

RESUME

Name: Dr. H. SUDARSANA RAO
Date of Birth: 03-02-1962
Designation: Professor of Civil Engineering
 JNTUA College of Engineering
 JNT University, Anantapur
 Ananthapuramu - 515002
 Andhra Pradesh
Contact No.s: 09393088822; 08554-295578(R)
e-mail: sudarsanarao123@gmail.com
sudarsanarao.civil@jntua.ac.in
Nationality: Indian Hindu
Social Status OBC



1. QUALIFICATIONS:

DEGREE	INSTITUTION/ UNIVERSITY	YEAR	CLASS	FIELD	REMARKS
B.Tech	JNTU College of Engineering, Anantapur	1983	First Class With distinction	Civil Engg.	First Rank
M.Tech	JNTU College of Engineering, Anantapur	1986	First Class With distinction	Structural Engg.	First Rank
Ph.D.,	Indian Institute of Technology, Mumbai	1996	-	Structural Engg.	-

2. EXPERIENCE (Teaching & Research)

POST	EMPLOYER	PERIOD	YEARS
Teaching Assistant	Principal, JNTU College of Engg. Anantapur	August, 1983 to July, 1985	2 Years (Adhoc)
Assistant Professor	Registrar, JNT University Anantapur	9-7-1985 to 17-3-1990	5 Years
Associate Professor	Registrar, JNT University Anantapur	18-3-1990 To 21-10-1999	9 Years
Professor	Registrar, JNT University Anantapur	22-10-1999 to Till to date	21 years
Total Teaching experience			37 Years
Experience as Professor			21 Years

Administrative Experience

POST	Appointing Authority	YEARS
Deputy Warden	Principal, JNTU College of Engg., Anantapur	2
Project Engineer	Principal, JNTU College of Engg., Anantapur	3
Honorary Secretary for Sports and Games	Principal, JNTU College of Engg., Anantapur	4
Student Union Co-Ordinator	Principal, JNTU College of Engg., Anantapur	1 year 6 months
Head of the department	Registrar, JNT University Hyderabad	2 years
Director, B.I.C.A.R.D	Registrar, JNT University Hyderabad	1 year 9 months
Chief Engineer	Registrar, JNT University Hyderabad	1 year 9 months
Vice-Principal	Registrar, JNT University Hyderabad	2 years
Director of Evaluation, JNTUA & Professor	Registrar, JNT University Anantapur	2 years
Director, ICS JNTUA	Registrar, JNT University Anantapur	09 months
Rector, JNTUA	Registrar, JNT University Anantapur	3 years 5 months
Vice Chancellor I/C	JNTU Anantapur	04 months
Director, (ICS) JNTUA & Chief Engineer	Registrar, JNT University Anantapur	2 Years
Director Academic, Audit	Registrar, JNT University Anantapur	07 months
Director, IIIT, RK Valley, RGUKT, Kadapa	Chancellor, RGUKT, Vijayawada	1 year
Total Administrative Experience 30 Years		

3. SUBJECTS OF PROFICIENCY

Always rated as a very good teacher by the students. The various subjects taught at U.G. & P.G level are listed below.

Under Graduate Level:

- 1 Computer Programming and Numerical Methods
- 2 Computer Applications in Civil Engineering
- 3 Mechanics of Solids
- 4 Analysis of Structures
- 5 Design of R.C.C. Structures
- 6 Advanced Mechanics of Solids
- 7 Advanced Structural Analysis

Post Graduate Level:

- 8 Experimental Stress Analysis
- 9 Concrete Technology
- 10 Finite Element Method
- 11 Artificial Neural Networks
- 12 Computer Aided Design

4. RESEARCH EXPERIENCE

A) Publications: Involved in active research in the following fields of Engineering & Technology.

- Artificial Neural Networks, Fuzzy Systems and Genetic Algorithms, Their Applications in Civil Engg.
- Finite Element Analysis of structures
- Micro & Macro analysis of Composites
- Fibre Reinforced Concretes
- Slurry Infiltrated Fibrous Concrete (SIFCON)
- Glass Fibre reinforced Concretes
- High-performance-concrete
- Low Cost Housing Materials and Techniques

Published 215 research papers in various National & International Journals and Conferences.

B) Guiding Research:

Ph.D. Level	...	Produced Twenty Six Doctorates (list enclosed) Supervising 12 Research Scholars
M.S. Level	...	Produced Three Scholars
M.Tech Level	...	Guided 142 M.Tech projects. (list enclosed)
B.Tech Level	...	Guided about 123 B.Tech projects.

C) Visiting Faculty: Delivered expert lectures on various topics at Indian Institute of Science, Bangalore, SVU College of Engg., Tirupathi, Osmania University Engineering College, Hyderabad, JNTU Kakinada, JNTU Hyderabad and many other Engineering Colleges in the state for better interaction.

D) Books Authored:

- Editor of the book “Proceedings of the *National Conference on Cost Effective Materials & Techniques for Mass Housing*”
- Editor of the book “ Proceedings of the National Conference on Recent Advances in structural Engineering”, 9th Sept. 2004
- Co-Author of the Manual of the software CERMCAN – A Finite Element Software For The Analysis of Ceramic-Matrix-Composites
- Editor of the book “ Proceedings of the National Conference on Recent Advances in structural Engineering”, JNTU College of Engineering, Anantapur, Sept. 2008
- Finite Element Analysis of Slurry Infiltrated Fibrous Concrete Slabs, Lambert Publishers, Germany, 2019 (ISBN 13-978-620-2-07032-4)
- Studies on wood waste ash structural grade concrete for sustainability, Lambert Publishers, Germany, 2021 (ISBN 13-978-620-2-80296-3)
- A book titled “Artificial Neural Networks in Civil Engineering” is in write up state to be published by Printice Hall of India Private limited, Patparganj Industrial Estate, New Delhi – 110 001

E) Software Developed:

- 1.CERMCAN- A Finite Element Software For The Analysis of Ceramic-Matrix-Composites
2. ANNS- Artificial Neural Network Simulator

F) Reviewer for Journals

Reviewer for the following International Journals

- American Concrete Institute- Materials Journal
- American Concrete Institute- Structural Engineering Journal
- Material Science and Engineering, North Olmsted, OH, USA
- International Journal of Engineering Intelligent systems
- Editorial Board Member of ISPRM-JETR Journal (ISSN-2229-9262)

5. MINISTRY OF HUMAN RESOURCE DEVELOPMENT (MHRD) & A.I.C.T.E. PROJECTS ACTIVITIES

Obtained funds from MHRD and AICTE through various projects and acted as chief Co-Ordinator for these projects. The details are furnished below.

S.No	Title of the Project	Sanctioning Authority	Amount	Status
1	Development of Low Cost Housing materials and techniques	M.H.R.D.	Rs. 18.0 Lakhs	Completed
2	Modernisation and Removal of Obsolescence in Civil Engg. Labs	A.I.C.T.E.	Rs. 7.0 Lakhs	Completed
3	Modernisation and Removal of Obsolescence in CAD lab	A.I.C.T.E.	Rs. 8.0 Lakhs	Completed
4	Development of an ANN model for the mix design of FRC	A.I.C.T.E.	Rs. 5.0 Lakhs	Completed
5	FIST-2013	DST	107 Lakhs	On going

6. CONSULTANCY SERVICES

Member of Industrial Consultancy Service (ICS) group at JNTU College of Engineering, Anantapur for the past 25 years and actively involved in generating funds to the University. In addition to routine laboratory testing of building materials, & road materials several mix design projects, structural design projects have been taken up. The satisfied regular clients include several Government organizations viz.

- 1) A.P. State Roads & buildings department
- 2) A.P. State Panchayat Raj department
- 3) A.P. State Irrigation department
- 4) A.P. Industrial Infrastructure Corporation
- 5) A.P. State Housing Corporation

Generating **funds to the tune of Rs. 25.0 Lakhs per Annum to the University** through consultancy services.

Member of the third party quality control team for various Irrigation projects under **JalaYagnam of A.P. State Government.**

7. DEVELOPMENTAL ACTIVITIES

- 1) **Establishment of Low Cost Housing Centre:** With the funds obtained from MHRD, established a Low Cost Housing Centre at JNTU College of Engineering, Anantapur. Research activities pertaining to the development of low cost housing materials and techniques are taking place in the Centre. Constructed a two storied building for housing the LCH Centre utilising the funds sanctioned by the MHRD. As Head of the Low Cost Housing Centre, conducted a *National Conference on Cost Effective Materials and Techniques for Mass Housing* during June 1997 to integrate nation wide research on the topic.
- 2) **Development of CAD laboratory:** With the funds obtained from AICTE, the CAD laboratory of the Civil Engineering department has been modernised providing good computing facilities to students. **Established a Local Area Network (LAN)** in the CAD Laboratory, which connects 14 Pentiums with a server, which can support another 50 machines for future expansion.
- 3) **Development of Materials laboratory:** With the funds obtained from AICTE, developed the S.M. Laboratory of the Civil Engg. Department. Purchased **several new equipment** to the Laboratory which include
 1. Digital Compression Testing Machine of 2000 KN capacity
 2. 20 channel Strain Indicator
 3. Lateral and Longitudinal Compressometers
 4. Concrete Permeability Testing Apparatus
 5. Accelerated Curing Tank
- 4) **Development of Fluid Mechanics laboratory:** With the funds obtained from AICTE, modernized the Fluid Mechanics Laboratory of the Civil Engineering department. Replaced the old rusted M.S. collecting and balancing tanks with new durable **FRP Collecting and Balancing Tanks** giving new look to the laboratory. Purchased **FRP Coated Tilting Flume** thus facilitating students for conducting experiments on open channel flows.

8 ORGANISATION OF CONFERENCES, SEMINARS AND WORKSHOPS

Organised several **Conferences/Seminars/Workshops** to update faculty proficiency and knowledge resources and to **integrate the research at National Level**. The list of various Conferences/Seminars/Workshops organised is given below.

1. National Conference on Cost Effective Materials & Techniques for Mass Housing
Sponsored by Ministry of Human Resource Development (MHRD) at JNTU College of Engineering, Anantapur during 27-28 June, 1997.
2. Work shop on quality Control, Project Scheduling & Monitoring for Government of Andhra Pradesh Panchayat Raj Engineering Department at JNTU College of Engineering, Anantapur during 17-19 February 1999.
3. Short Term Course on Fibre Reinforced Concrete- Theory, Properties and Applications
Sponsored by Indian Society for Technical Education (ISTE) at JNTU College of Engineering, Anantapur during 8-15 April 1996.

4. National Workshop on Advances In Concrete Technology sponsored by University Grants Commission (UGC) at JNTU College of Engineering, Anantapur during 27-28 March 1989.
5. National Seminar on Research and Development in Low Cost Building Materials and Building Technologies sponsored by University Grants Commission (UGC) at JNTU College of Engineering, Anantapur during 31st August to 1st September 1989.
6. National Conference on Recent Advances in Structural Engineering, RASE 2004 at JNTU College of Engineering, Anantapur on 9th September, 2004.
7. National workshop on High –Performance-Concrete, HPC-2006 at JNTU College of Engineering, Anantapur on 9th March, 2006
8. Community Services program on “Design, Construction and Maintenance of Rural roads”. A training program for Gram Surpanches and Panchayat Raj Engineers conducted on 16th September 2006 at JNTUA Civil Dept
9. Community Services program on “Training of Masons on Construction Techniques” conducted from 11th – 23rd December 2006 JNTUA Civil Dept
10. National Conference on “Recent Advances in Structural Engineering” conducted on 9th March 2007 at JNTUA Civil Dept
11. National Student level Symposium on “Recent Advances in Civil Engineering” conducted on 10th March 2007 at JNTUA Civil Dept
12. Community Services program on “Survey and Concrete Technology hands on experience for unemployed youth “. A training program for rural 10th class candidates conducted from 17th December 2007 – 10th January 2008 at JNTUA Civil Dept
13. Organized one day National workshop on “Applications of Artificial Neural Networks in Civil Engineering “on 16th February 2008 at JNTUA Civil Dept
14. Organized one day National Conference on “Recent Advances in Structural Engineering” on April 4th 2008 at JNTUA Civil Dept
15. Organized one day National level student symposium on “Recent Advances in Civil Engineering” on January 23rd 2009 at JNTUA Civil Dept
16. Organized One day National Level Student Symposium on “ Recent Advances in Civil Engineering “ on March 12th 2010 at JNTUA Civil Dept
17. Organized One day National Level Student Symposium on “ Recent Advances in Civil Engineering “ on March 18th 2011 at JNTUA Civil Dept
18. Organized One day National Level Student Symposium on “ Recent Advances in Civil Engineering “ on March 1st 2013 at JNTUA Civil Dept

19. Organized One day National Level Student Symposium on “ Recent Advances in Civil Engineering “ on March 15th 2014 at JNTUA Civil Dept
20. Organized One day National Level Student Symposium, “Sammelan -2015” on March 12th 2015 at JNTUA Civil Dept
21. Organized One day National Level Student Symposium on “ Recent Advances in Civil Engineering “ on March 10-11th 2016 at JNTUA Civil Dept

9. PARTICIPATION IN CONFERENCES, SEMINARS AND WORKSHOPS

In addition to the various conferences/seminars/workshops organised as listed above, participated actively in several National & International Conferences/Seminars and presented papers. The list of various National & International Conferences/Seminars participated are given below.

1. International Conference on Maintenance & Durability of Concrete Structures, 4-6 March 1997, J.N.T.University, Hyderabad.
2. National Conference on Civil Engineering Materials and Structures, 19-21 January 1995, Osmania University, Hyderabad.
3. National Conference on Computer Aided Structural Analysis and Design (NC-CASAD 96), 3-5 January, 1996, Engineering Staff College of India, Hyderabad
4. National Conference on Advances in Materials of Construction and Construction Methods, 22-23 August, 1997, S.V. University, Tirupathi
5. National Workshop on Advances in Cement, Slag and Pozzolanic Materials in India 27th June 1998, S.V. University, Tirupathi.
6. Workshop on Fibre Composites in Infrastructure Construction and Maintenance, 30th January 1997, Indian Institute of Technology, Mumbai.
7. Workshop on Question Bank Preparation 24-26 March 1990, J.N.T.U. College of Engineering, Anantapur.
8. Q.I.P. Short Term Course on Fracture Mechanics of Plain and Reinforced Concrete 9-14 September 1996, Indian Institute of Science, Bangalore.
9. 38th Congress of Indian Society of Theoretical and Applied Mechanics 9-12 December, 1993 Indian Institute of Technology, Kharagpur
10. National Conference on New Paradigms in Civil Engineering Practices, Anjuman Engineering College, Bhatkal, Dec. 1-2. 1996.
11. Seminar on fibre reinforced concrete and its applications, Information Centre for Fibre Reinforced Composites, Madras, 19-21 Sept. 1991.

12. Asia-Pacific Specialty Conference on Fibre Reinforced Concrete, Hotel New Otani, Singapore, 28-29 August 1997.
13. National Seminar on High Performance Concretes, International Centre for Fibre Reinforced Concrete Composites, Chennai 21-22 May, 1998.
14. National Conference on Emerging trends in concrete construction, Dept of Civil Engg, CBIT, Hyderabad, 22-24, Aug, 2003
15. International conference on “Recent advances in concrete technology”, University of Maryland, Washington D.C., U.S.A, 19-21, Sep., 2007
16. International Workshop on Concrete Fiber Composites, Special Concretes and Structures (IWCSS-2008) conducted on 11th February 2008 at JNTU Kakinada, Civil Dept
17. National Workshop on “ Compatibility Issues between Cement & Chemical Admixture in Concrete” at Osmania University, Hyderabad held on 17th September, 2010 Organized by Indian Concrete Institute Andhra Pradesh, Hyderabad
18. Asian Conference on “Ecstasy in Concrete” at IIT Madras, Chennai held from 5th Dec-9th Dec 2010 Organized by ICI (Indian Concrete Institute) in association with IIT Madras, Chennai
19. Third Inter National Conference on “Concrete Repair, Rehabilitation and Retrofitting”, Cape Town, South Africa, 3-5 September, 2012 organized by University of Cape Town
20. Workshop (Phase-I) on “Training resource persons on outcome based accreditation”, organized by NBA Nodal Centre JNTUA Ananthapuramu on 29th April, 2013
21. Workshop (Phase-II) on “Training Evaluators/Resource persons on outcome based accreditation”, organized by NBA Nodal Centre JNTUA Ananthapuramu on 1-3 July, 2013
22. Two day workshop, sponsored by University Grants Commission, New Delhi on "Outcome Based Education Approach in Engineering Curriculum" organized by JNTUACEA during 26-27 August, 2014
23. Leadership Training Workshop on “Resource mobilization strategies for the public universities of AP for Vice-Chancellors” HE Department, Govt of AP, Administrative Staff College of India, Hyderabad during 27-28, October, 2015
24. Fourth International Conference on “Advances in Civil, Structural and Mechanical Engineering ACSM-2016”, Bangkok, Thailand, 7-8 May, 2016 organized by IRED, Newyork

25. Global Teachers Conference on “Empowerment of Teachers for building Sustainable Global Society”, Ravindrabharathi Auditorium Hyderabad, India, 30-11-2016 organised by MVLA Trust, Mumbai
26. Innovative Scientific Research Professional Malaysia® - JETR International Convention on Innovative Technological Scientific research Strategies in Science, Engineering and Management on 22-10-2017 at Kuala Lumpur, Malaysia.
27. International Conference on Composite Materials and Structures – 27th to 29th December 2017, IIT Hyderabad, India.
28. National Workshop on “Public Procurement with-Procurement”, 30th April to 2nd May 2018, at Mussoorie by National Academy of Human Resource Development (NAHRD), New Delhi
29. AICTE Sponsored Two-Week Faculty Development Program on "Mathematical Modeling and Simulation for Scientists & Engineers during 24-02-2020 to 07-03-2020, organized by Department of Chemical Engineering, JNTUA College of Engineering, Ananthapuramu
30. National Workshop on "A Comprehensive Road Map to Pursue Academic Research", 29th May, 2020 organized by SRM Institute of Science & Technology, Kattankulathur, Chennai
31. One day National Workshop on "Recent Advances in Structural Engineering (RASE-2020)" on 30-5-2020 organized by JNTU Anantapur and Visveswaraya Technological University, Kalaburagi, Karnataka
32. Webinar on "An overview on Concrete mix proportioning" on 03-06-2020 organized by Indian Concrete Institute and UltraTech Cement Ltd, Vijayawada, Andhra Pradesh
33. Three day National Level Faculty Development Program on "Rehabilitation and Retrofitting of Structures" during 4-6-2020 to 6-6-2020, organized by Sree Vidyanikethan Engineering College, Tirupathi, Andhra Pradesh
34. One day Faculty Awareness Program on NBA Accreditation held on 19-05-2020 Organized by Dr. D.Y Patil School of Engineering & Technology, Pune, Maharashtra
35. Three Day Faculty Development Program on "Digital Era of Teaching" from 11-05-2020 to 13-05-2020 conducted by Diksoochi, Mysuru, Karnataka
36. Two day National level workshop on "Online tools & Software for Remote Teaching-Learning", held during 24th and 25th, April, 2020, Organized by UGC-HRDC, JNTUH, Hyderabad
37. Webinar on "Imparting Quality Education in HEIs-NAAC Perspective", on 17-06-2020 organized by Amrita College of Engineering and Technology, Nagercoil, Tamilnadu

