

Name of Faculty Dr. N R DAKSHINA MURTHY  
 Designation Associate Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 22-07-2014  
 E-mail dakshinamurthy\_civil @cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CIVIL)	Awarded
PG	M. Tech. (CIVIL)	First Class
UG	B. E. (CIVIL)	First Class

Work Experience

Teaching	23 Years
Research	14 years
Industry	02 years
Others	0 Months

Area of Specialization Structural Engineering.  
 Member, C.Engg., Number: F-1233900  
 Member, ISTE., Number: LM 42784  
 Fellow Member in Institution of Engineers (India).(FIE)  
 Number: F-1233900

Professional Memberships  
 Life member Indian concrete Institute Journal (MICI)  
 Member – INSDAG.  
**Evaluator for AQIS schemes AICTE (MHRD)**  
**Reviewer for IUP, ICJ, Web of Science, Elsevier Journals**

Responsibilities held at Institution Level  
 Mentor Student Induction programme 2019-2020

1. Member, Board of Studies from 2018 to till date.
2. Member, Course Expert Group.
3. Faculty In-charge, Material Testing Laboratory (2015-2018).
4. Faculty In-charge, Concrete Laboratory. (2018-till date)
5. Responsible for preparation of SAR for two accreditations of NBA-AICTE, in the capacity of In-charge, Criteria -5 Accreditation works- Department of Civil engineering.
6. Coordinator, M.E (Structural Engg) programme (2017-Till date).
7. Member Board of Studies, KUC, GRRIT
8. Coordinator R&D
9. Member, Course Expert Group
10. Faculty Mentor NITTR

Responsibilities held at Department Level

1. **Two Ph.D.'s awarded.**  
 Five Ph.D. Scholars ongoing in the area of Structural and Transportation engineering

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.  
 Engineering Mechanics, Strength of Materials-1, Strength of Materials-2, Reinforced Concrete Structures, Structural Design-3, Structural Design-4, Concrete Technology, Prestressed Concrete, Disaster Mitigation Management, Repair and Rehabilitation of Structures, Advanced Concrete Technology, Structural Health Monitoring, Bridge Engineering.

No. of Papers Published  
 National Journals – 19 International Journals – 08  
 National Conference – 15 International Conference – 11

Projects Carried out **MODROBS-2 No's, Seminar Grant-1 No.**

Patents

One Published patent-202141028030A dated 02.07.2021  
One Granted patent No.2021104204 on 25.08.2021

Technology Transfer

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Invited Speaker

1. Delivered Lectures in Training programme for State Govt Engineers, "Design of Overhead tanks", ESCI Hyderabad.
2. Delivered Lectures in Training programme for State Govt Engineers, Utilization of Fly Ash, AP TRANSCO (VTPS).
3. Delivered Lectures in Training programme for State Govt Engineers, Quality Control in Concrete Structures TS ARD.
4. Delivered Lectures in Training programme for State Govt Engineers, Concrete Technology for Field Engineers, AP Police Housing Board.
5. Resource person for the AICTE sponsored FDP "Structural Health Monitoring of RC Structures, IARE Hyderabad
6. Resource person for the AICTE sponsored FDP "Recent Advances in concrete and constructions -2012", Pozollanas In concrete Production VNR VJ college of Engg. Hyderabad.
7. Chaired a technical session at National conference on Recent Advances in structural Engineering "NCRASE2020" organized by Dept of Civil Engineering NITJ Under TEQIP III from Aug21-22 2020(online Mode)
8. Resource person for the AICTE sponsored FDP "Condition Assessment and Retrofitting of Concrete Structures", Distress in concrete structures and remedial measures, GMR Institute of Technology RAJAM.
9. Resource person AICTE sponsored FDP KITS Warangal Jan 2021
10. Resource person for Training Programs for state government engineers at ESCI Hyderabad.

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).

