

DEPARTMENT OF CIVIL ENGINEERING
HAND BOOK 2019-2020





CREEP TEST RIG



LVDT



DATA LOGGER

Department of Civil Engineering
University College of Engineering (A)
Osmania University, Hyderabad 500007
Tel: 040-27097125, Email-id: headcivil29@gmail.com

1. Profile

Department of Civil Engineering was established in the year 1929 with an intake of 15 students. It was the first Department to commence the undergraduate programme at University college of Engineering, Osmania University. Initially, the Department and the College started functioning from a building as make shift arrangement and later in the year 1947, they moved into the present majestic building. Over the years, the Department grew from strength to strength in terms of its academic achievements and infrastructure development.

Currently, the Department admits 60 students for the Under-Graduate programme and 90 for the Post-Graduate Courses each year. It also offers part time Post-Graduate courses for the benefit of working Engineers of the twin cities, admitting 45 candidates annually. The Post-Graduate programmes are offered in the field of Structural Engineering, Geotechnical Engineering, Water Resources Engineering, Infrastructure Engineering, Transportation Engineering, and Construction Engineering & Management. The Department has doctoral programmes as well, and has over 25 candidates enrolled for their PhD programme. The Department also has the distinction of enrolling large number of foreign students both at UG and PG level.

The Department provides research and consultancy services to various public and private sector organizations, and thus earns substantial amount of revenue for developmental activities. Further, the Department receives research and modernization grants from UGC, DST, MHRD, and AICTE for carrying out research and developing the laboratories. The Department has celebrated its Golden Jubilee in 1979 and Diamond Jubilee in 1989. The key milestone in the history of the Department is the Platinum Jubilee celebrations held in the year 2004.

The Department has developed expertise over the years in the fields of Concrete technology, Recycled aggregate concrete, Civil engineering materials for sustainable development, Finite element analysis, Bridge engineering, Earthquake resistance structures including tall structures, Foundation engineering, Environmental engineering, Integrated expert systems, GIS and GPS, Water resources engineering, Transportation Systems Engineering and Fuzzy logic applications. The Department has received research funding for carrying out research projects in the field of Recycled aggregate concrete, Temperature distribution in concrete railway bridges, Water and air quality studies, Water management, Wind tunnel studies, Construction engineering and management, Geo-textiles, Seismic resistant structures, Bridges, and Computer applications.

Several faculty members have received prestigious awards including the Best Teacher awards of the State Government and the Best Publication awards reflecting their teaching abilities and the research contribution. Many of the faculty members are listed in several national and international biographical directories. The faculty has published over 1500 papers in various international and national journals and conferences besides text books and professional books.

2. Laboratories available in the Department

- Materials Testing Lab.
- Concrete and Structures Lab.
- Transportation Engineering Lab.
- Geo-Technical Engineering Lab.
- Fluid Mechanics Lab.
- Environmental Engineering Lab.
- Surveying Lab.
- Computer Lab.
- Geology Lab.

The laboratories are upgraded periodically with the state of the art equipment with the help of research and development grants received from the University Grants Commission (UGC), Ministry for Human Resource Development (MHRD), All India Council for Technical Education (AICTE) and other agencies.

3. Major Equipment available in the Department

- ❖ Universal Testing Machines of 1000 kN and 2000 kN capacity, Torsion, Shear, Tension, Compression and Flexural Testing Equipments, 1000 kN & 150 kN loading frames, Impact Testing Machine, Vibration monitoring systems, Large Scale Direct Shear Box Testing Unit, Triaxial Testing Machine with pore pressure measurement facility, Low-Speed short Wind Tunnel (0. 61m X 0. 61 m) with two component strain gauge balance, Tilting frame (12.0 m length), Dual frequency Doppler Flow Meter, Nephelometer, Portable Spectrophotometer, Total station, Automatic Level, NDT Equipments like Corrosion analyzer, Profometer, Schmidt Rebound hammer and Ultrasonic test apparatus, Infrared camera, Ground Penetrating Radar (GPR), Asphalt Testing System, BOD equipment with dissolved oxygen probe and Fluoride Electrode
- ❖ Latest Software Packages like ANSYS, NISA, NASTRAN, AutoCAD, STAAD.PRO, SAP, ETABS, ArcGIS, InfoSWMM, Symantec Antivirus Endpoint Protection, etc

TEQIP Phase-II: Procurements

- i) The following equipments were procured, installed and being used
 - Relative density apparatus, Automatic compactor, Block resonance test facility, Electrodes for ions, Discharge measuring system, Total station, Longitudinal Compressometer, Humidity Chamber, Fatigue Testing Machine 200kg, Drying Shrinkage and Moisture movement, Groundwater model, Basic hydrology system and Accelerated polishing machine.
- ii) The following software were procured, installed and being used
 - MATLAB, STAAD, B_est, MD FEA, CARD/1 (Transportation Engineering Software), CUBE 6.0 (Traffic Planning Software / Academic version) and Geo-Slope (Geo5) (Geotechnical Engineering Slope Stability Software).