38. Webinar on "Nanotechnology in Concrete" on 20-06-2020 organized by Indian Concrete Institute and UltraTech Cement Ltd, Vijayawada, Andhra Pradesh
39. Inter National Webinar on "Research Techniques and Tips for Article writing", on 03-07-2020, Organized by Vidyajyothi Institute of Technology (An Autonomous Institution), Rangareddy Dt, Hyderabad
40. International Webinar series on "Turning disasters into knowledge: lessons learned from recent earthquakes", on 16-07-2020, organized by Rajeev Gandhi Memorial College of Engineering (Autonomous), Nandyal, India
41. International Webinar series on "Demand Capacity ratio for seismic performance evaluation of Concrete Dams", on 17-07-2020, organized by Rajeev Gandhi Memorial College of Engineering (Autonomous), Nandyal, India
42. International Webinar series on "Role of Structural Engineer in offshore Industry", on 18-07-2020, organized by Rajeev Gandhi Memorial College of Engineering (Autonomous), Nandyal, India
43. National Webinar on "Pharmaceutical Scenario in Covid-19 Era", on 16-07-2020, organized by University College of Pharmaceutical Sciences, Adi Kavi Nannaya University, Tadepalligudem
44. Webinar on "Role of Civil Engineers in offshore Oil & Gas Industry on 04-07-2020, organized by KKR & KSR Institute of Technology and Sciences, Guntur, AP, India
45. One day National FDP-Webinar on "Reviewing English at Higher Education", on 10-07-2020, organized by JSS College of ARTS & Commerce, Gundlupet, Karnataka, India
46. Webinar on "Composite Constructions", on 18-07-2020, organized by Indian Concrete Institute and UltraTech Cement Ltd, Vijayawada, Andhra Pradesh
47. International Conference on **Recent Advances in Sustainable Materials (GC-RASM 2022)** at A.J. Institute of Engineering & Technology, Mangalore, India from 28th to 29th, July 2022.
48. Second International Conference on Construction Materials and Structures (ICCMS-2022), NIT Calicut, 13-19 December, 2022
- 49.

10. ADMINISTRATIVE EXPERIENCE

At various levels, assisted the College and University Administration by doing several additional administrative jobs. Details are furnished below.

A) Project Engineer: Worked as Project Engineer at JNTU College of Engineering, Anantapur from November 1998 to December 2001. In addition to the routine maintenance jobs, executed the following important construction works departmentally contributing major savings for the University.

1. Construction of New Shilpa Ladies Hostel at an estimated cost of Rs. 39.0 Lakhs
2. Construction of First Floor over Chemical Engineering Dept. at an estimated cost of Rs. 10.0 Lakhs
3. Construction of Dining Hall and Kitchen to New Shilpa Ladies Hostel at an estimated cost of Rs. 18.0 Lakhs
4. Construction of Ellora hostel for boys at an estimated cost of Rs. 1.35 Crores.
5. Construction of F.M, T.E, Survey & Geology Laboratory complex at an estimated cost of Rs. 70.0 Lakhs
6. Construction of First Floor over Shilpa ladies Hostel at an estimated cost of Rs. 52.0 Lakhs.
7. Leak Proofing the roof slabs of Ajanta and Amaravati boys hostels
8. Construction of the compound wall around the College Campus at an estimated cost of Rs. 8.0 Lakhs
9. Jungle Clearance of the Campus
10. Black topping of the Internal Roads at an estimated cost of Rs. 3.0 Lakhs

B) Honorary Secretary for Sports and Games: For more than four years worked as Honorary Secretary for Sports and Games and promoting the games & sports activity in the campus. Involved in the following developmental works.

1. Development of New Play Ground
2. Establishment of Gymnasium
3. Sanction of Rs. 4.0 Lakhs for proposed Pavilion Construction
4. Conducted several Sports Days to project the talents of students
5. Organised a **district level Cricket tournament** during the **golden jubilee celebrations** of the College
6. Organised a **district level Foot Ball tournament** during the **Silver Jubilee celebrations** of the University
7. Organised a **National level chess tournament** CHESS- FEST during April 1998.
8. Member of the Cricket Team winning the District Employees Tournament in the year 1997

C) Student Union Co-Ordinator: Worked as Student Union Co-Ordinator for one and half years. Assisted the College administration in several aspects in maintaining healthy atmosphere in the campus. A few are mentioned below.

1. Streamlined the student union account and introduced foolproof mechanism for maintaining the accounts of student union.
2. Assisted the College administration during the admissions of 1st year students.
3. Maintained **Zero Ragging** in the College Campus for the past two years and smoothly organized the Freshers day functions.
4. Organised the inter collegiate cultural festival **CEAST-98** successfully.
5. Maintaining excellent relations with the students of the College.

D) Head of the department: Worked as head of civil engineering department for two years from 1999. Proposed several modifications in the course structure of UG & PG programmes. Commissioned a new F.M Laboratory and a New Transportation Engg. Laboratory. Introduced a new P.G. Program “Computer aided structural engineering”.

E) Director, BICARD: Served as Director, Bureau of Industrial Consultancy and Research Development (**BICARD**), JNTU Hyderabad for a period of about two years and coordinated

the consultancy services of the various units of the university. BICARD is generating funds to the tune of 35-40 lakhs every year through consultancy.

F) Chief Engineer : As Chief Engineer of the JNTU, Hyderabad (Additional Charge), from December 2001 to September 2003, planned and monitored the construction activity at the Head Quarters and also at the constituent colleges at Anantapur and Kakinada. A few prestigious projects handled at JNTU, Hyderabad are as follows.

- Construction of UGC Academic Staff College Building-2.5 Crores
- Construction of SIT Building-6 Crores
- Construction of University library Building- 3 crores
- Construction of Staff Quarters- 4 crores
- Construction of University Guest House- 1.5 Crores
- Construction of Laboratories for various departments
- Laying of Internal Roads

G) Vice-Principal: Worked as Vice-Principal at JNTU College of Engineering, Anantapur from May, 2006 to August, 2008 and looked after the academic section and examination cell. The college acts as a nodal centre for about 57 engineering colleges of Rayalaseema, Nellore and Prakasam districts for conduct of university examinations.

H) Director of Evaluation: Took charge as Director of Evaluation of newly formed JNT University, Anantapur on 1-9-2008. Introduced several reforms in the examination system in the new university for preventing leakage of question papers and mass copying in the affiliated colleges. Improved the security system in the EDEP examination pattern to totally avoid the hacking of examination portal by using virtual private network. Successfully conducted examinations in about 140 affiliated colleges and declared results in record time. For preventing the duplicate certificate menace, introduced RFID (Radio Frequency Identification Detector) technology for issuing the original degree certificates for the first time in India.

I) Director (ICS): Took charge as Director, Industrial Consultancy Services (ICS) of JNT University Anantapur on 2-2-2011. Established an independent material testing laboratory for the University Consultancy Cell. Providing quality control to the various building projects taken up by the JNT University Anantapur

J) Rector: Took charge as Rector of J.N.T. University Anantapur on 20-9-2012 and continuing to serve in the university. As rector, headed several administrative and academic reform committees for effective administration of the university. As rector, acted as First Appellate Authority under RTI act. As a Rector, responsible for the following developmental activities in the University.

- Grant of 2(f) & 12 (b) status to the University by UGC, New Delhi
- Establishment of Research Centres in affiliated institutions
- Introduction of MOOCs and Gap year concepts in curriculum
- Implementation of reforms in examination system such as jumbling of centres, challenge valuation, issue of Photostat copy of answer scripts, mandatory use of CC cameras in examination halls etc.,
- Introduction of anti-plagiarism check for Ph.D thesis to improve the quality of research
- MoU with IBM to train students for skill development in IT sector

- MoU with Florida International University USA for MS programs
- MoU with C-DAC, IIT Chennai to train the faculty and students in the use of open source OS
- Establishment of centre of excellence by Texas Instruments in JNTUA campus
- MoU with Chicago State University, USA for Joint academic programs and student exchange
- Admission of International Students in JNTU Anantapur
- MoU with NBA, New Delhi for training faculty on outcome based education and accreditation
- Conduct of MSIT program jointly with Carnegie Mellon University, USA at JNTU Anantapur
- Conduct of Industry oriented M.Tech Program in VLSI System Design with SEER Academy- IIT Madras
- MoU with INFLIBNET (Shodganga) to facilitate the on-line availability of Ph.D thesis of JNTUA
- Development of Infrastructure in terms of new constructions such as Hostel buildings, Academic blocks, New Auditorium, New Examination Block etc.
- Development of Greenery in the campus with the help of RDT, Anantapur

K) VICE CHANCELLOR I/C: Worked as Vice-Chancellor i/c for J.N.T University Anantapur from 30-6-2015 to 26-10-2015. Introduced several reforms in administrative procedures for improving transparency in the system. Taken steps for establishment of skill development centres and Incubation centres and organized several training programs and Faculty Development Programs for better employability of students.

L) Director (ICS) & Chief Engineer: Took charge as Director, Industrial Consultancy Services (ICS) and Chief Engineer of JNT University Anantapur on 17-2-2016. Planned and executed the following Infra Structure development works in JNT University.

S.No.	Name of work	Project Cost (Rs. In Lakhs)
1.	Infrastructure Development works for the College of Engineering, Kalikiri	35967.00
2.	Widening of Internal roads and providing footpaths in INTUA	525.00
3.	Construction of Administrative Block at JNTUA, Anantapur	2600.00
4.	Construction of Integrated Lecture Hall Complex in JNTUA CEA	2390.00
5.	Construction of Gym hall, Yoga and Meditation Hall at JNTUA Compound, Ananthapuramu	67.00
6.	Construction of Pharmacy Block at OTRI, Anantapur	1364.00
7.	Construction of Boys Hostel at JNTUA CE Pulivendula	1001.00
8.	Design, Supply, Installation, testing and Commissioning of 200 KW Roof Top Model Plant	283.00
9.	Providing all essential accessories for Multipurpose Auditorium in JNTUA Ananthapuramu	450.00
10.	Construction of a building for “SIEMENS CENTRE OF EXCELLENCE”	1300.00
11.	Construction of Shed to the University Examination Block	250.00
12.	Construction of Hostel block for SC/ST students	410.00
13.	Construction of an Indoor Stadium	345.00

M) . **Director Academic, Audit :** Worked as Director Academic Audit, JNTUA for a period of 7 months. during this period conducted fact finding committee inspections to 172 affiliated engineering/Pharmacy/Management colleges. Responsible for grant of affiliations to self financing colleges. also conducted ratification interviews for quality assessment of faculty in affiliated colleges.

N). Director, IIIT , RGUKT, RK Valley: Worked as Director, RGUKT RK Valley for a period of 1 year and contributed following.

1. **Academics:** At the time of my joining as Director, RGUKT, RK Valley, the student's average class attendance was a meagre 12%. I was shocked with this scenario and conducted series of meetings with faculty and students. Within one month, the average class attendance has increased to 94% and the same is maintained till to date. The happiest part is I could bring back the students to class rooms. I have introduced regular Class room attendance management system and now every day SMS is being sent to parents of absentee student on that day itself. Established English language laboratory with laptops. A high computing laboratory for CSE students is also established

2. **Financial administration, Filing system, Advances AG audit, LF audit:** There was no proper financial discipline in the campus administration. There was no filing system. On one single paper, sanctions were being issued and payments are made. I have introduced proper filing system for all financial transactions and made records be available in file form for all payments. Huge amounts of advances were pending with faculty and staff which were unattended. I have issued several warnings to all having pending advances and saw that they are adjusted. At present the pending advances are at minimum. I have handled LF audit and AG audit in the institute and helped for their smooth conduct.
3. **AICTE Approvals:** As soon as I joined, I noticed that the institute has no AICTE approval for the year 2018-19. I could trace out the deficiency report and requested AICTE authorities to conduct a scrutiny committee for evaluating the compliance. I have personally attended the scrutiny committee meeting with a well prepared compliance report and could get successfully the AICTE approval for 2018-19. Similarly I got the EOA from AICTE for the year 2019-20. RGUKT RK valley campus was recommended by the AICTE for grant of extended EOA for three years on par with Autonomous colleges
4. **Laptops issue:** RGUKT RK Valley has purchased 4000 HP Laptops by placing a repeat purchase order from Microcare Company. 75% payment was already made by earlier administration. When the issue of balance 25% payment came to me, I observed that the purchase procedure is in violation of CVC guidelines and hence stopped the release of 2.5 Crores inspite of huge pressure on me. I have appointed a committee with experts to examine the performance of these laptops and the committee clearly indicated that they are of very limited use.
5. **Construction of 11 departmental buildings and allied works by NBCC:** After taking charge, I observed that the progress of 11 departmental building works is dismally slow. The earlier administration has issued 6 EOTs with out imposing any Late Delivery charges. I wrote several letters to CMD, NBCC and brought the work back on track. University has released 110 Crores to NBCC and again they were asking for further release of 10 Crores. In spite of huge pressure from the then VC, I have not agreed to release any further amounts to NBCC. On verification of MOU, the interest accrued is to be paid back to RGUKT. I wrote to NBCC and obtained account of interest to the tune of 6.5 crores
6. **Appointment of QC team for new buildings:** As a Civil engineer, I observed that the building works are of low quality and immediately appointed a third party quality control team for inspection of 11 departmental building works which is in progress.
7. **Refund of advance paid to NCCF:** It is observed that RGUKT RK valley has paid an advance of 43.0 Lakhs to NCCF for establishment of Data Centre and the work was not initiated even after one year. I wrote to NCCF authorities and got back the amount of 43 lakhs.
8. **Taking lead for purchase of student amenities through e-procurement and saving 2.0 crores:** In the 33rd EC meeting administrative approvals were accorded for purchase of student amenities. I insisted that these should be purchased through e-procurement tendering instead of nomination as followed in

previous years. After Prof. K C Reddy garu took over as Chancellor, with his support and guidance I took the lead for preparation of specifications and tender documents for all the 4 campuses and went for e-procurement. This resulted in getting branded items from BATA, Sleepwell etc. and also savings to the tune of 1.5 crores to the University when compared to previous year rates.

9. **Improvements in Placements:** I gave special attention to improve the placements in the campus and arranged company specific training programmes which yielded very good results. Huge number of students got placements in TCS, Wipro and Infosys. The placement percentage has increased from 35 to 68% among the eligible candidates. In addition huge number of students got selected for long term internships with placement assurance. IBHUBS has taken 175 students for 2 year internship
10. **Establishment of RO plant and** A RO water plant with 6000litres per hour capacity at cost of 30.0 Lakhs to provide potable clean water to students is established. A 3MW solar power plant is initiated and this will result in savings of 20Lakhs per month to the RK valley campus
11. **Sports courts-** 1-Tennsi court, 2-basket ball courts, 1-hand ball court, 4-volley ball courts with concrete pavements for access and fencing have been developed with an estimated amount of 115 Lakhs
12. **3MW Solar Power systems:** A 3MW solar power plant is initiated and this will result in savings of 20Lakhs per month to the RK valley campus
13. **State re-organization furniture:** A furniture worth 2.0 crores (Approx) has been obtained free of cost from AP Secretariat to RK Valley with the approval of Sri Premchandra Reddy IAS. This has resolved the major furniture requirements of RK Valley campus
14. **Starting recreation** by way of projecting movies in hostels during weekend by purchasing good projecting facilities.

11) MEMBERSHIP IN PROFESSIONAL BODIES

- Fellow of Institution of Engineers, India (FIE) – F110474-4
- Life Member of Indian Concrete Institute (ICI) – LM – 9035
- Life Member of Indian Society of Technical Education (ISTE)
- Fellow of Institution of Civil Engineers(FICE)
- Member of Innovative Scientific Research Professional Malaysia® (ISRPM®)

12) MEMBERSHIP IN REPUTED COMMITEES

- **Member of State level committee** for inspection of Self Financing Engineering colleges in AP State as per GO Rt No 131 of higher education (EC) Department Dt:- 15-06-2016.
- **Member of APEAMCET-2017 Admission Committee**
- **Member of Andhra Pradesh State Committee on Dam Safety (SCDS) as per the Dam Safety act vide GO MS No. 43 dt 30-6-2022 of Water Resources Department, Government of Andhra Pradesh**

- **Member of High Level Technical Expert Committee (TEC) to find the reasons for the occurrence of washing of some irrigation sources in Rayalaseema and SPSR Nellore districts and to suggest remedial measures vide GO RT No. 2 dt 04-01-2022 of Water Resources Department, Government of Andhra Pradesh**
- **Acted as Session Chair in Innovative Scientific Research Professional Malaysia® (ISRPM®) – Journal of Engineering Technological Research (JETR, ISSN: 2229-9262) International Convention on Innovative Technological Scientific research Strategies in Science, Engineering and Management on 22-10-2017 at Kuala Lumpur, Malaysia**
- Member of **Building Committee** of Sri Krishna Devaraya University, Anantapur
- **Chairman, Board of Studies** of Civil Engg., JNT University, Hyderabad for two Years
- **Chairman, Board of Studies (PG)** of Civil Engg., JNT University, Anantapur at Present
- Member of Academic Council of Sri Vidyaniketan Engineering College, Rangampet, Tirupathi
- Member of Academic Council of G.Pulla Reddy Engineering College, Kurnool
- Member of Board of Studies, Civil Engineering of RGM, Nandyal
- Member of Board of Studies, Civil Engineering of Yogi Vemana University, Kadapa
- Member of Board of Studies of AITS, Rajampet, Kadapa
- Member of the Selection Committee for recruitment of faculty of Civil Engg. To the J.N.T. University, Anantapur, Hyderabad & Kakinada
- Member of the Selection Committee for recruitment of faculty of Civil Engg. To the affiliated Colleges of J.N.T. University, Anantapur, Hyderabad & Kakinada.
- Member of Board of studies for Civil Engg. Of JNT University, Hyderabad for two years
- Member of Board of studies for Civil Engg. Of S.K. University, Anantapur
- Member of the Selection Committee for recruitment of faculty of Civil Engg. To the Osmania University and S.V. University
- Member of several AICTE committees for conducting inspections to colleges & NBA accreditation
- **Member of UG board for UPSC examinations**
- **Member of state level committee appointed by APSCHE for revamping curriculum of Engineering courses in 2018-19**

13) AWARDS RECEIVED

1. A.P. State Government award for **BEST TEACHER** for the year 2007 from the Hon'ble Chief Minister of A.P.
2. International Engineer of the Year-2008 from **Cambridge Press, U.K**
3. **Out standing concrete Engineer of A.P – 2010** from Indian Concrete Institute, (Hyderabad Chapter)
4. **Marquis** Who's Who Recognition
5. **Rayalaseema Vidyaratna** award from Rayalaseema Kala Samithi, A.P
6. **Sardar Patel Life Time achievement award Award-2015** for excellence in Engineering Science from Sardar Vallabhai Patel Foundation on 31-10-2016
7. **Global Teacher Role Model Award -2016** as Best Professor from MVLA Trust, Mumbai on 20-11-2016
8. **Innovative Technological Research & Dedicated Best Professor Award** from Innovative Scientific Research Professional Malaysia® (ISRPM®) at Kuala Lumpur, Malaysia on 22-10-2017.

