural Design consultancy

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	SSC	1985	-
2	Intermediate	1987	M.P.C
3	B.Tech.	1991	Civil Engineering
4	M.Tech.	2003	Structural Engineering
5	Ph.D.	Jan, 2013	Civil Engineering

2. Teaching and Learning:

2.1. Teaching Interests:

UG: Engineering Mechanics, Strength of Materials-I, Strength of Materials-II, Structural Analysis-I, Structural Analysis-II, Basic Reinforced Concrete Design and Drawing, Structural Steel Design, CAAD, Earthquake Engineering, Finite Element Analysis, Optimization techniques, Estimation & Costing, Disaster Management & Mitigation

PG: Theory of Elasticity & Plasticity, Earthquake Resistant Design of Buildings, Computer Aided Design laboratory

2.2 Novel Teaching & Learning Techniques adopted: POGIL, WIT & WIL, PPTs., well versed in digital teaching & learning platforms.

2.3 Involvement in curriculum updating / Design:

- Member -University (JNTUH) Board of Studies
- Member - Institute Academic Committee & Academic Council
- Chairman - Department Board of Studies

3. Conference / Workshop / Seminar / Guest Lectures:

3.1 Conducted:

A. Conferences:

Convener for

- International Conference on “Construction Materials and Smart Structures for Sustainable Development”, 29 – 31, Jan,2020

Organizing Secretary for

- International Conference on “Emerging Trends in Civil Engineering 2014”,6 - 8, Jan, 2014
- National Conference on Recent Trends in Structural Engineering (RTSE), Jan 2012, Hyderabad

- National workshop on “Disaster Preparedness, Management and Risk Reduction (DPMR-2014), Dec,2014
- National Conference on “Disaster Preparedness, Mitigation and Reconstruction of Sustainable Society” (DPMRSS), Feb,11 & 12,2016
- National conference on Transportation Research for Ecological Sustainability” TREES,Sep,2018

Faculty Development Program:

- Received grant (Rs.5.01 lac) from AICTE and Conducted **2-Week FDP (2 series)** on **Advanced Computing in Civil Engineering**
 - **Series 1:**Advanced Computational tools in Structural Modelling and Analysis &Transportation and Traffic systems, 16/11/2020 - 28/11/2020
 - **Series-2:** Numerical Modelling in Geotechnical Applications, Hydrology and Environmental Quality Monitoring, 15/02/2021 - 27/02/2021

3.2 Workshops/Seminars/ Guest Lectures Attended:

S.No	Workshop/Conference	Duration & Year	Organized by
1	National Conference on WISE-2004 (Worldwide Innovations in Structural Engineering)	(3 Days),2004	ACCE, Hyderabad
2	Environmental Awareness workshop	(1 Day),2005	VASAVI Engineering college and EPTRI, Hyderabad
3	International conference on New trends in concrete	(3 Days),2005	Vasavi Engineering college & South Dakota University, USA
4	Concrete Mix Design	(1 Day),2006	Osmania University, Hyderabad
5	Computer Applications in Civil Engineering	(2 weeks),2007	VASAVI Engineering college
6	Work Shop on High Rise Buildings	(2 days),2008	JNTU, Kukatpally, Hyderabad
7	Finite Element Applications in Engineering	(3 Days),2008	VNRVJIET
8	Construction Project management	(2 days),2009	VNRVJIET
9	National Workshop on Structural stability & safety of buildings	(2 Days),2009	JNTU College of Engg.& Indian Association of Structural Engineers, A.P
10	International Conference on Design &Construction of Urban Transport Structures	(3 Days),2010	Association of Bridge Engineers, Hyderabad
11	Recent Issues and Developments in pavement Engineering(RIDPAVE)	(2days), 2010	VNRVJIET
12	Energy, Environment and Sustainable development	(2 days),2011	VNRVJIET
13	National Conference on Recent Trends in Structural Engineering (RTSE)	(2 days),2012	VNRVJIET
14	Recent Advances in Concrete & Construction	(2 weeks),2012	VNRVJIET

