

Name : Boppana.Narendra Kumar
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Experience (in years): Teaching: 18 years Research: 11 years

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
01	B.Tech	2001	Civil Engineering
02	M.Tech	2003	Structural Engineering
03	Ph.D	2016	Structural Engineering

2. Teaching and Learning:

2.1 Teaching Interests: Strength of Materials, Building Materials, Solid Mechanics, Structural Engineering (RCC & STEEL), Structural Analysis, Engg Drawing, Bridge Engineering. Finite Element Method, Structural Dynamics.

2.2 Novel Teaching & Learning Techniques adopted: WIT & WIL, NPTEL, TED Videos

2.3 Involvement in curriculum updating / Design:

Curriculum development to impart up to date knowledge. Regularly subject content is updated with changing Industrial and Technological needs by removing the outdated content

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- To involve the Students in the Consultancy projects
- To promote work efficiency and good attitude towards work, in organizations

3.2. CCA/ECA Organized:

- As a NSS coordinator Conducted Several Social Activates in VNR VJIET & Slum Villages
- Warden for VNR VJIET Hostels
- Incharge, Department Guest Lectures
- Coordinator for Diploma In Civil Engineering
- As a Coordinator for Civil Engineering Association, organized several programs for the benefit of student community
- Member of an Organizing committee for Alumni.
- Associate Editor in Monthly News Bulletin of Vignana Vahini
- Organized Blood donation camps at VNR VJIET Campus.
- Organized Plantation Programme at VNR VJIET Campus.
- Organized Panel Discussion in Attacks on Women – Role of Society “at VNR VJIET Campus., II & III B.Tech Students are participated in the Discussion.
- Mega Health Camps are conducted at various villages in twin cities .
- Career Counselling and Guidance for school children in ZPPH Schools
- 5-Day & 7 –Day Special camps at various Slum villages in Medak Dist .

3.3. CCA/ECA participated:

- Member of an Organizing committee for Cultural fest SCINTILLASHUNZ being conducted at VNR VJIET.
- Member of an Organizing committee for Sports fest being conducted at VNR VJIET.

3.4. Counseling and Mentoring Activity:

- Counselor for I B.Tech Students

3.5. Committees involved in:

Department level:

- Coordinator , M.Tech Structural Engineering Programme
- Coordinator , Diploma in Civil Engineering Programme
- Coordinator Alumni in Civil Engineering
- Coordinator Department Guest lectures
- Coordinator for Department Placements
- Coordinator for Civil Engineering Association
- Member of an Organizing committee for Alumni
- Associate Editor, Vignana Vartha
- As a Associate coordinator Conducted National level Technical Contest called STAHPANA for three consecutive years successfully at VNRVJIET

Institute Level:

- Dy.Dean Admin & Finance during 2016- 2020
- Hostel Warden during 2008-2016

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted

- Organized Two Day Online Workshop on Quality in Engineering Education-An Outcome Based Education(OBE) Approach from **26th February to 27th February 2021** under AICTE- MARGDARSHAN Scheme
- Organized 2-Day Workshop on “NAAC Criteria wise Orientation programme from **29 December & 30 December 2020** for NAAC Mentee Institutions under Paramarsh Scheme
- Organized 2-Day Workshop on “NAAC Criteria wise Orientation programme from **15 November & 16 November 2020** for NAAC Mentee Institutions under Paramarsh Scheme
- Organized 2-Day Workshop on “NAAC Criteria wise Orientation programme from **8 October & 9 October 2020** for NAAC Mentee Institutions under Paramarsh Scheme
- Organized 2-Day Awareness Workshop on “NAAC Revised Accreditation Framework (RAF) from **07 March 2020 to 09 March 2020** for NAAC Mentee Institutions under Paramarsh Scheme
- Organized 2-Day Awareness Workshop on “NAAC Revised Accreditation Framework (RAF) from **10 March 2020 to 11 March 2020** for NAAC Mentee Institutions.
- Organized 2- Week AICTE Sponsored Staff Development Program on “ Recent advances in Concrete& Construction” (**RACC-12**) from **30th April – 12th May 2012**
- Organized 2- Day National Workshop on “ Recent advances in Concrete Technology” under TEQIP-II during **23rd & 24th May 2013.**

4.2 Attended:

Attended a five days Webinar on Indian Seismic Codes IS 1893: 2016 & IS 13920-2016 at RMK Engineering College , Thiruvallur during 18 May 2020- 22 may 2020..