- 9. Top 100 Engineers – 2015 award** by international biographical centre, Cambridge UK, England
- 10. Chartered Engineer** by The Institution of Engineers (India) on 25-04-2018

14. DETAILS OF INDIAN PATENTS GRANTED

- I) Application Number: 201641010384
 Patent No: 417107 (Granted)
 Title of the Patent: Methods for preparation of Bacterial Concrete with self healing abilities and products there of
 Date of Filing: 26-03-2016
 Date of Patent Grant: 06-01-2023
 Inventors: 1. Prof H Sudarsana Rao, Professor of Civil Engg, JNTUA CEA
 2. Prof Vaishali G Ghorpade, Professor of Civil Engg., JNTUA CEA
 3. Ramesh Vattikundala , Research Scholar, JNTUA CEA
- II) Application Number: 202141030545
 Patent No: 440475 (Granted)
 Title of the Patent: A process of producing Bricks/Building Blocks from Phosphogypsum and the Bricks/Blocks made there of
 Date of Filing: 26-03-2016
 Date of Patent Grant: 06-01-2023
 Inventors: 1. Prof H Sudarsana Rao, Professor of Civil Engg, JNTUA CEA
 2. Prof Vaishali G Ghorpade, Professor of Civil Engg., JNTUA CEA
 3. Jandhyala Jagmohan Vijay
 4. Kandarpa Sakuntala Jyoti
- III) Application Number: 202341006000
 Patent No: Published
 Title of the Patent: Innovative approaches to high performance concrete: The synergy of binary mineral admixture and composite fibre reinforcement in enhancing strength, endurance and development of unified mix design methodology
 Date of Filing: 30-01-2023
 Date of Publication: 24-02-2023 (U/S 11A)
 Inventors: 1. Prof H Sudarsana Rao, Professor of Civil Engg, JNTUA CEA
 2. Prof Vaishali G Ghorpade, Professor of Civil Engg., JNTUA CEA
 3. Dr Sachin Patil
 4. Dr T H Patel

15. OTHER ACADEMIC ACTIVITIES

1. Program In-charge for Engineering Courses offered by **Indira Gandhi National Open University, (IGNOU)** New Delhi Viz. Advanced Diploma in Construction Management (ADCM) and Advanced Diploma In Water Resource Engineering (ADWRE) at Anantapur Study Centre from 1.1.1996 to 31.12.2001
2. Acting as an Academic Councilor for the contact program of IGNOU from 1996

16. ABROAD VISITS

Visited following cities abroad

1. Dubai
2. Abudhabi
3. Sharjah
4. Washington D.C
5. Newyork
6. Losangeles
7. Newjersey
8. Cape Town
9. Bangkok
10. Singapore
11. Malasia

I have interacted with several academicians and researchers in the following International Universities.

- BITS, Pilani Campus at DUBAI
- University of Maryland, USA
- Howard University, USA
- California State University, USA
- University of Cape Town, SA
- Rajamangala University of Technology, Suvarnabhumi, Nonthaburi Campus, Bangkok
- National University of Singapore, Civil & Environmental Engg. Department
- Nanyang Technological University, Singapore, Civil Engg. Department
- University Technology Mara, Kuala Lumpur Malaysia

List of Ph.Ds Awarded

S.No.	Name of the Research Scholar	Title of Ph.Dthesis	Year of Award
1	T. Raghunatha Reddy	Development of a macro-mechanical neural network model for steel fibre reinforced concrete	2001
2	V. Venketeswara Reddy	Effects of quality of water on strength properties of ordinary Portland cement concrete, fly ash concrete and slurry infiltrated fibrous concrete	2004
3	C. Sashidhar	Some studies on strength and stiffness properties of slurry infiltrated fibrous concrete	2005
4	B. Jayarami Reddy	Development of micro and macro-mechanical models for the mechanical behavior of brittle-matrix-composites	2005
5	N.V. Ramana	An experimental investigation on strength and stiffness properties of slurry infiltrated fibrous concrete two-way slabs	2006
6	B. Ramesh Babu	Development of genetic algorithm based neural network models for the design of reinforced cement concrete structural elements	2007
7	B. Anjaneya Prasad	Development of genetic algorithm based neural network macro model for the properties of Aluminum alloy castings	2007
8	K. Gnaneshwar	An investigation on strength and stiffness properties of	2009

		steel reinforced slurry infiltrated fibrous concrete two-way slabs with different edge conditions	
9	G. Reddy Babu	Effect of metal ions in industrial waste water on setting, compressive strength, hardening and soundness of cement	2009
10	T. Chandrasekhar Reddy	Development of a macro-mechanical neural network model for slurry infiltrated fibre reinforced concrete	2010
11	N.R. Maddi Reddy	Development of genetic algorithm based neural network macro mechanical model for fibre reinforced High-Performance-Concrete	2010
12	T. Sivasankar Reddy	Effect of phosphogypsum on strength and workability properties of cement mortar, cement concrete and fiber reinforced concrete	2011
13	H.M. Somasekharaiah	Studies on strength, workability and durability properties of glass fibre reinforced high-performance-concrete	2011
14	Subba Reddy	Modelling strength and stiffness properties of ferro-cement elements using hybrid neural networks	2012
15	B. Madhusudhan Reddy	Effect of water quality on the strength and durability characteristics of blended cement concrete, silicafume concrete and fibre reinforced concrete	2013
16	V. Showjendra Kumar Reddy	Behaviour of recycled aggregate concrete two way slabs in flexure and punching shear – an experimental investigation	2013
17	E. Arunakanthi	Effect of chemical compounds in water on setting times, workability and strength of high-performance-concrete with metakaolin and phosphogypsum admixtures	2013
18	K. Rajasekhar	Analysis of slurry infiltrated fibrous concrete slabs using finite element analysis	2013
19	K. Munirathnam	Strength and durability studies of NRL modified fibre reinforced High-Performance-Concrete	2014
20	M. Beulah	Development of genetic algorithm based neural network model for predicting workability, strength and durability of High-Performance-Concrete	2015
21	V. Giridhar	Experimental studies on strength and durability characteristics of ceramic waste aggregate concrete	2015
22	T. Chinna Venkat Reddy	Studies on the behavior of high-performance-concrete two way slabs in flexure, shear and impact loading	2015
23	K.V.S. Gopala Krishna Sastry	Development of genetic algorithm based macro-mechanical model for Steel Fibre Reinforced Concrete	2016
24	G. Subba Ramaiah	Strength and durability studies on wood waste ash structural grade concrete	2016
25	M.S. Shoba	Strength and durability studies on natural rubber latex modified High-Performance-Concrete	2017
26	Savithri K	Strength and durability characteristics of waste plastic fiber reinforced concrete	2018
27	Sachin Patil	Study on strength and durability properties of composite fibre reinforced high performance concrete with binary mineral admixture blend	2022
28	Ushasree Jagaragallu	Experimental Investigation on Geopolymer Concrete by incorporating Biomass Ashes	2023
29	Jagmohan Vijay	Studies on strength and durability properties of	2023

	Jandhyala	Geopolymer Bricks blended with flyash and phosphogypsum	
30	Nagaraja K	Strength and durability studies on ternary blended high strength fibre reinforced concrete with hybrid fibres	2023

List of M.S degrees Awarded

S.No.	Name of the Research Scholar	Title of Thesis	Year of Award
1	B. Ramesh Babu	Development of artificial neural network models for the design of RCC structural elements	2000
2	M. Durga Suresh	Shrinkage properties of High Performance Concrete with recycled aggregates	2009
3	G. Subba Ramaiah	Influence of mineral admixtures on shrinkage characteristics of steel fibre reinforced concrete	2010

List of M.Tech Projects Guided

S.No	Title of the Project	Name of the student	Year
1	Studies of mix design properties of Fibre Reinforced Concrete	P. Siva Kumar	1987
2	Studies on light weight concrete and fibre reinforced light weight concrete (partial replacement of cement by stone dust)	K.Krishna Murthy	1991
3	Studies on light weight concrete and fibrous light weight concrete using light weight fines	K. Srinivas	1991
4	Studies on light weight concrete and fibrous light weight concrete using light weight cinder coarse and fines	K.Sravana Kumar Reddy	1991
5	Studies on composite lime concrete using brick jelly aggregate with partial replacement of lime by cement	R.V. Narayana Murthy	1991
6	Few parametric studies on light weight fibre reinforced concrete		1991
7	Studies on blast furnace slag aggregate concrete	P.Nagabhushan Reddy	1996
8	Experimental studies on strength and workability properties of fly-ash fibrous concrete	K. Sreenivasulu	1996
9	Experimental studies on the properties of light weight and fibrous light weight concrete (Partial replacement of cement by fly-ash)	B.V. Krishna Murthy	1996
10	Studies on the strength and workability properties of light weight concrete and fibrous light weight concrete (Partial replacement of cement by stone dust)	K. Prakash Rao	1996
11	An experimental investigation for behavior of mix proportion of cement concrete blocks (Partial replacement of coarse aggregate by stone dust)	G.Raghava Reddy	1996
12	Optimisation of mix properties for fly-ash cement concrete blocks	P.V. Krishna Reddy	1996
13	Studies on mix design parameters of fibre reinforced slag aggregate concrete	S.R. Sudhakar Naik	1997
14	Experimental studies on light weight concrete and fibrous light weight concrete using light weight fines	B. Subba Reddy	1997
15	An artificial neural network model for the mix design of fibre reinforced concrete	N. Srinivasulu	1997
16	Development of water-cement ratio law for slag aggregate concrete- A neural network approach	B.K.RaviKumar	1997
17	Generation of experimental data for developing a mix design model for steel fibre reinforced concrete	P. Gopinath	1998
18	Generation of experimental data for developing a mix design model for steel fibre reinforced concrete	M. Ramesh	1998
19	An artificial neural network model for the design of reinforced concrete beams	M.Mohammed Fayazuddin	1998
20	Effect of Partial Replacement of Cement by Fly Ash on the Properties of	Lt col M.Varada	1999

	Fibre Reinforced Concrete An Experimental Investigation.	Raj	
21	Some Studies on slurry infiltrated fibrous concrete (sifcon)	Mr.V.Ramlingeswara Reddy	2000
22	Axi Symmetric Finite Element Analysis of nuclear reactor containment shells	T.G. Bharathi	2000
23	Experimental studies on light weight concrete and fibrous light weight concrete using light weight fines	C. Venkateswarlu	2000
24	Dynamic response of bridges subjected to moving loads	G.V.N. Kullai swamy	2000
25	Production and evaluation of HPC with Metakaolin admixture	B.S. Saleem	2004
26	Effects of elevated temperatures on HPC with flyash	G. Nagamani	2004
27	Effects of elevated temperatures on HPC with Silica fume	P.Ramesh Babu	2004
28	Generation of artificial earth quake and response spectra using neural networks	E. Vijaya lakshmi	2004
29	Computer aided analysis and design of steel silos	N. Jagathi	2004
30	The Behaviour of SIFCON slabs under impact loading	S. Murali Krishna	2004
31	Some studies on slurry infiltrated fibrous concrete	B. Chandrasekhar	2004
32	Finite element analysis of wind effects on cooling towers	K. Venketeswarlu	2004
33	Analysis and design of chimney foundation using C-language	P. Sreenivasulu	2004
34	The 38ehavior of SIFCON under pure torsion and shear	V. Narayana Rao	2004
35	Development of computer code and analysis of pile foundations	K.V.S.P. Rajasekhar	2004
36	Studies on shrinkage characteristics of SIFCON	N. Jithendranath	2005
37	Behaviour of steel reinforced SIFCON slabs in punching shear (Four edges fixed)	K. Sekhar babu	2005
38	The 38ehavior of SIFCON simply supported two way slabs in flexure	J. Prasada Reddy	2005
39	Effects of neutral salts in water on strength and setting properties of ordinary Portland cement concrete	M. Venkateswara Prasad	2004
40	Effects of alkaline substances present in water on setting properties of OPC	C. Murali Govind	2005
41	Effects of slightly acidic substances present in water on strength and setting properties of OPC concrete	K. Veni Sujatha	2005
42	Effects of strong alkaline salts present in water strength and setting properties of OPC concrete	K. Venugopal Reddy	2005
43	Fracture Analysis of Ceramic Matrix Composite	G.Vishnu Vardhan	2005
44	The experimental studies on Steel Reinforced Slurry Infiltrated Fibrous Concrete (SIFCON) two way slabs fixed on opposite edges in flexure	S.Suryanarayana Reddy	2005
45	The 38ehavior of simply supported two way slabs of steel reinforced Slurry Infiltrated Fibrous Concrete (SIFCON) in punching shear	R.Rama Mohan Reddy	2005
46	Behaviour of punching shear studies on Slurry Infiltrated Fibrous Concrete (SIFCON) two way slabs (Four edges fixed)- An experimental investigation	M.Anuradha	2005
47	An experimental investigation on 38ehavior of simply supported two way Slurry Infiltrated Fibrous Concrete (SIFCON) slabs in punching shear	I.Ramesh	2005
48	An experimental investigation on the 38ehavior of steel reinforced (SIFCON) slabs (Three edges fixed and one edge is simply supported)	K.Gnaneswar	2005
49	The 38ehavior of Slurry Infiltrated Fibrous Concrete (SIFCON) slabs with steel reinforcement under Impact loading (all edges clamped)- An experimental investigation	M.Venkata Subbaiah	2005
50	Optimization of regenerative air preheater	N.Niranjani	2005
51	Optimization of framed rack structures for automated storage and retrieval systems	P.Sharadha	2005
52	Analysis and design of turbo generator foundation	U.V.Narayana Rao	2005
53	The 38ehavior of Slurry Infiltrated Fibrous Concrete (SIFCON) with three edges fixed and one edge simply supported two way slabs in flexure	K.Ramesh	2005
54	Flexure 38ehavior of SIFCON slabs (with reinforcement) with all edges clamped – AN experimental study	V.Showjendra Kumar Reddy	2005
55	The 38ehavior of reinforced (SIFCON) two way slabs in flexure (with two opposite sides fixed and two opposite sides simply supported) – An experimental study	Y.Venkata Siva Reddy	2005
56	A 38ehavior38ve study on Seismic Design of induced Draft cooling tower	P.Sravanthi	2005