TEQIP Phase-III : Procurements

- iii) The following equipments were procured, installed and being used
 - Creep Test Rig, Data Logger, LVDT and Modification of CTM for performing load test on soils
- iv) The following equipments are under process of procurement
 - Asphalt Mixer (5 liter capacity) and Upgradation of existing load test facility in Geo-Technical Engineering Lab

4. Library

The following books are available in the department library

1. Reference Books	-	761
2. Text Books	-	1700
3. General Books	-	200
4. Journals (ACI, National, International)	-	688
5. Code Books	-	200

5. Faculty Details

<i>Faculty member</i>	<i>Areas of Teaching and Research</i>
PROFESSOR AND HEAD	
Dr. M. Gopal Naik, B.E. (OU), M.E. (OU), Ph.D. (IIT-B), FIE, MASCE, IWRS, ISRS, ISH, ISG	Watershed Modeling, Integrated Watershed Management Systems, Hydrology and Water Resources Engineering, FEM application to Water Resources Engineering, Remote Sensing and Geographical Information Systems & Global Positioning System, Applications of Geospatial Technologies and Soft computing Techniques to Construction Engineering and Project Management
PROFESSORS	
Dr. Kumar Molugaram B. E. (OU), M. Tech(JNTU), Ph. D(IITB), FIE, MISTE, MIRC, MIIBE, MIUT, MISR, MWCTR, MASCE, MTRB	Land-use transportation integration, Urban transportation planning, Behavioral modeling. Micro-simulation, Optimization techniques, Traffic Engineering, Rural roads planning and development, Highway material testing, Pavement systems design and Evaluation
Dr. N. Suresh Kumar B. Tech. (KU) M.E. (Anna U), Ph. D. (IIT B) MISTE, MISH	Computational Fluid Dynamics, Groundwater flow modeling, Free surface flows, Water management, Rural and urban water supply systems, and Environmental Hydraulics
Dr. V. Bhikshma B.E.(OU), M.Tech (JNTU), Ph. D(O.U)	Structural analysis and design, Concrete composites, Bridge engineering, Reinforced cement concrete, Prestressed concrete, Concrete technology, Earth quake engineering
Dr. M. Anjaneya Prasad B. E. (OU),M. Tech (REC-S), PhD(IITM)	Hydraulics, Water Management Systems, Fuzzy logic applications to water resources, Optimization application in water resources
Dr. P. Raja Sekhar B.E.(OU), M.E.(OU), Ph.D (IITB)	Water resources engineering, Hydrology and water management, Ground water hydrology, Ground water pollution studies at normal gravities (1g) and enhanced gravities (Ng- centrifuge modeling studies)
Dr. K. L. Radhika B. Tech (JNTU),M. E. (OU), Ph.D (NITW)	Structural analysis and design, and Concrete Technology
ASSOCIATE PROFESSORS	
Dr. M. V. S. Sreedhar	Geotechnical engineering, Ground improvement

B.Tech (JNTU),M. Tech (IITB),Ph.D(OU)	techniques, Geo-Synthetics, Soil dynamics and machine foundations, Geotechnical investigations.
Dr. K. Shashikanth B. Tech (SVU) ME-CE (UVCE-B), M.Tech- CS (JNTU)	Surface water hydrology, Mathematical modeling to water resources, ANN and GIS applications.
Dr. D. Rupesh Kumar B. Tech (NU), M.Tech (JNTU), Ph.D (JNTU).	Design of RCC & steel structures, Finite element analysis, Earthquake resistant design of structures, Design of bridges, Structural shape optimization
Dr. D. Rajashekar Reddy BE (OU), M.Tech (JNTU), Ph.D(IITKGP)	Transportation Engineering, Traffic Engineering, Pavement analysis, Pavement Construction
Dr. R. Srinivasa Kumar BE(OU), ME(MSU), Ph.D(IITKGP)	Transportation engineering, Highway planning, Pavement design, Evaluation and maintenance, Pavement material characterization and Statistical analysis of data.
Mrs. D. Annapurna B. Tech (SKU), ME(OU)	Structural analysis and design, Computer aided analysis & design of structures.
ASSISTANT PROFESSORS	
Mrs. S. V. S. N. D. L. Prasanna BE(OU), ME(OU)	Computational Fluid Dynamics, Drainage Engineering, Irrigation Water Management
Mrs. P. Anuradha B. Tech (JNTU),M. Tech (JNTU)	Structural analysis and Earthquake analysis
Mr. R. Rajender B.E (OU), M.E (IISc)	Design of Machine Foundations, Structural Dynamics, Finite Element Methods, Structural Analysis and Design, Earthquake Resistant Design
Dr. Harish Gupta	Earth Surface Process and Climate Moderation; Surface Hydrology, Global Bio-geochemical Cycles and Environmental Pollutants in rivers; Urban Water Management
ASSISTANT PROFESSORS (CONTRACT)	
Mrs. A. Usha Sri B.E (OU), M.E (IITD)	Structural analysis and Structural Dynamics
Mr. L. Ajay Kumar B.E (OU), M.E (OU)	Structural analysis, Design of RCC & Concrete Technology