- A short-term course on “Advanced Structural steel design” for University faculty sponsored by ministry of steel, Government of India, organized at National Institute of Technology, Warangal during 27th November to 3rd December 2004.
- A short term course on “seismic soil structure interaction analysis in Time domain (3 SIATD 2007)” organized by IIT , Chennai during 26th– 30th July 2007 .
- Attended a five day workshop on “Teaching Methodologies” conducted by VNR VJIET from 10th May 2008 to 14th May 2008
- A National Work shop on Finite element Applications In Engineering” Organized by VNRVJIET during 4-6th September 2008 .
- Attended 2- day National Workshop on “Recent Issues & Developments in Pavement Engineering” (RIDPAVE) from 27th – 28th August 2010. Organized by VNR VJIET.
- Attended 1- day Seminar on “Research Publication and Documentation” 04th May 2013. Organized by Department of Computer Science and Engineering, VNR VJIET.
- Attended 2- Week AICTE Sponsored Staff Development Program on “Finite Element Applications in Civil Engineering” (FEACE-2013) from 03rd June to 15th June 2013 Organized by VNRVJIET.
- Attended National Work shop on” Reinforced Earth –Concepts , Applications & Practices in Geotechnical Engineering” from 20 -22 Dec 2014 Organized by VNRVJIET
- Attended 2- Week ISTE STTP Sponsored workshop on Introduction to Structural Engineering from 30th November 2015 to 4th December 2015 and 4th January 2016 to 9th January 2016 Organized by IIT Kharagpur.
- Attended 3-day National Workshop on “Urban Traffic and Transportation Planning Perspective for Smart Cities” (UTTPPSC 2016) 20th – 22nd January 2016. Organized by VNR VJIET.
- Attended Training &Orientation Programme on “NSS’ 4th – 10th August 2016 Organized by Empanelled Training Institute , OU , Hyderabad.
- Attended one- Week AICTE Sponsored National Workshop on “Traffic and Transportation Planning for Smart Cities” from 20th November to 25th November 2017 Organized by VNRVJIET.
- Attended 2-day National Conference on “Transportation Research Efforts for Ecological Sustainability (TREES -2018) 28th & 22th September 2018. Organized by VNR VJIET.
- Attended one Day AICTE Sponsored Workshop on “Examination Reforms” on 14th December 2018 Organized by JNTU , Kukatpally, Hyderabad..

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

S.No	Name of the organization	Sponsored	Period
1	National Academy of Construction (NAC)	NAC	26 August 2017
2	National Academy of Construction (NAC)	NAC	16 September 2016
3	National Academy of Construction (NAC)	NAC	22 Sept 2016
4	National Academy of Construction (NAC)	NAC	22 August 2015
5	National Academy of Construction (NAC)	NAC	08 Sept 2015

6	National Academy of Construction (NAC)	NAC	27 September
7	National Academy of Construction (NAC)	NAC	06 October 2015
8	National Academy of Construction (NAC)	NAC	12 July 2014
9	National Academy of Construction (NAC)	NAC	08 Aug 2014
10	National Academy of Construction (NAC)	NAC	04 Sept 2014
11	National Academy of Construction (NAC)	NAC	18 Dec 2014

5.2. Articles / Chapters published in Books:

Published a Book Chapter in Advances in Sustainable Construction Materials (Springer Publications) , Title : Influence of GO as Advanced nano material on high strength self compacting concrete, Volume 124, **March 2021** . ISSN 2366-2557.

Published a Book Chapter in Advances in Sustainable Construction Materials (Springer Publications) , Title Performance Studies on self Compacted Geo polymer Hybrid Fiber Reinforced Concrete . **March 2020**, Pg No 84-92, ISSN 8378-1207

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG:

- Development of high strength self-compacting concrete Using graphene compound , during the academic year 2019-2020.
- Development of Geo-polymer Self Compacting Concrete at ambient curing conditions , during the academic year 2018-2019.
- An Experimental Investigation on Mechanical Properties of Self-Curing concrete incorporating Fly ash and Quartz Materials. during the academic year 2017-2018
- An experimental investigation on flexural behaviour of slabs with hybrid fiber reinforced high strength self-compacting concrete, during the academic year 2016-2017
- An experimental study on high strength pretension beams & slabs in cooperating quartz materials of hybrid fibers self compacting concrete, during the academic year 2015-2016

Study on Mechanical Properties of ultra Fibre Self compacting Concrete, during the academic year 2015-2016

- Study on Hardened properties of Ultra High performance Self Compacting Fiber reinforced concrete,
- “Analysis and Design of MAGLEV Structure Using Ansys”,

- Effect of mineral & Chemical admixtures on high performance concrete
- Study on mechanical properties of M60 grade concrete using steel fibers
- Study on hardened properties of ultra high performance self compacting fiber reinforced concrete
- Durability Studies on High Strength Self Compacting Hybrid Fibre Reinforced concrete
- An Experimental investigation on Flexural Behaviour of slabs with hybrid fibre reinforced high strength self compacting concrete
- Study on Flexural Behaviour of pre tensioned slabs using hybrid fibre reinforced high strength self compacting concrete .
- An experimental investigation on flexural behaviour of slabs with hybrid fibre reinforced high strength self compacting concrete.
- An experimental study on high strength pre tension beams & slabs incorporating quartz materials of hybrid fibers self compacting concrete

b) PG:

- Development of self-compacting Geopolymer concrete at ambient Curing condition, during the academic year 2020- 2021
- Performance Studies on High Strength Self compacting geo polymer hybrid fiber reinforced concrete during the academic year 2020- 2021
- Influence of Graphene oxide as Nano material on Strength and Performance Characteristics of High Strength Self Compacting Concrete, during the academic year 2020- 2021
- An experimental investigation on high strength self compacting concrete incorporating red mud with cementitious materials, during the academic year 2020- 2021
- Effect of Zeolite and Silica Fume on Mechanical and Durability Properties of Self-Compacting Concrete, during the academic year 2019-2020
- Mechanical And Durability Properties of Self Curing and Self Compacting Concrete Using Nano Silica as Mineral Admixture. during the academic year 2019-2020
- Development Of Self Compacting Geo-Polymer Concrete Containing Fly Ash, GGBS and Quartz Sand Under Ambient Curing, during the academic year 2018-2019
- Experimental Investigation On Self Compacting Concrete Addition Of Marble Powder and Silica Fume, during the academic year 2018-2019
- Study on Mechanical Properties of High Performance Self –Compacting Concrete
- Study on Workability and strength Properties of High Performance Self Compacting Concrete
- Effect of Water powder ration on High Performance Self Compacting Concrete
- Experimental Study on High Strength Hybrid Fiber Self Compacting concrete made with Quartz materials
- Development of High Strength Steel Fiber Reinforced Self Compacting Concrete Incorporating Quartz materials
- Durability Studies on High Strength Hybrid Fiber Reinforced Self Compacting Concrete
- Development of high strength steel fiber reinforced self compacting concrete Incorporating quartz materials

- Experimental study on high strength hybrid fiber self compacting concrete made with quartz materials
 - Durability studies on high strength hybrid fibre reinforced self compacting concrete
 - Study on Structural Behavior of Reinforced Cement Concrete and Pre-Tensioned Slabs of High Strength Hybrid Fibre Self Compacting Concrete.
 - Pushover Analysis of Plan Irregular Reinforced Concrete Buildings with and without Lead Rubber Base Isolator.
 - Study on Microstructure of High Strength Hybrid Fiber Reinforced Self Compacting Concrete Containing Quartz Materials Subjected to Marine Environment
 - Development of High Performance Fiber Reinforced Self Curing Self Compacting Concrete Using Quartz Fillers.
 - Development of High Strength Self Consolidating Concrete containing Fly ash and GGBS.

5.5. Research Interests:

- Concrete Technology, Special Concretes, Static and dynamic Analysis, Computer Aided Design/ Engineering, Finite Element Analysis.
- Nano Materials in concrete

5.6. Ph.D students: Nil

- Enrolled:
- Submitted:
- Awarded:

5.7. 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	Development of Fly ash-GGBS based Self Compacting Geo-Polymer Concrete with and without Steel Fibres	Computational Engineering and Physical Modeling Volume N0:4 and Issue :3 May 2021	2588-6959	0.1	National
2	GO as Nano material on High strength self compacting concrete	Material Today Proceedings . <u>Volume 43, Part 2</u> , 2021, Pages 2280-2289, April 2021.	ISSN: 2214-7853	0.42	International
3	Influence of GO as Advanced nano material on high strength self compacting concrete	Advances in Sustainable Construction Materials Volume 124, March 2021	ISSN 2366-2557	0.11	International

4	Influence of Red Mud on the Performance Characteristics of High Strength Self Compacting Concrete	PROTEUS JOURNAL VOLUME 11 ISSUE 10 November 2020	ISSN/eISSN: 0889-6348	0.1	International
5	Development of Graphene Oxide on Cement Mortar and Concrete: A Review	International Journal of Engineering Research in Current Trends (IJERCT), Volume-2 Issue-3, June- 2020	ISSN: 2582-5488	0.12	International
6	Effect of Quartz Materials on Properties of High Strength (M60) Self Compacting Concrete	International Journal of Engineering Research in Current Trends (IJERCT), Volume-2 Issue-3, June- 2020	ISSN: 2582-5488	0.12	International
7	Improving Hardened Properties of Concrete by Adding Fly Ash and Micro Silica.	International Journal of Engineering Research in Current Trends (IJERCT), Volume-2 Issue-3, June- 2020	ISSN: 2582-5488	0.12	International
8	Influence of Nano-Silica and Nano-Alumina on Properties of Concrete	International Journal of Engineering Research in Current Trends (IJERCT), Volume-2 Issue-3, June-2020	ISSN: 2582-5488	0.12	International
9	Red-Mud as a Replacement of Cementitious Materials - A Review	International Journal of Engineering Research in Current Trends (IJERCT), Volume-2 Issue-3, June- 2020	ISSN: 2582-5488	0.12	International