	(As per IS 1893: 1984 & IS 1893:2002)		
57	Experimental investigation of flexural behavior of simply supported reinforced SIFCON slabs	T.Chinna Venkata Reddy	2005
58	Some studies on flexural behavior of Steel Reinforced SIFCON slabs (Two adjacent edges simply supported other two edges fixed)	V.Giridhar	2005
59	Effects of elevated temperatures on Slurry Infiltrated Fibrous Concrete (SIFCON)	P.Arun Kumar	2005
60	Effects of strong acids present in water on strength and setting properties of flyash cement concrete	P.Srinivasa Rao	2005
61	Studies on influence of strong acidic substances in water on setting and strength properties of Slurry Infiltrated Fibrous Concrete (SIFCON)	K.Chennakesavulu Naik	2005
62	Scaled Model Design and FE analysis of a typical missile structure	C.Venkata Sravan Kumar	2005
63	Dynamic Analysis of Bridge, Design of superstructure and seismic design of bearings	J.M.S. Naveen Chandra	2005
64	The behavior of Slurry Infiltrated Fibrous Concrete (SIFCON) three edges fixed and one edge simply supported –Two way slabs in flexure	Sake. Balakatamaia	2005
65	The flexural behavior of restrained Slurry Infiltrated Fibrous Concrete SIFCON two way slabs	D.V.Sivakrishna Reddy	2005
66	Chloride permeability of High Performance concrete with fly ash admixture	D.Sunil	2005
67	Chloride permeability of High Performance concrete with silicafume admixture	S.Gone Naik	2005
68	Chloride permeability of High Performance concrete with metakaolin admixture	A.Vara Prasad Rao	2005
69	Resistance of Metakaolin based HPC to acid attack an experimental investigation	M.Beulah	2006
70	Resistance of silica-fume based PC to acid attack an experimental investigation.	A.Rajani	2006
71	An experimental investigation on poly-propylene fibre reinforced high performance concrete	P.Prasad	2006
72	Development of M50 grade self compacting concrete without using VMA	K.Padmavathi	2006
73	Analysis and design of steam turbo generator foundation	T.K.Sateesh Kumar	2006
74	Analysis and design of control cum switch gear building using FEM packages STAAD pro and NISA civil – A comparative study.	G.Narendra	2006
75	Behavior of Fiber Reinforced High Performance Concrete at Elevated Temperatures	B.Naga Mallika	2007
76	Resistance of Fly ASH Based Glass Fibre Reinforced High Performance Concrete to Acid Attack – An Experimental Investigation	A.S.V.Lakshmi	2007
77	Resistance of Silica Fume Based Glass Fibre Reinforced High Performance Concrete to Acid Attack – An Experimental Investigation	U.Bhargavi	2007
78	An Experimental Investigation on glass Fibre Reinforced High Performance Concrete with Fly ASH as Admixture	D.Ravi Kumar	2007
79	Chloride Permeability of Glass Fiber Reinforced High Performance Concrete with Metakaolin as Admixture	B.Janardhana Rao	2007
80	Chloride Permeability of Glass Fibre Reinforced High performance Concrete with Silica Fume as Admixture	Ch. Subba Rao	2007
81	An Experimental Investigation on Glass Fibre Reinforced High performance Concrete with Metakaolin as Admixture	A.Srirama Sastry	2007
82	An Experimental Investigation on Glass Fibre Reinforced High Performance Concrete with Silica Fume as Admixture	S.Sridhar Reddy	2007
83	Chloride Permeability of glass Fiber Reinforced High performance Concrete with Fly ASH as Admixture	G.Venkata Kishore	2007
84	Genetic Algorithm Based Neural Network Model for Predicting the Properties of Polypropylene Fibre Reinforced high Performance Concrete	T.Rangaiah	2007
85	Behavior of high performance concrete at Elevated Temperatures	D.Mahaboob	2007
86	Influence of recycled aggregates on strength parameters of high-performance-concrete	Syed Hameed	2008
87	Flexural behavior of clamped SIFCON two-way slabs reinforced by weld mesh-An Exp. Investigation	M. Srinivas	2008
88	Flexural behavior of simply supported SIFCON two-way slabs with mesh	Y. Venkata Subba	2008

	reinforcement-An Exp. Investigation	Reddy	
89	Punching shear 40behavior of simply supported recycled coarse aggregate concrete slabs-An experimental investigation	A. Venkata Subbaiah	2010
90	An experimental investigation on punching shear 40behavior of restrained recycled coarse aggregate concrete slabs	B. Koteswara Rao	2010
91	Simply supported 40behavior of high-performance-concrete slabs in punching shear- An experimental investigation	E. Premkumar Reddy	2010
92	Behaviour of restrained high-performance-concrete slabs in punching shear- An experimental investigation	Bheem Rao Jaligama	2010
93	Studies of slightly acidic substances effects on fly ash concrete	H.S. Bharmaji Rao	2011
94	Studies on influence of neutral salts in water on setting and strength properties of slurry infiltrated fibrous concrete (SIFCON)	M. Mallikarjuna Rao	2011
95	Effects of strong acids present in water on strength and setting characteristics of ordinary Portland cement concrete M20&M50 grades	S. Niranjan Prasad	2011
96	Workability and strength studies on metakaolin based self compacting concrete	A. Bhagya Lakshmi	2012
97	Workability and strength studies on silicafume based self compacting concrete	T. Gangadri	2012
98	Effects of Na ₂ SO ₄ , CaCO ₃ on setting times, workability and strength of HPC with phosphogypsum admixture	M. Arun Jyothi	2012
99	Design of earth-quake resistant multi-storied RCC building on a sloping ground	S. Saraswathi	2012
100	Parametric studies on large span cantilever structures using STAAD-PRO software	S. Mohammad Zaki Javed	2012
101	Dynamic analysis of multi-storied framed structures using STAAD-PRO analysis software	D. Nirosha	2012
102	Analysis and design of combined foundation for boiler using STAAD-PRO	M. Premasagar	2012
103	Effects of sodium carbonate on setting times, workability and strength of HPC with phosphogypsum admixture	Dakka Gurappa	2012
104	Experimental Investigation on chloride ion permeability of natural rubber latex modified fibre reinforced HPC	M.G. Anusuma	2012
105	Chloride ion permeability of natural rubber latex modified fiber reinforced concrete	S. Rehna Waseem	2012
106	Damage and drift analysis for 18 storey reinforced concrete building due to seismic force	S. Ujwala	2013
107	Seismic evaluation of multi storeyed shear wall building system	M.S. Sailaja Sasi Keerthi	2014
108	Dynamic analysis of building with & without expansion joint	B. Praveen Kumar	2014
109	Effects of Cacl ₂ , MgSO ₄ on setting times, workability and strength of HPC with Phosphogypsum admixture	A. Manohar Reddy	2014
110	Effects of hydrogen chloride and sulphuric acid on setting times, workability and strength of HPC with Phosphogypsum admixture	P. Sunil Kumar	2014
111	Performance of lateral systems in tall buildings for different soil type and seismic zones	K. Shaiksha Vali	2014
112	An experimental study on strength characteristics of flyash based geo-polymer masonry blocks	K. Naveena	2014
113	Effect of hydrogen chloride and sulphuric acid on setting times, workability and strength of HPC with metakaolin admixture	Y. Shaguftha Parveen	2014
114	Studies on strength properties of GGBS based geo-polymer concrete masonry blocks	G. Viswanath	2014
115	Torsional Effect on Multi storeyed building with water tank due to seismic forces	K. Archana	2014
116	Deflection control in high rise buildings under seismic excitations using lateral systems	S. Sudheer	2014
117	Analysis and design of multi-storey building for flat and grid floor systems using ETABS	T. Rajini	2015
118	Seismic behavior of flat slab framed structures with and without masonry infill walls	A.G. Sandeepthi	2015
119	Non-linear analysis of multistory G+4 building by time history method using Newmark's linear and average acceleration methods	A. Swetha	2015
120	Analysis of earthquake loads on G+7 storey building with concentric	L. Divya	2015

	bracing system and eccentric bracing system using RESIST software		
121	A non-linear dynamic analysis of RCC shear wall for symmetric regular multistorey building using Newmark's linear acceleration method	G. Rajesh	2015
122	Shear wall analysis and design optimization in high rise buildings	G. Sri Harsha	2015
123	Differentiation, use and application of shell elements, membrane elements, thick shell elements in case of high rise buildings	S. Naga Prasuna	2015
124	Optimized modeling and design of steel frames indifferent seismic zones using ETABS software	K. Naga Bhushanam	2015
125	Seismic Analysis of Tall Buildings with and without Chevron bracings and struts structures using ETABS software	P. Pramod Kumar Reddy	2016
126	Seismic Analysis of composite structures and its comparison with RCC structures using ETABS software	K. Mukesh Kumar	2016
127	Flexural & Tensile strength properties of GGBS and Phosphogypsum blended Geopolymer concrete	T. Lakshmi Prasad	2017
128	Behaviour of flyash-Phosphogypsum and GGBS blended Geopolymer concrete in acidic environment	P. Chowdaiah	2017
129	Strength and durability studies on Geopolymer concrete blended with GGBS and Phosphogypsum	Y. Naresh Babu	2017
130	Deflection control of framed structures under seismic excitations using TMD	Y. Sai Venu Gopal	2017
131	Comparison of Seismic analysis of a Floating column building and normal building	Yennebera Abhinay	2017
132	Seismic performance evaluation of RC buildings with regular and irregular floor masses	K.P. Chandra Mohan	2017
133	Effect of Wind load on low, medium, high rise buildings in different terrain category using ETABS	B.Shobha	2018
134	Failure control of a skyscraper using different methods of retrofitting	K.Pavan Kumar	2018
135	Design of a structure supported on a single column	G.Pradeep Kumar Reddy	2018
136	Analysis and Design of Skyscraper Building of G+60 storey's in all seismic zones by using ETABS software	K.Aswani	2018
137	Effect of Diaphragm Discontinuity in the seismic response of multi-storey building	J.Sreenath	2018
138	Modelling and analysis of flyover deck slab with U-Boot technology	M. Surya Prasanth	2018
139	Studies on Geopolymer Concrete with partial replacement of sand by quarry stone dust	Shaik Farooq Ahmed	2018
140	Seismic analysis of RC elevated water tank in different seismic zones	Lingivatula Naidu	2019
141	Effect of Hydrochloric Acid on Compressive Strength of Flyash based Recycled Aggregate based Geopolymer Concrete	LV Lokesh Naik	2019
142	Permeability Studies on E-waste cement concrete with metakaolin Admixture	K Naganna	2019
143	Vibration machinery and seismic resistance behaviour analysis of steel structures in different Zones	Pitti Venkata Suneel	2020
144	Strength and workability studies of Geopolymer Concrete with Recycled Coarse Aggregate and Quarry Stone Dust	N C Nandeesh	2020
145	Pushover Analysis of a Reinforced Concrete High Rise Building with Aerated Autoclave Concrete Brick Infill and its Behavior with and without Shear wall	Lingampalli Kumar Sai Kishore	2020
146	Effects of steel fibers on the properties of high flyash concrete	P. Sunil Kumar	2021
147	Studies on Geopolymer Foam Concrete	Y. Deepthi	2021
148	Comparative analysis of concrete mechanical properties with slag sand and marble waste aggregate incorporating metakaolin	Pujari Yabhatam Janardhan	2021
149	Strength Properties of concrete with rice husk ash, slag sand and marble waste aggregate	Gaddegola Surekha	2021
150	Performance of Multi-storied building with curved shear walls	Tanguturi Deekshitha	2021
150	Seismic analysis of coupled shear wall in Multi-storey buildings with different rebars using SAP2000	Mallapu Kalyaneswar Reddy	2022
151	Analysis and design of steam turbo generator foundation using STAAD-PRO	Ponnapati Shivani Reddy	2022
152	Studies on low calcium flyash-GGBS based geopolymer concrete with slag	Shaik Basheer	2022

	sand		
153	Impact on strength properties of concrete using marble waste aggregate and slag sand incorporating silica fume	P Saleem Parvez	2022
154	Comparative Analysis of a reinforced framed structure under performance based analysis considering post tensioned members at the edges using ETABS as a tool	Mahammad Yusuf M	2022
155	Importance of Aspect ratio in the analysis and design of a 15 storied building using ETABS considering seismic zones	Alavalapati Rupasree	2022
156	Comparative Analysis of behavior of horizontal and vertical irregular buildings with and without using shear walls by ETABS software	Sake Krishna Sai	2023
157	Analysis of fragility curves of RC flat slab buildings with and without infill effect using push over method	Sunnapuralla Ravi Teja	2023
158	Strength characteristics of concrete containing dolomite powder and slag sand	T Ranjith Kumar	2023
159	Comparative analytical study of seismic response and cost of multi-storey (G+12) RCC, Steel & Steel-Concrete composite building	Rajeswaramma Maradi	2023
160	Seismic Time-History analysis and designing of multi-storey building with floating column and normal columns in earthquake zone area by SAP software	Ganjikunta Sreelatha	2023
161	Experimental studies on high strength concrete containing slag sand with partial replacement of cement by metakaolin	M Dinesh Kumar	2023
162	Durability studies on high strength concrete incorporating Pumice powder and slag sand	Kattubadi Malini	2023
163	Experimental investigation on strength properties of concrete blended with Dolomite dust powder with slag sand and recycled aggregates	M Sai Dinesh	2023

LIST OF PUBLICATIONS

- 1) Mukherjee, A. and Rao, H.S. (1995), *FE-modeling of the toughening mechanisms in whisker reinforced Ceramic-Matrix-Composites* Computational Materials Science, 4, pp 249-262. (SCI)
- 2) Rao, H.S., Deshpande, J.M. and Mukherjee, A. (1997), *Development of constitutive laws for whisker reinforced ceramics- A neural network approach* Science and Engineering of Composite materials, Vol.6, No.4, pp. 225-245 (SCI)
- 3) Rao, H.S. and Mukherjee, A. (1996), *Artificial Neural Networks for predicting the macro mechanical behaviour of Ceramic-Matrix-Composites*, Computational Materials Science, 5, pp 307-322. (SCI)
- 4) Rao, H.S., Vaishali G. Ghorpade and Mukherjee, A. (2006), “A genetic algorithm based back propagation network for simulation of stress- strain response of ceramic – matrix – composites”, Computers and Structures 84, pp 330 – 339. (SCI)
- 5) Sudarsana Rao, H. and Venkatarami Reddy, Y. (1997), *Engineering Education Through Distance Mode - Few Ideas & Suggestions for improvement*, The Indian Journal Of Technical Education, (I.S.T.E.), Vol. 21, No.2, April-June, 1998, pp 5-8 (UGC)

- 6) V.Venkateswara Reddy, Dr.H.Sudarsana Rao and Dr. K.N.Jayaveera(2004), "*Effects of water quality on Strength & Setting properties of Slurry Infiltrated Fibrous Concrete*", A journal of "Nature, Environment and Pollution Technology", Vol. 3, No.2, June 2004, pp.209-212. (SCOPUS)
- 7) Sudarsana Rao.H and Ramana .N.V(2005), "*Behaviour of slurry infiltrated fibrous concrete (SIFCON) simply supported two – way slabs in flexure*", Indian Journal of Engineering and Materials Sciences, Vol 12, October 2005, pp. 427-433.(SCOPUS)
- 8) V.Venkateswara Reddy, Dr.H.Sudarsana Rao and Dr. K.N.Jayaveera(2006), "*Influence of strong alkaline substances (sodium carbonate and sodium bicarbonate) in mixing water on strength and setting properties of concrete* ", Indian Journal of Engineering and Materials Sciences, Vol 13, April 2006, pp. 123-128.(SCOPUS)
- 9) V.Venkateswara Reddy, Dr.H.Sudarsana Rao and Dr. K.N.Jayaveera (2006), "*Effect of neutral salts present in water on Strength & Setting properties of Concrete*", A journal of "Nature, Environment and Pollution Technology", Vol. 5, No.2, pp.187-196. (SCOPUS)
- 10) Sudarsana Rao, H. and Ramesh Babu, B. (2006), "*Optimum column design by genetic algorithm based neural networks*", Indian Journal of Engineering and Materials Sciences, Vol 13, December, 2006, pp. 503-511.(SCOPUS)
- 11) Reddybabu, G., Sudarsana Rao, H. And Ramana Reddy, I.V. (2007), "*Influence of metal ions in industrial waste water on the cement setting, strength development and hardening*", Journal of Ultra Scientist of Physical Sciences, Vol. 19, No.3, pp. 409-418 (SCOPUS)
- 12) Reddybabu, G., Sudarsana Rao, H. And Ramana Reddy, I.V. (2007), "Use of treated industrial wastewater as mixing water in cement works", Nature, Environment and pollution technology, Vol. pp. (SCOPUS)
- 13) Sudarsana Rao, H. and Ramesh Babu, B. (2007), "*Hybrid neural network model for the design of beam subjected to bending and shear*", Sadhana, Vol.32, Part. 5, pp. 577-586 (ugc)
- 14) Sudarsana Rao, H., Gnaneswar, K. and Ramana, N.V. (2008), "*Behaviour of simply supported steel reinforced SIFCON two-way slabs in punching shear*", Indian Journal of Engineering and Materials Science, vol.15, pp.326-333 (SCOPUS)
- 15) Sudarsana Rao, H., Gnaneswar, K. and Ramana, N.V. (2008), "*Behaviour of steel reinforced slurry infiltrated fibrous concrete two-way slabs in flexure with two*

adjacent edges simply supported and other two edges fixed”, Research Journal of Engineering and Technology, Vol.1-1, pp. 01-06.

- 16) Sudarsna Rao, H. and Chandrasekhara Reddy, T. (2008), “Development of artificial neural network based macro-mechanical model for slurry infiltrated fibrous concrete”, Research Journal of Engineering and Technology, Vol.1-2, pp. 48-52.
- 17) Sudarsana Rao H, Siva Sankar Reddy T, and Rupesh Kumar D. (2009), “Effect of Phosphogypsum on Strength Characteristics of Concrete using Different Water Binder Ratios,” Research Journal of Engineering and Technology, V. 2, No. 1, January-March 2009, pp. 8-13.
- 18) Reddybabu, G., Sudarsana Rao, H. And Ramana Reddy, I.V. (2009), "Effect of metal ions in industrial waste water on cement setting, strength development and hardening”, The Indian Concrete Journal, Volume 83, No.4, pp. 42 (**SCOPUS**)
- 19) Sudarsana Rao, H., Ramana, N.V. and Ganeswar, K. (2009), “ Behaviour of restrained SIFCON two way slabs Part-1: Flexure”, Asian Journal of Civil Engineering (Building and Housing), Vol. 10, No.4, pp. 427-449. (**SCI**)
- 20) Sudarsana Rao, H., Ramana, N.V. and Ganeswar, K. (2009), “ Behaviour of restrained SIFCON two way slabs Part-2: Shear”, Asian Journal of Civil Engineering (Building and Housing), Vol. 10, No.4, pp. 481-494. (**SCI**)
- 21) Vaishali.G.Ghorpade, Sudarsana Rao, H., and Ravindra, V. (2009), “ Resistance of fly-ash based High-Performance-Concrete to acidic environment”, Nature, Environment and pollution technology, Vol. 8, No.2, pp. 197-206 (**SCOPUS**)
- 22) Vaishali.G.Ghorpade, Sudarsana Rao, H., and Ravindra, V. (2009), “Durability studies on Silica Fume based High-Performance-Concrete”, Research Journal of Engineering and Technology, Vol. 2 (1), pp. 34-38
- 23) Sudarsana Rao, H., Reddy, N.R.M., and Vaishali.G.Ghorpade., (2009), “ Strength and Workability of Metakaolin incorporated High-Performance-Concrete”, Research Journal of Engineering and Technology, Vol. 2 (1), pp. 16-20
- 24) Sudarsana Rao, H., Reddy, N.R.M., and Vaishali.G.Ghorpade., (2009), “ Effect of Polypropylene fibres on the workability and strength characteristics of Metakaolin blended High Performance Concrete”, Research Journal of Engineering and Technology, Vol. 2 (2), pp. 51-57