1. One-week Online Faculty Development Program on "Recent Trends and Research scope in Civil Engineering", organized by Department of Civil Engineering, Chaitanya Bharati Institute of Technology, Hyderabad ,India from July 6 to July 10,2020.
2. Participated in the One Week online Refresher Course on "BHARATEEYA CHAITANYAM", organized by the GEERVANA BHARATHI of CHAITANYA SAMSKRUTHI from 29-06-2020 to 05-07-2020.
3. Participated in the One Week online Refresher Course on "Practical aspects of Civil Engineering", organized by the Sethu Institute of Technology, Kariapatti in Association with ISTE New Delhi from 3-08-2020 to 08-08-2020
4. Completed one Week online Orientation training programme for mentors organized by the AICTE New Delhi from 01-02-2021 to 05-02-2021
5. Participated in the One Week online STTP on "Sustainable Materials&Resilient Buildings-Philosophy,Design, Implementation and Performance "Organised by CED KITS Warangal,4.01.2021 to 09.01.2021, Sponsored by TEQIP III.
6. Participated in Three day National Webinar/Workshop on "Transforming Pedagogy in India " Organised by NIT Jamshedpur, 01.08.2021 to 03.08.2021, Sponsored by the AICTE New Delhi
7. Successfully attended webinar on First Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th June,2020 by MHRD's Innovation Cell
8. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020.
9. Successfully attended Webinar on First Leadership Talk with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited and Dr. Abhay Jere, Chief Innovation Officer MHRD Innovation Cell, Saturday, 16th May 2020 at 01.00 PM by MHRD's Innovation Cell

10. Successfully attended the India First Leadership Talk webinar with Prof D. P. Singh, Chairman UGC Broadcasted on 9th May 2020 by MHRD's Innovation Cell
11. National Level Training Programme on "Disaster Risk, Vulnerability Assessment and Management" organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India, New Delhi and Department of Civil Engg, Delhi University, New Delhi during 29<sup>th</sup> June - 3<sup>rd</sup> July, 2020 (1 week).
12. One Week FDP on "PESUEL" organized by Vignan Bharati institute of Technology Hyderabad from 8-06-2020 to 13-06-2020.
13. One Week FDP on "Outcome Based Education and NBA accreditation process", CBIT 28 may 2020 to 1-06-2020
14. One Week FDP on "NBA accreditation process" organized by NITTR Kolkota from 22-04-2019 to 26-04-2019.
15. AICTE STTP on MIB:IMP IITM March 25-30 march 2019
16. One week FDP on F E Applications in Mechanical and Civil Engineering CBIT Jan 23-28 Jan 2017
17. Organized Two Day National seminar "Health Monitoring of Reinforced Concrete Structures"(HMRCS) AICTE Sponsored 2013
18. Organized a two day National Conference on "Condition Assessment and Retrofitting of Structures", TEQIP (CARS) during Sep 25<sup>th</sup> -26<sup>th</sup> 2016.
19. One Week FDP on "Water Availability pollution Risk management", KITS-W
20. Organized a two day National Conference on "Health Monitoring of RC Structures for Sustainability", AICTE Sponsored.
21. One Week FDP on "Earth Quake resistance Design of Masonary Structures", IITR.may 16-21 may 2005
22. One Week FDP on "Finite Element applications in design of EQ resistant Structures", IITM.
23. One Week FDP on "Managerial capacities Enhancement programme" ( IIM Indore)

Details of Journal Publications/  
Conferences (National and  
International)

**Book Chapters:**

1. Lecture Notes in Civil Engineering, "Stress-Strain Behavior Self-consolidated Processed Recycled Aggregate Concrete Recent Advances in Structural Engineering, Vol 135, pp-51 ISSN 2366-2557, ISBN 978-981-33-6388-5, Springer Nature Singapore. [https://doi.org/10.1007/978-981-33-6389-2\\_6](https://doi.org/10.1007/978-981-33-6389-2_6) (Scopus).
2. Lecture Notes in Civil Engineering, "Studies on Infiltration Rate Pervious Concrete", Recent Advances in Structural Engineering Vol 135, pp-21-28, ISSN 2366-2557, ISBN 978-981-33-6388-5 Springer Nature Singapore. [https://doi.org/10.1007/978-981-33-6389-2\\_6](https://doi.org/10.1007/978-981-33-6389-2_6) (Scopus).