	Development of High Strength Self Compacting Concrete by Incorporating Red Mud	International Journal of Civil Engineering & Technology. Vol.No: 5 , Issue No 3 , Page No 24 -31 May 2020	ISSN 0976 - 6316	0.63	International
10	Performance Studies on self Compacted Geo polymer Hybrid Fiber Reinforced Concrete	Springer Publications Pg No 84-92 March 2020	8378-1207	0.32	International
11	Physical and Mechanical Properties of Self-curing and Self-compacting Concrete using Nano-silica as Mineral Admixture	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-1, November 2019	2278-3075,	0.19	International
12	Development of self compacting geopolymer concrete at ambient curing conditions.	Journal of civil engineering and environmental technology. Issue No. 6 (July- Sept, 2018)	Volume No. 5,	0.29	National
13	Development Of High Strength Self Consolidating Concrete Containing Fly Ash & GGBS:	International Journal of Research in Engineering and Technology Volume: 07 Issue: 09 Sep-2018	e-ISSN: 2395-0056	0.11	International
14	Experimental investigation on self compacting concrete –Addition of marble powder and silica fume.	Journal of civil engineering and environmental technology.(JCEET) Volume No. 5, Issue No. 6, (July-September, 2018) Pg No 122-131	p-ISSN: 2349-8404 e-ISSN: 2349-879X	0.29	National

15	Durability properties of ternary blended geopolymer concrete under ambient curing	International Journal of Engineering and Technology. Vol.No :07 , No:2.1 , Page No 46 to 50, September 2018.	4428-8214	0.12	International
16	Development of High Strength self consolidating concrete containing fly ash and GGBS	International Journal of Research in Engineering and Technology Vol.No :07 , No:09 , Page No 80 to 84, August 2018	2319-1163	0.2	International
17	An Experimental study on strength behaviour of reinforced cement concrete and pre-tensioned slab panels using high strength hybrid fibre self-compacting concrete	Journal of Structural Engineering Vol.No :44 , No:02 , Page No 127 135, JULY 2017.	2278-7887	0.98	National
18	Comparative Study on High Strength Fiber Reinforced Self Curing SCC and Conventional Cured SCC.	Journal of Structural Engineering (I Managers Publications) Vol.No :05 , No:02 , Page No 32 -36, 2016.	2278-7887	0.98	National
19	Study On Microstructure Of High Strength (M100) Hybrid Fiber Self Compacting Concrete Containing Quartz Materials Subjected To Acid Attack.	Journal of Civil Engineering (I Managers Publications) Vol.No :6 , Issue No:02, Page No 25-34, 2016.	2231-1068	0.9	National
20	Abrasion , Permeability and Acid Resistance of	Journal of Structural Engineering.	2278-7887	0.98	National

	High Performance-Self Compacting Hybrid Fiber Reinforced Concrete Using Quartz Materials	Vol.No :43 , Issue No:02, June 2016, Page No 187-195, 2016.			
21	Flexure behaviour of reinforced cement concrete and post tensioned beams using high strength hybrid fiber self compacting concrete using quartz materials.	Indian Concrete Journal (ICJ) Vol.No :90 , Issue No:02, Page No - , 2016.	IS0019-4565	1.6	National
22	Stress-Strain Behaviour of M100 grade High Strength Hybrid Fibre Self Compacting Concrete Using Quartz Materials	Journal of Structural Engineering (I Managers Publications) Vol.No :05 , No:01, Page No19 -28 , 2016.	2278-7887	0.98	National
23	Development of Ultra High Strength Self Compacting Fiber Reinforced Concrete Using Latest Admixtures	Journal of Civil Engineering (I Managers Publications) Vol.No :06 , No:03 , Page No 14-20, 2016.	2231-1068	0.9	National
24	Chloride Permeability of M100 Grade Concrete Using Quartz Fillers in Hybrid Fiber Reinforced Self Compacting Concrete	International Journal of Earth Sciences & Engineering	2319-6491	1.1	International
25	Physical and Chemical Durability Studies on High	Indian Concrete Journal (ICJ)	IS0019-4565	1.6	National

	Performance Self Compacting Hybrid Fiber Reinforced Concrete				
26	Study on the Effect of Quartz Sand and Hybrid Fibers on the Properties of Fresh and Hardened High Strength Self Compacting Fiber Reinforced Concrete	Journal of Civil Engineering (I Managers Publications)	2231-1068	0.9	National
27	Corrosion Resistance of M100 Grade Concrete Using Quartz Sand and Quartz Fillers in Hybrid Fiber Reinforced Self Compacting Concrete	Journal of Structural Engineering (I Managers Publications)	2278-7887	0.98	National
28	Study on Chloride Permeability of M100 Grade Concrete Using Quartz Sand and Quartz Fillers in Hooked End Steel Fiber Reinforced Self Compacting Concrete	Journal of Structural Engineering (I Managers Publications)	2278-7887	0.98	National
29	Study On Structural Behavior Of Reinforced Cement Concrete Slabs Of High Strength Hybrid Fiber Reinforced Self Compacting Concrete	Journal of Structural Engineering	2278-7887	0.98	National