- 25) Sudarsana Rao, H., Vaishali.G.Ghorpade, Ramana, N.V. and Gnaneswar, K. (2010), “Response of SIFCON two way slabs under impact loading”, International Journal of Impact Engineering, Elsevier, Vol.37, issue 4, pp. 452-458 (**SCI**)
- 26) Sudarsana Rao, H., Siva Sankar Reddy, T. and Rupesh Kumar D. (2010), “A Study on Strength Characteristics of Phosphogypsum Concrete”, Asian Journal of Civil Engineering (Building and Housing), Vol. 11, No.4, pp. 411-420.(**SCI**)
- 27) Vaishali.G.Ghorpade and Sudarsana Rao, H., (2010), “Strength and Permeability characteristics of fibre reinforced recycled aggregate concrete with different fibres”, Nature Environment and Pollution Technology, Vol. 9., (1), pp. 179-188 (**SCOPUS**)
- 28) Vijayanand, M., Nicolae Angelescu, Muthu, K. U., and Sudarsana Rao, H. (2010), “Flexural characteristics of steel fibre reinforced self compacting concrete beams”, The Scientific Bulletin of Valahia University – Materials and Mechanics, No.5 (Year 8), pp. 100-106
- 29) Sashidhar, C., Sudarsana Rao, H., Ramana, N.V., Gnaneswar, K., (2010), “Compression and tension behaviour of SIFCON produced with low tensile strength steel fibres”, The Indian Concrete Journal, Vol., pp. 31 to 36 (**SCOPUS**)
- 30) Rama Mohan Rao, P. and Sudarsana Rao, H., (2010), “Effect of Glass Fibres on flyash based concrete” International Journal of Civil and Structural Engineering, Vol.1, No.3 pp. 606 to 612 (**UGC**)
- 31) Vaishali.G.Ghorpade and Sudarsana Rao, H., (2011), “Chloride ion permeability studies of metakaolin based high-performance-concrete”, International Journal of Engineering Science & Technology, Vol.3, No.2, pp. 1617 to 1623 (**UGC**)
- 32) Vaishali.G.Ghorpade and Sudarsana Rao, H., (2011), “Strength and Permeability Characteristics of Fiber Reinforced High-Performance-Concrete with recycled aggregates”, Asian Journal of Civil Engineering (Building and Housing), Vol. 13, No.1, pp. 55-77. (**SCI**)
- 33) Sudarsana Rao, H., Somasekharaiah, H.M. and Vaishali.G.Ghorpade (2011), “*Strength and workability Characteristics of Fly ash based Glass Fibre Reinforced High-Performance-Concrete*”, International Journal of Engineering Science & Technology”, Vol.3, No.8, pp. 6266 to 6277 (**UGC**)
- 34) Sudarsana Rao, H., Somasekharaiah, H.M. and Vaishali.G.Ghorpade (2011), “Strength and workability Characteristics of Silica fume based Glass Fibre Reinforced High-Performance-Concrete”, Research Journal of Engineering & Technology”, Vol.4, No.3, July-Sept, pp. 03 to 10 ISSN 0974-2824

- 35) Sashidhar, C., Sudarsana Rao, H., Gnaneswar, K., Ramana, N.V., (2011), “*Flexural behaviour of SIFCON produced with low tensile strength steel fibre*”, The Indian Concrete Journal, Vol. 85 (10), pp. 37 to 42 (SCOPUS)
- 36) Sudarsana Rao, H., Somasekharaiah, H.M. and Vaishali.G.Ghorpade (2012), “*Residual compressive strength of Fly ash based Glass Fibre Reinforced High-Performance-Concrete subjected to acid attack*”, International Journal of Engineering Science & Technology”, Vol.4, No.1, pp. 71 to 80 ISSN 0975-5462 (UGC)
- 37) Sudarsana Rao, H., Vaishali.G.Ghorpade (2012) and Somasekharaiah, H.M. “*Durability studies on metakaolin based Glass Fibre Reinforced High-Performance-Concrete*”, International Journal of Advanced scientific Research and Technology”, Vol.2, No.2, pp. 204 to 211 (ISSN 2249-9954) (UGC)
- 38) Sudarsana Rao, H., Subba Reddy, P.V., Vaishali.G.Ghorpade and Chandrasekhar Reddy, T. (2012), “*Development of Genetic algorithm based hybrid neural network model for predicting the ultimate flexural strength of Ferrocement elements*”, International Journal of Engineering Science & Technology”, Vol.4, No.3, pp. 867 to 873 ISSN 0972-5462 (UGC)
- 39) Sudarsana Rao, H., Somasekharaiah, H.M. and Vaishali.G.Ghorpade (2012), “*Strength and Workability characteristics of metakaolin based Glass Fibre Reinforced High-Performance-Concrete*”, International Journal of Advances in Science and Technology, Vol.4, No.2, pp. 93 to 105 ISSN 2229-5216 (UGC)
- 40) Madhusudhana Reddy, B., Sudarsana Rao, H. and George, M.P. (2012), “*Effect of sulphuric acid (H₂SO₄) on blended cement (flyash) and its concrete*”, International Journal of Applied Engineering and Technology, Vol.2, No.2, pp. 01 to 06 (ISSN: 2277-212X) (UGC)
- 41) Sudarsana Rao, H., Showjendra Kumar Reddy, V. and Vaishali.G.Ghorpade (2012), “*Influence of recycled coarse aggregate on punching behavior of recycled coarse aggregate concrete slabs*”, International Journal of Modern Engineering Research, Vol.2, No.4, pp. 2815 to 2820 (ISSN: 2249-6645) (UGC)
- 42) Dr.H.Sudarsana Rao, K.Rajasekhar, Dr.Vaishali.G.Ghorpade (2012), “*Finite Element Analysis of Slurry Infiltrated Fibrous Concrete two way Slabs subjected to Flexural Loading*”, International Journal of Engineering Science & Technology (IJEST), (ISSN 2278-9510), Vol.4, No.7 July 2012. Pp 201-210 (UGC)
- 43) Arunakanthi, E., Sudarsana Rao, H. and Ramana Reddy, I.V. (2012), “*Effects of hydrochloric acid in mixing and curing water on strength of high-performance*

- metakaolin concrete”, International Journal of Applied Engineering and Technology, Vol. 2 (2) pp. 68 to 76 (ISSN: 2277-212X) (UGC)
- 44) Madhusudhana Reddy, B., Sudarsana Rao, H. and George, M.P. (2012), “Effect of hydrochloric acid (HCL) on blended cement (flyash based) and silicafume blended cement and their concretes”, International Journal of Science and Technology, Vol.1, No.9, pp. 476 to 480 (ISSN: 2049-7318) (UGC)
 - 45) Vaishali.G.Ghorpade, Sudarsana Rao, H., and Beulah, M. (2012), “*Development of genetic algorithm based neural network model for predicting workability of high-performance-concrete*”, International Journal of Research and Reviews in applicable Mathematics and Computer Science Vol.2, No.5, pp. 40 to 51 (ISSN: 2249-8931) (UGC)
 - 46) Ramesh Babu, B. and Sudarsana Rao, H. (2012), “*Hybrid neural network model for the design of footing*”, International Journal of Engineering Research and Development, Vol. 4 (2), pp. 35-43.(ISSN 2278-800X) (UGC)
 - 47) Rama Mohan Rao, P. and Sudarsana Rao, H. (2012), “*Strength properties of Class C fly ash concrete with variable aggregate-binder ratio*”, NICMAR- Journal of Construction Management, Vol. XXVII, No.4, pp. 39-44 (ISSN: 0970-3675) (SCOPUS)
 - 48) Rama Mohan Rao, P. and Sudarsana Rao, H. (2012), “*Prediction of compressive strength of concrete with different aggregate-binder ratio using ANN model*”, International Journal of Engineering research & Technology, Vol.1, No.10 (ISSN:2278-0181) Impact Factor: 1.76 (UGC)
 - 49) Vaishali. G. Ghorpade, Sudarsana Rao, H., and Beulah, M. (2013), “*Development of genetic algorithm based neural network model for predicting strength of high-performance-concrete*”, International Journal of Engineering Research and Applications (IJERA), Vol.3, No.2, pp. 1687 to 1694 (ISSN: 2248-9622) (UGC)
 - 50) Vaishali.G.Ghorpade, Sudarsana Rao, H., and Ramana Prasad, B.V. (2013), “*Deriving mix proportions for different grades of phosphogypsum based self compacting concrete*”, International Journal of Engineering Research and Applications (IJERA), Vol.3, No.3, pp. 467 to 473 (ISSN: 2248-9622) (UGC)
 - 51) Vaishali.G.Ghorpade, Sudarsana Rao, H., and Munirathnam, K. (2013), “*Effect of natural rubber latex on strength and workability of fibre reinforced high-performance-concrete with metakaolin admixture*”, International Journal of Engineering Research and Applications (IJERA), Vol.3, No.3, pp. 827 to 831 (ISSN: 2248-9622) (UGC)

- 52) Sudarsana Rao, H., Munirathnam, K., Vaishali.G.Ghorpade and Sashidhar, C. (2013), "*Influence of natural rubber latex on permeability of fibre reinforced high-performance-concrete*", International Journal of Innovative Research in Science Engineering and Technology (IJIRSET), Vol.2, No.7 (July), pp. 2715 to 2720 (ISSN: 2319-8753) Impact Factor: 1.672 (UGC)
- 53) Sudarsana Rao, H. and Vaishali. G .Ghorpade (2013) "*Strength assessment of blended cement concrete with water containing sulphuric acid*", International Journal of Civil Engineering and Technology (IJCET), Vol.4, No.5 (Sept-Oct), pp. 09 to 14 (ISSN: 0976-6308) Impact Factor: 5.3277 (UGC)
- 54) Sudarsana Rao, H., Giridhar, Valikala and Vaishali. G .Ghorpade (2013) "*Influence of water absorption of ceramic aggregate on strength properties of ceramic aggregate concrete*", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.2, No.11 (November), pp. 6329 to 6335 (ISSN: 2319-8753) Impact Factor: 1.672 (UGC)
- 55) Vaishali. G .Ghorpade, Sudarsana Rao, H. and Giridhar, Valikala (2013) "*Effect of ceramic recycled aggregate on chloride ion permeability of concrete*", International Journal of Emerging Trends in Engineering and Development (IJETED), Vol.6, No.3 (November), pp. 245 to 251 (ISSN: 2249-6149) Impact Factor: 2.87 (UGC)
- 56) Siva Konda Reddy, B., Vaishali. G .Ghorpade and Sudarsana Rao, H. (2013) "*Effect of magnetic field exposure time on workability and compressive strength of magnetic water concrete*", International Journal of Advanced Engineering Technology, Vol.4, (July-Sept) No. 3, pp. 120 to 122 (ISSN:0976-3945) (UGC)
- 57) Arunakanthi, E., and Sudarsana Rao, H. (2013), "*Effects of sulphuric acid in mixing and curing water on strength of high-performance metakaolin concrete*", International Journal of Scientific Research, Vol. 2 (12) (December) pp. 147 to 150 (ISSN: 2277-8179) Impact Factor: 0.3317 (UGC)
- 58) Arunakanthi, E., Sudarsana Rao, H. and Ramana Reddy, I.V. (2013), "*Effects of magnesium sulphate in mixing and curing water on strength of high-performance metakaolin concrete*", Global Research Analysis, Vol. 2 (12) pp. 64 to 67 (ISSN: 2277-8160) (UGC)
- 59) Siva Konda Reddy, B., Vaishali. G .Ghorpade and Sudarsana Rao, H. (2014) "*Influence of magnetic water on strength properties of concrete*", Indian Journal of Science & Technology, Vol.7, (January) No. 1, pp. 14 to 18 (ISSN:0974-6846) (e ISSN:0974-5645) (UGC)

- 60) Sudarsana Rao, H., Sashidhar, C., Vaishali. G .Ghorpade and Venkat Reddy T.C. (2014) “*Behavior of simply supported high-performance-concrete two way slabs in punching shear*”, International Journal of Emerging Trends in Engineering and Development (RS Publications), Vol.2 (March), No.4 pp. 775 to 785 (ISSN: 2249-6149) Impact Factor: 2.87 (UGC)
- 61) Sudarsana Rao, H., Sashidhar, C., Vaishali. G .Ghorpade and Venkat Reddy T.C. (2014) “*Mix design of high-perfromance-concrete using silicafume and superplasticizer*”, International Journal of Innovative Research in Science, Engineering and Technology, Vol.3 (March), No.3 pp. 10735 to 742 (ISSN: 2319-8753) Impact Factor: 1.672 (UGC)
- 62) Gopala Krishna Sastry, K.V.S., Sudarsana Rao, H., Ramana Reddy, I.V. and Vaishali.G.Ghorpade (2014) “Development of genetic algorithm based macro mechanical model for steel fibre reinforced concrete”, International Journal of Engineering Research and Applications, Vol.4 (Jan), No.1 pp. 05 to 11 (ISSN: 2248-9622) Impact Factor: 1.69 (UGC)
- 63) Gopala Krishna Sastry, K.V.S., Sudarsana Rao, H., Ramana Reddy, I.V. and Vaishali.G.Ghorpade (2014) “A genetic algorithm based neural network model for predicting strength characteristics of steel fibre reinforced concrete”, International Journal of Emerging Trends in Engineering and Development (RS Publications), Vol.4 (June-July), No.4 pp. 452 to 461 (ISSN: 2249-6149) Impact Factor: 2.87 (UGC)
- 64) Giridhar, V., Sudarsana Rao, H. and Vaishali.G.Ghorpade (2015) “Development of regression models for strength of ceramic waste aggregate concrete”, International Journal of Emerging Trends in Engineering and Development (RS Publications), Vol.1 (Dec-Jan), No.5 pp. 167 to 178 (ISSN: 2249-6149) Impact Factor: 2.87 (UGC)
- 65) Golla Rajesh and Sudarsana Rao, H. (2015) “A non-linear dynamic analysis of RCC shear wall for symmetric regular multistory building using Newmark’s linear acceleration method”, International Journal of Engineering Sciences & Research Technology, 4. (6.), June, pp.580 to 589 (ISSN: 2277-9655) Impact Factor: 3.785 (UGC)
- 66) Divya, L. and Sudarsana Rao, H. (2015) “Analysis of earthquake loads on G+7 storey building with concentric bracing system and eccentric bracing system using RESIST software”, International Journal of Engineering Sciences & Research Technology, 4. (9.), September, pp. 178 to 188 (ISSN: 2277-9655) Impact Factor: 3.785 (UGC)
- 67) Swetha, A. and Sudarsana Rao, H. (2015) “Non-linear analysis of multistory G+4 building by time history method using Newmark’s linear and average acceleration

- method”, International Journal of Engineering Sciences & Research Technology, 4. (7.), July, pp. 209 to 221 (ISSN: 2277-9655) Impact Factor: 3.785(UGC)
- 68) Naga Prasuna, S. and Sudarsana Rao, H. (2015) “Differentiation, use and application of shell elements, membrane elements, thick shell elements in case of high rise buildings”, International Journal of Engineering Sciences & Research Technology, 4. (10.), October, pp. 244 to 250 (ISSN: 2277-9655) Impact Factor: 3.785(UGC)
- 69) Naga Bhushanam, K. and Sudarsana Rao, H. (2015) “Optimized modeling and design of steel frames indifferent seismic zones using ETABS software”, International Journal of Engineering Sciences & Research Technology, 4. (12.), December, pp. 153 to 161 (ISSN: 2277-9655) Impact Factor: 3.785 (UGC)
- 70) Subbaramaiah G., Sudarsana Rao, H., and Vaishali. G. Ghorpade, (2015), “Strength of cement mortar containing partial addition and replacement of wood waste ash”, International journal of scientific research and development(IJSRD), Vol – 3, issue 07,2015, *ISSN (online): 2321-0613*(UGC)
- 71) Subbaramaiah G., Sudarsana Rao, H., and Vaishali. G. Ghorpade, (2015) “Effect of Addition And Partial Replacement Of Cement By Wood Waste Ash On Strength Properties Of Structural Grade Concrete”, IJSET - International Journal of Innovative Science, Engineering & Technology, Vol. 2 Issue 9, September 2015. (UGC)
- 72) Subbaramaiah G., Sudarsana Rao, H., and Vaishali. G. Ghorpade, (2015) “Durability Properties of Structural Grade Concrete Containing Wood Waste Ash”, International Journal of Research in Civil Engineering, Architecture & Design Volume 3, Issue 3, July-September, 2015, pp. 19-26 (UGC)
- 73) Arunakanthi, E., and Sudarsana Rao, H. (2016), “ *Effects of sulphuric acid in mixing and curing water on strength of high-performance phosopogypsum concrete*”, International Journal of Science Technology & Engineering, Vol. 2 (08) (February) pp. 188 to 192 (ISSN: 2349-784X) Impact Factor: 3.905 (UGC)
- 74) Ramesh Vattikundala, G. Vaishali Ghorpade, Muzavar Abdullah, D Muralidhar rao, H. Sudarsana Rao (2016), " Isolation, molecular characterization and self healing capability of some native isolates of Bacillus sps, " International Journal of Scientific & Engineering Reasearch, Volume 7, Issue 3, March 2016, ISSN 2229-5518, Pp 242-252 (UGC)
- 75) Vijaya G. S, Vaishali G Ghorpade and Sudarsana Rao, H., (2016), " The behaviour of self compacting concrete with waste plastic fibres when subjected to acid attack", International Journal of Engineering &Technology", Vol 8, No.3, Jun- July 2016, e-ISSN: 2319-8613, pp 1521-1527 (UGC)

- 76) Vijaya G S, Vaishali G Ghorpade and Sudarsana Rao,H., (2016), " Waste Plastic Fibre Reinforced Self Compacting Concrete, " International Journal of Engineering Research & applications (IJERA)", Vol.6, Issue 5, May 2016, ISSN No 2248-9622, Pp 27-31(**UGC**)
- 77) Ramesh Vattikundala, Vaishali G Ghorpade, H Sudarsana Rao & P. Niranjana Reddy, (2016), " Identification of Self Healing capability and Strength gaining of some native secludes of Bacillus Aerophilus", International Journal of Civil Engineering and Technology (IJCIET), Vol 7, Issue 6, November-december 2016, Pp 348-356, ISSN Online 0976-6316 (**SCOPUS**)
- 78) V. Rekha, Vaishali G Ghorpade. Sudarsana Rao H, (2016), " Performance of Lateral systems on Tall Buildings", International Journal of Civil Engineering and Technology (IJCIET), Vol.7, Issue 6, November-December 2016, PP 550-557, ISSN Online:0976-6316 (**SCOPUS**)
- 79) Iswarya G, Vaishali G Ghorpade, Sudarsana Rao H (2016), "Sesmic Excitation of Low to High Rise RCC Structure with Lead Rubber bearing Base Isolation, " International Journal of Civil Engineering and Technology (IJCIET), Vol.7, Issue 6, November-December 2016, Pp 472-481, ISSN online: 0976-6316 (**SCOPUS**)
- 80) Naveena K. and Sudarsana Rao, H. (2016), "A review on strength and durability studies on geopolymer concrete produced with recycled aggregate", International Journal for Scientific Research & Development (IJSRD)", Vol.4, Issue 7, July 2016, ISSN No 2321-0613, pp 27-30 Impact Factor 2.39 (**UGC**)
- 81) Anusha Kudumula, Vaishali. G. Ghorpade, and Sudarsana Rao, H. (2017), "*Seismic performance of RC framed buildings under linear dynamic analysis*", International Journal of Civil Engineering and Technology, Vol.8, Issue 1, Jan 2017, ISSN No 0976-6308, pp 09-16 Thomson Reuters' ID: H-3771-2015 Impact Factor 9.7820 H-Index 12 **Scopus** Indexed
- 82) Sudarsana Rao, H., Vaishali. G. Ghorpade, and Beulah, M. (2016), "*Development of artificial neural network model for permeability of high-performance-concrete*", International Journal of Civil and Structural Engineering, Vol.3, Issue 2, August 2016, ISSN No 2372-3971, pp 45-48 Impact Factor--- (**UGC**)
- 83) Pramodkumar Reddy, P. and Sudarsana Rao, H., (2016), "*Seismic analysis of tall buildings with and without Chevron bracings and Struts*", International Journal of Science and Research (IJSR), Vol.5, Issue 9, September 2016, ISSN No 2319-7064, pp 1570- 75 Impact Factor 6.391(**UGC**)

