

DEPARTMENT OF CIVIL ENGINEERING

INTRODUCTION

Department of Civil Engineering was established in the year 2008. It conducts B.Tech programme in Civil Engineering and M.Tech Programme in Structural Engineering . The Department has well-equipped laboratories.

In addition to quality teaching, students are exposed to certification courses and workshops along with personality development programmes. The gradual increase in the number of participants for various programmes and the growing number of placements reflects the impact of these programmes.

The department is strengthened with a total of 35 faculty members out of which five are Doctorates and five are pursuing PhDs.

Doctorates in the Department of Civil Engineering

S.No	Name of the Faculty	Degree Awarded	No. of Publications(journals/conferences)
1	Dr.Mohd. Hussain	2002	26
2	Dr. N Sanjeev	2003	14
3	Dr. G.V.K.S.V. Prasad	2008	09
4	Dr. V Srinivasa Reddy	2015	56
5	Dr.C.Lavanya	2015	09

Resource Mobilization for Research (TEQIP-II)

S.No	Name of the Faculty	Title	Name of the Funding Agency	Amount	Year
1	Dr.Mohd. Hussain	Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS) – 2015: Three day National Workshop-December 28- 30,2015	TEQIP-II	Rs 8,5000	2015

FACULTY AND THEIR PUBLICATIONS:

Dr. Mohammed Hussain, Professor & HOD

Qualifications: **Ph.D** (Water Resources Engineering) (JNTUH- Hyderabad, 2002)
M.E (Hydromechanics and Water Management) (Osmania University, 1992)
PG Diploma in Design and Construction of Concrete Structures(Annamalai University,2006)
Master of Human Resource Management (Pondicherry University,2004)
B.Tech (Civil Engineering) (National Institute of Technology,Warangal, 1983).

Experience: 29 years

Research Interest: Water Resources Engineering, Irrigation Engineering and Management, Groundwater and Surfacewater Conjunctive Use Management, Hydrometry, Rainwater Harvesting, Capacity building of water managers and water users in the area of Irrigation Management, Participatory Irrigation Management (PIM),Concrete Bridge Engineering, Concrete structures - particularly - Buildings and Hydraulic Structures.



Journal Publications/ Conference Proceedings: 26

Journal publications (year wise descending order)

National publications:

1. S.Bahauddin and Mohd.Hussain (1995), “Optimal surface irrigation under conditions of limited water supply – A case study in Sriram Sagar Project”, Journal of Indian Water Resources Society, Vol. 1, No. 2, PP.25-29,ISSN 0970 -6984.

Conference Proceedings (year wise descending order)

International Conferences:

1. Dr.Mohammed Hussain(2014),“Planning and Implementation of operation plans of Irrigation projects to increase water use efficiency: A case study in India”,Paper presented in the International conference on “ Modeling Tools for Sustainable Water Resource Management”, organized by the Department of Civil Engineering , Indian Institute of Technology(IIT),Hyderabad from 26-29 December,2014
2. Dr.Mohammed Hussain(2014), “Capacity Building of water resource managers and users by developing **S.E.L.F. Renewal Quotient** in Participatory Irrigation Management”,Paper presented in the International conference on “HYDROLOGY AND WATERSHED MANAGEMENT”,organized by Centre for Water Resources of Institute of Science and Technology(IST) of JNTUH from 29 October to I November 2014.
3. Dr.Mohammed Hussain(2014) as Coauthor,“Optimal wastewater reuse planning for irrigation and studies on the quality of soil and water:A case study in Musi River corridor near Hyderabad”, Paper presented as coauthor in the International conference on “HYDROLOGY AND WATERSHED MANAGEMENT”,organized by Centre for Water Resources of Institute of Science and Technology(IST) of JNTUH from 29 October to I November 2014.
4. Dr.Mohammed Hussain (2013),“Sustainable Practices of Engineering Management in Irrigation Projects to increase water use efficiency :A case study in India”, Paper submitted in the

International Conference INDIA WATER WEEK 2013 by Ministry of Water Resources , Government of India from 8-12 April,2013 at Vigyan Bhavan, NewDelhi

5. Dr.Mohammed Hussain(2013), “Capacity building of water resource managers and users by developing D.E.E.P.-A.C.C.E.S.S. implementation Quotient of daily life skills for sustainable participatory irrigation management “,Paper submitted in the International Conference INDIA WATER WEEK 2013 by Ministry of Water Resources , Government of India from 8-12 April,2013 at Vigyan Bhavan,NewDelhi

6. Dr.Mohammed Hussain(2010), “Universal B.E.S.T. Intuitive Leadership Wisdom model of “Mindfulness attention”- Paper presented in the “International Conference on Hydrology and Watershed Management”,February,3-6,2010 by Jawaharlal Nehru Technological University,Hyderabad

7. Dr.Mohammed Hussain (2010),“Basic tools for integrated water resources management for sustainable crop production : Case studies in Andhra Pradesh state of India” Paper presented in the “International Conference on Hydrology and Watershed Management”,February,3-6,2010 by Jawaharlal Nehru Technological University, Hyderabad.