15	Recent Advances in Concrete Technology	(2days), 2013	VNRVJIET
16	Finite Element Applications in Civil Engineering	(2 weeks),2013	VNRVJIET
17	Condition Assessment and strengthening of Concrete structures(CASTCON)	(2 Days),2013	IIT, Hyderabad
18	Work shop on Art of Teaching	(3 Days),2013	VNRVJIET & Enhance Edu,IIIT,Hyd
19	Training in POGIL	(1 day),2013	VNRVJIET & Enhance Edu,IIIT,Hyd
20	International workshop on “Reviving education by implementing active and guided inquiry experiences in STEM”	(3 Days),2013	VNRVJIET & Enhance Edu, IIIT,Hyd
21	Computational skills enhancement in Geotechnical Engineering	(2 Days),2013	VNRVJIET
22	Training on pedagogy in teaching	(1week),2014	ESCI, Hyderabad
23	Reinforced Earth-concepts, Application & Practices in Geotechnical Engineering	(3 Days),2014	VNRVJIET
25	National Work shop on “Construction, Demolition waste recycling” (CDWR),	(1 Day),2015	JNTUH, Hyderabad
26	Dynamic Testing and simulation of Civil Structures	(1 Day),2018	BITS, Hyderabad
27	Health monitoring, Service life Prediction, Repair and Rehabilitation of structures	(3 Days)08.05.2020 - 10.05.2020	CSIR -Delhi
28	Advances in Concrete Science and Technology for Sustainability (ACSTS)	(1 week) 13-18 th July, 2020	VNRVJIET
29	Advanced computing in Civil Engineering, Series 1:Advanced Computational tools in Structural Modelling and Analysis &Transportation and Traffic systems	2 weeks (16/11/2020 - 28/11/2020)	AICTE Sponsored
30	Advanced computing in Civil Engineering, Series-2: Numerical Modelling in Geotechnical Applications, Hydrology and Environmental Quality Monitoring	2 -weeks (15/02/2021 to 27/02/2021)	AICTE Sponsored

4. Academic Contribution and Research & Consultancy:

- **Member Board of studies for Civil Engineering for JNTUH (Jawaharlal Nehru Technological University, Hyderabad)**
- **Headed the Department team to achieve 6 years NBA accreditation successively two times for B.Tech Civil Engineering Program & 3 years accreditation for M.Tech - Structural Engineering Program.**

4.1. Invited Lectures:

Delivered invited lectures on

- Series of lectures on “Monolithic Construction techniques”, “Minor Bridge Construction techniques” etc. in Engineering Staff College of India (ESCI).
- “Artificial Intelligence Methods in Structural Health Monitoring” in FDP on Advanced computing in Civil Engineering organized by VNRVJIET
- “Piezo Electric Sensors in Structural Health Monitoring Applications” organized by JBIT, Hyd.
- “Good construction practices” in 1Day orientation program to R&B Engineers, Govt. of AP, Vishakapatnam.
- “Structural Health Monitoring using sensors” in MRIT, Hyderabad
- “Finite element methods” in Osmania University
- “Genetic Algorithms in Civil Engineering” in MREC, JNTUH

4.2. Articles / Chapters published in Books:

4.3. Books published as single author or as editor:

- Edited the Proceedings of International Conference on “Construction Materials and Smart Structures for Sustainable Development”, with ISBN no: ISBN 978-93-8935-488-1
- Edited the Proceedings of International Conference on “Emerging Trends in Civil Engineering” with ISBN no: ISBN 978-81-7800-294-1
- Edited the Proceedings of National Conference on “Disaster Preparedness, Mitigation and Reconstruction of sustainable society” (DPMRSS) with ISBN no: ISBN: 978-93-5230-116-4
- Edited the Proceedings of National conference on Transportation Research for Ecological Sustainability” TREES, Sep, 2018

4.4. Projects Guided:

a) **UG: Guided more than 30 B.Tech projects** in the topics, Analysis & Design of Multi Storied Buildings. Comparative study of various Truss configurations, Finite Element Analysis of Beams with web openings, Comparison of Response spectrum method and Static Equivalent method, Optimization of truss using Genetic Algorithm, Effect of infills on seismic response of the structures, Optimization of bracing system for RC building, Reuse of polyethylene plastic waste, Structural Health Monitoring using PZT patches

b) **PG: M.Tech Projects :**

Guided 22 M.Tech Projects & presently guiding 2 projects.