- 84) Mukesh Kumar, K and Sudarsana Rao, H., (2016), "*Seismic analysis of steel concrete composite systems and its contrast with RCC structures*", International Journal of Science and Research (IJSR), Vol.5, Issue 8, August 2016, ISSN No 2319-7064, pp 878- 882 Impact Factor 6.391(UGC)
- 85) Lakshmi Prasad, T., Sudarsana Rao, H. and Vaishali.G.Ghorpade (2017), "*Flexural & Tensile strength properties of GGBS and Phosphogypsum blended Geopolymer concrete*", International Journal of Chem Tech Research (IJCRGG), Vol.10, Issue 6, May 2017, ISSN No 0974-4290, pp Impact Factor 0.598; H-Index 32 **Scopus** Indexed
- 86) Chowdaiah, P., Sudarsana Rao, H. and Vaishali.G.Ghorpade (2017), "*Behaviour of flyash-Phosphogypsum and GGBS blended Geopolymer concrete in acidic environment*", Journal of Chemical and Pharmaceutical Sciences, Vol.10, Issue 3, July-Sep 2017, ISSN No 0974-2115, pp Impact Factor 4.258; H-Index:11 **Scopus** Indexed
- 87) Vaishali G Ghorpade, H Sudarsana Rao & R K Tarun Thej (2017), "Behaviour of RC Multi Storey framed Buildings with Thin Columns", International Journal of Civil Engineering and Technology (IJCIET), Vol 8, Issue 1, january 2017, ISSN Online 0976-6316, Pp 695-703 (**SCOPUS**)
- 88) Vaishali G Ghorpade, H Sudarsana rao, O Ravi (2017), " Effect of Location of Shear wall on Performance of Building frame subjected to lateralload", International journal of Engineering & Technology, Vol 9, Issue 3, Jun-July 2017, Pp 2137-2144 (UGC)
- 89) B.A.H Ikram, Dr Vaishali G Ghorpade, Dr H Sudarsana Rao (2017), "Earthquake Assessment and Retrofitting of RC Flat Plate Structure", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Issue 19, pp 8877-8883 (UGC)
- 90) C Ramakrishna Reddy, Vaishali G Ghorpade, H Sudarsana Rao (2017), "Analysis & Design of a High Rise Unsymmetrical Building with Dampers," International Journal of ChemTech Research ISSN 0974-4290 Volume 10, Issue No.15, Pp 349-357 (SCOPUS)
- 91) V Kishore Kumar, Dr Vaishali G Ghorpade, Dr H Sudarsana Rao (2017), "Experimental Evaluation of Glass Fibre Reinforced Geopolymer Concrete", International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), ISSN 2455-2585, Volume 3, Issue 7, July 2017, Pp 21-25 (UGC)
- 92) Naresh Babu, Y., Sudarsana Rao, H. and Vaishali.G.Ghorpade (2017), "*Strength and durability studies on Geopolymer concrete blended with GGBS and Phosphogypsum*",

- International Journal of Chem Tech Research (IJCRGG), Vol.10, Issue 6, May 2017, ISSN No 0974-4290, pp Impact Factor 0.598; H-Index:32 **Scopus** Indexed
- 93) Savithri S Karanth, Vaishali.G.Ghorpade and Sudarsana Rao, H (2017), “*Permeability characteristics of waste plastic fibre reinforced concrete*”, International Journal of Engineering and Technology (IJET), Vol.9, Issue 2, May 2017, ISSN No 0974-4290, pp. 1022-1029 Impact Factor; H-Index:15 **Scopus** Indexed
 - 94) Savithri S Karanth, Vaishali.G.Ghorpade and Sudarsana Rao, H (2017), “*Shear and Impact strength of waste plastic fibre reinforced concrete*”, Advances in Concrete Construction, Vol.5, Issue 2, Feb 2017, ISSN-2287531X, pp. 173-182 Impact Factor; H-Index:1 **Scopus** Indexed
 - 95) Savithri S Karanth, Vaishali.G.Ghorpade and Sudarsana Rao, H (2017), “*Durability studies of waste plastic fibre reinforced concrete subjected to sulphate attack*”, Journal of Advance Research in Dynamical and control systems, 11-special issue, July 2017, ISSN-1943023X pp. 496-505 Impact Factor; H-Index:6 **Scopus** Indexed
 - 96) Pavan Kumar, K., Sudarsana Rao, H. and Vaishali.G.Ghorpade (2018), “*Failure control of sky scraper using different methods of retrofitting*”, International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), Vol.4, Issue 1, Jan 2018, eISSN No 2455-2585, pp.24-40 Impact Factor 3.45; **(UGC)**
 - 97) B.Shobha, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade, (2018), “*Effect of wind load on low, Medium, High rise buildings in different terrain category*” International journal of Technical Innovation in Modern Engineering & Science (IJTIMES), Vol-4, Issue-2, February – 2018, e-ISSN:2455-2585, pp105-116,Impact Factor-3.45. **(UGC)**
 - 98) G.Pradeep, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade, (2018), “*Design of a Structure supported on a Single Column*”, International Journal of Creative Research Thoughts(IJCRT), Vol-6, Issue-1, February 2018, ISSN:2320:2882.pp.1390-1401. **(UGC)**
 - 99) K.Aswani, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade, (2018), “*Analysis and Design of Skyscraper Building of G+60 storey’s in all seismic zones by using ETABS software*” International journal of Technical Innovation in Modern Engineering & Science (IJTIMES), Vol-4, Issue-2, February – 2018, e-ISSN:2455-2585, pp.27-34,Impact Factor-3.45. **(UGC)**
 - 100) J.Sreenath, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade, (2018), “*Effect of Diaphragm Discontinuity in the seismic response of multi-storey building*” International journal of Technical Innovation in Modern Engineering & Science

(IJTIMES), Vol-4, Issue-2, February – 2018, e-ISSN:2455-2585, pp.41-48, Impact Factor-3.45. **(UGC)**

- 101) Dr.H.Sudarsana Rao and M Surya Prasanth (2018), “Modelling and analysis of flyover deck slab with U-Boot technology” International journal of Civil Engineering and Technology (IJCIET), Vol-9, Issue-8, August–2018, ISSN 0976-6308, pp.393-403, Journal Impact Factor-9.7820 Thomson Reuters Researcher Id: B-7378-2016 (**Scopus Indexed**)
- 102) Lingivatula Naidu, Sudarsana Rao, H and Vaishali G Ghorpade (2018), “ Seismic analysis of RC elevated water tank in different seismic zones”, International journal of Civil Engineering and Technology (IJCIET), Vol-10, Issue-02, February–2019, ISSN 0976-6308, pp.2354-2364, Journal Impact Factor-9.7820 Thomson Reuters Researcher Id: B-7378-2016 (**Scopus Indexed**)
- 103) Shaik Farooq Ahmed, Sudarsana Rao and Vaishali G Ghorpade (2018), “ Studies on geopolymer concrete with partial replacement of sand by quarry stone dust”, International journal of Civil Engineering and Technology (IJCIET), Vol-9, Issue-10, October–2018, ISSN 0976-6308, pp.1192-1201, Journal Impact Factor-9.7820 Thomson Reuters Researcher Id: B-7378-2016 (**Scopus Indexed**)
- 104)** Nagaraja K, Sudarsana Rao, H., (2018), “ Study on performance of ternary blended high strength hybrid fibre reinforced concrete” International Journal of Civil Engineering and Technology (IJCIET), Vol-9, Issue-11, Nov–2018, ISSN:0976-6308 (Print); ISSN: 0976-6316 (online), pp.925-933. (**SCOPUS Indexed/UGC CARE**)
- 105) M Ramadevi, Vaishali G Ghorpade, H Sudarsana Rao (2018), "Comparison of Shear Walls in Response Spectrum Method bu using ETABS-2013, "International Journal of ChemTech Research, ISSN No. 0974-4290, Vol.11, Issue 02, Pp 355-364 (**SCOPUS**)
- 106) S.MD.Akram Khan, Prof. Vaishali G Ghorpade Prof. H Sudarsana Rao, (2018), Analysis of Braced Unsymmetrical RCC Building Using SAP2000", " International Journal of Technical Innovation Engineering & Science (IJTIMES),"ISSN 2455-2585, Vol.4, Issue 5, May 201, Pp 83-97 (**UGC**)
- 107) Ramesh Vattikundala, Prof Vaishali G Ghorpade & Prof H Sudarsana Rao (2018), "Analysis of Strength Parameters of Bacterial Concrete", Journal of Emerging Technologies and Innovative Research (JETIR), ISSN 2349-5162, August 2018, Volume 5, Issue 8, Pp 933-939 (**UGC**)
- 108)** K Priyanka, Vaishali G Ghorpade, H Sudarsana Rao (2018), " Influence of Structural Inertia: A Numerical Study on Simply Supported Beam", International Journal of Multidisciplinary Research (IJMR), ISSN 2455-3662, Vol 4 Issue 9, Pp 5-13 (**UGC**)

- 109) Mahendrakar Hemanth Kumar, Dr Vaishali G Ghorpade, Dr H Sudarsana Rao (2018), “Analysis and design of stress ribbon bridge with CSI bridge software”, International Journal of Civil Engineering and Technology (IJCET), Vol.9, Issue 10,ISSN Print:0976-6308, Pp 1532-1544 **(SCOPUS)**
- 110) Vankayalapati Raghu, H Sudarsana Rao, Vaishali G Ghorpade (2018), “Strength studies on Geopolymer Concrete produced with Recycled Coarse Aggregates and Quarry Stone Dust”, International Journal of Civil Engineering and Technology (IJCET), Vol.9, issue 11, November 2018, ISSN Print: 0976-6308, Pp 2791-2800 **(SCOPUS)**
- 111) Prof H Sudarsana Rao, Nagireddy Thirupathi Reddy, Prof Vaishali G Ghorpade(2018), “ Permeability studies on High Performance Concrete with replacement of Fine aggregate by Manufactured sand”, International Journal of Civil Engineering and Technology (IJCET), Vol.9, Issue 13, December 2018, ISSN Print: 0976-6308, Pp 543-552 **(SCOPUS)**
- 112) Nagaraja K, Sudarsana Rao, H. (2019), “Mechanical properties of ternary blended concrete made by MK-FA-GGBS and hybrid fibres - experimental & Simulation approach” International Journal of Civil Engineering and Technology (IJCET), Vol-10, Issue-01, Jan– 2019, ISSN:0976-6308 (Print); ISSN: 0976-6316 (online), pp.1835-1850. **(SCOPUS Indexed)**
- 113) Nagaraja K, Sudarsana Rao, H. (2019), “Study on strength and Durability properties of ternary blended hybrid FRC” International Journal of Civil Engineering and Technology (IJCET), Vol-10, Issue-03, March–2019, ISSN:0976-6308 (Print); ISSN: 0976-6316 (online), pp.1835-1850. **(SCOPUS Indexed)**
- 114) Nagaraja K, Sudarsana Rao, H. (2019), “An experimental investigation of ternary blended fibre reinforced concrete (MK:FA:GGBS) steel & polypropylene fibres” International Journal of Civil Engineering and Technology (IJCET), Vol-10, Issue-12, Dec-2019, ISSN:0976-6308 (Print); ISSN: 0976-6316 (online), pp.324-338. **(SCOPUS Indexed)**
- 115) Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade, K Naganna (2019), “ Permeability Studies on E-waste cement concrete with Metakaolin admixture” Journal of Advance Research in Dynamical & Control Systems, Vol-11, Issue-04, February – 2019, e-ISSN:1943-023X, pp.662-668. **(SCOPUS)**
- 116) T.Ahalya, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade,(2019), “ Strength and durability properties of geopolymer concrete using recycled aggregates and QSD under acidic environment” Journal of Advance Research in Dynamical & Control

Systems, Vol-11, Issue-04, March – 2019, e-ISSN:1943-023X, pp.669-675.
(**SCOPUS**)

- 117) L.V.Lokesh Naik, Dr.H.Sudarsana Rao, Dr.Vaishali.G.Ghorpade,(2019), “ Effect of Hydrochloric Acid on Compressive Strength of flyash based geopolymer based recycled aggregate” Journal of Advance Research in Dynamical & Control Systems, Vol-11, Issue-06, june – 2019, e-ISSN:1943-023X, pp.662-668. (**SCOPUS**)
- 118) Vallepu Vinodkumar, Vaishali G Ghorpade and Sudarsana Rao, H., (2019), "Comparative Study of Recycled Building Material Waste, Copper Slag Waste and Egg Shell Waste as a partial replacement for Sand in Cement Blocks", Journal of Adv Research in Dynamical & Control Systems, Vol.11, 10-Special issue-October, ISSN 1943-023X, pp.559-566 (**SCOPUS**)
- 119) K Anil Teja, Vaishali G Ghorpade, H Sudarsana Rao (2019), "Strength Performance of E-Waste Cement Concrete with Ground Granulated Blast Furnace Slag (GGBS)", " International Journal of Application or Innovation in Engineering and Management (IJAIEEM), Vol 8, Issue 2, February 2019,ISSN 2319-4847, Pp 31-41 (**SCOPUS**)
- 120) L Raghava Naidu, Dr H Sudarsana Rao, Dr Vaishali G Ghorpade (2019), " Seismic Analysis of RC Elevated Water Tankin Different Sesmic Zones", "International Journal of Civil Engineering and Technology (IJCIET)", Vol 10, Issue 02, February 2019, ISSN: 0976-6308 , Pp 2354-2364 (**SCOPUS**)
- 121) Uppalapati Vinay Kumar, Dr H Sudarsana Rao, Dr Vaishali G Ghorpade (2019), " Effect of Hydrachloric acid on Split Tensile Strength of Fly Ash based Geopolymer Concrete with Recycled Aggregates", Journal of Advanced Research in Dynamical & Control Systems, Vol 11,Issue 06, Pp 616-622 (**SCOPUS**)
- 122) P Sudhakar, Vaishali G Ghorpade, H Sudarsana Rao (2019), "Compressive and Tensile Strength studies on E-Waste Cement Concrete with Silica Fume", Journal of Advanced Research in Dynamical & Conrol Systems, Vol.11, Special Issue -05, 2019, Pp 1722-1730 (**SCOPUS**)
- 123) Tumpera Sivaram, Vaishali G Ghorpade, H Sudarsana Rao (2019), " Wind and Sesmic Analysis of High Rise Building with and without Steel Jacks using SAP2000", Journal of Advanced Research in Dynamical & Control Systems, Vol 11, Special Issue 05, Pp 1967-1977 (**SCOPUS**)
- 124) Mr Lingampalli Kumar Sai Kishore, Prof H Sudarsana Rao, Dr Vaishali G Ghorpade (2019) , "Pushover Analysis of a Reinforced Concrete High Rise Building with Aerated Autoclave Concrete Brick Infill and its Behavior with and without Shear

- wall", "International Journal of Advanced Science and Technology", ISSN:2005-4238, Vol.28.Issue No.16, Pp 1768-1778 **(SCOPUS)**
- 125) E Sarath, Dr Vaishali G Ghorpade, Prof. H Sudarsana Rao (2019), "Analisis of Perforated Steel Unequal Angle Members by using Abacus", "International Journal of Advanced Science and Technology", Vol 28, Issue No. 16, Pp 1620-1630 **(SCOPUS)**
 - 126) N C Nandeesh, Prof H Sudarsana Rao, Dr Vaishali G Ghorpade (2019), " Strength and workability studies of Geopolymer Concrete with Recycled Coarse Aggregate and Quarry Stone Dust", International Journal of Advanced Science and Technology, ISSN 2005-4238, Vol 28. No.13 (2019) Pp 112-118 **(SCOPUS)**
 - 127) Jagmohan Vijay Jandhyala, Sudarsana Rao, H., and Vaishali G Ghorpade, (2020), "Feasibility study on production of Geopolymer Masonry bricks with Phosphogypsum and flyash (Oven dried)", International Journal of Engineering Research and Technology, ISSN 0974-3154, Vol. 13., No. 6, pp. 1330-1343 **(SCOPUS)**
 - 128) Jagmohan Vijay Jandhyala, Sudarsana Rao, H., and Vaishali G Ghorpade, (2020), "Geopolymer Masonry bricks production using Phosphogypsum and flyash (Air dried Samples)", International Journal of Engineering Research and Technology, ISSN 0974-3154, Vol. 13., No. 12, pp. 4758-4772 **(SCOPUS)**
 - 129) Mangali Vasu, Dr Vaishali G Ghorpade and Dr H Sudarsana Rao, (2020), "Comparison of Seismic Analysis of Buildings resting on Sloping/Uneven ground using STAAD Pro and E-TABS", "International Journal of Advanced Science and Technology", Vol.29. No.03 (2020), Pp8340-8356 **(SCOPUS)**
 - 130) Chandra Harshitha, Bhaskar Sangojo, Vaishali G Ghorpade, H Sudarsana Rao, (2020), " Carbonation Induced Corrosion of RC Structures-A Review", "International Journal of Advanced Science and Technology", Vol.29.No. 03, (2020), Pp 7334-7345 **(SCOPUS)**
 - 131) Mahendrakumar Reddy, N., Vaishali G Ghorpade and Sudarsana Rao, H., (2020), "Vibration machinery and seismic resistance behaviour analysis of steel structures in different Zones ", International Journal of Advanced Science and Technology, Vol.29, No.3, ISSN 2005-4238, pp.6068-6084 **(SCOPUS)**
 - 132) Pitti Venkata Suneel, Dr. H. Sudarsana Rao, Dr. Vaishali.G.Ghorpade, (2020), "Properties of Concrete with Metakaolin and Egg Shell Powder" International Journal of Advanced Science and Technology, Vol.29, No.5, ISSN 2005-4238, pp. 4790-4797 **(SCOPUS)**