8. Dr.Mohammed Hussain(2006), “Capacity Building of water resource managers by developing M.A.A.T.R.U.S.H.R.I. Enlightenment Quotient in the successful implementation of Participatory management of water resources towards sustainable development”, Paper presented in the “International Conference on Hydrology and Watershed Management”, December 5-8,2006 by Jawaharlal Nehru Technological University, Hyderabad – ISBN :81 – 7800 -138 -1,Vol II,Pages 1175 -1190

9. Dr.Mohammed Hussain(2006), “Multidisciplinary Diagnostic Analysis (M.D.A.) Annual Reports , Design Operation Plans (D.O.P), Seasonal Operation Plans (S.O.P) and Actual Implementation of Approved Seasonal Operation Plans (A.O.P) as basic tools for Integrated Water Resources Management for sustainable crop production in irrigation projects: Case Studies in AndhraPradesh of India”, Paper presented in the “International Conference on Hydrology and Watershed Management”,December 5-8, 2006 by Jawaharlal Nehru Technological University ,Hyderabad-ISBN 978 - 81-7800 -224- 8 ,Volume II ,Pages 817 -827

10. Dr.Mohammed Hussain (2004), “ Impact of Transactional Analysis in my daily life – Confession of an Engineer “ – Paper presented in the International Transactional Analysis Conference at Bangalore from July 28 to August 1 ,2004 (HRD topic)

11. Dr.Mohammed Hussain(2002), “A simple conjunctive water use model to monitor the groundwater table in waterlogged areas of irrigation project command areas”- Paper presented in the International conference on “Hydrology and watershed Management” December, 18-20, 2002 organised by the Centre for Water resources, IPGSR, JNTU, Hyderabad.

12. Dr. Mohammed Hussain (2002),“ Capacity Building of Water Users Associations in Andhra Pradesh in India : Certain Observations” - Paper presented in the International conference on “Hydrology and watershed Management” December, 18-20, 2002, Organised by the Centre for Water resources, IPGSR, JNTU, Hyderabad.(HRD topic)

National conferences:

1. Dr.Mohammed Hussain (2012),“Capacity building of water resource managers in Participatory Irrigation Management”, Paper submitted in one day national seminar on “Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS-2012) on 19th December,2012
2. Dr.Mohammed Hussain (2012),“Preliminary aspects of selfless-innerself-centred S.P.R.Y. Living Unlearning and Learning Practice Model in the present new minute for sustainable natural resource management”, Paper submitted in one day national seminar on “Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS-2012) on 19th December,2012
3. Dr.Mohammed Hussain(2012), “Sustainable Management Practices in Irrigation Projects”, Paper submitted in one day national seminar on “Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS-2012) on 19th December,2012
4. Dr.Mohammed Hussain(2011), “Preliminary aspects of universal APT self-facing Environmental Communication and Leadership Wisdom Model “,Paper submitted in one day national seminar on “Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS-2011) on 17th December,2011
5. Dr.Mohammed Hussain (2011),“Practices for the sustainability of quality and quantity of water resources”, Paper submitted in one day national seminar on “Sustainable Technologies in Civil Engineering:Perspectives and Strategies(STEPS-2011) on 17th December,2011
6. Dr.Mohammed Hussain(2005), “Engineering Management Practices for the sustainability of quality and quantity of water resources in 21st Century” – Paper presented in the national seminar on “ Sustainable Technologies in Civil and Mechanical Engineering”,28-30July 2005, Muffakhamjah College of Engineering and Technology , Hyderabad.
7. Dr.Mohammed Hussain(1999), “Water Resources and Hydrological Problems in Krishna and Godavari Basins”, One day Brain Storming session on Hydrological and Water Resource Problems in Godavari and Krishna Basins,sponsored by Indian National Committee on Hydrology, Roorkee and organised by Andhra Pradesh Engineering Research Laboratories (APERL), Hyderabad April 23, 1999.
8. Dr.Mohammed Hussain (1998),“Conjunctive Water Use Management in the Command Areas of irrigation Projects in Andhra Pradesh,” Young Scientists Convention, organised by Andhra Pradesh Akademi of Sciences, Hyderabad 24th –25th July 1998.
9. Dr.Mohammed Hussain(1994), “A review of certain simulation models for effective on-farm water management in the waterlogged command areas of India”, National Seminar on Waterlogging, Drainage and Salinity in Irrigation Commands at WALAMTARI, Hyderabad, December 28-29, 1994.
10. Dr.Mohammed Hussain(1994), “Management Information Systems (MIS) for drainage in the Irrigation Command Areas of India”, National Seminar on Water logging, Drainage and Salinity in Irrigation Commands at WALAMTARI, Hyderabad, December 28-29, 1994.
11. Dr.Mohammed Hussain (1993),“Developing perceptual skills of Irrigation Scheme Managers in Conflict Resolution in Social and Psycho-biological Perspective”, National Seminar

on Human Resource Development in Irrigation Management at WALAMTARI, Hyderabad, September 3-4, 1993.(HRD topic)

12. Dr.Mohammed Hussain(1993), “Developing Delegation Skills of Irrigation Scheme Managers”, National Seminar on Human Resource Development in Irrigation Management at WALAMTARI, Hyderabad, September 3-4, 1993. (HRD topic)

13. Dr.Mohammed Hussain(1993), “Design Operation Plan (DOP) as a basic management tool for operation of irrigation schemes – A case study of Thandava Medium Irrigation Project in Andhra Pradesh,” Second National symposium on Irrigation Management at WALAMTARI, Hyderabad from December 17-18, 1993.

