

Recent Activities Under The Chapter

1. Career Opportunities for Civil Engineering Students in Public Sector

On the 10th of September, the Institute of Engineers (India) Civil Chapter TKMCE along with the Civil Association TKMCE organised a webinar on Career Opportunities for Civil Engineering students in the Public Sector. The key speaker was Ms. Aarya K R, the corporate relations manager of Civilianz - the best coaching centre in Kerala exclusively for various civil engineering exams. The event saw a huge participation of over 500 attendees at a time, with the registrations crossing 650 at the end of the three day period when the registration form was floated. The event was a great success as evidenced by the high participation and great feedback from all categories of participants ranging from M.Tech and B.Tech pass-outs to second year civil engineering students. The event was made available to all interested participants free of cost, thanks to Civilianz not charging for their services. The webinar was conducted over Zoom from 11:00 am to 1:00 pm and English language was chosen as the medium of communication. The webinar is the first of many promising endeavours of the IEI TKMCE Civil Chapter for the year 2020-21.

Staying on schedule, the webinar started at 11 AM and came to an end by 1:00 PM; the interactive session being extended beyond the allotted 15 minutes by half an hour to accommodate the queries of more than 500 participants in attendance. The IEI Civil Chapter TKMCE technical head, S Nishanth Chakraverthy hosted the event. After extending a warm welcome to all present, he invited the Head of the Department (HOD) of Civil Engineering, Dr. M Sirajuddin Muhammed to say a few words. Owing to unavoidable duties, the HOD could not make an online appearance. However, he had sent a pre-recorded video felicitating the IEI staff advisor Dr. Adarsh S and Civil Association staff-in-charge Prof. Hazeena R and the IEI coordinators and members for organising the webinar considering the situation. The HOD elaborated on the effect of the COVID-19 pandemic on the job opportunities

and the economy. He also thanked Civilianz for sparing the time and resources to conduct such a useful talk for the aspiring civil engineers. Lastly he had three words of success to share with the participants — know more than the others, work more than the others, and expect less from others.

Riding on the enthusiasm for knowledge shared by the HOD, the host invited the key speaker of the event, Ms. Aarya K R to take over. She took the audience through the various job opportunities and competitive exams starting with the GATE through the Engineering Services Exam (ESE), Kerala PSC, SSE and RRB to ISRO scientist exams and assistant professor and lecturer exams. An in-depth insight into each type of exam with its test paper pattern, stages of the selection process and qualification benefits was imparted over the course of the next 45 minutes. The government departments and public sector agencies recruiting based on these exams and the entry level salary packages prevailing now in each post were mentioned.

The second part of the session involved a short assessment test for the participants, tips to prepare for the exams and an interaction session. The assessment test was conducted through the learning platform of Civilianz called the CivilApp. After the participants had attempted the test, Ms. Aarya discussed the questions and imparted tips to remember the important information required to answer those questions correctly, which could be applied to other topics as well. The speaker, then, gave an overview of their Institute – Civilianz -the courses they offer and their highly anticipated quiz conducted every year in Association with Indian Concrete Institute (ICI) and Swadeshi Science Movement. The quiz, this year, is planned to be a grand affair conducted on the 15th of September, preceded by a three day webinar series where eminent personalities from the government departments and famous companies like Padmasree G Shankar of Habitat Technology Group will be imparting knowledge on Building by Laws. The Engineer's day will see IIT Guwahati director Dr. T G Sitharam talking on Water Scarcity to Security followed by the grand, fully online quiz. The Q&A session that followed saw the

participants clarifying their doubts regarding the competitive exams of their choice and higher studies options. Ms. Aarya replied to each of the queries in the session and promised help afterward too.

The vote of thanks was delivered by Akshay Kumar, the third year representative of IEI Civil Chapter TKMCE. He, on behalf of the IEI Civil Chapter and Civil Association TKMCE, thanked the HOD Dr. Sirajuddin, the IEI Staff Advisor Dr. Adarsh S and Civil Association Staff-in-charge Prof. Hazeena R and the entire Civil Department for their encouragement in all endeavours. He also expressed gratitude to Civilianz for extending their services absolutely free of cost and to Ms. Aarya K R, in particular, for the informative session she handled. Lastly, he thanked all the participants for maintaining the decorum of the event and God Almighty for ensuring a fine morning. The host, Nishanth, concluded the webinar wishing everyone a safe lockdown.

The programme turned heads not only with its participation but also the quality. The feedback forms showed the participants giving the event an average rating of 4.5/5 for the overall conduct, with all participants expressing a desire to attend such future events.