**National Journal**

1. "Comparative study on Shear performance of Blended Pozzolonic R.C beams with Fly Ash & Recycled Aggregates" Journal of Structural Engineering October-November 2020.
2. "Experimental Studies on Blended Pozzolonic Concretes With recycled aggregate in Acidic Environment", Volume 93, Number 02, February 2019, Pp 44-51. Indian Concrete Journal (ISSN 0019 – 4565)
3. "Studies on SCC using processed and unprocessed recycled aggregate" ICI journal, Oct- Dec. 2017, Vol.18. (ISSN 0972 – 2998).
4. "Studies on Punching shear resistance of two way slab specimens with partial replacement of cement by GGBS with different edge conditions" (IEI). Vol. 97, Sep-2016, Issue .3, PP: 307-312.
5. "Studies on energy absorption capacity of two way slabs with blended pozzolonic concretes subjected to flexure" PP 54-63 ICJ August 2015.
6. "Studies on response of two way blended concretes slabs under Impact loads" Pp 1-7 ICI Apr-Jun 2015 (ISSN 0972 – 2998)
7. "Moment curvature of reinforced concrete beams in ordinary grade embedded with bacteria (bacillus subtilis)" Journal of Structural Engineering, Vol. 42, No. 2, pp. 78-86 June- July 2015.
8. "A Durability performance study on bacterial concrete embedded with bacillus subtilis in ordinary grade concrete." Pp 7-15 ICI Apr-Jun 2013 Vol.14 No.1 (ISSN 0972 – 2998)
9. "Behavior of Blended Mortars under Acid Environment" The IUP Journal of Structural Engineering. ICFAI May 2013.Issue.pp 17-32 (ISSN – 0733 – 9445)
10. "Non Destructive Evaluation of Concrete Structures - A Case Study" The Bridge and the Structural Engineer Journal. (IABSE) Vol. 42 No. 4, December 2012. (ISSN 1683 – 0350)

11. "Moment-Curvature characteristics of Standard Grade Fly Ash concrete Beams" ICI journal Vol 11 no.4 pp 21-25 Jan-Mar 2011 (ISSN 0972 – 2998)
12. "Moment-Curvature characteristics of Ordinary Grade Fly Ash concrete Beams" IJCSE Vol 3. No1 2011. pp 497-508 (ISSN 0976 – 4339)
13. "Durability Studies on Rice Husk Ash High Strength Concrete " The Bridge and the Structural Engineer Journal. (IABSE) Vol.41 No.1 pp 55-75, March-2011. (ISSN 1683 – 0350)
14. "Stress- Strain Behavior of High volume fly ash concretes in Higher grades" in the "International Journal of earth sciences" pp 224-233, vol. 3, 01 spl. March, 2010 (ISSN 0974 - 5904)
15. "Constitutive Behavior of Fly Ash Concretes with steel fibers in Higher Grades" The Bridge and the Structural Engineer Journal India, vol.38 No.1, March 2008. (IABSE) (ISSN 1683 – 0350)
16. "Constitutive Behavior of Fly Ash Concretes with steel fibers in Ordinary Grades" (IEI) Institution of Engineer's Journal India. Vol 88,AUG 2007 pp 41-46 (ISSN 0020 – 336X)
17. "Effects of Risk Husk Ash on the strength and durability of concrete." ICI journal, July-Sept. 2002, Vol.3. (ISSN 0972 – 2998)