Dr. G.V.K.S.V. Prasad, Professor

Qualifications:

Ph.D (Civil Engineering) (NIT, Warangal, 2008),

M.Tech (Environmental Sci. & Engg.) (IIT, Mumbai, 1989),

B.E. (Civil Engineering) (Andhra Univ, 1987).

Experience: 28 years

Research Interest: Water Distribution system design optimization. Water and Wastewater treatment, solid waste management.

Journal Publications/ Conference Proceedings: 12

Books published: Nil

Journal publications

International publications:

1. “Equity in Water Supply in Intermittent Water Distribution Networks” *Water and Environment Journal*, (ISSN:1747-6585), December 2013.

Conference Proceedings

International Conferences:

1. “Water conservation through pricing – A case study” paper presented at 8th International Perspective on water resources and the environment(IPWE2016) organized by American Society of civil Engineers (ASCE) and EWRI 4th-6th Jan 2016, Colombo,Srilanka.
2. “Reliability of Drinking water Distribution Systems” Paper presented at International Conference on Public Private Partnership in Water Sector organized by IWWA- Nagpur in November 2006.



3. “Assessment of Variations in Nodal demand Satisfaction of Water Distribution Networks.” presented at **31st IAHR Congress held in September 2005 at Seoul, Korea.**
4. “Performance Evaluation of Water Distribution Systems Under Deficit Conditions” presented at **International Conference on Advanced Modeling Techniques for Sustainable Management of Water Resources**” Organized by NIT, Warangal during 28th-30th January 2004.

National conferences:

- 1.”Remedial measures for drinking water shortage and urban flooding” paper presented at Indian Water Week 2016, organized by min of water resources, Govt. of India 4th -8th April 2016, New Delhi .
2. “Education System for make in India” paper presented at 30^t Indian Engineering congress held at Guwahati 19th-20th Dec2015.
3. “Optimal Design of Water Distribution Network for Equity in Water supply” paper accepted for presentation at National Conference on Sustainable Water Resources Management and Impact of Climate Change- held at BITS Pilani Hyderabad campus March 5-6, 2010.
- 4.“Effect of metering on water Consumption – a case study” presented at the 32nd Annual convention of Indian Water Works Association held at Bhopal during 22-24th April 2002.
5. “Strategies for in-plant minimization of industrial pollution” presented at National Seminar on Environmental Conservation and Management held at GITAM, Visakhapatnam, during 7-8th March 1996.
- 6.“Upgrading existing biological treatment facilities using Powdered Activated Carbon” presented at National Seminar on Environmental Conservation and Management held at GITAM, Visakhapatnam, during 7-8th March 1996.
- 7.“Contact Stabilization process for industrial waste treatment – some applications” paper presented at National Seminar on Industrial Pollution Control held at IIT Mumbai during 8-9th June 1989.

Dr. V Mallikarjuna Reddy, Associate Professor

Qualifications: **Ph.D** (Civil Engineering from J.N.T.U Hyderabad)
M.Tech (Structural Engineering) (JNTU- Hyderabad, 2008),

Experience: 30 years

Research Interest: Concrete Technology.



Journal Publications/ Conference Proceedings: 11
Journal publications (year wise descending order)

International publications:

1. **V. Mallikarjuna Reddy**, Dr. M. V. Seshagiri Rao, P. Srilakshmi and E.Srinivas (2014), “Effect of w/c ratio on workability and mechanical properties of high strength Self Compacting Concrete with fly ash and Micro Silica as admixtures.(M70 grade)”, IOSR journal of Mechanical and Civil Engineering(IOSR-JMCE), e-ISSN:2278-1684,p-ISSN:2320-334X, Volume11, issue 5 Ver.VI(Sep.-Oct.2014) PP 15-21.
2. **V. Mallikarjuna Reddy**, Dr. M. V. Seshagiri Rao, P. Srilakshmi and P. Sateesh Kumar (2013), “Effect of w/c ratio on workability and mechanical properties of high strength Self Compacting Concrete(M70 grade)” International Journal of Engineering Research and Development, e-ISSN: 2278-067X p-ISSN:2278-800X Volume 7 Issue-1 pp 06-13.
3. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao,Effect of packing Factor on work ability and mechanical properties of High Strength self compacting concert (M70 grade) Fly Ash and micro silica as filler material, published in International Journal of Civil Engineering Publications ISSN:22492:426X.vol.3 Nov 5th 2013.PP:73-80.

National Publications:

1. **Dr.M.V. Seshagiri Rao, V. Mallikarjuna Reddy and Dr.V.Srinivasa Reddy 2015.**
Comparison of thermal conductivity of high Strength self compacting concrete with high strength vibrated concrete . Published in 78th Annual Technical Number published by the of Engineers India, oct 26. PP:1-6.