IE(I) Student's Chapter (Civil)
in association with
Civil Engineering Association
T K M College of Engineering



webinar on

Career Opportunities for Civil Engineers in Public Sector

Conducted by



Contact

Devadath 9495034012

Akshay 9072545116



Speaker:

Aarya K R

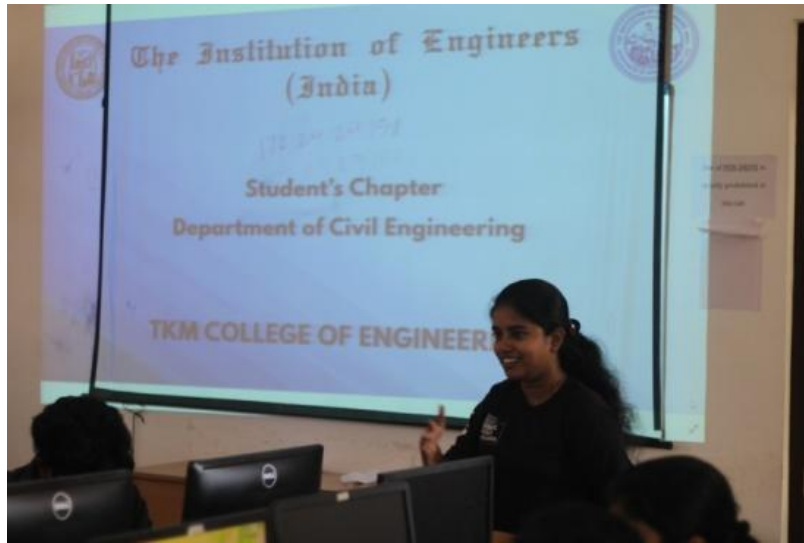
Corporate Relations Manager
(Civilianz)

10 September
11 am to 12 30 pm



Google Meet

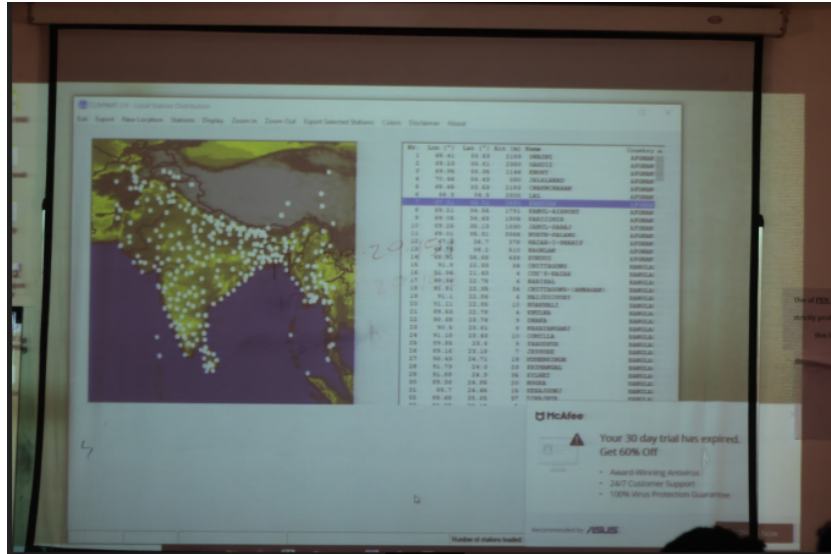
2. Agrizen, Crescita2020



The event seeks to address one of the main problems faced by young graduates for employment – the inexperience relating to updated softwares in the industry. Water resources engineering and irrigation support most of the agricultural and consumer needs of a country like India. The employment of newer techniques is essential for advancement in the field.

CLIMWAT is a climatic database to be used in combination with the computer program CROPWAT. and allows the calculation of crop water requirements, irrigation supply and irrigation scheduling for various crops for a range of climatological stations worldwide.

CROPWAT is a decision support system developed by the Land and Water Development Division of FAO for planning and management of irrigation. It is meant as a practical tool to carry out standard calculations for reference evapotranspiration, crop water requirements etc.



Kollam: All of the registrations were on spot. At 11:00 am 10 teams participated in the event with Vandana and Aiswarya of C6A conducting it Dr.Adarsh S presided over the same. The event focused on topics that are usually taught in the core of the subject. Nevertheless the event attracted a few students from junior years too. A brief introduction to the topic was given to bring everyone on the same page and to ensure no one received a headstart.