- 133) Reddeppa Nulu, Jayarami Reddy Bommireddy and Sudarsana Rao Hanchate, (2020), "ID Fan Foundation: Study of Dynamic Behaviour", Journal of The Institution of Engineers (India): Series A Civil, Architectural, Environmental and Agricultural Engineering, ISSN 2250-2149 Springer **(SCOPUS)**
- 134) Deepthi, Y., Ambily, P.S, Prabha, P., Sudarsana Rao, H. and Vaishali.G Ghorpade (2020), "Development of Geopolymer Foam mixes towards building sustainable infrastructure", International Journal of Advanced Science and Technology, Vol.29, No.4, ISSN 2005-4238, pp. 11300-309 **(SCOPUS)**
- 135) Mr Rage Ram Mohan, Prof. Vaishali G Ghorpade, Prof. H Sudarsana Rao (2021), "Experimental Investigation on the strength Properties of Concrete Incorporating GGBS, Slag Sand and Marble", "Design Engineering (Toronto)", ISSN:0011-9342, dec 2021, Issue 9, Pp 863-872 **(SCOPUS)**
- 136) Kummetha Sivakeshavareddy, Prof. Vaishali G Ghorpade, Prof. H Sudarasana Rao,(2021), " Comparative assessment of Conventional and Modern retrofitting Methods for Seismic Analysis of a Steel Diagrid Structure using SAP2000", "Design Engineering(Toronto)", ISSN: 0011-9342, Dec 2021, Issue 9, Pp 1153-1164 **(SCOPUS)**
- 137) Sachin Patil, H M Somasekharaiah, Sudarsana Rao, H and Vaishali G Ghorpade (2021), "Behaviour of flyash and metakaolin based composite fibre (glass and polypropylene) reinforced high performance concrete under acid attack", Civil Engineering and Architecture, Vol.9, No.4, ISSN 2332-1091, 2332-1121, pp. 1026-1047 DOI: 10.13189/cea.2021.090406 **(SCOPUS)**
- 138) Sachin Patil, H M Somasekharaiah, and Sudarsana Rao, H, (2021), "Chloride Penetration Resistance and Behaviour under acid attack of Metakaolin and Silica Fume based composite fibre (glass and polypropylene) reinforced high performance concrete", International Journal of Engineering Trends and Technology, Vol.69, No.4, ISSN:2231-5381, pp. 146-161, DOI: 10.14445/22315381/IJETT-V69I4P222 **(SCOPUS)**
- 139) Sachin Patil, H M Somasekharaiah, and Sudarsana Rao, H AND Vaishali G Ghorpade, (2021), "Effect of Flyash, Silica Fume, Glass Fibre and Polypropylene Fibre on strength properties of composite fibre reinforced high performance concrete", International Journal of Engineering Trends and Technology, Vol.69, No.5, ISSN:2231-5381, pp. 69-84, DOI: 10.14445/22315381/IJETT-V69I5P212 **(SCOPUS)**

- 140) Sachin Patil, H M Somasekharaiah, and Sudarsana Rao, H, (2021), "Evaluation of strength properties of Flyash and Metakaolin based composite fibre (glass and polypropylene) reinforced high performance concrete", International Journal of Engineering Trends and Technology, Vol.69, No.4, ISSN:2231-5381, pp. 188-203, DOI: 10.14445/22315381/IJETT-V69I4P227 (**SCOPUS**)
- 141) Ushasree Jagaragallu, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Studies on sugar cane bagasse ash based geopolymer concrete", Journal of Chengdu University of Technology, Vol.26, No.8, ISSN:1671-9727, pp., (**SCOPUS**)
- 142) Ushasree Jagaragallu, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Strength characteristics of geopolymer concrete incorporating biomass ashes", GIS Science Journal, Vol.8, No.9, ISSN:1869-9391, pp., 621-634 (**SCOPUS**)
- 143) Ushasree Jagaragallu, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Strength and durability characteristics of geopolymer concrete with ground nut shell ash", GIS Science Journal, Vol.8, No.10, ISSN:1869-9391, pp., 40-49 (**SCOPUS**)
- 144) Pujari Yabbattam Janardhan, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Comparative analysis of concrete mechanical properties with slag sand and marble waste aggregate incorporating Metakaolin", GIS Science Journal, Vol.8, No.9, ISSN:1869-9391, pp. 486-495, (**SCOPUS**)
- 145) Gaddagola Surekha, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Strength Properties of concrete with rice husk ash, slag sand and marble waste aggregate", Design Engineering, Vol., No.9, ISSN:0011-9342, pp. 854-862, (**SCOPUS**)
- 146) Mallapu Kalyaneswar Reddy, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Seismic analysis of coupled shear wall in Multi-storey buildings with different rebars using SAP2000", Design Engineering, Vol., No.9, ISSN:0011-9342, pp. 16021-34, (**SCOPUS**)
- 147) Ponnapati Shivani Reddy, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), "Analysis and design of steam turbo generator foundation using STAAD-PRO", Design Engineering, Vol., No.9, ISSN:0011-9342, pp. 12304-322, (**SCOPUS**)
- 148) Tanguturi Deekshitha, Sudarsana Rao, H., Vaishali G Ghorpade (2021), "Performance of multi storied building with curved shear walls", Design Engineering, Vol., No.9, ISSN:0011-9342, pp. 18001-10 (**SCOPUS**)
- 149) Saleem Parvez P, Sudarsana Rao, H., Vaishali G Ghorpade (2021), "Impact on strength properties of concrete using marble waste aggregate and slag sand incorporating silica fume", Design Engineering, Vol., No.9, ISSN:0011-9342, pp. 18011-18019 (**SCOPUS**)

- 150) Shaik Basheer, Sudarsana Rao, H., Vaishali G Ghorpade (2022), “Studies on low calcium flyas-GGBS based Geopolymer concrete with slag Sand”, Design Engineering, Vol., No.1, ISSN:0011-9342, pp. 2242-47 (**SCOPUS**)
- 151) Mahammad Yusuf M, Sudarsana Rao, H., Vaishali G Ghorpade (2022), “Comparative Analysis of a reinforced framed structure under performance based analysis considering post tensioned members at the edges using ETABS as a tool”, Journal of North Eastern University, Vol.25, No.4, ISSN: 1005-3026, pp. 4062-4083 (**SCOPUS**)
- 152) Rupasree Alavalapati, Sudarsana Rao, H., Vaishali G Ghorpade (2022), “Importance of Aspect ratio in the analysis and design of a 15 storied building using ETABS considering seismic zones”, Journal of North Eastern University, Vol.25, No.4, ISSN: 1005-3026, pp. 2673-2693 (**SCOPUS**)
- 153) Md Abrar Hussian, Dr Vaishali G Ghorpade Dr H Sudarsana Rao (2022), “ Utilization of used engine oil in Concrete as an Admixture”, Journal of Northeastern University, Vol 25 Issue 04,2022, ISSN: 1005-3026, Pp4044-4060 (**SCOPUS**)
- 154) Bille Pradeep Kumar, Dr Vaishali G Ghorpade, Dr H Sudarsana Rao (2022), “An Experimental Study on Strength Properties of Tabby Concrete with Sea Shell Coarse Aggeragte”,” Journal of Northeastern University”, ISSN: 1005-3026, Volume 25,Issue 04, 2022, pp 1933-1950 (**SCOPUS**)
- 155) Udamala Anand, Prof. Vaishali G Ghorpade, Prof H Sudarsana Rao (2022), “Comparative Analysis of the Strength Properties of Concrete with Slag Sand and Bethamcherla Stones with Silicafume as partial Cement Replacement”, “Design Engineering(Toronto),” ISSN: 0011-9342, year 2021, Issue 9, Pp 15979-15985 (**SCOPUS**)
- 156) Thaheer Ahmed, Dr Vaishali G Ghorpade, Dr Sudarsana Rao (2022), “ Blast Resistant Analysis and Its Impact on Buildings using ETABS”, “Design Engineering (Toronto)”, ISSN: 0011-9342 Issue 1, PP 1949-1970 (**SCOPUS**)
- 157) Marna Ananath Kumar, Prof Vaishali G Ghorpade, Prof H Sudarsana Rao(2022),”Comparative Assessment of Concrete filled steel tube (CFST) Columns using ABAQUS”, Design Engineering Journal (Toronto),” Issue 9 Pp 17991-18000; ISSN: 0011-9342 (**SCOPUS**)
- 158) Mr Sayeed Basha, Prof Vaishali G Ghorpade, Prof H Sudarsana Rao(2022),” Strength Characteristics of Fly Sah Blended Concrete with Slag Sand and Marble Waste Aggregate”, Design Engineering (Toronto),” ISSN: 0011-9342/Year 2021: Issue 9;Pp 17807-17818 (**SCOPUS**)

- 159) Sake Krishna Sai, Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Comparative Analysis of behavior of horizontal and vertical irregular buildings with and without using shear walls by ETABS software”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 1; Pp 1-24(**SCOPUS**)
- 160) Sunnapuralla Ravi Teja, Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Analysis of fragility curves of RC flat slab buildings with and without infill effect using push over method”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 1; Pp 53-69 (**SCOPUS**)
- 161) Ranjith Kumar, T., Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Strength characteristics of concrete containing dolomite powder and slag sand”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 1; Pp 38-52 (**SCOPUS**)
- 162) Rajeswaramma Maradi, Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Comparative analytical study of seismic response and cost of multi-storey (G+12) RCC, Steel & Steel-Concrete composite building”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 1; Pp 170-181 (**SCOPUS**)
- 163) Ganjikunta Sreelatha, Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Seismic Time-History analysis and designing of multi-storey building with floating column and normal columns in earthquake zone area by SAP software”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 2; Pp 58-69 (**SCOPUS**)
- 164) Dinesh Kumar, M., Prof H Sudarsana Rao and Prof Vaishali G Ghorpade (2023),” Experimental studies on high strength concrete containing slag sand with partial replacement of cement by metakaolin”, Multidisciplinary Journal of Educational Research, E-ISSN: 2014-2862; Hipatia Press; <https://hipatiapress.org/>; Volume 13 Issue 2; Pp 140-148 (**SCOPUS**)
- 165) Kattubadi Malini, Dr H Sudarsana Rao and DrVaishali G Ghorpade (2023),” Durability studies on high strength concrete incorporating Pumice powder and slag sand”, Journal of Harbin Engineering University, ISSN: 1006-7043; Hipatia Press; <https://harbinengineeringjournal.com/>; <https://www.scopus.com/sourceid/29706> Volume 44 Issue 9; Pp 1-9 (**SCOPUS**)

- 166) Sai Dinesh M., Dr H Sudarsana Rao and DrVaishali G Ghorpade (2023),” Experimental investigation on strength properties of concrete blended with Dolomite dust powder with slag sand and recycled aggregates”, Journal of Harbin Engineering University, ISSN: 1006-7043; Hipatia Press; <https://harbinengineeringjournal.com/>; <https://www.scopus.com/sourceid/29706> Volume 44 Issue 10; Pp 165-174 (SCOPUS)
- 167) Araveeti Bhagyasree, Dr Vaishali G Ghorpade and Dr H Sudarsana Rao (2023),” Strength and workability studies on slag sand concrete blended with flyash and glass powder”, Journal of Harbin Engineering University, ISSN: 1006-7043; Hipatia Press; <https://harbinengineeringjournal.com/>; <https://www.scopus.com/sourceid/29706> Volume 44 Issue 10; Pp 447-455 (SCOPUS)
- 168)
- 169) Mukherjee, A. and Rao, H.S. (1993), *Characterization of interface in Ceramic-Matrix-Composites*, 38th Congress of ISTAM Journal, IIT, Kharagpur, December 10-12.
- 170) Mukherjee, A., Rao, H.S. and Deshpande, J.M. (1995), *Modeling the toughening behaviour of Ceramic-Matrix-Composites using artificial neural networks*, Proc. NC-CEMS, Osmania University, Hyderabad, Jan. 1995, pp 409-415.
- 171) Rao, H.S., Deshpande, J.M. and Mukherjee, A. (1996), *Artificial Neural Networks in development of design guidelines for toughened ceramic-matrix-composites*, Proc. 5th NASAS, I.I.T., Mumbai, Jan. 1996, pp 157-166.
- 172) Rao, H.S. and Mukherjee, A. (1996), *Interface elements for modelling the crack propagation*, Proc. NC-CASAD 96, Engineering Staff College of India, Hyderabad, Jan 96, pp 430-438.
- 173) Rao, H.S. and Sharief, M.F. (1987), *Studies on fibre reinforced concrete mix design*, Proc. National Conference, J.N.T.U. Anantapur
- 174) Rao, H.S. and Mukherjee, A. (1995), *CERMCAN- A users manual to the software for the analysis of ceramic-matrix-composites*, Internal circulation, I.I.T., Mumbai.
- 175) Rao, H.S. and Mukherjee, A. (1996), *A finite element programming technique for capturing the progressive de-bonding failure at the interface of brittle-matrix-composites*, Proc. 6th NASAS, NAL, Bangalore, Nov. 6-9.
- 176) Rao, H.S., Desai, V.B. and Mukherjee, A. (1996), *Artificial Neural Networks- As a new computer paradigm in Structural Engineering*, National Conference on new paradigms in civil engineering practices, Anjuman Engineering College, Bhatkal, Dec. 1-2.

- 177) Rao, H.S. and Desai, V.B. (1997), *Flexural behaviour of fly-ash ferro-cement roofing joists*, Proc. of the International Conference on the Maintenance and Durability of Concrete structures, BICARD, J.N.T.U., Hyderabad, March 4-6.
- 178) Desai, V.B. and Rao, H.S. (1997), *Effect of Ferro-Cement confinement on the compressive strength characteristics of concrete*, Proc. of the International Conference on the Maintenance and Durability of Concrete structures, BICARD, J.N.T.U., Hyderabad, March 4-6.
- 179) Rao, H.S. (1996), *Fracture of Fibre reinforced Composites- Crack bridging, fibre slipping and debonding*, Expert Lecture Notes, Q.I.P. Course on Fracture Mechanics in Plastic Reinforced Concrete, I.I.Sc., Bangalore, Sep. 9-14.
- 180) Sharief, M.F. and Rao, H.S. (1991), *Steel Fibre Reinforced Concrete Mix design*, Seminar on fibre reinforced concrete and its applications, Information Centre for Fibre Reinforced Composites, Madras, 19-21 Sept. 1991, pp 2.1-2.15.
- 181) Sudarsana Rao, H. (1997), *An Artificial Neural Network Based Solution For The Mix Design of Fibre Reinforced Concrete*, Proceedings, Asia-Pacific Speciality Conference on Fibre Reinforced Concrete, Hotel New Otani, Singapore, 28-29 August, 1997.
- 182) Sudarsana Rao, H. (1997), *Effect of Superplasticizer on the Properties of Cement Concrete - A case Study of PLASTICON*, Proceedings, National Seminar on Role of Building Chemicals in Construction Industry, Indian Concrete Institute (U.P. Centre), Allahabad, 18-19 July, 1997.
- 183) Rao, H.S. and Desai, V.B. (1997), *Ferro cement Confinement As rehabilitation Measure of Concrete Columns*, Proceedings of the National Conference on Cost Effective Materials and Techniques for Mass Housing, J.N.T.U. College of Engg., Anantapur, India, 28-29 June, 1997.
- 184) Rao, H.S. and Desai, V.B. (1997), *Development Of Water-Cement Ratio Law for Slag Aggregate Concrete - A Neural Network Approach*, Proceedings of the National Conference on Cost Effective Materials and Techniques for Mass Housing, J.N.T.U. College of Engg., Anantapur, India, 28-29 June, 1997.
- 185) Rao, H.S. and Desai, V.B. (1997), *Utility of Blast Furnace Slag As Coarse Aggregate In Concrete Making- An Experimental Feasibility Study* Proceedings of the National Conference on Advances in Materials of Construction and Construction Methods, S.V.U. College of Engineering, Tirupathi, India, 22-23 August, 1997.
- 186) Sudarsana Rao, H., (1997), *An Experimental Study On The Strength And Workability Properties Of Light Weight Fly-Ash Concrete* Proceedings of the National Conference

on Advances in Materials of Construction and Construction Methods, S.V.U. College of Engineering, Tirupathi, India, 22-23 August, 1997.

- 187) Sudarsana Rao, H. (1998), *An Experimental Study on The Strength and Workability Properties of Light Weight Fly ash Fibre Reinforced Concrete*, Proc. of the National Seminar on Advances in special concretes, I.C.I. (Karnataka Centre), Jan. 23-24, 1998, Bangalore, India.
- 188) Sudarsana Rao, H. and Venkateswarlu, C. (1998), *Neural Network Based Mix Design Model for Fibre Reinforced Concrete*, Proc. National Seminar on High Performance Concretes, International Centre For Fibre Reinforced Concrete Composites, 21-22 May, 1998.
- 189) Sudarsana Rao, H. and Venkateswarlu, C. (1998), *PLASTICON - As a super Plasticizing Admixture For Cement Concrete*, Proc. National Workshop on Advances in Cement, Slag and Pozzolanic materials in India, S.V.U. College of Engineering, Tirupathi, 27th June, 1998.
- 190) Sudarsana Rao, H. (1998), *A Neural network Based Macro-mechanical Model for Slag Aggregate Concrete*, Proc. National Workshop on Advances in Cement, Slag and Pozzolanic materials in India, S.V.U. College of Engineering, Tirupathi, 27th June, 1998.
- 191) Sudarsana Rao, H., Ranga Janardhan, G., Kotaiah, R. and Dhananjaya Rao, P. (1998), *Development of an Artificial Neural Network Model for predicting the Properties of Aluminum alloy Castings*, Proc. Of National Seminar on software development in Mechanical Engineering, MECHSOFT'98, Dayananda Sagar College of Engineering, Bangalore, 30-31, December.
- 192) Sudarsana Rao, H., Murthy Rao, K.V. and Vivekananda, P (1999) "*Artificial Neural Network approach for developing unit hydrographs for watersheds of Anantapur district*" Proc. Of National Workshop on Integrated Rural Development – Participatory approach D.P.A.P., Anantapur 30-31 Jan 1999.
- 193) S.Rao Hanchate, V. Murthy Rao Khokaly, (1999), *water quality maintenance in the Municipal water supply schemes of Anantapur town (A.P)*, Proc, National seminar on Operation and maintenance of water supply schemes, Dec 1999, held by Indian to water works association Amravathi (M.S).
- 194) S.Rao Hanchate, V. Murthy Rao Khokaly, (1999), *Failure of water supply pipe lines due to development of roots of plants in pipes – A Case study*, Proc, National seminar on Operation and maintenance of water supply schemes, Dec 1999, held by Indian to water works association Amravathi (M.S).