Conference Proceedings (year wise descending order)

International Conferences:

1. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao (2015), “Performance of High strength Self Compacting Concrete (M70 grade) exposed to elevated temperatures”. UKIERI Concrete Congress at JALANDHAR NIT, Nov. 2 -5, 2015. (Paper accepted).
2. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao (2015), “Comparative study on the effect of Packing Factor on workability and mechanical properties of high strength Self Compacting Concrete (M70 grade) with different mineral admixtures”, NASHIK, Maharashtra , July 2-4,2015. (Paper accepted).
3. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao (2014), “CHARACTERISTICS OF TRIPLE BLENDED HIGH STRENGTH SELF COMPACTING CONCRETE (M70 GRADE)”, Two Day International Conference on “PROFESSIONAL ENGINEERS: CHALLENGES IN DISASTER MANAGEMENT(ICPECDM-2014)” 18 –19 December, 2014 at GITAM ,VIZAG-AP.
4. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao (2014), “Comparative study on the effect of w/c ratio on workability and mechanical properties of high strength Self Compacting Concrete (M70

grade) with different mineral admixtures”, NASHIK, Maharashtra. Paper is published in ELSEVIER. ISBN No:978-93-5107-222-5, Date:28-30 March 2014.

5. **V. Mallikarjuna Reddy**, N. Ramanjaneyulu and Dr. M. V. Seshagiri Rao (2014), “Effect of PACKING FACTOR on workability and mechanical properties of Self Compacting Concrete OF M70 grade with GGBS and Micro Silica as filler material”, Proceedings of International conference on Emerging Trends in Civil Engineering, VNRVJIET, Hyderabad , ISBN: 978-7800-294-1(HB) Page No:192-198

6. **V. Mallikarjuna Reddy**, Dr. M. V. Seshagiri Rao, P. Srilakshmi and K. Venkateswarlu (2013), “Effect of PACKING FACTOR on workability and mechanical properties of Self Compacting Concrete of M70 grade with Fly Ash and Micro Silica as filler material”, International Journal of Civil Engineering and Applications, JNU, NEW DELHI,ISSN:2249-426X Volume 3 Issue-5 Page No:73-80

National Conferences:

1. **V. Mallikarjuna Reddy** and Dr. M. V. Seshagiri Rao (2014), “CHARACTERISTICS OF TRIPLE BLENDED HIGH STRENGTH SELF COMPACTING CONCRETE (M70 GRADE)”, Two Day National Conference on “RECENT RESEARCH ADVANCES IN CIVIL ENGINEERING (RRACE – 2014) 7 – 8 November, 2014 at OU Campus, Hyderabad.

GVV Satyanarayana, Associate Professor

Qualifications: Ph.D (Civil Engineering from J.N.T.U Hyderabad (Pursuing)

M.Tech ,(Structural Engineering) (JNTU- Hyderabad, 2008),

Experience: 26 years

Research interest: Concrete Technology.

Journal Publications/Conference Proceedings: 06

Journal publications (year wise descending order)

International publications:

1. **G V V Satyanarayana and Dr.N.R.Dakshina Murthy** (2013), “Behaviour of Blended Mortars under Acid Environment”, The IUP Journal of Structural Engineering, Vol. VI, No.2, pp.26-37.

National publications:

1. **G V V Satyanarayana, Dr.N.R.Dakshina Murthy & Dr.M.V.Seshagiri Rao** (2015), “ Studies on Response of Two way Blended Cement Concrete Slabs under Impact Load” ICI journal, vol 16, No.1 April-June 2015,PP 7-12.
2. **G V V Satyanarayana, Dr.N.R.Dakshina Murthy & Dr.M.V.Seshagiri Rao** (2015), “Studies on Energy absorption capacity of Two way slabs with Bleded Pozzolonic concretes subjected to Flexure” ICJ vol 89 No.8, August 2015, PP.54-63.
3. “Punching shear strength of two way slab specimens: A comparison with Internal codes”,ICI Journal, April-June 2016 Vol:17,No.1, PP. 15-21



4. “Studies on punching shear resistance of two way slabs specimens with partial replacement of cement by GGBS with different edge condition”(Accepted by Springer Journal).

Conference Proceedings (year wise descending order)

International Conference

1. **G V V Satyanarayana, Dr.N.R.Dakshina Murthy & Dr.M.V.Seshagiri Rao** (2014), “ Sustainable Studies on Energy absorption Capacity of Two way Slabs with Blended Concretes” ICSCI 2014, IIT Hyderabad(ASCE India section), October 2014.
2. “Punching shear strength on two way slab specimen. Comparison using IS and ACI codes” IC-ISE-2015,organized by university college of Engineering (A), Osmania University, Hyderabad, 14-16th Dec 2015,PP. 137-145.

National Conferences:

1. **G.V.V. Satyanarayana, Dr.N.R.Dakshina Murthy and Dr.M.V.Seshagiri Rao** (2013), “Behaviour of Two-way slabs under flexure”, National seminar on Health Monitoring of Reinforced concrete structures for sustainability (HMRCs), KITS, Warangal.
2. **G V V Satyanarayana, Dr.N.R.Dakshina Murthy & Dr.M.V.Seshagiri Rao** (2014), “ Behavioural Studies on Two way Slabs with Blended Concretes Under Flexural Loads” RRACE-2014, Osmania University, Hyderabad.