The participants were introduced to the softwares they would be using for the event - CROPWAT and CLIMWAT with a trial round. They were then given two similar problem statements and were required to deduce the discharge

condition. In a sudden death of mathematical aptitude and application of the softwares the participants battled it out to see who would be first. All the participants submitted their answers. Shockingly, in a team event Ameen S, third year TKMCE a lone participant nabbed the first prize. Anand vijayan and Aromal G from RIET took the second prize while Gopika Raju, Fathima Zarina and Jinju A.S of TKMCE and Reshma Varghese and Riya Thomas took third and fourth places. Dr. Adarsh distributed the prizes. The participants exclaimed that the event helped them to discover a new way of analysing irrigation engineering problems. Agrizen 2020 ended on a high note.

3. TECHNICAL ACTIVITY CARRIED OUT BY KOLLAM LOCAL CENTRE

Observance of World Water Day 2019

Conservation of water is essential for the survival of mankind as billions of people are still living without safe water. The changing climate, shortage of rainfall and pollution impose severe impact on our society in the form of water shortage. In 2018 Kerala experienced an extreme flood while during the summer we experiences severe drought. This change in climate has serious consequences in the water resources of the State. World Water Day (WWD) is celebrated on 22nd March of every year, which tries to remind people about the significance of fresh water and to promote sustainability for management fresh water resources. It is a day to prepare for how we manage water in the future. It is a mean of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources.

The theme of world water day of 2019 is 'Leaving no one behind'. IE Students' chapter (Civil) of TKM CE is committed to spread this message to the society and in view of this, we observed the world water day during March 16 and 17, 2019. A water quiz, poster presentation contest, expert talk etc. were conducted. The conservation of ecologically sensitive regions can contribute a lot to the stated goal of water conservation of the State of Kerala. In line with this, Dr. R. Gopakumar, Former scientist CWRDM Calicut, Professor in Civil Engg, SBCE Pattoor is delivered a lecture on Environmental issues of Kuttanad region and their relation to hydrology of the water system, on 17th March 2019. The problems related to Kuttanad region such as Vembanad wetland saline water intrusion, pollution construction etc. and the importance of conservation of wetlands etc were presented. The importance of conservation and the technological solutions for conservation were highlighted in the light of his rich field experiences. A total of 61 students from different engineering colleges over Kerala and 12 faculty attended the lecture. The faculty adviser of the TKMCE

student chapter, Dr. Adarsh S honored the speaker by presenting a memento. 21 students from different engineering and Arts & Science participated in water quiz. The event was conducted in two rounds like Preliminary and Final and six teams were selected for the final round. Mr. Akshai Reji & Mr Rasal of TKM CE won the first prize ; Mr Aswin MS & Mr Mohammed Yousuf of TKM Arts college won the second prize. Consolation prizes were also given. A poster presentation was also organized as part of the celebrations of this year.



Registration Form

Name of Participant :

Course :

Branch :

Institution :

Event applied :

Email ID :

Mobile :

This is to certify that of
..... class of this institution is
sponsored for attending event
organized by TKM College of Engineering,
Kollam on March 16,17 2019.

Name & Signature of
Head of Department/ Institution

Place:

Date :

Programs

➤ Expert talk

Dr. R Gopakumar

**Professor (Civil Engineering)
SBCE Pattoor**

Topic: Environmental issues of
Kuttanad region and their
relation to hydrology of the water
system

➤ Water Quiz

➤ Poster Presentation

Leaving no one behind

"Whoever you are,
Wherever you are,
water is your
human right"



world water day

MARCH 16,17 2019

CRESCITA'19

Department of Civil Engineering,
TKM College of Engineering, Kollam

SPONSORED BY

THE INSTITUTION OF ENGINEERS (INDIA)

4. Mix Design Workshop- Briefing

India cements Pvt. Ltd. Conducted it for the Vth semester Civil Engineering students. First Phase conducted on 15/11/2018 at Jubilee hall. About 50 students benefitted from the programme. Mr.**Hemanth Kumar T**, Technical manager (India cements Pvt. Limited) and Mr. **Jerin Jacob** Technical Service Engineer (TSE) India cements Pvt. Limited, Kollam district lead the classes. In the FN session, Materials using for concrete making(properties), Mix design theory and Calculation etc were presented. The afternoon session commenced at 2.00 PM and worked out A design example and performed some trial mix preparation in the Concrete Laboratory of Civil Engineering Department.