- Shape and topology optimization of shell structures
- Pushover analysis of multi storey buildings
- Study of dynamic behaviour of Elevated water tank for different bracing patterns
- Comparative study of self- supporting steel chimneys with varying thickness
- Analysis of pipes buried at various depths using FEM
- Analysis of sandwich panels using Finite Element Method
- Comparative study of different bracing patterns for different plan irregularities of the buildings
- Structural shape optimization for various objective functions
- Comparative study of different bracing patterns for tall buildings with plan irregularities
- Study on Dynamic behavior of Elevated water tank for different staging patterns
- Seismic analysis of multistoried steel frames with Perforated steel plate shear walls

- Health monitoring of structures using piezo electric patches
- Nondestructive testing of Existing building and condition assessment
- Study on effect of masonry infill on seismic behaviour of RC framed structure
- Effect of openings and aspect ratio on RC framed brick infilled building
- Study on dynamic behaviour of buildings subjected to blast loads
- Analytical Study On Corrosion Assessment Of Steel Flat Using EMI Technique
- Effect of Baffle Wall Parameters on the Seismic Responses of Elevated Rectangular Water Tank
- Study on Sensitivity of PZT signatures for Damage detection in RC Columns - A Numerical Study
- Numerical Investigation on EMI Signatures in Pipes with varied Damage Levels
- Effect of external vibrations on EMI signatures in damage detection
- Condition assessment of structural components using internet of things (IoT)
- Study on Seismic Performance of Precast Concrete Wall Connections
- Vibration Based Damage Detection in Structural Components using Support Vector Machine (SVM)-A Supervised Learning Technique

4.5. Research Interests: Finite Element Analysis, Shell Structures, Earthquake Engineering, Optimization Techniques, Genetic algorithms, Structural Health monitoring

4.6. *Ph.D students: Guiding 1 full time scholar under JNTUH*

Guiding 2 scholars under JNTUH

4.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name, Vol., No., pp	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Prediction of Bolt Loosening Using Vibrational Analysis and Machine Learning	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684,p-ISSN: 2320-334X https://doi.org/10.9790/1684-2001012736	-	International
2	Structural optimization of steel plate shear wall with different perforation configurations and locations	Materials Today: proceedings	ISSN: 2214-7853 https://doi.org/10.1016/j.matpr.2022.04.369	0.657	International (Scopus)
3	Experimental investigations on Durability properties Nano-Silica based concrete	Materials Today: Proceedings	ISSN: 2214-7853 https://doi.org/10.1016/j.matpr.2021.11.126	0.657	International (Scopus)
4	Effect of using nano silica on mechanical properties of normal strength concrete	Materials Today :proceedings	ISSN: 2214-7853 https://doi.org/10.1016/j.matpr.2021.12.409	0.657	International (Scopus)