T.SRINIVAS

Associate Professor

Qualifications: Ph.D in Civil Engineering from JNTU Hyderabad (Pursuing)
M.Tech (Structural Engineering) from JNTU Hyderabad
B.E (Civil Engineering) from CBIT, affiliated to OU Hyderabad.

Experience: 18 Years



Research Interest: Concrete technology, Special concrete, Structural analysis and design by using Civil Engineering Software applications.

Journal Publications/Conference Proceedings: 02

Journal Publications:

1. T. Srinivas and N.V.Ramana Rao (2015), “ A study on Flexural Behaviour of RCC Beams containing High Volume Fly Ash”,IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN:2278-1684:2320-334X, Volume 12 , Issue 4 Ver.II (July-August 2015),PP (in Press)

Conference Proceedings

National:

- 1 T. Srinivas and N.V.Ramana Rao (2014), “Mechanical Properties and Cost Evaluation of Concrete with High Volume Fly Ash”, National Conference On **Recent Research Advances in Civil Engineering** ,RRACE-2014, Osmania University Hyderabad, on 7 – 8 November, 2014, Proceeding pp: 366-370.

Dr. V Srinivasa Reddy, Professor

Qualifications: Ph.D (Civil Engineering from J.N.T.U Hyderabad (2015)
M.Tech (Structural Engineering from JNTU, Hyderabad (2002))
B.Tech (Civil Engineering from Acharya Nagarjuna University (1996))



Experience:

Teaching Experience – 8 yrs
Industry Experience-10 yrs

Research interest: Concrete technology, Special concretes, Rehabilitation and Retrofitting of structures, Civil Engineering Software applications.

Subjects Taught (B.Tech and M.Tech): Engineering Mechanics, Surveying, Construction Management, Strength of Materials, Structural Analysis, Concrete Technology, Rehabilitation and retrofitting of structures, Structural Stability Analysis, Shells and Folded Plates, Finite Element Methods, Theory of Elasticity & Plasticity and Structural Dynamics.

Association with Professional Bodies

- ♦ Life Member of Institute of Engineers (India) (MIE)M -146335-1
- ♦ Life Member of Indian Society for Technical Education (MISTE) LM 89941
- ♦ Life Member of Indian Concrete Institute (MICI) LM 10078
- ♦ Member of Universal Association of Civil, Structural And Environmental Engineers (UACSE) AM1005345
- ♦ Life member of American Concrete Institute (ACI) India Chapter (MACI)(LM.14.39)
- ♦ Institution of Engineers (India) - Chartered Engineer (C Eng)

Journal Publications/Conference Proceedings: 56

Journal publications

List of paper publications

Journals:

❖ **International:**

1. M V Seshagiri Rao, **V Srinivasa Reddy**, V Chinni, “Studies on Pore Structure Characterization of Bacterial Concrete”, International Journal of Engineering Research & Technology (IJERT), Vol. 3 Issue 11, November-2014, ISSN: 2278-0181, pp 564-570.

2. M V Seshagiri Rao, **V Srinivasa Reddy**, "Flexural Behavior Of Bacteria Incorporated Reinforced Concrete Beams", International Journal of Engineering Research And Management (IJERM), Volume-1, Issue-1, April 2014 pp 12-18.
3. **V Srinivasa Reddy**, M V Seshagiri Rao And C H Sasikala - "Bio-Inspired Solutions for Durable Concrete", International Journal Of Earth Sciences And Engineering , Special Issue Of 3-Day International Conference on Emerging Trends in Civil Engineering (ICETE-2014), 6th–8th January, 2014 Organized by VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, INDIA in Association with CAFET-INNOVA TECHNICAL SOCIETY, Hyderabad, INDIA, Scopus Journal Rating (SJR) 0.15 (2012); H-index: 2 (2012); CSIR-NISCAIR, INDIA Impact Factor 0.042 (2011), August 2014, Volume 07 No 04 , ISSN 0974-5904, P.P.575-581.
4. **V Srinivasa Reddy**, Jyothi Kunar K S, M V Seshagiri Rao, Ch sasikala (2013), "Studies on Permeability of Self-Healing Built-In Bacteria Concrete", International Journal of Recent Technology and Engineering (IJRTE), Volume-1, Issue-6, January 2013 119-125, ISSN: 2277-3878
5. Suvarna Latha P, M V Seshagiri Rao, **V Srinivasa Reddy** (2013), "Feasibility Studies On Granulated Blast Furnace Slag As Cement And Sand Replacement", Engineering Sciences International Research Journal.
6. **V Srinivasa Reddy**, Sreenivasa Rao D, M V Seshagiri Rao, Rahul K (2013), "Studies on Bacterial Concrete Exposed to Elevated Temperatures and Thermal Cycles", Engineering Science and Technology: An International Journal (ESTIJ), Vol. 3, No.1, 126-135, ISSN: 2250-3498
7. **V Srinivasa Reddy**, Sreenivasa Rao D, M V Seshagiri Rao, Ch sasikala (2013), "Permeation Properties of Bacterial Concrete", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) , March 2013 Issue ,08-16,ISSN: 2278-1864
8. Suvarna Latha K, M V Seshagiri Rao, **V Srinivasa Reddy** (2012). "Estimation of GGBS and HVFA Strength Efficiencies in Concrete with Age", International Journal of Engineering and Advanced Technology (IJEAT), Volume-2, Issue-2,221-225, ISSN: 2249 – 8958
9. **V Srinivasa Reddy**, Achytha Sathya K, M V Seshagiri Rao, Ch sasikala , (2012)."A biological approach to enhance strength and Durability in concrete structures", International Journal of Advances in Engineering & Technology, Vol. 4, Issue 2,392-399, ISSN: 2231-1963
10. **V Srinivasa Reddy**, Raja ratnam V, M V Seshagiri Rao, Ch sasikala (2013), Mathematical Model for Predicting Stress Strain Behaviour of Bacterial Concrete", International Journal of Engineering Research and Development, Volume 5, Issue 11, 21-29,e-ISSN: 2278-067X, p-ISSN: 2278-800X
11. **V Srinivasa Reddy**, S Sunil Pratap Reddy, M V Seshagiri Rao, Ch sasikala, (2011). "Strength Enhancement Of Cement Mortar Using Microorganisms - An Experimental Study", International Journal of Earth Sciences and Engineering, Volume 04, N0 06, Spl October 2011, 933-936 ,ISSN no: 0974-5904