6. Membership of Professional Bodies

The Department acquired the organizational membership of

- Association of Consulting Civil Engineers (ACCE-India), Bangalore
- Indian Concrete Institute (ICI), Chennai
- Indian Society For Technical Education (ISTE), New Delhi

7. Research Activities

The Faculty of the Department is actively involved in the research and development activities in the following areas of civil engineering.

- ❖ Concrete technology including Recycled aggregate concrete, Fly ash concrete, Geo-polymer concrete, High performance concrete and Sustainable materials
- ❖ Bridges, Shells, Folded plates and multi- storied buildings
- ❖ FEM, Expert system, ANN, and Fuzzy Logic applications
- ❖ Geotechnical engineering and geo-textiles
- ❖ Planning and design of lift irrigation systems

- ❖ Planning and design of storm water drainage systems
- ❖ Optimization of reservoir releases through fuzzy logic approach
- ❖ Remote sensing ,GIS and GPS application in Hydrology
- ❖ Ground water pollution studies
- ❖ Transportation Planning and Modeling, Micro- simulation and GPS applications
- ❖ Pavement systems engineering
- ❖ Construction Engineering and management, Environmental hydraulics, cost-effective technologies for water and waste water treatment

8. Research Projects

Faculty Name	Name of Sponsored R&D Project	Amount (Rs.) & Duration	Name of Sponsored Agency/Organization
Prof. M. Gopal Naik	Scheme for Promotion of Academic and Research Collaboration (SPARC)	74.38 lakhs	Ministry of Human Resource Development(MHRD)
	Science and Engineering Research Board (SERB)	40.13 lakhs	Department of Science and Technology
Dr. M. V. S. Sreedhar	Laboratory investigations on the Uplift Capacity of Shallow Foundations	3.20 lakhs (One year) (In progress)	Industry – M/s RAMBOLL Engineers, Hyderabad
Dr. K. Shashikanth	Co- Principal Investigator for the AC-IWRM sponsored research project on “ Assessment of Climate Change Impact on Precipitation and Stream flow in Middle Krishna (K2), Ghataprabha (K3), Malaprabha (K4), and Lower Bhima (K6) sub basins of Krishna Basin “.	30 Lakhs (2018-19)	Advanced Centre for Integrated Institute of Water Resources Management (AC-IWRM) Govt of Karnataka
Dr. Harish Gupta	Planning and Development of Climate Resilient Water Sensitive Urban Designs: A Case Study of Hyderabad City (Co-PI)	74.38 lakhs (April 2019-March 2021)	SPARC-MHRD
	MOOCs on Water Resources and Watershed Management (Co-PI)	13.50 lakhs (2019)	UGC

9. Consultancy Projects

Faculty Name	Name of Consultancy Project	Amount (Rs.) & Duration	Name of Sponsored Agency/Organization
Prof. M. Anjaneya Prasad	Hydraulic Design Vetting and Verifications	63,008	Private Organizations
Dr. M. V. S. Sreedhar	Geotechnical Investigations & Proof Check (> 20 projects)	11.00 lakhs (1 to 6 months)	Different Govt. / Private organizations.

Dr. K. Shashikanth	Involved in the Consultancy Projects of Mission Bhagiratha Govt. of Telangana for the Districts of Ranga Reddy, Adialabad, Nirmal, Nalgonda. Consultancy mainly consists of Vetting of Hydraulic Design of Pipe networks both primary and secondary networks including Surge Analysis	10 Lakhs	NCC, L&T, TDWSP, SMC Infrastructures Ltd.
Dr. D. Rupesh Kumar	120 projects of several Government organizations	48.31 lakhs (Incl. GST) / 40.94 lakhs (Excl. GST)	120 clients include PRED, GHMC, HMDA, SAAP, SKLTSHU, SCR, TSTDCL, TS R&B, MES, APSPHCL, TSTDCL, DANIELI INDIA, etc.