5	Damage detection in structural components using free vibration analysis	Materials Today: Proceedings	ISSN: 2214-7853 https://doi.org/10.1016/j.matpr.2022.01.003	0.657	International (Scopus)
6	Damage detection of structural members using internet of things (IoT) paradigm	Materials Today: Proceedings, Vol.43, pp:2337-2341	https://doi.org/10.1016/j.matpr.2021.01.679 ISSN: 2214-7853	0.657	International (Scopus)
7	Effect of external vibrations on Electro-Mechanical impedance signatures in damage detection	Materials Today: Proceedings ,Volume 45, Part 2, 2021, Pages 3398-3403	https://doi.org/10.1016/j.matpr.2020.12.794 , ISSN: 2214-7853	0.657	International (Scopus)
8	Numerical investigation on EMI signatures in pipes with varied damage levels	Materials Today: Proceedings, 1, 2021, Pages:3452-3457	https://doi.org/10.1016/j.matpr.2020.12.936 ISSN: 2214-7853	0.657	International (Scopus)
9	Impact of nanosilica on mechanical properties of concrete using optimised dosage of nanosilica as a partial replacement of cement, Vol. 8, Issue 7, 53-60	International Journal of Civil Engineering , July 2021	ISSN: 2348 – 8352 /doi:10.14445/23488352/IJC E-V8I7P101	1.21	International
10	Study on Optimization of HighRise Building with Perforated Steel Plate Shear Walls	Seybold Report , Vol. 25 No. 10 , pp:578-591,2020	ISSN NO: 1533-9211	-	International (Scopus)
11	Efficacy of Supervised Learning Techniques in Damage Detection of Structural Components – A Review,	Seybold Report, Vol. 15 No.9 Page: 3347-33592020	ISSN NO: 1533-9211	-	International (Scopus)
12	Study on effect of nano-silica on Mechanical properties of concrete	i-manager's journal on Structural Engineering, Vol.8, No. 4 December,2019– Jan 2020, pp :41-48	ISSN: 2278-7887	-	National
13	Study on Optimum Location of Outrigger for High-Rise Building	Lecture Notes in Civil Engineering, Vol.75, Chapter 28	ISSN 2366-2565	-	Springer Nature (Scopus)
14	Effect of Baffle Wall Parameters on the Modal Responses of Elevated Rectangular Water Tank	ICETE 2019, LAIS 2, pp. 1–12, 2020.	ISSN 2662-3455	-	Springer Nature (Scopus)

15	Sensitivity of PZT Signatures for Damage Detection in RC Columns—A Numerical Study, Recent Trends in Civil Engineering ,Vol.77,pp 283-290	Lecture Notes in Civil Engineering	ISSN 2366-2565		Springer Nature (Scopus)
16	Influence of Patch Location on Damage Detection of Smart Bar using EMI Technique	i-manager's journal on Civil Engineering, Vol.9,No2 March –May 2019, pp :62 - 68	ISSN: 2231-1068	-	National
17	Comparative Study on Dynamic Behavior of Different Building Frames Subjected to Blast Loads	Jour of Advanced Research in Dynamical & Control Systems, Vol. 10, 08-Special Issue, 2018	ISSN 1943-023X	-	International (Scopus)
18	Seismic behaviour of Reinforced Concrete Framed Structures with Masonry Infill Modelled as Diagonal Strut	International Journal of Emerging Technology and Advanced Engineering, Volume 7, Special Issue 2, December 2017,pp:338-343	ISSN 2250–2459	ISRA Impact factor 4.027	International (UGC Approved)
19	Effect of Openings and Aspect Ratio on RC Framed Brick Infilled Building	International Journal of Emerging Technology and Advanced Engineering, Volume 7, Special Issue 2, December 2017,pp:408-417	ISSN 2250–2459	ISRA Impact factor 4.027	International (UGC Approved)
20	Condition Assessment of Existing Concrete Building Using Non-Destructive Testing Methods for Effective Repair and Restoration- A Case Study	Civil Engineering journal,Vol.3 No.10,pp: 841-855	ISSN: 2476-3055	-	International (WEB OF SCIENCE)
21	Evaluation of Stability and Sesimic Analysis of Gravity Dam by Using Staad Pro.	International journal of Scientific Engineering and Technology Research,Vol.06,No.14,2 017,pp:2676-2682	ISSN 2319-8885		Indexed Google scholar
22	Comparative Study on Seismic Responses of Multistorey Building Frame with Infills using Linear and Nonlinear Analysis”	i-manager's journal on Structural Engineering, Vol.6,No.1, March-May 2017, pp :39-44	ISSN: 2278-7887	0.588	ICI-Indian Citation Index (UGC Approved)
23	Seismic Analysis of Multistoried Steel Frames with Perforated Steel Plate Shear Walls	i-manager's journal on Structural Engineering, Vol.5,No.3,	ISSN: 2278-7887	0.588	ICI-Indian Citation Index