5. Invited Talk on 'An Introduction to Kerala Municipal Building Rules'

In view of the devastating Kerala floods of 2018, the building regulations and zoning to be revisited and for which the Kerala state town planning department can play a crucial role. The budding engineers of our state and having a lack of awareness about the building rules and regulations. To bridge this gap, an ignited talk was arranged for the Civil Engineering students of TKM CE by the IE Students chapter of the college with a silent prayer. The programme commenced at 4: 15 PM at Jubilee Hall. Dr Adarsh, the faculty adviser of the IE Students chapter of TKM CE made the welcome speech. Principal Dr S Ayoob highlighted the institutions imitative for the rebuild of Kerala and the back to home project emphasizing the participatory role of students in this process. Er Sivadasan, Honorary Secretary of IE Kollam Local centre, handed over cheque of Rs 50000/- as the contribution of IE (India) Kollam Local centre for the Back to Home imitative of TKM College of Engg. Er Sivadasan given the felicitation address and declared the necessary financial assistance of student groups who wishes to explore the construction activities of Munroe island as part of the Back to home initiative of the college. Er Sunilkumar made a felicitation address. Smt Shary MV, District town planner presented an elaborative and lively talk on Kerala Municipal Building rules. Starting from the development history and process, she elaborated about master plan, different phases and sections of the building rules and acts with typical rules of primary importance in our day to day life. A total of 140 students participated in the programme. At the end of the session, there was an active interaction with the speaker, which conveyed the message of the programme. Er. Sivadasan presented a memento to the chief guest. Mr Nandhu AR, Civil Engg Association secretary proposed the vote of thanks and the meeting closed at 5: 45 PM.



6. TECHNICAL ACTIVITY CARRIED OUT BY KOLLAM LOCAL CENTRE

Workshop cum Skill development Programme on An Introduction to QGIS

Geographical Information Systems (GIS) is a potential computational tool which finds its applications in diverse disciplines of civil engineering such as water resources management, urban planning, transportation engineering, geotechnical engineering etc. Commercial software such as ArcGIS is popular for performing such applications, but its use involves recurring expenditure. Therefore prestigious institutes like IISc, IITs, NITs and many scientific organizations nowadays promote the use of open source software. Quantum Geographical Information Systems (QGIS) is one such potential open source software and get acquainted with this software will be a real asset for our civil engineering student community of Vth semester as they can apply it for their final year project.

The programme was organized targeting Vth semester civil engineering students. The programme was inaugurated by Dr B Sunil Kumar HoD, Civil Engineering at 9 AM on 23/7/2018. Sri. BK Jayaprasad [(Former Scientist, National Centre for Earth Science Studies (NCESS), Ministry of Earth Science, Government of India), Consultant, Kerala State Spatial Data Infrastructure, Kerala State IT Mission, IT Department, Government of Kerala], Sri Anu Murali [Spatial Data Officer, Kerala State Spatial Data Infrastructure, Kerala State IT Mission, IT Department, Government of Kerala] and Sri Tanish C Brown [Technical Officer, Kerala State Spatial Data Infrastructure, Kerala State IT Mission, IT Department, Government of Kerala] handled the classes in all the six days of the programme. The programme was scheduled in such a way that each student attended the 2 days of the programme. A total of 143 students benefitted from the programme. The students got the basic conceptual ideas of GIS. They are acquainted with the capacity to geo-reference, digitize, develop their own map, layer updation, perform spatial query etc through the hands

own training sessions. Moreover the faculty of Civil and Architecture departments interacted with the expertise and the resource persons explained the potential applications in different disciplines of civil Engg. /Architecture. They demonstrated the necessity and potential benefits of purchasing the Open Source Maps (OSMs) of Kerala region and shared the procedure for purchasing the same. Faculty of Civil Engineering handling the subject Water Resources Engg. framed a QGIS problem to give as assignment for the present Vth Semester students by consulting with the expertise. The expertise agreed to accept 5 to 8 students for internship at KSIT Mission during June-July 2019. It is expected that the tool will be really helpful for the students for real field practical applications in the domain/discipline they are going to contribute after the graduation.





7. TECHNICAL ACTIVITY CARRIED OUT BY KOLLAM LOCAL CENTRE

Observance of World Water Day 2018

As part of observance of world water day 2018, a handful of programmes were planned by IE student's chapter (Civil) in association with Bhoomitrasena club of TKMCE and Civil Engg Association of TKMCE. AGUAMENTI- A Water Quiz (team event) for testing awareness on water/environmental related themes jointly with quiz club of TKM CE, a poster presentation contest (individual entry) on the theme "Nature based solutions for Challenges like Flood, Drought and Water Pollution", an online photography contest (time span till 22 March)- with central theme " Nature for Water", GPS Hunt- a treasure hunt using GPS enabled smart phone, an invited talk by Sri KV Ramanujan Thampi, technical director and chief consultant SWEWS on "Nature for water; Water for Future" etc were planned.

