

**KLEF**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**Newsletter, January-March 2020**

## Workshops/Seminars

**Dr. P. Brahmaji Rao**, Head, Environmental Sciences, ANU and **Dr. P. Raghuram**, Coordinator, WET Research Centre, SRKREC had convened Subject Based Seminar in the area of Environmental Engineering on “Importance of Wetlands” on 2<sup>nd</sup> February, 2020



**Prof. Ch. Mallikarjuna**, Professor & Dean (Student Affairs), IIT Guwahati had convened a subject based seminar in the area of Transportation Engineering on “Road Safety and Traffic Engineering” on 28<sup>th</sup> February, 2020.

**Dr. D. Rama Seshu**, Professor, Civil Engineering Department, NIT Warangal had convened a Subject Based Seminar in the area of Structural Engineering on “Health Monitoring of Structures” on 29<sup>th</sup> February, 2020.

**Er. Gridhar Kolli**, Managing director, Vasudha Enviro Labs pvt Ltd, Vijayawada convened a Subject Based Seminar in the area of Water Resources and Environmental Engineering on “Opportunities in Environmental Engineering and Public Health” on 29<sup>th</sup> February, 2020,

## Events

### CIVIL FEST 2020

Civil Engineering Association of Civil Engineering Department had organized CIVIL Fest 2020 on 20<sup>th</sup> March 2020, in which various events like Project Expo, Technical Quiz, Mr & Mrs CIVIL, Poster Presentation were conducted.



### Awareness program on “Applications of White Cement and its allied products”

The Department of Civil Engineering in association with J K Cement Ltd conducted an awareness program on “Applications of White Cement and its allied products” by Mr.V B Nijampure Garu (Zonal Head-Customer Technical Services) on 6<sup>th</sup> January 2020. III/IV ,IV/IV B. Tech and M. Tech students participated in this program.

## Guest Lectures

**Mr. A. Satish**, Advisor, K L Academy of Competitive Exam had delivered a lecture on “Career Prospect in M.Sc Geology” for IV/IV B.Tech Students on 29<sup>th</sup> January 2020.

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### **Industrial Visits**

Department of Civil Engineering organized visit to Greekolite Light weight Blocks manufacturing unit on 1<sup>st</sup> Feb 2020 for III/IV B.Tech and M.Tech( CTM) students, where they were briefed by Er. G. Sriram about the manufacturing process like Batching, cutting, curing and bottom cutting .

Department of Civil Engineering organized a visit to Water Treatment Plant and Sewage Treatment Plant , Ajith Singh Nagar Vijayawada on 7th March,2020 for II/IV B.Tech students. Students were briefed by Er.Venkatesh AEE about treating of water using sedimentation and coagulation with six units of rapid sand filtration.

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### **Alumni Meeting**

Students of Y10 batch visited campus on January 7<sup>th</sup>, 2020 and had a meeting with all faculties who taught them and interacted with students and faculty .





## Students Achievements/External Participation

**Mr.SK.Rameezuddin** of IV/IV B.Tech had secured II Prize in Group Discussion at “ SITAR 2K20 ( A National Level Techno -Cultural Fest)”on 25<sup>th</sup> January 2020, Organized by Prasad V.Potuluri Siddhartha Institute of Technology

**Mr.SK.Rameezuddin** of IV/IV B.Tech had secured II Prize in Personality Contest at “ SITAR 2K20 ( A National Level Techno -Cultural Fest)” on 25<sup>th</sup> January 2020,Organized by Prasad V.Potuluri Siddhartha Institute of Technology

**Mr.P.Mohan Anjani Kumar** of I/II M.Tech had secured II Prize in Technical Quiz at “ SUNRISE 2020 ( A Two -Day National Level Techno -Cultural Fest)” on 6<sup>th</sup> -7<sup>th</sup>,February ,2020 Organized by NRI Institute of Technology, Pothavarappadu

**Mr.V.Punna Reddy** of I/II M.Tech had secured II Prize in Technical Quiz at “ SUNRISE 2020 ( A Two -Day National Level Techno -Cultural Fest)” on 6<sup>th</sup> -7<sup>th</sup>, February ,2020 ,Organized by NRI Institute of Technology, Pothavarappadu

**Mr.CH.Anand Babu** of I/II B.Tech had secured II Prize in Technical Quiz at “ SUNRISE 2020 ( A Two -Day National Level Techno -Cultural Fest)” on 6<sup>th</sup> -7<sup>th</sup>, February ,2020 ,Organized by NRI Institute of Technology, Pothavarappadu

**Mr.D.Girish** of I/II B.Tech had secured II Prize in Paper Presentation at “ SUNRISE 2020 ( A Two -Day National Level Techno -Cultural Fest)” on 6<sup>th</sup> -7<sup>th</sup> February ,2020 ,Organized by NRI Institute of Technology ,Pothavarappadu