❖ **National:**

1. M V Seshagiri Rao, **V Srinivasa Reddy**, P Lavanya Prabha , "Development And Applications Of Reactive Powder Concrete", Tech Mantra – Technical magazine of The RAMCO Cements limited, Vol . II No.3 (2014), pp 06-15
2. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2013), "Bioengineered Concrete - A Sustainable Self-Healing Construction Material", *Research Journal of Engineering Sciences*, Vol. 2(6), 45-51,ISSN 2278 – 9472

3. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2013), "Quantification and Characterization of CaCO₃ Precipitation by Bacillus Subtilis JC3 in Bacterial Concrete", Indian Concrete Institute Journal, Oct-Dec 2013, 25-27
4. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2012), "The biological approach to enhance durability in concrete structures", Journal of Biotechnology and Biomaterials, Volume 2 , Issue 6, ISSN: 2155-952X
5. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala, " Performance of microbial concrete developed using Bacillus Subtilis JC3", Journal of The Institution of Engineers (India)- Series A- IEI Springer (Under Review)
6. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala, "Accelerated Corrosion Induced Cracking Test on reinforced bacterial concrete", The Indian Concrete Journal (ICJ) (Under Review)

Conference proceedings:

❖ International:

1. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch Sasikala (2015), "Experimental Investigation on Pore Structure Characterization of Concrete incorporated with Bacillus subtilis JC3", UKIERI Concrete Congress ,Concrete Research Driving Profit and Sustainability,2 - 5 November 2015,Jalandhar Punjab India.
2. **V Srinivasa Reddy**, M V Seshagiri Rao, S Sushma (2015), "Feasibility Study on Bacterial Concrete as an Innovative Self-Crack Healing System" , Proceeding of "International Conference on Recent Trends in Engineering and Technology" (ICRTET2015), 02- 04 July, 2015 at SNJBs Late Sau K.B.Jain College of Engineering, Chandwad423101, INDIA. Proceeding of McGraw Hill and Online Publication by Journal IJMTER.
3. M V Seshagiri Rao, **V Srinivasa Reddy**, Ch Sasikala, "Studies on characterization of CaCO₃ precipitation in bacterial cement mortar", International Conference on Sustainable Civil Infrastructure (ICSCI-2014), organized by American Society of Civil Engineers (ASCE) India Section and Department of Civil Engineering, IIT Hyderabad, October 17-18, 2014, pp 234-243.
4. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2014), "Modifying concrete properties through bacteriogenic mineral plugging", 3rd International Conference on "Recent Trends in Engineering & Technology, SNJB's Late Sau Kantabai Bhavarlalji Jain College of Engineering,28th to 30th March, 2014 Published by Elsevier Science & Technology pp 858-862
5. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2014), "Bio-Inspired Solutions for Durable Concrete", International Conference on Emerging Trends in Civil Engineering ICETCE 2014), VNRVJIET, 6th -8th January 2014 Hyderabad , 158-167
6. **V Srinivasa Reddy**, A Ramu, M V Seshagiri Rao, Ch sasikala (2013), "Calcite crystals precipitation by Bacillus subtilis JC3 as a mechanism for strength improvement of cement mortar", 3rdInternational Science Congress, 8th - 9th December 2013 at Karunya University, Coimbatore
7. **V Srinivasa Reddy**, A Ramu, M V Seshagiri Rao, Ch sasikala (2013), "Studies on Stress-Strain Behaviour of Bacterial Concrete",The 2nd International Conference on Advancement in Engineering and Management - Royal Institute Of Technology & Science- ICAEM-2013 Feb 27th & 28th 2013