10. List of Publications in International Journals by Faculty

Faculty Name	Paper Title	Journal Name	ISSN No.	Volume No. & Year
Prof. M. Gopal Naik	Analysis of Construction Delay due to Poor Planning using Fuzzy Logic Technique	International Journal for Research in Applied Science & Engineering Technology (IJRASET)		Vol.6 (VII), Pp.491-498.
Dr. K. Shashikanth	Role of Vertical Velocity in Improving Finer Scale Statistical Downscaling for Projection of Extreme Precipitation (2018)	Theoretical and Applied Climatology (Impact factor 2.43)	0177-798X	https://doi.org/10.1007/s00704-018-2615-1
	Temperature Projections from GCMs using Quantile Remapping Method (2018)	International Journal of Applied Engineering Research (UGC Approved)	ISSN 0973-4562	Volume 13, No. 11, 8922-8924.
	Indian Summer Monsoon Rainfall Extremes Projections Using Block Maxima Approach (2018)	International Journal of Applied Engineering Research (UGC Approved)	ISSN 0973-4562	Volume 13, No. 11, 8925-8928.
	Can statistical downscaling improve consensus among CMIP5 models for Indian	International Journal of climatology	ISSN: 0899-8418	https://doi.org/10.1002/joc.5352

	summer monsoon rainfall projections? (2018)	Royal Meteorological Society (RMetS)		Volume 38, issue 5, pp2449-2461
	Future Projections of Indian Summer Monsoon Rainfall Extremes over India with Statistical Downscaling and its Consistency with Observed Characteristics (2018)	Climate Dynamics (Springer Publications)	0930-7575	DOI: 10.1007/s00382-017-3604-2 Volume 51, Issue 1-2, pp 1-15.
Dr. D. Rajashekar Reddy	Rutting potential of asphalts using resilient modulus test parameters	Road Materials and Pavement Design, Taylor & Francis	1468-0629 (Print) 2164-7402 (Online)	Vol. 20, No.1 2019
	Analysis of Gap Acceptance, Capacity and Level of service at Un-signalized 'T' Intersection under Mixed Traffic Condition	International Journal of Technical Innovation in Modern Engineering & Science	2455-2585	Vol. 4, Issue 9 2018
Dr. R. Srinivasa Kumar	A Survey Report on Optimization Techniques of Pavement Maintenance in Road Network System	International Journal of Modern Engineering and Research Technology	2348-8565	Volume 5, Issue 1, January 2018
	Roughness Evaluation of Flexible Pavements Using Merlin and Total Station Equipment	i-manager's Journal on Civil Engineering	22311068	Vol. 8(1), 41-46, Feb, 2018
	Evaluation of Performance of Isolated Signalized Intersections and Design of Co-ordinated System by Using Vissim Software	International Journal of Emerging Technology and Advanced Engineering	2250-2459	Vol 8(5), pp.230-237, May 2018.
	A Study on Recycled Bituminous Pavement Material Using Bitumen VG-30	International Journal of Creative Research Thoughts	2320-2882	pp. 391-394, 2018
	Economic Analysis of Flexible Pavement by Using Subgrade Soil Stabilized with Zycobond and Terrasil	International Journal of Creative Research Thoughts	2320-2882	pp. 313-317, 2018
	Structural Evaluation of Rigid Pavement Using Falling Weight Deflectometer (FWD)	International Journal of Technical Innovation in Modern Engineering & Science	2455-2585	Volume 4, Issue 12, December-2018
	Development of Delay Equations At Signalized Intersections In Hyderabad	International Journal of Technical Innovation in Modern Engineering & Science	2455-2585	Volume 4, Issue 12, December-2018
	A Comparative Study of Road	International Journal	2455-	Volume 5,

	Alignment Survey Data Measured Using Unmanned Aerial Vehicle And Total Station	of Technical Innovation in Modern Engineering & Science	2585	Issue 1, January-2019
	An Empirical Capacity Model For Roundabouts Under Heterogeneous Traffic of Hyderabad	International Journal of Technical Innovation in Modern Engineering & Science	2455-2585	Volume 5, Issue 01, January-2019
	Traffic Flow Simulation and Development of Delay Models at Toll Plazas	International Journal of Technical Innovation in Modern Engineering & Science	2455-2585	Volume 5, Issue 2, February-2019
Mrs. S. Prasanna	Simulation of flows over an Air - Regulated Siphon Spillway	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684,p-ISSN: 2320-334X,	Vol. No. 15 Issue - 4, July - Aug, 2018
	Turbulence Modelling for Estimation of Hydraulic Jump Height	STM Journal of Recent Trends in Fluid Mechanics	ISSN 2455-1961	Vol. No. 5 Issue – 3, August, 2018
	Simulation of Flow Behaviour around Bridge Piers Using ANSYS – CFD	International Journal of Engineering Science Invention (IJESI)	ISSN (Online): 2319 – 6734, ISSN (Print) : 2319 – 6726	Vol. No. 7 Issue 9 Ver – III Sept - 2018
	Reproduction of Water Surface Profile Using ANSYS - CFD	International Journal of Engineering Science Invention (IJESI)	ISSN (Online): 2319 – 6734, ISSN (Print) : 2319 – 6726	Vol. No. 8 - Issue 5 – Version – 4, May - 2019
Dr. Harish Gupta	GIS-based prediction of groundwater fluoride contamination zones in Telangana, India	<i>Journal of Earth System Science</i>	2347-4327	128(5) 2019
	Prediction of daily sediment discharge using a back propagation neural network training algorithm: A case study of the Narmada River, India	<i>International journal of sediment research</i>	1001-6279	34(2) 2019