**Mr.SK. Rameezuddin** of IV/IV B.Tech had secured I Prize in JAM Event at “ SUNRISE 2020 ( A Two -Day National Level Techno -Cultural Fest)” on 6<sup>th</sup> -7<sup>th</sup> , February ,2020 ,Organized by NRI Institute of Technology ,Pothavarappadu

**Mr.SK. Rameezuddin** of IV/IV B.Tech had secured II Prize in Elocution at “ SITAR 2K20 ( A National Level Techno -Cultural Fest)” 25<sup>th</sup> January 2020,Organized by Prasad V.Potuluri Siddhartha Institute of Technology.

**Mr.K. Harsha** of IV/IV B.Tech had secured I Prize in Phil Harmony at “ AFOSEC 2020( A National Level Techno -Cultural Fest) “ on February 19 &20<sup>th</sup> Organized by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada

**Mr.SK.Rameezuddin** of IV/IV B.Tech had secured II Prize in GAB FAB at “AFOSEC 2020( A National Level Techno -Cultural Fest)” on February 19 &20<sup>th</sup> Organized by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada

**Mr.N.Naga Praveen** of III/IV B.Tech had been conferred with SAFTEY AWARD by Tata Projects LTD on 12<sup>th</sup> March 2020 on the occasion of 49 th National Safety Week Campaign 04-12 March 2020.

**Mr.K.Darshan** of III/IV B.Tech had secured III Prize in AQUANOMICS at “CEA FEST 2020” on March 6-7<sup>th</sup> ,2020 Organized by Civil Engineering Association ,IIT Chennai.

**Mr.B.Revanth** of III/IV B.Tech had secured III Prize in AQUANOMICS at “CEA FEST 2020” on March 6-7<sup>th</sup> ,2020 Organized by Civil Engineering Association ,IIT Chennai.

**III/IV B.Tech** students attended National Workshop on “Ground Water Resources in Different Terrains-Conservation and Management(GWRDT CM-2020)” on February 20 ,2020 at Nagarjuna University ,Nagarjuna Nagar.

**III/IV and IV/IV B.Tech** students attended “One-Day Workshop on Pre-Engineered Buildings” on January 1 ,2020 at Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada.

## **Conferences/Workshop**

**Dr.A..Aravindin** 'International Conference on Future Generation Functional Materials and Research 2020 - (ICFMR 2020)' Organized by Pace Institute of Technology And Sciences (PACE ITS) ,Valluru ,Ongole.on 12-14th March 2020.

**N.Lingeswaran** 'International Conference on Future Generation Functional Materials and Research 2020 - (ICFMR 2020)' Organized by Pace Institute of Technology And Sciences (PACE ITS) ,Valluru ,Ongole.on 12-14th March 2020

**J.D.Chaitanya, T.Venkat Das**, “One-Day Workshop on Pre-Engineered Buildings” on January 1<sup>st</sup> ,2020 at Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada.

**J.D.Chaitanya ,T.Venkat Das ,Dr,B.Sarstha Chandra Kumar** SPARC Workshop on “Sustainability and Durability of Concrete Structures with By-Products and Recycled Materials on January 17<sup>th</sup> &18<sup>th</sup> ,2020 at IIT Madras Research Park ,Chennai.

**Dr. B. Sarath Chandra Kumar, Mr. I. Siva Kishore**, One - Day workshop on “ Precast Concrete Light Weight Large EPS Panels for Mass Housing”, During 2<sup>nd</sup> March 2020, CSIR-Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai, Tamilnadu, India.

**Dr. B. Sarath Chandra Kumar** One - Day workshop on “ Robust Structural Health Monitoring Technologies for Critical Infrastructure”, During 4<sup>th</sup> March 2020, CSIR-Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai, Tamilnadu, India.

**V.Ranga Rao**,“Sustainable Materials and Green Buildings”, Guest Lecture SR Engineering College , Warangal, Telangana, 8<sup>th</sup> February 2020.

## Faculty Publications

### Conferences

Dodda Sravanthi, Y. Himath Kumar, **B. Sarath Chandra Kumar**, “Comparative Study on Flow Characteristics, Strength and Durability of GGBS Based Geopolymer Concrete” During 24<sup>th</sup> – 29<sup>th</sup> February 2019, 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering (ICAME 2020), SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India.

A Raziya Tasneem, **B Sarath Chandra Kumar**, Y Himath Kumar, “Service Life Prediction of Geopolymer Concrete with Respective to Chloride Ion Penetration” During 24<sup>th</sup> – 29<sup>th</sup> February 2019, 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering (ICAME 2020), SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India.