		September –November 2016, pp :40 -53			(UGC Approved)
24	Effect Of Tank Height on The Seismic Performance of Intze type water Retaining Structures	i-manager's journal on Structural Engineering, Vol.5,No.3,September – November 2016, pp :8-15	ISSN: 2278-7887	0.588	ICI-Indian Citation Index (UGC Approved)
25	Study on storey Height on the seismic performance of Tall braced buildings	International Journal of Research in Engineering and Technology, Vol.:5,No.02,2016,pp :37 -41	ISSN 2229-5518	-	International
26	Free Vibration Analysis of Aluminium Sandwich Panels Using FEM	ELK Asia Pacific Journals – Special Issue,2016, pp-30-40		1.354	International Google scholar indexed
27	Optimization of rectangular box girder bridges subjected to IRC loading with volume minimization as the objective	i-manager's Journal on Structural Engineering, Vol. 4 ,No. 3,September - November 2015,pp -1 -9	ISSN: 2278-7887	0.588	ICI-Indian Citation Index (UGC Approved)
28	Comparative study of different bracing patterns for different plan irregularities of the buildings	Journal of Civil Engineering and Environmental Technology,Vol.2,No.14, july-september 2015,pp.36-41	ISSN 2349-8404	-	National
29	Discrete Optimization of Truss Structure Using Genetic Algorithm	International Journal of Recent Development in Engineering and Technology, Vol. 3, No. 1, July 2014, pp.105-111	ISSN 2347-6435	-	International
30	Integrated Shape and Topology Optimization of Cylindrical Shells	International Journal of Earth Sciences and Engineering, Vol.7, No.4,2014, pp.688-694	ISSN 0974-5904	0.06/h-index -6	International (SCOPUS indexed)
31	Inverse technique - an approach to optimize shape of shell structures for deflections under free vibrations	Journal of Structural Engineering, Vol. 40,No.3,2013, pp.224-234	ISSN 0970-0137	0.8902/h-index-8	National (SCOPUS indexed)
32	Shape optimization of two cell box girder bridges for free vibrations	IRC, Journal of Highway Engineering, Vol.40, No.7 ,2012, pp 31-38	ISSN 0376-7256	1.2	National (ICI)
33	Topology Optimization of Structures for minimum Structural Compliance	IUP Journal of Structural Engineering, Vol.5. No. 4,2012, pp 74-87	ISSN 0974-6528	-	National
34	Optimization of Vibrating Concrete Shell Structures	International Journal of Earth Sciences and Engineering, Vol. 04,	ISSN 0974-5904	0.06/h-index -6	International (SCOPUS indexed)

		No. 01, 2011, pp.178-188			
35	Topology Optimization of Cylindrical Shells for Various Support Conditions	International Journal of Civil and Structural Engineering, Vol.1,No.4,2011, pp.805-814	ISSN 0976-4399	0.59	International (UGC Approved)
36	Thickness Optimization of vibrating shells for minimum	International Journal of Civil and Structural Engineering, volume Vol.1, No.2, 2010, pp.211-220	ISSN 0976-4399	0.59	International (UGC Approved)

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Development of Support Vector Machine Learning Model for Predicting Damage Location in beams	7th International Conference on Engineering and Management ICEM-2021	International	Nov,27-28,2021
2	Seismic Performance of Precast Concrete Wall Connection with Interlock with Bolt connection	7th International Conference on Engineering and Management ,ICEM-2021	International	November 27-28, 2021
3	Condition Assessment of Structural Components using Internet of Things (IoT)	“Engineering for Self Reliance and Sustainable Goals” By IEI Technical Volume of the 35th Indian Engineering Congress, ISBN 978-81-950662-0-9	National	Dec, 18-20, 2020
4	Parameters Influencing PZT Sensing in Structural Health Monitoring – A Review	International Conference on “Construction Materials and Smart Structures for Sustainable Development”,	International	Jan,29-31,2020
5	Effect of using Nano Silica on Mechanical Properties of High Strength Concrete	International Conference on “Construction Materials and Smart Structures for Sustainable Development”,	International	Jan,29-31,2020
6	Study on Optimization and Efficiency of Outrigger system as Virtual Outriggers	Innovative Trends in Civil Engineering for Sustainable Development (ITCSD - 2019)	International	September 13-15, 2019
7	Study on Sensitivity of PZT Signatures for Damage Detection in RC Columns - A Numerical Study	International Conference On Recent Trends And Innovations In Civil Engineering (Icrtice-2019)	International	Sept. 26-28, 2019
8	Effect of Baffle Wall Parameters on the Modal Responses of Elevated Rectangular Water Tank	International conference Emerging trends in Engineering (ICETE2019)	International	22-23 March,2019
9	Influence of patch location on Damage detection of smart bar using EMI technique	2 nd International conference on paradigms in Engineering and Technology, ICPET,2018	International	28-29, Dec,2018