11. List of Publications in National Journals by Faculty

Faculty Name	Paper Title	Journal Name	ISSN No.	Volume No. & Year
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Prof. M. Gopal Naik	Management of Water Supply and Sewerage System in Hyderabad.	Journal of Indian Water Works Association		April-June, Edition,2019, Pp: 120-125.
	Evolutionary Design and Calibration of District Metered Area of Water Supply Network Systems Using Numerical Methods and Hydraulic Software	Journal of Indian Water Works Association	ISSN 0970-275X	Vol. L, No. 2, April-June, 2018.

12. List of Publications in International Conferences by Faculty

Faculty Name	Paper Title	Conference Name	ISBN No.	Volume No. & Year
Mrs. D. Annapurna	Effect of Different Aggregates on Alkali Silica Reaction of Geopolymer Concrete	International Conference on Emerging Trends in Engineering	--	UCE, OU, 22-23 March 2019

13. List of Publications in National Conferences by Faculty

Faculty Name	Paper Title	Conference Name	ISBN No.	Volume No. & Year
Prof. M. Gopal Naik	Water Sensitive Urban Design as Way Forward to Sustainable Water Management for Hyderabad City	All India Seminar on Water and Sanitation Management, Hyderabad, from March, 19-20, 2019, Telangana State Centre, IEI, India.		2019
Mrs. D. Annapurna	“Influence of Alkali Silica Reaction in Geopolymer Concrete ”	Advances in Sustainable Construction Materials	--	NIT Warangal, 15-16 March, 2019
Dr. Harish Gupta	Water Sensitive Urban Design as Way Forward to Sustainable Water Management for Hyderabad City	All India Seminar on “Water and Sanitation Management” Conducted by IEI (India)	NA	2019

14. List of Books / Proceedings Published by Faculty

Faculty Name	Title	Publisher Name	ISBN No.	Pages	Year of Publication
Prof. V. Bhikshma,	Two Day National	BS	978-93-	320	2018

Prof. P. Raja Sekhar & Prof. K. L. Radhika	Conference on Advanced Computing Applications in Civil Engineering (ACACE-2018)	Publications Hyderabad	87593-22-0		
Dr. K. Shashikanth	Proceedings of National Conference on Advanced Computing Applications in Civil Engineering held in April, 22-24, 2018, UCE, OU	BS Publications	9789387593220	339	2018
	62 nd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM 2017) , Dec 15-18, 2017.	ISTAM jointly with IIT Kgp and OU	-	75	2017
	Anamitra Saha, Kulkarni Shashikanth and Subimal Ghosh (2018) “Changing monsoon behavior with the evaluation of CMIP5 climate models” in book titled “ Sustainable holistic water resources management in a changing climate, Jain Brothers, New Delhi, ” as a book chapter edited by Srinivasa Raju, K., Vasana, A. (Eds.) M/S Jain Brothers, New Delhi. ISBN: 978-81-8360-253-2.				
Dr. R. Srinivasa Kumar	Introduction to Traffic Engineering	Universities Press Pvt Ltd	978-93-86235-47-3	832	June 2018

15. Guest Lecturers delivered by Faculty

Faculty Name	Details of Lecture	Name of Organization	Date
Prof. M. Gopal Naik	Wastewater Treatment Technologies-Advanced Treatment	Andhra Pradesh Human Resource Development Institute (Govt. of AP)	13.06.2019 to