30	Push Over Analysis Of Plan Irregular Reinforced Concrete Buildings With And Without Lead Rubber Base Isolator	Journal of Structural Engineering	2278-7887	0.98	National
31	Development of High Strength (M100 Grade) Self Compacting Concrete using Quartz Sand as an Alternative of Natural River Sand.	Indian Concrete Journal (ICJ)	IS0019-4565	1.6	National

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Influence of Quartz Materials on Flexural Behaviour of RCC & Post Tensioned Beams Using High Strength Self Compacting Concrete	International Conference on “ Latest Trends in Civil , Mechanical and Electrical Engineering “ (LTCMEE -2021) Organized Maulana Azad National Institute of Technology(MNIT) Bhopal.	International	12-13, April 2021
2	Physical and Chemical Performance Studies on High Strength Self Compacting Concrete using Sustainable Materials	International Conference on “ Latest Trends in Civil , Mechanical and Electrical Engineering “ (LTCMEE -2021) Organized Maulana Azad National Institute of Technology(MNIT) Bhopal.	International	12-13, April 2021

3	Corrosion of Reinforced Concrete structures in Urban and Marine Environment it's Causes and Control Methods	International Conference on " Latest Trends in Civil , Mechanical and Electrical Engineering " (LTCMEE -2021) Organized Maulana Azad National Institute of Technology(MNIT) Bhopal.	International	12-13, April 2021
4	Influence of Nano silica Nano Alumina and Graphene Oxide on Properties of Self Compacting Concrete for Urban High Rise Structures – A New Perspective	International Conference on Recent Advances in Civil Engineering for Sustainable Development. (RACESD-2021) organized by NIT Bhopal	International	13-14 February 2021
5	Novel and Improved methods to Evaluate the Performance Properties of a Concrete	Virtual International Conference on Sustainable Building Materials and Construction (ICSBMC-2021) organized by NIT Surat, Gujarat	International	4-6 February 2021
6	Study on Effect of Nano Structured Fly ash and Graphene Oxide on Strength and Performance Characteristics of High Strength Self Compacting Concrete	Virtual International Conference on Sustainable Building Materials and Construction (ICSBMC-2021) organized by NIT Surat, Gujarat. organized by NIT Surat, Gujarat	International	4-6 February 2021
7	Effects of Fly Ash, Slag, and Nano-Silica Combination on Corrosion Induced Crack	FT-21, The International Conference on Futuristic Technology 2021 Organized IIT Delhi.	International	22-24 January 2021

	in Reinforced Self Compacting Concrete			
8	Study on Graphene Oxide as advanced Nano-Material to Improve the performance Characteristics of High strength self-compacting concrete	FT-21, The International Conference on Futuristic Technology 2021 Organized IIT Delhi	International	22-24 January 2021
9	Influence Of Graphene Oxide As Nano Material On Fresh And Hardened Properties Of Ultra High Strength Self-Compacting Concrete	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India.	International	19 th to 21 December 2020
10	A Study on Novel Approaches to Measurement of Corrosion of Reinforcement in Concrete Structures	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020
11	The Influence of Red Mud on the performance characteristics of High	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020	International	19 th to 21 December 2020

	Strength Self Compacting Concrete	School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India		
12	Study on Structural behaviour of RCC panels of High strength Self-Compacting hybrid fiber reinforced concrete.	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020
13	The Impact of High Volume Fly Ash, GGBS, and Bauxite Residue on the properties of Ultra High Strength self-consolidating Concrete	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020
14	Use of Smart Sensing Technologies to Evaluate the Properties of Self Compacting Concrete with Inclusion of Marble Powder, Metakaolin and silica Fume as Sustainable	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020

	energy Materials.			
15	Development in Sustainable Infrastructure- Study on Structural Behaviour of Reinforced Concrete Beam using High Strength SCC Inclusion of Quartz Materials	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020
16	The Use of Artificial Intelligence in High Strength Self Compacting Concrete using sustainable advanced materials	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020
17	The Use of MATLAB & PYTHON in High Strength Hybrid Fiber Self Compacting Concrete With inclusion of Advanced Engineered Materials - An approach to function approximation of Compressive strength	2 nd International Conference on Recent Developments in Sustainable Infrastructure-2020 School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar, Odisha, India	International	19 th to 21 December 2020