Pulikonda Suman, **B. Sarath Chandra Kumar**, “Strengthening of RC Beams with M-Sand Using External Bonding of Steel Plates” During 24<sup>th</sup> – 29<sup>th</sup> February 2019, 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering (ICAME 2020), SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India.

Vaddeswaram Sangeetha, **B Sarath Chandra Kumar**, Y. Himath Kumar “Effect of Ferrocement Wrapping System on Strength and Behaviour of Geopolymer Concrete Beam” During 24<sup>th</sup> – 29<sup>th</sup> February 2019, 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering (ICAME 2020), SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India.

Paruchuri Venkata Rao, **B. Sarath Chandra Kumar**, “Influence of Carbon Steel Fibers on the Flexural Crack width of RC Beam” During 24<sup>th</sup> – 29<sup>th</sup> February 2019, 3<sup>rd</sup> International Conference on Advances in Mechanical Engineering (ICAME 2020), SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India

**Durga Chaitanya Kumar Jagarapu**, “Flexural Behavior of Fiber reinforced Concrete incorporation with Lathe Steel Scrap”, During March, 12-14. International conference on future generation functional Materials and Research – 2020 (ICFMR 2020) PACE Institute of Technology and Sciences, Andhra Pradesh, India.

**Durga Chaitanya Kumar Jagarapu**, “Strength and Durability study of Light Weight Fiber Reinforced Concrete With Agriculture Concrete”, During March, March 6<sup>th</sup> and 7<sup>th</sup> 2020. International Conference on Advanced Lightweight Materials & Structures (ICALMS-2020), CMR Technical Campus, Hyderabad, Telanga State, India

## Journals

N. Lingeshwaran ,P. Poluraju “Analytical study on seismic performance of bed joint reinforced solid brick masonry walls” *Materials Today: Proceedings* , <https://doi.org/10.1016/j.matpr.2020.03.528>.

Tunuguntla Lokesh Balaji, **Dr. V. Ranga Rao** “Contrastive Inquest and Cost Estimation in RCC Flat Slabs and Post-Tensioned Slabs Using ETABS Software.” *Test Engineering And Management: ISSN: 0193-4120 Page No. 17997 - 18005 , Volume 83 Publication Issue: March - April 2020.*

Rompicharla Dinesh, **Dr. V. Ranga Rao** “Sustainable Design of Post Tensioned Flat Slab over RCC Slab in Commercial Building.” *Test Engineering And Management: ISSN: 0193-4120 Page Number: 15620 - 15628, Volume 83 Publication Issue: March - April 2020*

Pradeep Kosaraju, **Dr. V. Ranga Rao** “Finite Element Modeling of Prestressed concrete and Reinforced Concrete Rectangular Beams.” *Test Engineering And Management: ISSN: 0193-4120 Page No. 15531 - 15540, Volume 83 Publication Issue: March - April 2020*

B. Pavan Prasad, P. Sai Maanvit, **Durga Chaitanya Kumar Jagarapu** and Arunakanthi Eluru, “Flexural Behavior of Fiber reinforced Concrete incorporation with Lathe Steel Scrap”, *Materials Today: Proceedings, Article is in press. https://doi.org/10.1016/j.matpr.2020.03.793*

Hemanth Balineni, **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Analysis of Dry and Wet Connections in Precast Beam-Column Joint Using Abaqus Software”, *Materials Today: Proceedings, Article is in press. https://doi.org/10.1016/j.matpr.2020.04.073*

B Pavan Venkata Naga Sai, **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Assay of Moment Resisting Precast and Monolithic Frames using ABAQUS Software”, *Materials Today: Proceedings, Article is in press. https://doi.org/10.1016/j.matpr.2020.03.735*

Lakshmisupriya Kanamarlapudi, **Durga Chaitanya Kumar Jagarapu** and Arunakanthi Eluru, “punching shear resistance of supplementary cementitious concrete slab”, *Materials Today: Proceedings*, Article is in press. <https://doi.org/10.1016/j.matpr.2020.03.193>

Shaik kalesha, **Durga Chaitanya Kumar Jagarapu**, “An Analytical study On Pre Engineered Buildings”, *Materials Today: Proceedings*, Article is in press. <https://doi.org/10.1016/j.matpr.2020.04.076>

Krishna Bhanu Jonalagadda , **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Experimental analysis on supplementary cementitious materials with Alkali Resistant glass fibers”, *Materials Today: Proceedings*, Article is in press. <https://doi.org/10.1016/j.matpr.2020.03.209>

Lakshmisupriya Kanamarlapudi, Krishna Bhanu Jonalagadda, **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Different mineral admixtures in concrete: a review”, SN Applied Sciences (2020) Vol.2, Issue: 4:760, <https://doi.org/10.1007/s42452-020-2533-6>.