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10. **V Srinivasa Reddy**, S Sunil Pratap Reddy, M V Seshagiri Rao, Ch sasikala (2011), "Studies On Corrosion Resistance Of Bacterial Concrete (B. Subtilis)", International Conference on Advances In Materials And Techniques For Infrastructure Development AMTID 2011, NIT Calicut, 55
11. **V Srinivasa Reddy**, S Sunil Pratap Reddy, M V Seshagiri Rao, Ch sasikala (2011), "Strength Enhancement Of Cement Mortar Using Microorganisms - An Experimental Study", International Conference on Advances in Civil Engineering October 21 – 23, 2011 KLU Vijayawada, Andhra Pradesh, 933-936 , ISSN no: 0974-5904

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5. M V Seshagiri Rao , **V Srinivasa Reddy** , K Mounika, "Bacterial Concrete: A Biomimetics based Sustainable Self-healing Biomaterial", National Conference On Recent Research Advances In Civil Engineering , Osmania University Hyderabad, 7 – 8 November, 2014, pp 227-231.
6. **V Srinivasa Reddy**, M V Seshagiri Rao(2014), " Microbial Concrete- A sustainable solution for concrete crack repair and Rehabilitation" at The Institute of Engineers India , Andhra pradesh state centre during 77th Annual General Meeting at the Institution of Engineers India (IEI) Hyderabad held on December 22 2014.
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13. M V Seshagiri Rao, **V Srinivasa Reddy**, Swaroopa rani S (2013), “Development of Self Compacting Concrete Using Rice Husk Ash and Ground Granulated Blast Furnace Slag”, 46th Engineers’ Day, September 15 ,The Institution of Engineers (India), A P State Centre Hyderabad,14-25
14. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2013), “Microbial-Induced Calcite Precipitation: Its Potential Application In Enhancing Concrete Properties”, National Conference on New Trends in Civil Engineering and Earth Sciences (NTCE-2013) 5-6 February 2013, Vasavi College of Engineering, Hyderabad
15. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2012), “Self-Healing Bacterial Concrete: A Review”, National Conference on “Recent Trends in Structural Engineering”, VNRVJIET, Hyderabad, 33-44
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17. M V Seshagiri Rao, **V Srinivasa Reddy** (2012), “Studies on the Structural Applications of Reactive Powder Concrete: An ultra high performance concrete”, National Level Symposium on “Emerging Technologies in Civil Engineering Applications”,May 28-29th 2012, ACE Engineering College, Hyderabad.
18. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2012),”Studies on Durability of Bacterial Concrete”, Proceedings of National Conference on Advances in Earth Sciences, Structural, Geotechnical and Earthquake Engineering(AESG2E-2012),04th -05th October 2012, CBIT Hyderabad,343-350
19. Swaroopa Rani S, M V Seshagiri Rao, **V Srinivasa Reddy** (2012), “Stress-Strain behaviour of SCC with and without GGBS”, Proceedings of National Conference on Advances in Earth Sciences, Structural, Geotechnical and Earthquake Engineering (AESG2E-2012),04th -05th October 2012, CBIT Hyderabad,447-456
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21. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2012), “Development of Microbial Based System For Sustainable Concrete: A Novel Method To Heal Cracks”, National Seminar on “Sustainable Technologies in Civil Engineering: Perspectives and Strategies”, STEPS-2012, GRIET, Hyderabad, 19th December 2012
22. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala, Achytha Satya K (2012),” Development Of Bacteria-Based Self-Healing Concrete”, National Conference on Recent Advances in Geo-Sciences, Engineering & Technology (NCRAGE) 20th & 21st December 2012, JNTU Kakinada
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25. P Sravana, P Srinivasa Rao , **V Srinivasa Reddy** (2011), “Current and Emerging Trends in Engineering Education”, National Seminar on Human Values in Technical Education: an Approach for Holistic Development of Society (NSHVTE – 2011), October 8-9, 2011, Ujjain, MP.
26. **V Srinivasa Reddy**, M V Seshagiri Rao, Ch sasikala (2011), “Structural Applications of Reactive Powder Concrete”, 74th Annual General Meeting at The Institution of Engineers India (IEI) Hyderabad
27. **V Srinivasa Reddy**, P V Ravi Raman (2011), “Structural Health Monitoring of Concrete using Non Destructive Tests”, 1st National Conference on Technical Research Advances in Civil Engineering (TRACE – 2011) LDRP-ITR , Gandhinagar

Poster Presentations

1. “*The biological approach to enhance durability in concrete structures*” - 3rd World Congress on Biotechnology-OMICS Group-13-15 September 2012-Hyderabad, India.

Dr. C Lavanya, Associate Professor

Qualifications: **Ph.D** (Civil Engineering from J.N.T.U Hyderabad - 2015)
M.Tech (Soil Mechanics and Foundation Engineering from J.N.T.U, Kakinada (2005))
B.Tech (Civil Engineering from J.N.T.U, Hyderabad (2002))



Experience:

Teaching Experience – 07 yrs
 Industry Experience- 02 yrs

Research interest: Expansive soils, Ground improvement techniques.