10	Seismic Analysis of Multistoried Steel Frames with Perforated Steel Plate Shear Walls	---	National	15-16 December, 2016
11	Free vibration Analysis of Aluminium sandwich panels using FEM	International conference on sustainable smart cities (ICSSC2016) ISBN-978-81-930411-7-8 (ELK Asia Pacific Journals)	International	26-28 Feb,2016
12	Effect of storey height on seismic performance of multi storey buildings	National conference on Disaster Preparedness, Mitigation and reconstruction of sustainable society(DPMRSS)(BS publishers) ISBN- 978-93-5230-116-4	National	11 ,12 Feb,2016
13	Analysis and shape Optimization of plate structure for various objective functions	IFERP international conference ISBN 978-81-92958022	International	01,November 2015
14	Structural shape optimization for various objective functions	Three-Day International Conference on Innovations in Structural Engineering (IC-ISE-2015) ISBN 978 -81- 7371 -986- 8	International	14-16 December 2015
15	Analysis of Buried Pipes For Various Depths Using Finite Element Method	National Conference on Recent Advances in Structural Engineering (RASE) ISBN -978-93-8363-536-8	National	11-12, Nov,2014
16	Free Vibration Analysis Of Aluminium Sandwich Panels Using FEM	National Conference on Recent Advances in Structural Engineering (RASE) ISBN:978-93-8363-536-8	National	11-12,Nov,2014
17	Comparative study of self supporting steel chimneys with varying thickness	National Conference on Recent Advances in Structural Engineering (RASE) ISBN:978-93-8363-536-8	National	11-12, Nov,2014
18	Integrated Shape and Topology Optimization of Cylindrical Shells,2014	International Conference on “Emerging Trends in Civil Engineering”)(bs publishers) ISBN:978-81-7800-294-1(HB)	International	6-8 Jan,2014
19	Topology Optimization of the Inverse Shell Structures, 2013	International Conference on “Innovations in Concrete”, ICI-IWC ISBN:978 -81-7371-912-7	International	Oct,2013
20	Integrated shape and Topology optimization of Inverse shell models	National Conference on Recent Advances in Structural Engineering(RASE), ISBN:978-93-82880-61-5	National	12-14, Sep,2013,
21	Shape Optimization of box girder bridges for free vibrations	International Conference on Design & Construction of Urban Transport Structures, Hyderabad	International	April 2010,
22	Minimization of Structural Compliance for structural topology	National Conference on Recent Trends in Structural Engineering (RTSE) ,Hyderabad	National	6-7, Jan,2012
23	Optimization of shell structures for minimum weight using finite element analysis	INSHAB-2008, Coimbatore	International	Feb, 2008
24	A Study of confined ferro fibre reinforced concrete under Axial Compression	National Conference on Recent Developments in Structural Engineering MIT,2005	National	August,2005

25	Inverse technique-An Approach to optimize the shell structures	National Conference Sthapana-Hyderabad	National	Dec,2007
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4.9. Sponsored research Projects:

S.No	Title of the Project	Amount (lacs)	Funding Agency	Year
1	Development of Autonomous tool for detecting bolt loosening in steel structures using Machine vision and Deep Learning	25.69	DST-SERB-SURE	2022-2023