Krishna Bhanu Jonalagadda, **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Experimental study on mechanical properties of supplementary cementitious materials”, *Materials Today: Proceedings*, Article in Press. DOI: 10.1016/j.matpr.2020.01.474

Lakshmisupriya Kanamarlapudi, **Durga Chaitanya Kumar Jagarapu**, Arunakanthi Eluru, “Experimental analysis of supplementary cementitious materials with glass fibers”, *Materials Today: Proceedings*, Article in Press. 10.1007/s42452-020-2533-6

S. Sri Harsha , **Sunny Agarwal** ,C Hari Kiran “Regional Flood Forecasting using SWMM forUrban Catchment.” *International Journal of Engineering and Advanced Technology (IJEAT)*. ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020.

Arun Kumar, P. V., **Agarwal, S.**, & Ramanamurthy, P. V. (2020). “Forecasting regional scale rainfall and temperature using statistical downscaling model. ” *Test Engineering and Management*, vol. 83, no.2, pp. 9226–9235.

V. Kiranmayee, **A.Aravindan**, Dr Hamraj “A Review on Mechanical Strength of Fibre and Hybrid Fibre Reinforced Geopolymer Concrete”*Jour of Adv Research in Dynamical & Control Systems*, Vol. 12, Special Issue-02, 2020.

Koka Sai Madhulika, **A Aravindan**, MD Ahmed Alisha Soil Pollution Index (SPI) for an Area of 10 Km Radius from the Proposed Carbon Black Manufacturing Unit at Pudi Village, Rambilli Mandal, and Visakhapatnam District *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ,ISSN: 2278-3075, Volume-9 Issue-3, January 2020

Jitendra, K., **Veerendrakumar C. Khed.** "Optimization of concrete blocks with high volume fly ash and foundry sand." *Materials Today: Proceedings* (2020).



Srikakulam, Lakshmi Meghana, **Veerendrakumar C. Khed** "Experimental investigation on the strength parameters of rubberized engineered cementitious composite with M sand." Materials Today: Proceedings (2020)

Mahalakshmi, S. Hima Venkata, **Veerendrakumar C. Khed**. "Experimental study on M-sand in self-compacting concrete with and without silica fume." Materials Today: Proceedings (2020).

K Perumal a, A Kumar b, **N Lingeshwaran** c, Sambaraju Susmitha Experimental studies on flexural behaviour of self compact concrete beam, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.03.319>

## Special NSS Camp by NSS Volunteers

NSS Volunteers of Department of Civil Engineering Organized 4 day special NSS Camp(29<sup>th</sup> January-1<sup>st</sup> February 2020)in the village of revandrapadu. During which they organized Swachh Bharat, Medical camp, Computer Awareness programme for elementary school





students, undertaken repair works of deteriorated bridge at Revendrapadu.

### New Faculty Entrants

Dr. Syed Hamim Jeelani: An Assistant Professor at the Department of Civil Engineering. Dr. Hamim earned a bachelor's degree in Geology from the University of Delhi and then went to the Central University of Karnataka for Post-Graduation in Applied Geology and Geoinformatics and remained there to earn a PhD in Geology, which was awarded in Oct 2019. He was an Erasmus fellow for the year 2018 and visited the University of Tartu, Estonia for six months. He is a young and dynamic personality having an excellent academic record with his pure hard work and dedication. To add to his achievements, he was conferred with the Young Scientist Award for his outstanding work in one of the various national level conferences he has participated in. He has several articles published at the national and international levels which includes a book.



My teaching experience at KLU has been the most inspiring in many years. I could not have asked for better peers and senior faculties, some of the finest academic minds drawn from top universities and I felt supported from day one, interactions with them gave me the confidence I needed to keep progressing. I joined on the very last day of February 2020 and was starting to experience the various aspects of being a regular

faculty in KLU. The lush green campus offering the best academic and physical infrastructure, the serene academic ambiance, and the enthusiasm and quality of students made me mesmerized. But as the whole world went into a sudden pause due to the pandemic COVID 19, the campus experience was just got frozen. But, K L University unlike others has been consistent in keeping up with all the academic activities intact. It came out with brilliant plans, conducted semester exams, Entrance Exams for the newcomers, so that the educational quality is not affected. Sessions like Faculty Orientation programs, Online Webinar series, etc. are being conducted so that the enthusiasm of faculties may not be diminished a bit and making them able to contribute their best to the students.

I have always heard that three things are the most important strengths of academic life- Relationships, Planning, and Time management. This, in almost two months of my journey as a member of the KLU family has proved me. I wish from the core that the pandemic and related effects shall subside soon and that we get plugged into real classrooms soon.