Journal Publications/Conference Proceedings: 10

Journal publications

International publications:

1. **Lavanya, C.,** Sreerama Rao, A. and Darga Kumar, N. (2013), “Study on Coefficient of Permeability of Copper slag when admixed with Lime and Cement”, International Organization of Scientific Research Journal of Mechanical and Civil Engineering, DOI:10.9790/1684-0761925, Vol. 7, Issue 6, pp. 19-25.
2. **Lavanya, C.,** Sreerama Rao, A. and Darga Kumar, N. (2012), “Influence of Admixture on Shear parameters of Copper Slag”, International Journal of Engineering Research and Technology, ESRSA Publications, Vol. 1, Issue 10, pp. 475 - 480.

Conference Proceedings (year wise descending order)

International Conferences:

1. **Lavanya, C.,** Srirama Rao, A. and Darga Kumar, N. (2014), “Efficacy of copper slag cushion in arresting heave of an expansive soil”, International Conference on Recent trends in Engineering & Technology, ELSEVIER Journals, ISBN No: 978-93-5107-222-5, pp.658-662.
2. **Lavanya, C.** and Sreerama Rao, A. (2010), “Use of Fly ash in Black Cotton Soils Sub grades”, International Conference on Developments in Road Transportation (DRT 2010), NIT, Rourkela, pp. 601 - 607.

National conferences:

1. **Lavanya, C.,** Srirama Rao, A. and Darga Kumar, N. (2015),” Study on load- behavior of copper slag-cushion near expansive soil bed, “ Indian Geographical Conference (IGC 2015),COEP, Pune, PP.9.
2. **Lavanya, C.,** Srirama Rao, A. and Darga Kumar, N. (2014), “Comparison studies on influence of admixture on copper slag cushion laid over an expansive soil”, Indian Geotechnical Conference (IGC 2014), Kakinada, pp.704-711.
3. **Lavanya, C.,** Sreerama Rao, A. and Darga Kumar, N. (2013), “Influence of admixtures on Load - Settlement behaviour of Copper Slag - Cushioned Expansive Soil Bed”, Indian Geotechnical Conference (IGC 2013), Roorkee.
4. **Lavanya, C.,** Sreerama Rao, A. and Darga Kumar, N. (2012), “Influence of Admixture on Compaction Characteristics and CBR of Copper Slag, Indian Geotechnical Conference (IGC 2012), New Delhi, pp. 359 - 362.
5. **Lavanya, C.,** Sreerama Rao, A. and Darga Kumar, N. (2011), ”A Review on Utilization of Copper slag for various Geotechnical Applications”, Indian Geotechnical Conference (IGC 2011), Kochi, pp. 445 - 448.

6. Sreerama Rao. A, Dayakar Babu. R. **Lavanya.C**, Himabindu G. (2006), " Swell - Shrink behaviour of stabilized fly ash cushions in expansive soils", Indian Geotechnical Conference (IGC 2006), Chennai, pp. 301-304.

Shaik Fayazuddin, Assistant Professor

Qualifications:

M.Tech (Geotechnical Engineering) (NIT Warangal, 2014)

B.Tech (Civil Engineering) (GITAM University, Visakhapatnam, 2012)



Experience: 1 year

Research Interest: Earthquake Engineering, Reliability and its applications in Civil Engineering.

Journal Publications/ Conference Proceedings: 01

Conference Proceedings

International Conferences:

1. Shaik Fayazuddin, "Liquefaction Potential Assessment Based On SPT Using LiqIT Software" ,IGS Chennai 2015, 6th International Geotechnical Symposium on Disaster Mitigation in Special Geo-Environmental Conditions, Organized by IIT Madras, January 21-23,2015, Chennai, India.

G.Karthik , Assistant Professor

Qualifications:

M.Tech (Transportation Engineering) (NIT Nagpur, 2014)

B.Tech (Civil Engineering) (V.R.Siddhartha college, Vijayawada, 2012)

Experience: 2 year

Research Interest: Intelligent transportation system, signal designing, Traffic mangagement, recycled use of pavement materials.



Journal Publications/ Conference Proceedings: 01

Conference Proceedings

International Conferences:

1. G.Karthik, “Optimization of signal timings in Indian scenario”, 11th Transportation planning and implementation methodologies for developing countries, Mumbai-2014, an International conference Organized by IIT Bombay, December 10-12, 2014, Mumbai, India.

V Naresh Kumar Varma ,Assistant Professor

Qualifications:

M.Tech (Structural Engineering) (JNTUH, 2014)

B.Tech (Civil Engineering) (Osmania University, Hyderabad, 2012)

Research Interest: Seismic Analysis and Concrete related topics

Journal Publications/ Conference Proceedings: 01

Journal Publications:

1. V Naresh Kumar Varma, “Compressive Strength and Durability Studies on Concrete Using Sponge Iron Scrap Material as Coarse Aggregate Replacement ” , International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308, Presented in the National Conference on “Recent Trends in Civil Engineering” , held during February 20-21, 2015 at GITAM University, Hyderabad.