18	The Use of Artificial Intelligence in High Strength Self Compacting Concrete using Sustainable advanced materials	8 th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering - (AFTMME 2020)	International	19-20 December 2020
19	The use of MAT Lab& PYTHON in High Strength Hybrid Fiber Self Compacting Concrete with inclusion of Advanced Engineered Materials – An approach to approximation of Compressive Strength	8 th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering - (AFTMME 2020)	International	19-20 December 2020
20	Characteristic study on Geo-polymer based self-compacting concrete containing quartz as an alternative of natural river sand	International E-Conference On Materials Processing & Characterization CBIT , Hyderabad	International	18 th & 19 th Sept 2020
21	Influences of Nano Materials on the Rheological Properties of Self Compacting Concrete	International E-Conference On Materials Processing & Characterization CBIT , Hyderabad	International	18 th & 19 th Sept 2020
22	An Experimental Investigation on New	International E-Conference On Materials Processing	International	18 th & 19 th Sept 2020

	Engineered Nano Materials on the properties of High Strength Self Compacting Concrete	& Characterization CBIT , Hyderabad		
23	An Experimental Investigation on Rheology and Strength Properties of Self Compacting Geo-Polymer Concrete by using EXCEL , MATLAB and Python.	International Conference on Sustainable Infrastructure with Smart Technology for Energy and Environmental Management FIC-SISTEEM 2020 (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	03-04, Sept.2020
24	A Performance studies on high strength hybrid fiber reinforced self compacting concrete using Red Mud and GGBS as composite materials	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020) (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	07-08, August 2020
25	Behavior of chemically engineered graphene oxide Nano material on high strength hybrid fiber reinforced geopolymer based self-compacting concrete	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020) (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	07-08, August 2020

26	Influence of Advanced Engineering Materials On the Performance Characteristics Of Self-Compacting Concrete	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020) (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	07-08, August 2020
27	Analysis of Nano Silica on improvement of strength properties and corrosion resistance of reinforced cement concrete structural elements	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020) (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	07-08, August 2020
28	A Study on Novel Approaches to Measurement of Corrosion of Reinforcement in Concrete Structures	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020) (BANNARI AMMAN INSTITUTE OF TECHNOLOGY), Tamil Nadu.	International	07-08, August 2020
29	An Evaluation of Microstructure Characteristic as of Cement Composites by Addition of Graphene as Advanced Nano material	International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD-2020)	International	07-08, August 2020

30	Effect of Graphene Oxide on Cement Composites and Concrete Microstructure: A Review	Advances in Sustainable Construction Materials (ASCM 2020) organized NIT Jamshedpur	National	03-04 August 2020
31	Influence of Nano Silica, Nano Alumina and Graphene Oxide on properties of Self Compacting Concrete – A Review	Advances in Sustainable Construction Materials (ASCM 2020) organized NIT Jamshedpur	National	03-04 August 2020
32	Influence Of Graphene Oxide As Advanced Nano Material On Fly Ash And Silica Fume Based High Strength Self-Compacting Concrete	Advances in Sustainable Construction Materials (ASCM 2020) organized NIT Jamshedpur	National	03-04 August 2020
33	Development Of High Strength Self Compacting Concrete Incorporating Red mud With Cementitious Materials	Advances in Sustainable Construction Materials (ASCM 2020) organized NIT Jamshedpur	National	03-04 August 2020
34	Development of Standard strength of concrete by incorporating fly	National Conference in recent advances in Civil Engineering	National	22 & 23 June 2020

	ash and quartz powder			
35	Effect Of Super Plasticizers On Fresh And Hardened Properties Of Standard Concrete Using With Fly-ash And Quartz Materials	National Conference in recent advances in Civil Engineering	National	22 & 23 June 2020
36	Predicting Split Tensile Strength of Hybrid Fiber Self Compacting Concrete By using Artificial Intelligence	National Conference on Computational Intelligence and Applications, ,SIRT Bhopal	National	June 19 & 20 June 2020
37	Red Mud as replacement of Cementitious Material -A Review	National Conference on Advances in Civil Engineering , ,SIRT Bhopal	National	June 19 & 20 June 2020
38	Recent Research on Nano silica and Nano Alumina Based Cement mortar and Concrete	National Conference on Advances in Civil Engineering SIRT Bhopal	National	June 19 & 20 June 2020
39	Influence of Graphene Oxide on cement mortar and concrete-A review	National Conference on Advances in Civil Engineering ,SIRT Bhopal	National	June 19 & 20 June 2020
40	Influence of Quartz Materials on Performance of High Strength Self Compacting Concrete	National Conference on Advances in Civil Engineering ,SIRT Bhopal	National	June 19 & 20 June 2020
41	Development of High Strength Self Compacting Concrete using Fly ash & silica Fume	National Conference on Advances in Civil Engineering ,SIRT Bhopal	National	June 19 & 20 June 2020