4.10 Consultancy Projects:

- Title: Planning and Design of Jain Farm Resorts, Vikarabad, 1994
- Title: Design of Dutt's Complex, Vizag; 1994
- Title: Industrial Building for ICPL, Hyderabad; 1995
- Title: Planning and Design of Medical College, Nepal; 1996
- Title: Design of Machine foundation, ASN Granites, Hyderabad; 1999
- Title: Design of ECE Block (team member), JNTU, Kukatpally campus; 2003
- Title: Design of low cost housing (VAMBAY), AP Housing Corporation. Hyderabad; 2004
- Title: Design of Industrial steel structure, Divya Shakthi Granites Pvt. Ltd, Narsapur, Medak; 2005
- Title: Design of Mezzanine floor for Placement cell, VNRVJIET, Hyderabad; 2006
- Title: Design of Industrial steel structure, Greyhounds (AP POLICE) Hyderabad; 2007
- Title: Design of Student Activity Centre (SAC), VNRVJIET, Hyderabad; 2007
- Title: Design of Industrial steel structure for Velegonda Tunnel-II, Dornala, Coastal Projects Pvt. Ltd. 2008
- Title: Design of Foundation for Conveyor Belt system, Velegonda Tunnel-II, Dornala Coastal Projects Pvt. Ltd. 2008
- Title: Design of ATM Centre, VNRVJIET, Hyderabad; 2009
- Proof Checking of Structural designs for New CE&ME block, VNRVJIET, Hyderabad; 2010
- Proof Checking of Structural designs for extension of B-block, Hyderabad; 2013
- Proof Checking of Structural designs & Project Management for Vignana Jyothi Girl's Hostel Buildings, Hyderabad; 2014
- Structural Design of STP tank for B-Block for Vignana Jyothi Girl's Hostel Buildings, Hyderabad; 2016
- Structural Design of STP tank for VNRVJIET, Hyderabad; 2017
- Structural Design of Kitchen Extension block for Dr.D.Ramanaidu Rural Development college,Narsapur,Medak,2017
- Structural stability of Vignana Jyothi Public school and Vignana jyothi Arts and science College, Hyderabad,2018
- Project Manager for GHMC Third party quality control consultancy for Kukatpally & Moosapet, 2018,2019,2020
- Project Manager for GHMC CRMP quality control works for Kukatpally zone,2020
- Structural Design of Thermal scanner sheds for VNRVJIET,2020
- Testing of Manhole covers for HD grade,2021
- Condition Assessment and Testing & Retrofitting of Structural Members for Rapid RMC,,2021
- Structural stability Analysis of MEIL Building [Tower 4],,Hyderabad, 2021
- Proof checking of Structural Designs for Praneeth builders club house (Precast elements),2021
- Planning ,Structural Design of sub structure and vetting of structural designs of PEB structure,2022

5.Co-curricular and Extra-Curricular Activities

5.1 Interests and Hobbies: To support students to pursue their technical goals with efficiency & standards

5.2 CCA/ECA Organized:

1. Faculty In-charge for Creative Arts Committee, VNRVJIET
2. Coordinated various activities and competitions for events during Scintillashunz, Annual & cultural day.

5.3 Counseling and Mentoring Activity:

- Mentor for 10 students of II B.Tech (Civil Engineering).
- Guiding the students to perceive their academics with good record and also encouraging them to participate and present papers in various technical fests.
- Imparting values and professional ethics to reach their goals

5.4. Committees involved in:

Department level: Chairman –Board of studies

Chairman –NBA Committee, NAAC Committee

Member - All the Department committees

Institute level:

- Member Grievance & Redressal committee
- Member Women welfare committee
- Member –Institute Academic Committee
- Member- Institute disciplinary committee

S.No	Name of the Association /Organization	Membership No.
1	Fellow, Institution of Engineers (FIE)	F-120060-3
2	Life Member, Indian Concrete Institute	MICI-11704
3	Life Member ISTE,	MISTE LM 62923
4	Life member, Association of Consulting Civil Engineers (India)	5919-L

6. Awards / Honors received: 1. Recipient of three gold medals for Academic performance at UG level

2. Topper in M.Tech (Structural Engineering)

7. Motto: One ounce of practice is worthy twenty tons of big talk.

Hence to impart practical knowledge into budding Engineers' minds.