	Options		15-06-2019
Prof. M. Anjaneya Prasad	Water Auditing and Unaccounted flow of Water (Case Study) 2 Guest Lectures	Environment Protection Training and Research Institute, (EPTRI) Hyderabad	2-11-2018
Prof. P. Raja Sekhar	How to Conduct Literature Survey and Review & Defining Research Problem	Dept. of Mech. Engg., OU, Hyd	18-22 June 2018
Dr. M. V. S. Sreedhar	Geosynthetic Materials - Geotextiles-Types and properties	ESCI, Hyderabad	20.06.2018
	Lecture-demonstration on Geotechnical Engineering Laboratory tests	ESCI, Hyderabad	21.06.2018
	Application of Geosynthetics in Ground Improvement	NIT, Warangal	01.10.2018
	Geotechnical Investigations & Ground Improvement Techniques in Infrastructure Development	NAC, Hyderabad	29.11.2018
	Geotechnical Investigations for Reinforced Soil Structures	NIT, Warangal	30.01.2019
	Foundations of Tall Structures	NAC, Hyderabad	28.05.2019
Dr. K. Shashikanth	Use and Applicability of General Circulation Models in the Simulation of Climate System	5 th National Conference on Sustainable Water and Environment Management (SWEM-17)	June 4-6, 2018.
	Hydrological Flood studies including Routing Techniques	Workshop on Hydrology for Engineers from Water Resources Dept , Govt of Karnataka	30 and 31 January, 2018.
	Climate change and extreme events – Framework for rainfall extreme Projections under Climate Change –	Two (2) day refresher training programme on “Climate Change Mitigation: Role of Forestry & sinks with in Clean Development Mechanism Framework” for Indian Forest Service	29 January, 2019

	Climate modeling.	(IFS) officers by the Ministry of Environment Forests and Climate Change (MoEF & CC), Government of India.	
	Introduction to water audit softwares: PODIUMSim and AWWA software and EPANET software	Green Skill Development Program (GSDP) - Certificate Course on Water Budgeting and Auditing	31.10.2018
	Introduction to water audit softwares: IWMI software and SCADA	do	31.10.2018
	Climate Modeling and Projections on Climate Change	CPCB, Sponsored Global Warming, Climate Change and Disaster Management-Future Perspective	26th to 28th November 2018.
	Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	04-02-2019.
	Regional Simulations of Indian Monsoon & GCM Data and Future Climate Conditions	Short Term Training Programme on: Capacity Building for Interdisciplinary Research on Climate Change	14.11.2018
	Indian Technical and Economic Cooperation (ITEC) programme by Ministry of External Affairs on 'Climate Change and Sustainable Development'- International Programme	Climate Change and extreme events, Framework for rainfall extreme projections under climate change &	17.12.2018

		climate modelling	
	Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	08.03.2019
	Impact of climate change	Climate UGC – Human Resource Development Centre as a Resource Person and address the participants of the 105 th Orientation Course	06.03.2019
	Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	21.02.2019
	Climate change and extreme events – Framework for rainfall extreme Projections under Climate Change – Climate modeling	EPTRI training program under Indian Technical & Economic Cooperation (ITEC) by Ministry of External Affairs, Government of India on on ' Integrated approach to climate change policy development and financing for effective implementation of SDG goals '	20.03.2019
Dr. R. Srinivasa	1. Overview of Accidents Scenario 2. Crash Data Collection	In Kochi,	February

Kumar	3. Forensic Investigation of Crashes 4. Statistical Analysis of Crash data and Road Network 5. Report Preparation and Identification of Mitigation Measures Title of the Workshop: <i>Road Crash Data Analysis and Investigation</i> : Sponsored by The Ministry of Road Transport and Highways (Transport Wing), Government of India, New Delhi.	By Engineering Staff College of India, ESCI, Gachi Bowli, Hyd.	2019
Dr. Harish Gupta	Earth Day Lecture entitled as “Earth Day 2019: Protect Our Species”	DSM Group (Multinational Company) APIIC Software Layout, Madhapur, Hyderabad	April 17, 2019
	Expert Lecture in Short Term Course on Disaster Management entitled as “Introduction to Disaster Management”	HRDC OU	Feb 25, 2019
	Expert Lecture in Advanced Training program on Analytical Geochemistry, entitled as “Tracing the Earth Surface Processes and Climate Moderation: Insights from Riverine Geochemistry”.	CSIR-NGRI , Hyderabad	Feb 20, 2018

16. Conferences / Workshops / Seminars / Trainings organized by Faculty

Faculty Name	Title	Venue	Dates	Sponsored by
Prof. M. Gopal Naik	World Water Day-2019	University College of Engineering, Osmania University, Hyderabad on	March, 22 nd , 2019	TEQIP-III
	One Day Induction Programme for parents of First year B.E. Engineering students,	University College of Engineering, Osmania University, Hyderabad on	1st September, 2018.	TEQIP-III
Prof. M. Anjaneya Prasad, Prof. P. Raja Sekhar	Work Shop on Engineering Research Methodology (Ph D Scholars of Civil Engg. & I.T.)	Civil Engineering Department	06-05-2019 To 10-05-2019	U.C.E, O.U
Prof. M. Anjaneya Prasad, Prof. P. Raja Sekhar & Dr.	B.E (Civil) VI-Semester students visited Palamuru-Rangareddy Lift Irrigation		17 th February, 2018	