42	Graphene Oxide as Nano Material in Cement Composites - A Review	6th National Conference on Advances in Civil Engineering for Sustainable Environment	National	1 June 2020
43	Comparative Study on Influence of Steel and Glass Fibres on High Strength Self Compacting Concrete	6th National Conference on Advances in Civil Engineering for Sustainable Environment	National	1 June 2020
44	An Experimental Investigation on flow and Strength Properties of Self Compacting Geo-Polymer Concrete by performing regression analysis using MS EXCEL & MATLAB	International Conference on "Construction Materials and Smart Structures for Sustainable Development (ICCMSSSD)-2020" from	International	29 th - 31st of Jan' 2020.
45	An Experimental studies on Self Compacting Geo-Polymer Concrete containing Metakoalin at Ambient Curing Condition	International Conference on "Construction Materials and Smart Structures for Sustainable Development (ICCMSSSD)-2020" from	International	29 th - 31st of Jan' 2020.
46	Development of Self Compacting Geo-Polymer Concrete at Ambient Curing Condition	Advances in Sustainable Construction Materials (ASCM'19) at NITW.	National	15 th & 16 th March, 2019

47	Performance Studies On Self Compacting Geo Polymer Hybrid Fibre Reinforced Concrete	Advances in Sustainable Construction Materials (ASCM'19) at NITW	National	15 th & 16 th March, 2019
48	Development of self compacting geopolymer concrete at ambient curing conditions.	International Conference on Urban planning, Architecture, Civil and Environmental Engineering, Jawaharlal Nehru University, New Delhi.	International	July'18 & 19, 2018
49	Experimental investigation on self compacting concrete –Addition of marble powder and silica fume	International Conference on Urban planning, Architecture, Civil and Environmental Engineering, Jawaharlal Nehru University, New Delhi.	International	July'18 & 19, 2018 July'18 & 19, 2018
50	Durability Properties of Ternary Blended Geo-polymer Concrete Under Ambient Curing	2 nd International Conference on Smart Sustainable Cities	International	28 th and 29 th December 2017
51	A Novel Application Of Sustainable Concrete In Urban Context.	46th ISTE Annual National Convention & National Conference On "Intelligent Technologies for better Tomorrow"	National	10th -12th February 2017
52	Development Of High Strength Fiber Reinforced Self Curing Self Compacting Concrete Using Quartz Fillers	Structural Engineering Convention (SEC - 2016)	International	21st -23rd December 2016
53	Bhuj and Nepal Earth quakes Technical fallout and	Disaster Preparedness , Mitigation and Reconstruction of Sustainable Society	National	11-12 th Feb 2016

	lessons to be learnt			
54	An Experimental Study On High Strength Post-Tension Beams Incorporating Quartz Materials Of Hybrid Fiber Self Compacting Concrete	UKIERI Concrete Congress Concrete Research Driving Profit and Sustainability	International	2 – 5 November 2015
55	Chloride Permeability of M100 Grade Concrete Using Quartz Sand and Quartz Fillers in Hooked End Steel Fiber Reinforced Self Compacting	i-manager's International Conference on Engineering and Technologies (IICET 2015)	International	10 th – 11 th April, 2015
56	Physical and Chemical Durability Studies on High Performance Self Compacting Hybrid Fiber Reinforced Concrete	Structural Engineering Convention –IIT Delhi	International	22 Dec to 24 Dec 2014
57	Mechanical Characteristics of High Strength Self Compacting Fiber Reinforced Concrete Incorporating Quartz Filler & Hybrid Fibers	International Conference on Emerging Trends in Civil Engineering	International	06 Jan to 08 Jan 2014

58	Development of Ultra High Strength Self Compacting Fiber Reinforced Concrete with Quartz Sand and Quartz Powder	4 th Nirma university International Conference on Engineering	International	28 Nov to 30 Nov 2013
59	Effect of Chemical Admixtures on Ultra High Strength Self Compacting Fiber Reinforced Concrete	Indian Science Congress Association	International	08 Dec to 10 Dec 2013
60	Effect of VMA and W/P ratio on ultra high strength self compacting fiber reinforced concrete	Innovations in Concrete (ICI –IWC 2013)	International	October 23-26, 2013
61	Study on hardened properties of ultra high strength self compacting fiber reinforced concrete	Sustainable Innovative Techniques In Civil and Environmental Engineering (organized Jawaharlal Nehru University, New Delhi)	International	5th & 6th June 2013
62	Effect of super plasticizers on High performance concrete	Advances in structural Engineering	National	05-06 January 2012
63	Strength properties of polypropylene fibre reinforced concrete	Recent advances in structural Engineering	National	05-06 January 2012
64	Geo-polymer concrete- An overview	special concretes	National	23-24 December 2011