#### **International Journal**

1. "Mechanical behavior of Hybrid Fiber Reinforced High Strength Concrete with graded fibers", International Journal of Engineering (IJE) Manuscript ID: IJE-2004-2667 (R1) (SCOPUS Accepted).
2. "A Study on Fly ash Cement Mortar (FCM) Brick Masonry", Cement Wapno Beton, Vol 25, Issue 1, (2020), 45-51. <https://doi.org/10.32047/CWB.2020.25.1.5>.
3. Non-Destructive Testing of a Bridge Pier-A Case Study" Elsevier Science Direct procedia engineering(ISSN 1877-7058)-SCI
4. "Behavior of Poly Propylene Fiber Reinforced Fly Ash concrete Deep Beams in Flexure and Shear" AJCE Vol12. No2. Pp143-154.(Apr 2011) (ISSN 1563 - 0854)
5. "Effect of elevated temperature on strength of differently cured concretes- An experimental study" AJCE Vol12. No1. pp73-85.(Feb 2011) (ISSN 1563 - 0854)
6. "Sulphate Resistivity of Rice Husk Ash High Strength Concrete "International journal of Scientific Computing" pp 69-72;Vol.4 No.2, July-Dec.2010 (ISSN 0973-578x)
7. "Studies on fly ash concrete under Sulphate Attack in ordinary, standard and higher grades at earlier ages" Asian Journal of civil Engineering.vol.8 No2. 2007 pp 203-214 (ISSN 1563 – 0854)
8. Computation of Stress - Strain Behaviour of Fly Ash Concretes in Medium Grades" "International journal of computational intelligence research and applications 1(2).July-Dec 2007 pp 159-169 (ISSN 0973-6794)

#### **National Conferences**

1. "Optimization of Processed Recycled Aggregate based Self Consolidated Concrete", National Conference on Advances in Sustainable Construction Materials (ASCM-19), 16th March 2019, pp 22, NIT Warangal.
2. Behavioral studies on two way slabs with blended concretes under flexural loads National Conference on "Recent Research Advances in Civil Engineering" (RRACE), conducted by Osmania University 07th and 08th November, 2014.
3. A Durability Performance Study On Bacterial Concrete Embedded With Bacillus Subtilis In Ordinary Grade Concrete National Conference on "Advances in Earth Sciences, Structural, Geo Technical And Earth Quake Engineering 4-6th October 2012 at CBIT, Hyderabad.
4. "Studies on Fly Ash Concrete under Sulphate Attack in Ordinary and Standard Grades at Earlier Ages"" in proceedings of National Conference on Materials "AC3M" Jan 21-22, 2009 at CBIT, Hyderabad."Studies on Basic Properties of Binary Blended pozzolona Concretes" in the proceeding of National conference held at National Conference on Materials and Structures (MAST), Dec. 14-15, 2007, NIT, Warangal.
5. "Stress Strain Behaviour of Fly Ash Concretes with steel fibers inordinary Grades" in proceedings of National Conference on "Emerging Technologies in Civil Engg. For Sustainable Developments" 27-29 DEC. 2006, organized by SRKR Engineering College, Bheemavaram, AP.
6. "Studies on Fly Ash Concrete under Sulphate Attack in Ordinary Grades at Earlier Ages" National Conference on Recent Advances and Developments in Civil Engg " RADECON", 20Nov. 2006, organized by KBN Engineering College, Gulbarga, Karnataka.
7. "Stress Strain Behaviour of Fly Ash Concretes in Lower Grades" in proceedings of National Conference on Sustaining Technology for Advancements in Civil Engineering, 24-26 Nov. 2005, organized by SRKR Engineering College, Bheemavaram, AP.
8. "Compressive strength of high volume fly concretes of different grades", National work shop on "Advances in materials and mechanics of concrete structures", July 2nd & 3rd 2004, IIT Chennai.pp 11-15.