K. Shashikanth	Project as a part of industrial visit			
Prof. P. Raja Sekhar, Dr. K. Shashikanth & Ms. S. Prasanna	Educational Visit of V semester students to ICRISAT			
Prof. P. Raja Sekhar, Prof. K. L. Radhika, Dr. K. Shashikanth & Mrs. S. Prasanna	Two Day National Conference on Advanced Computing Applications in Civil Engineering (ACACE-2018)		20 th & 21 st April, 2018	
Dr. M. V. S. Sreedhar & RR	ICETE-2019 UCE(A), OU		22-23, March-2019	Alumni Association UCE, OU
	GeoApps-2019 IITH		30.03.2019	IGS, Hyderabad chapter
Dr. D. Rupesh Kumar	Academic-Industry-Practitioner Colloquium	Department of Civil Engineering, UCE (A), OU, Hyderabad	24 January, 2019	ICI-HYDC & ICI-OU Student Chapter, Hyderabad, T.S.
	One-Day Workshop on Unexplored Possibilities in Civil Engineering Profession	Department of Civil Engineering, UCE (A), OU, Hyderabad	24 January, 2019	ICI-HYDC, Hyderabad, T.S.
Mr. R. Rajender & PA LA	One Week Faculty Development Programme on "Finite Element Analysis using MIDAS Software (Hands on Experience)" during 12-16 March 2019			

17. Workshops / Seminars / Trainings / Courses attended by Faculty

Faculty Name	Title	Venue	Dates	Sponsored by
Prof. M. Gopal Naik	Five Days Professional Development Training Programme	IIM Shillong	10.09.2018 to 14.09.2018	NPIU, MHRD TEQIP-III
Prof. M. Anjaneya Prasad	Faculty Development Program	Attended to IIM Udayapur under TEQIP - II	19-01-2019 To 21-01-2019	TEQIP-III
Dr. M. V. S.	Hands on Experience course on	CED,		Teqip-III

Sreedhar	MIDAS Software	UCE(A),OU		
Dr. K. Shashikanth	Three Week Refresher course on Regional Hydrology of floods at G.B. Pant University of Agriculture and Technology, 8 th January 2018 to 19 th January 2018.			
	3 Week Summer School at UGC HRDC JNTUH (05.06.2017 to 24.06.2017) on Strategies for Research oriented Teaching			
	Regional Workshop on “National Water Mission (NWM) sponsored one day work shop on State Specific Action Plan (SSAP) on Water for sustainable development and management of its water resources. National Institute of Hydrology (NIH) and North Eastern Regional Institute of Water and Land Management (NERIWALM) are the nodal agencies deputed to carry out SSAPs in all the states of India on 5.10.2018.			
	U.S- India Partnership for Climate Resilience Workshop on High-Resolution Climate Projections and Analysis for India, February 12 - 13, 2018 at EPTRI, Hyderabad.			
Mr. R. Rajender & PA	ten (10) days GIAN course on “Seismic Performance Assessment of Structures through Numerical and Hybrid Simulations” from July 02-12, 2018 at IIT Hyderabad			
Dr. Harish Gupta	Guest lecture on Technology Metamorphosis in Mining: Field Work to Digitalization	Dept. of Civil Engineering	May 9, 2019	TEQIP
	World Water Day Seminar	Dept. of Civil Engineering	March 22, 2019	TEQIP
	Guest lecture on Environmental	Dept. of Civil	Feb 22,	TEQIP

	Sustainability	Engineering	2019	
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18. Achievements /Awards of Faculty

Faculty Name	Achievements / Awards
Prof. M. Gopal Naik	Best Faculty Award, EET CRS Science & Technology Awards-19, Bangalore – 560020, India, http://educationexpo.tv/sciencetechnologyawards
Prof. M. Anjaneya Prasad	Research Under Literal Access Award Best Researcher in CIVIL ENGINEERING by RULA International on 12th November 2018
Dr. K. Shashikanth	Awarded Ideal teacher award by TUTORS PRIDE

19. Key Note Lectures and Session Chair by Faculty

Faculty Name	Details of Lecture	Conference Name	Name of the Organization	Dates
Prof. M. Anjaneya Prasad	Sediment yield prediction using feed forward back propagation neural network with sigmoid transfer function and radial basis neural network with Gaussian Transfer Function in a watershed of south east India.”	Reviewed a Paper to special Edition Paper	“ISH Journal of Hydraulic Engineering”	July 2019
Dr. M. V. S. Sreedhar	Chaired, Session-III	Young researchers symposium for Geotechnical Engineers	NITW	01.10.2018
	Chaired, Session-IV	Continuing Education Program on Geosynthetics in Infrastructure Development	NITW	30.01.2019
	Chaired, Session-V	ICETE-2019	CED, UCE(A),OU	23.03.2019
	Chaired, Session-III	GeoApps-2019	IIT, Hyderabad	30.03.2019