- 195) Sudarsana Rao H., V. Murthy Rao Khokaly., Narasimhulu.G, Ramesh Babu B., (1999), *Development of defluoridation techniques using natural coagulants*, Proc, *National seminar on Operation and maintenance of water supply schemes*, Dec 1999, held by Indian Water works Association, Amravathi (M.S).
- 196) Rao H.S., Murthy Rao K.V., (2001), *Artificial neural net work approach for developing unit hydrographs for watersheds in Anantapur district A.P.*, 20-22 Feb 2001, Proc., International conference on Sustainable development of water in 21st century, Singapore, held by Central Board of irrigation and power- New Delhi.
- 197) Rao H.S., Murthy Rao K.V., (2001), *Multiple regression analysis for ground water quality parameters in the water sheds of Anantapur district A.P.* 20-22 Feb 2001, Proc., International conference on Sustainable development of water in 21st century, Singapore, held by Central Board of irrigation and power- New Delhi.
- 198) Rao H.S. and Yesuratnam G., (2000), *Studies on Light weight and Fibrous Light weight Concrete*, Proc. ICI National Conference, Thapar Institute of Engg. &Technology, 21-22 September, 2000, Patiala
- 199) Rao H.S., Vaishali G., Sashidhar C. and Reddy T.R. (2001), *Computer Implementation of Quantity Division Method for Construction management*, Proc. Of National Symposium on Impact of Computers in Civil & Structural Engineering, Civil Engg. Dept., Karunya Institute of Technology, Coimbatore, 24-25 August.
- 200) Rao H.S., Vaishali G., Sashidhar C. and Reddy T.R. (2001), *Modelling Characteristics of Slag Aggregate Concrete- Neural Network Approach*, Proc. Of National Symposium on Impact of Computers in Civil & Structural Engineering, Civil Engg. Dept., Karunya Institute of Technology, Coimbatore, 24-25 August.
- 201) Rao H.S., Vaishali G., Mukherjee A. and Reddy T.R. (2001), *A 2-D Finite Element Program for Analysis of Brittle Matrix Composites*, Proc. Of National Symposium on Impact of Computers in Civil & Structural Engineering, Civil Engg. Dept., Karunya Institute of Technology, Coimbatore, 24-25 August.
- 202) H.Sudarsana Rao and V.Venkateswara Reddy, (2001) *"Effects of Chlorides in Water in Water on Strength and Setting Properties of Cement,"* proceedings of International Congress of Chemistry and Environment, organized by Research Journal of Chemistry and Environment, Indore, India, December 16-18, 2001, A-101, pp. 36.
- 203) Rao H.S., Venketeswara Reddy V. and Jayaveera K.N., (2002), *Studies of Strong Alkaline Substances present in water on Strength and Setting Properties of SIFCON*, National Seminar on Environmental Awareness, Education & Management for

Sustainable Rural Development, Dept. Of Environmental Sciences, SVU, Tirupati, 26-28 August 2002.

- 204) Venkateswara Reddy, V., Sudarsana Rao, H., and Jayaveera, K.N. (2003) "*Effects of Slightly Alkaline Substances present in water on Strength & Setting properties of SIFCON*", Proceedings of National Conference on Recent Trends in Concrete Construction" CBIT Hyderabad, India, January, 22-24, pp. 185 – 188.
- 205) Venkateswara Reddy, V., Sudarsana Rao, H., Jayaveera, K.N. and Aruna Kanthi, E. (2003) "*Effects of Neutral Salts present in water on Strength & Setting Properties of SIFCON*", Proceedings of Inter National Conference on "Recent trends in Concrete Technology & Structures" organised by KCT Coimbatore, India, 10-12 December, pp. 40-
- 206) Venkateswara Reddy, V., Vaishali. G. Ghorpade and Sudarsana Rao, H. (2003) "*Study of Slurry Infiltrated Fibrous Concrete in Acidic Environment*", Proceedings of National Conference on Recent Advancements in Civil Engineering, Department of Civil Engineering, Kakatiya Institute of Technology & Science, Warangal, India, 29-30 December, pp. I-30 - 34
- 207) Vaishali. G. Ghorpade, Venkateswara Reddy, V. and Sudarsana Rao, H. (2003) "*High Performance Concretes – A state of art critical Review* ", Proceedings of National Conference on Recent Advancements in Civil Engineering, Department of Civil Engineering, Kakatiya Institute of Technology & Science, Warangal, India, 29-30 December, pp. I-57 - 63 .
- 208) Sudarsana Rao, H., Venkateswara Reddy, V. and Vaishali. G. Ghorpade (2004) "*Effects of Acidity present in water on Strength & Setting properties of concrete*", Proc.of the 29th conference on "OUR WORLD IN CONCRETE AND STRUCTURES" organised by CI PREMIER, Singapore, August, 23-27.
- 209) Venkateswara Reddy, V., Sudarsana Rao, H. and Jayaveera, K.N. (2004) "*Effects of Alkalinity present in water on Strength & Setting properties of fly ash concrete*", Proc.of the 29th conference on "OUR WORLD IN CONCRETE AND STRUCTURES" organised by CI PREMIER, Singapore, August, 23-27.
- 210) Jayaveera, K.N., Venkateswara Reddy, V. and Sudarsana Rao, H. (2004) "*Study of fly ash concrete in salty environment*", Proc. Of the 29th conference on "OUR WORLD IN CONCRETE AND STRUCTURES", organised by CI PREMIER, Singapore, August, 23-27.
- 211) Sudarsana Rao, H., C. Sashidhar and Vaishali, G. (2001) "*Studies on the strength and workability properties of condensed Silica fume concrete*. Proc.Of the National

- workshop on Advances in Structural Engineering, S.V.U. College of Engineering, Tirupathi, India, 21-22 December, pp. 144-149
- 212) Sudarsana Rao, H., C. Sashidhar and Vaishali, G. (2001) “*Effect of Super Plasticizer on the Durability of High Strength Concrete*”. Proc.Of the National workshop on Advances in Structural Engineering, S.V.U. College of Engineering, Tirupathi, India, 21-22 December, pp. 137-143
 - 213) Sashidhar, C., Sudarsana Rao, H. and Ramana, N.V. “*Strength properties of Metakaloin Concrete*” Proceedings of National Conference on Materials and Structures, NIT, Warangal, India.
 - 214) Sashidhar, C., Sudarsana Rao, H. and Ramana, N.V. (2004) “*Strength properties of Fibre reinforced concrete with Metakaolin*” Proceedings of ICFRC International Conference on Fibre composites, High performance concretes and Smart materials, Chennai, India, 8-10 January, vol.1, pp. 247-256
 - 215) Sashidhar, C., Sudarsana Rao, H., Ramana, N.V. and Vaishali, G. Ghorpade, (2004) “*Studies on Strength Properties of Slurry Infiltrated Fibrous Concrete (SIFCON)*” Proc. Of National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Anantapur, India, 9th Sept. pp. 155-162
 - 216) Venkateswara Reddy, V., Sudarsana Rao, H. and Jayaveera, K.N. (2004) “*Effects of Alkalinity present in water on strength and setting properties of Fly ash concrete*” Procs. Of the National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Anantapur, India. 9th Sept., pp. 163-170
 - 217) Ramesh Babu, B., Vaishali. G. Ghorpade and Sudarsana Rao, H. (2004) “*A Neural Network Model for Design of RCC slabs*” Procs. Of the National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Anantapur, India, 9th Sept. pp. 255-264
 - 218) Sashidhar, C., Sudarsana Rao, H., Ramana, N.V. and Vaishali.G. Ghorpade (2004) “*Experimental Investigation of the Behaviour of Metakaolin Concrete*”, Procs. Of the National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Anantapur, India, 9th Sept. pp. 326-333
 - 219) Jayarami Reddy, B., Sudarsana Rao, H. and Vaishali. G. Ghorpade (2004) “*Elastic Moduli of Brittle Matrix Composites with Interfacial Debonding*” National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Anantapur, India, 9th Sept.
 - 220) Rao, H.S., Sashidhar, C. and Vaishali.G.Ghorpade(2005) “*Studies on SIFCON subjected to Elevated Temperature*” Procs. Of International conference on Recent

advances in concrete technology conducted by SRM College of Engineering, Chennai.

- 221) .Rao, H.S., Sashidhar, C. and Vaishali.G.Ghorpade (2006) “*Development of regression model for compressive strength of slurry infiltrated fibrous concrete (SIFCON)*” Procs. Of National conference on ‘Recent advances in structural engineering’ at J.N.T.U.College of Engineering, Kakinada, India, 11-12, Feb. pp.272-276
- 222) Rao, H.S., Ramesh Babu.B and Vaishali.G.Ghorpade (2006) “ *A genetic algorithm based hybrid neural network based approach for the design of beam under flexure*”, Procs. Of National conference on Recent advances in structural engineering at J.N.T.U.College of Engineering, Kakinada, India, 11-12, Feb.
- 223) Rao, H.S., Sashidhar, C. Ramesh Babu and Ramana .N.V (2006) “ *Effect of Metakaolin on mechanical properties of High-Strength concrete*” of National conference on Concrete Technology for the future at Kongu Engineering college, Erode, 21st and 22nd April.
- 224) Reddy Babu, G., Sudarsana Rao, H. and Ramana Reddy, I.V. (2006), “*Feasibility of Contaminated Water with Metals(Mercury compounds) for Cement Mixing*” Procs.of National conference “Environmental Effects on Civil Engineering Structures”, 14-15 July 2006, Dept of Civil Engineering, S.V.U.College of Engineering, S.V.University , Tirupati, Andhra Pradesh.
- 225) Sudarsana Rao, H. (2007), “Flexural behaviour of Slurry Infiltrated Fibrous Concrete restrained two way slabs”, Procs. Of International Conference on Recent Advances in Concrete Technology, 19-21, Sep., 2007, Washington D.C., USA
- 226) Rajani, A., Vaishali.G. and Sudarsana Rao, H. (2007), “ Resistance of silica fume based HPC to acid attack- an experimental investigation”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 91-95
- 227) Lakshmi, D.P.A., Sashidhar, Vaishali.G. and Sudarsana Rao, H. (2007), “Behaviour of HPC at elevated temperatures”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 96-99
- 228) Sudarsana Rao, H. and Ramanujam, I.V.R., (2007), “Analysis of criteria & methods of seismic repair and retrofitting of RCC structures”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 117-123

- 229) Sudarsana Rao, H., Ramesh Babu.B and Vaishali.G.Ghorpade (2007), “Hybrid neural network model for the design of beam subjected to point load at mid span”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 124-132
- 230) Sashidhar, C., Sudarsana Rao, H., Ramana, N.V.and Vaishali.G. (2007), “Flexural strength characteristics of SIFCON using metakaolin admixture”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 204-209
- 231) Parameswari, C., Sudarsana Rao, H., and Vaishali.G. (2007), “Application of Genetic algorithms based neural network macro mechanical model for high-performance metakaolin concrete”, Procs. Of National Conference on Recent Advances in Structural Engineering, 9th March, JNTU, Anantapur, India pp. 139-143
- 232) Ram Mohan Rao, P. and Sudarsana Rao, H. (2008), “Properties of glass fibre reinforced fly ash concrete”, Procs. Of National Conference on Recent Advances in Structural Engineering, 4th April, JNTU, Anantapur, India pp. 43-48
- 233) Sudarsana Rao, H., Reddy Babu, G. And Ramana Reddy, I.V., (2008), “Use of treated electroplating industry waste water as mixing water in cement works”, Procs. Of National Conference on Recent Advances in Structural Engineering, 4th April, JNTU, Anantapur, India pp. 281-286
- 234) Vaishali.G.Ghorpade, Ravindra, V., and Sudarsana Rao, H., (2008), “Chloride ion permeability of silica fume based high performance concrete”, Procs. Of National Conference on Recent Advances in Structural Engineering, 4th April, JNTU, Anantapur, India pp. 302-312
- 235) Sudarsana Rao, H., Sashidhar, C., Ganeswar, K. And Ramana, N.V., (2008), “Flexural behaviour of simply supported steel reinforced SIFCON slabs- an experimental investigation”, Procs. Of National Conference on Recent Advances in Structural Engineering, 4th April, JNTU, Anantapur, India pp. 313-320
- 236) Sudarsana Rao, H., Sashidhar, C., Ganeswar, K. And Ramana, N.V., (2008), “Behaviour of slurry infiltrated fibrous concrete with metakaolin”, Procs. Of 7th International Symposium (RILEM) on Fibre reinforced concrete, 17-19th Sept., Chennai, India pp. 587-593
- 237) Sudarsana Rao, H., Sashidhar, C., Vaishali.G., and Ramana, N.V., (2008), “Strength characteristics of high-performance-concrete using poly propylene fibers”, Procs. Of International Conference on Advanced in Concrete and Construction, 7-9th Feb., Hyderabad, India pp. 47-55

- 238) Rama Mohan Rao, P. and Sudarsana Rao, H., (2009), “Effect of Glass fibre on mechanical properties of Green Concrete”, Procs. Of ICAMB 2009, December 14-16, VIT, Vellore, India pp. 1821 to 1824
- 239) Rama Mohan Rao, P. and Sudarsana Rao, H., (2012), “Effect of aggregate-binder ratio on the strength properties of class C flyash Concrete”, Procs. Of ICAMB 2012, Jan. 9-11, VIT, Vellore, India pp. 1082 to 1086
- 240) Sudarsana Rao, H. and Vaishali. G. Ghorpade., (2012), “Durability studies on glass fibre reinforced high-performance-concrete with flyash admixture”, Procs. of 3rd International Conference on Concrete repair, rehabilitation and retrofitting, 3-5, Sept., Cape Town, SA
- 241) Sudarsana Rao, H., Vaishali. G. Ghorpade, and Beulah, M. (2016), “*Development of artificial neural network model for permeability of high-performance-concrete*”, Procs. Of 4th International Conference on “Advances in Civil, Structural and Mechanical Engineering ACSM-2016”, Bangkok, Thailand, 7-8 May, 2016 organized by IRED, Newyork
- 242) Sudarsana Rao, H., Vaishali. G. Ghorpade, and Ramesh M. (2016), “*Isolation molecular characterization and self healing capability of some native isolates of bacillus*”, Procs. Of International Conference on “Advances in computing logic, Technology & Sciences, INC-ALTS-16”, Anantapur, 11 March, 2016 organized by ALTS Anantapur & Institution of Engineering Research, Salem.
- 243) Savithri S Karanth, Vaishali.G. Ghorpade, Sudarsana Rao, H., (2017), “*Effect of fire on Waste Plastic Fibre Reinforced Concrete*” Procs.Of International **Conference on Global Civil Engineering challenges in sustainable development and climate change** (ICGCSE-2017), 17th to 18th March 2017 organised by Mangalore Institute of Technology, Mudabidri, pp. 189-194 (Best Paper Award).
- 244) Savithri S Karanth, Vaishali.G. Ghorpade, Sudarsana Rao, H., (2017), “*Durability studies on Waste Plastic Fibre Reinforced Concrete subjected to sulphate attack*” Procs.Of 7th International Conference on Advances in Science, Engineering and Technology (ICACET-2017), 24th March 2017 organised by Rajiv Gandhi Institute of Technology, Bangalore (Best Paper Award).
- 245) Savithri S Karanth, Vaishali. G. Ghorpade, Sudarsana Rao. H, (2017), “*Strength Properties Of Waste Plastic Fibre Reinforced Concrete*” Procs.Of International Conference on Composite Materials and Structures (ICCMS-2017), Hyderabad 27th to 29th December 2017 organised by IIT, Hyderabad.

- 246) Sachin Patil, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), **“Behaviour of Fly Ash and Silica Fume based Composite Fiber (Glass and Polypropylene) reinforced High-Performance Concrete under Acid Attack”**IOP Conf. Series: Earth and Environmental Science **822** (2021) 012030. PP 1-9. doi:10.1088/1755-1315/822/1/012030. International Conference on Contemporary and Sustainable Infrastructure (ICCSI 2021) Organized at SJB Institute of Technology, Bengaluru, India from 21st to 22nd May 2021.
- 247) Sachin Patil, Sudarsana Rao, H and Vaishali G Ghorpade, (2021), **“Durability and micro-structure studies on fly ash and silica fume based composite fiber reinforced high-performance concrete”**Materials Today: Proceedings, Volume 49, Part 5, 2022. pp 1511-1520 doi:<https://doi.org/10.1016/j.matpr.2021.07.247>. Recent Advances in Sustainable Materials (GC-RASM 2021) at A.J. Institute of Engineering & Technology, Mangalore, India from 29th to 30th, July 2021
- 248) Sachin Patil, Sudarsana Rao, H and Vaishali G Ghorpade, (2022), **“The influence of metakaolin, silica fume, glass fiber, and polypropylene fiber on the strength characteristics of high performance concrete”** Materials Today: Proceedings, 2022. doi: <https://doi.org/10.1016/j.matpr.2022.11.051>. Recent Advances in Sustainable Materials (GC-RASM 2022) at A.J. Institute of Engineering & Technology, Mangalore, India from 28th to 29th, July 2022.
- 249) Bhagya Lakshmi, Chandana and Sudarsana Rao, H., (2022), **“Self cleaning Effect of composite cement mortar in indoor and outdoor environment”**, Second International Conference on Construction Materials and Structures (ICCMS-2022), NIT Calicut, 13-19 December, 2022