9. "Reliability studies on axially loaded short columns", National conference on "Materials and Structures". MAST-2004, Jan. 2004 at NIT, Warangal.
10. "Effect of curing Conditions on Mechanical properties of fly ash concretes", National conference on "Materials and Structures (MAST) 2004, Jan. 2004 at NIT, Warangal.
11. "Studies on workability properties of fly ash concretes." National conference on "Recent Advances in Civil Engineering (RACE) 2003" at Dec. 2003, KITS, Warangal.
12. "Strength properties of high volume fly ash concrete." National conference on developments in engineering and technology. DIET 2003. March 2003, Kakatiya Institute of Technology- & Science, Warangal.
13. "Non-Destructive Techniques for Quality control and Assurance." National conference on Advances in construction materials, AICM-2002, April-2002, NIT, Hamirpur.
14. "High performance concrete using Rice Husk Ash as an admixture", National Seminar at Chennai May, 1998 L&T Sponsored.

### International Conferences

1. "Studies on Impact Resistance of Self-Compacting Concrete with mechanically treated recycled Coarse aggregate" IOP Conf. Series: Materials Science and Engineering 197(2021) 01205 IOP Publishing doi:10.1088/1757-899X/1197/1/012051
2. "Mechanical and durability studies on blended pozzolonic concretes with fly ash & recycled aggregates", International conference on Advanced Lightweight Materials and Structures, Materials Today, <https://doi.org/10.1016/j.matpr.2020.03.174>.(Elsevier)
3. "Basic studies on SCC using recycled aggregate", International Conference On Advances in Concrete, Structural & Geotechnical Engineering, BITS-PILANI, Pilani, February 2018, pp 735-738.
4. "Punching Shear Strength On Two Way Slab Specimens: Comparison Using IS And ACI Codes" International conference on Innovations in Structural Engineering "organized by Osmania University Hyderabad, 14th to 16th December, 2015. Pp-137-145.
5. "Sustainable studies on energy absorption capacity of two way slabs with blended concretes" International conference on sustainable construction industry organized by IIT Hyderabad, 17th and 18th October, 2014.(ASCE India Section) pp-350-358.
6. "Non-Destructive Testing of a Bridge Pier-A Case Study" 2nd international conference on Rehabilitation and Maintenance in Civil Engineering SOLO Indonesia 8th-10th March-2012.
7. "Studies on Durability and Performance of Mineral Admixture Concretes" International Conference on Recent Trends in Engineering, Technology & Management 26-27 February 2011, organized by BIET; Jhansi.
8. "Compressive Strength of Fly ash concretes Subjected to Elevated Temperatures" International Conference on Advances in Concrete and Construction Technology, 7-8 December 2005, organized by SRM Engineering College, Chennai. (ISBN 81 – 7525-650-8)
9. "Split Tensile Strength of High Volume Fly Ash Concretes in Lower, Medium and Higher Grades with and without Steel Fibers in different grades" International Conference on Advances in Concrete and Construction Technology, 7-8 December 2005, organized by SRM Engineering College, Chennai. (ISBN 81 – 7525-650-8)
10. "Super Plasticizers in high strength mortars for use in Ferro Cement works." International conference on our world in concrete & structures, Aug 2001, Singapore. VOLXX(2001)(ISBN -981 – 04-2513-9)
  1. Invited as Session Speaker for International Conference on Composite Materials Forum (CMF-2021) (As a parallel forum of Nano S&T-2021) , which is going to be held during May 19-21, 2021 (next year) in Osaka, Japan.
  2. Chaired Session at International Conference on Emerging Trends in Engineering (ICETE ) organized in India during 22-23 March 2019 at University College of Engineering (Autonomous) , Osmania University, Hyderabad, India.

3. Visiting faculty at College Of Engineering Kakatiya University 2013-14.
4. Visiting faculty at College Of Engineering JNTU Manthani 2012-13.
5. Panel Examiner for Ph.D Scholars JNTU Hyd
6. Panel Examiner for M.Tech JNTU Hyd
7. Panel Examiner for M.Tech Osmania University
8. Panel Examiner for M.Tech Kakatiya University