65	Bacterial concrete- An innovative solution to concrete crack remediation	special concretes	National	23-24 December 2011
66	Quality assessment of New Concrete structures by NDT techniques	Condition monitoring ICCM-2011 organized by GITAM University ,Vizag	International	23-24 February 2011
67	Effect of fine aggregate replacement with flyash on some properties of concrete	Recent advancements in Concrete and construction organized by Vasavi college of Engineering	International	7 th – 9 th February 2008.
68	Analysis and design of MAGLEV Bogie structure using ANSYS	Civil engineering “ Applications organized by Civil engineering Association, VNRVJIET, HYDERABAD	National	24-25 January 2007.
69	Analysis and design of ASRS system using Finite element analysis	National seminar on Civil engineering Applications	National	24-25 January 2007

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Development & Characterization of geo-polymeric binders for sustainable Concrete	DST (SERB)	Applied	--	--
2	Development of Ultra High Performance Self Compacting Fiber Reinforced Concrete (UHPSCFRC)	DST (SERB)	Applied	--	--
3	An Experimental Study on Effect of Quartz Powder and Quartz Sand in Self Compacting Concrete	UGC Major	Applied	--	--
4	Strength and Corrosion Characteristics of Reinforced Cement Concrete slabs & Beams	UGC Minor	Applied	--	--

	with Hybrid Fiber Reinforced High Strength Self Compacting Concrete using Quartz Materials				
5	Characterization of geo-polymeric binders	AICTE	Applied	--	--
6	Recent Advances in Concrete & Construction “(RACC-12)	AICTE (SDP)	30 TH April to 12 May 2012	2.62	Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1	Mix Designs for M20 , M25, M30,M35,M40,M45 M50., M55 M60 and M65 grades concrete using with sustainable materials	KSR Crest Buildcon LLP	December 2020- March 2021	1,00,000	Completed
2	Structural Design of PT Slab Man Hole Covers	Rainbow Precast Products	January 2021– March 2021	30,0000	Completed
3	RUB Works, Retaining Walls , BT Roads Water Pump House works etc	GHMC TPQC Works	August 2020- March 2021	5,000,00	Completed
4	Mix Design for M25 & M30 grade	Radiant Cables Pvt Ltd	August 2016	20,000	Completed
5	Concrete Material Testing	Radiant Cables Pvt Ltd	March 2016	8000	Completed
6	Mix Design for M25 & M30 grade Concrete	VNR VJIET Hostel Buildings	Jan 2015	----	Completed
7	Quality Control of Concrete	VNR VJIET Hostel Buildings	Aug 2014	-----	Completed
8	Development of Mix design	M/s Madhucon Sugar and Power Industries Ltd	August 2014	10,000-00	Completed
9	Concrete Material Testing	VNR VJIET Hostels	----	----	Completed
10	Study on mechanical properties on M20 grade concrete (Using OPC 53 Grade Cement)	Ramboll Pvt Ltd Hyderabad	October 2013	22,000-00	Completed

	with and without curing				
11	Study on mechanical properties on M20 grade concrete (Using PPC Cement) with and without	Ramboll Pvt Ltd Hyderabad	November 2013	12,000-00	Completed
12	Mix Design for M25 & M30 grade	HRH Constructions	June 2012	16,000-00	Completed
13	Mix Design for M30 grade concrete	Maytas Pvt Ltd	April 2011	8,000-00	Completed

6. Awards / Honors received:

- Best paper award entitled “ Influence of Quartz Materials on Flexural Behaviour of RCC & Post Tensioned Beams Using High Strength Self Compacting Concrete “ at International Conference on “ Latest Trends in Civil , Mechanical and Electrical Engineering “ (LTCMEE -2021) Organized Maulana Azad National Institute of Technology(MNIT) Bhopal. during **12 April -13 April 2021.**
- Best paper award entitled “ An Experimental Investigation on Rheology and Strength Properties Of Self Compacting Geo -polymer Concrete by using EXCEL, MATLAB and PYTHON “ at International Conference on Sustainable Infrastructure with smart technology for Energy and Environmental Management (SISTEEM 2020) organized by Bannari Amman Institute of Technology, Tamilnadu during **03 September -04 September 2020.**
- Best paper award entitled “ The Influence of Red Mud on the Performance Characteristics of High Strength Self Compacting Concrete “ at International Conference on Recent Development In Sustainable Infrastructure: Research and practices (ICRDSI 2020), organized by the School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University during **18 December -21 December 2020.**
- Certificate of Appreciation for outstanding service as Session Chairman at the International Conference on Recent Development In Sustainable Infrastructure: Research and practices (ICRDSI 2020), organized by the School of Civil Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University during **18 December -21 December 2020.**

7. Motto:

Work is Worship & Efficiency is Divine
Vision, Work & Efficiency Secure Life