Dr. K. Shashikanth	Ranking of GCMs based on Bayesian Model for ISMR	National conference on Water, Environment and Society at JNTU Hyderabad	IST, JNTUH	21-23, Dec, 2017
	Use and Applicability of General Circulation Models in the Simulation of Climate System	National conference on Water, Environment and Society at JNTU Hyderabad	IST, JNTUH	June, 4-6, 2018
Dr. D. Rupesh Kumar	Ten lectures on RCC Designs	Two Day FDP on “Reinforced Concrete Designs”	Gurunanak Institutions, Ibrahimpatnam, Hyderabad	17-18 June, 2019
Mrs. S. Prasanna	Presented a Paper on “Replication of Peak Surge Height”	All India Seminar on “Water and Sanitation Management”	The Institute of Engineers (India), Telangana State, Visvesvaraya Bhavana, Khairatabad, Hyderabad	19 – 20 March, 2019
	Presented a Keynote on “Applications of ANSYS – CFD to Flow Problems”	6 th National Conference on Water, Environment & Society (NCWES – 2019)	Centre For Water Resources /Institute of Science and Technology, JNTUH	5 – 7 June, 2019
	Co - Chaired Technical Session - IV			
Dr. Harish Gupta	Title of Keynote lecture: Water Sensitive Urban Design as Way Forward to Sustainable Water Management for Hyderabad City	All India Seminar on “Water and Sanitation Management”	IEI (India)	March 19, 2019

20. List of Ph.D awarded

Faculty Name	Student Name	Title of Thesis	Year
Prof. M. Gopal Naik	B. Rameshwar Rao	Evaluation of Distributed Water Supply Network System and District Metered Area Using Genetic Algorithms and Hydraulic Modelling	2018
	Qamar Sultana	Simulation of Reservoir Sedimentation of Sriramsagar Reservoir	2018

	G. Srinivas	Urban watershed modelling using remotely sensed data and Geographical Information System	2018
Prof. M. Anjaneya Prasad	M. Satyanarayana	Multi Reservoir Operation - Reliability Study for Hyderabad Water Supply System	7th July 2018

21. Student Achievements

Student Name	Achievement

22. Industry and Institute Interaction

Our students of B.E 3/4 undertake Summer Internship of 6 weeks duration at different companies of Civil Engineering. In this connection the various companies offered Internship to our students during the recently concluded summer include the following

1. AARVEE Associates
2. NCC
3. SS Consultants
4. Murthy and Manyam Consultants
5. HGCL
6. G Group
7. Ultratech
8. Adarshila Consultants

During the internship the students are exposed to various facets of practical works needed in Construction Companies such as Preparation of M-Books recordings, Surveying, preparation of estimates and analysis and design of building structures. Our faculty has wide exposure in various fields of Civil Engineering which include analysis and design of Industrial Structures, bridges and Residential buildings. This apart the faculty members are also expertise in Quality assessment of water, Irrigation Structures, Water Resources Related Consultancy Projects, transportation engineering related Consultancy projects. The department also undertakes consultancy works in Geotechnical specialization. Our faculty holds responsible positions in APPSC and UPSC. The faculty also inspects various institutions at the behest of Government of India and UGC.

23. NIRMAN 2019

It is a National Technical Symposium organized exclusively by the Department students for their counterparts from various colleges in the country. Besides technical paper presentation by the student delegates, NIRMAAN organizes competitions like technical quiz, technical cross words, design and modeling of structures etc. to encourage and tap the talent potential of budding civil engineers. Attractive prizes are awarded to the

winners of various competitions. So far the Department has organized NIRMAAN event 14 times since 2002 and each year this prestigious event receives over hundred delegates. The students of the Department are immensely benefited by the event in terms of development of organizational and leadership capabilities besides expanding their relationship with the student community from various colleges. The programme was organized under the guidance of **Dr. K. Shashikanth** (Faculty Member of the Department).



Two Day National Level Student Technical Symposium NIRMAAN 2019, 1-2 March, 2019



Inauguration of Main Model during NIRMAAN 2019



One Week Faculty Development Programme on Finite Element Analysis using MIDAS Software (Hand on Experience), 12-16 March, 2019



Alumni Talk by Mr. G. Suneel Kumar, Managing Partner of Gorle Group on 20.03.2019



Released the brochure for “HYDRO-2019” International Conference on 08.04.2019



Felicitation Programme to our student Mr. B. Sudheer Kumar on his success in the Civil Services Examination on 04.05.2019



Organized a 5-Day workshop on Engineering Research Methodology during 05-10 May, 2019