The Quiz programme commenced at APJ hall at 10:00 AM with the preliminaries. 17 teams were participated in the Water Quiz and 5 best teams were selected for the final round. Mr. Nishanth Chakravarthy (C2) lead the quiz competition. The poster presentation contest started at Room 101 of Main block at 10 AM for which eight students participated. The GPS hunt started at the APJ park by 5:00 PM. Total 14 teams participated in GPS based treasure hunt, in which water related clues were given to the participants. 104 students

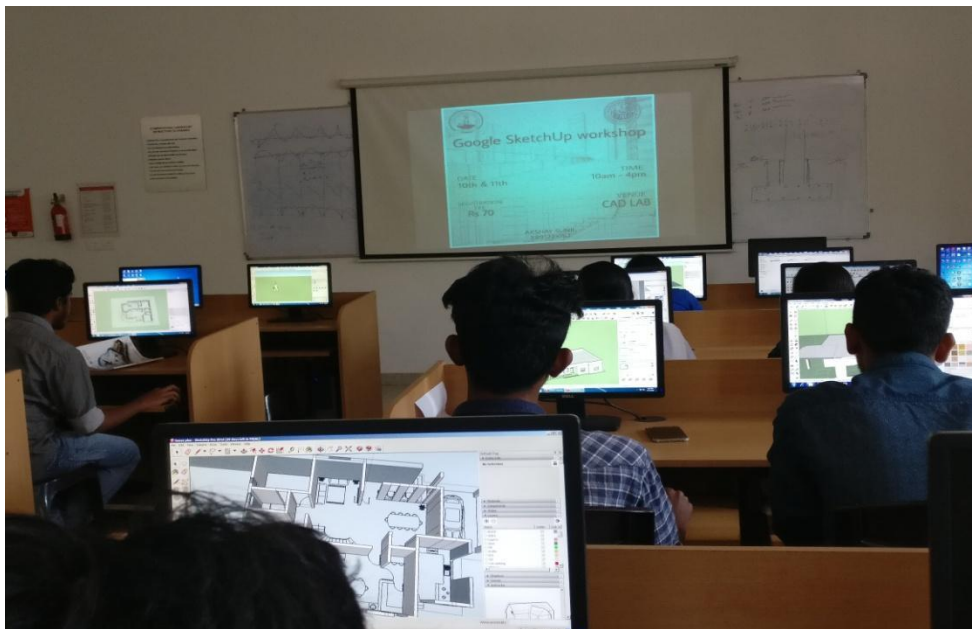
attended the technical talk by Sri KV Ramanujan Thampi on the topic “Nature for Water; Water for Future”.

The invited talk session started at 3:30 PM at APJ Hall with welcome address by Dr. Adarsh S, Faculty Adviser of IE Students’ chapter (Civil) and he highlighted the importance of observance of water day and stated that the flood, drought, climate change, water pollution are the major threats for this resource. Sri. Rajendra Prasad, Hon’able Chairman, IE Kollam Local centre made the presidential address, in which he presented the detailed statistics of water availability and the imbalance. Sri Ramanujan Thampi stated that water availability and its quality are the two major areas of focus and in the present scenario of Kerala, it is not the lack of availability, but improper management creates problems. He emphasized that for the survival of the future generation, the young generation should act urgently and presented certain simple tips for conserving this precious resource, which includes planting trees with less amount of water, saving water from our own houses in each of our day to day needs, allowing infiltration etc. He advised the student community to focus on even small, yet significant things in which we can conserve water by searching for nature based solutions. He enlightened the audience by reciting by his own poems on soil, water, river, rain conveying the message of this year’s theme. After the talk, Er. K Sivadasan, Hon’ble Secretary, IE Kollam local centre conveyed the message of water day 2018 and Er. Rajendra Prasad presented a memento to the Chief guest. Prof. Mamatha, Assistant Professor of Civil Engg. Proposed the vote of thanks. After the technical talk, the GPS hunt event commenced at 5:15PM at APJ Park of the institute.



8. Google SketchUp Workshop

The Institution of Engineers India Students' chapter (Civil) of TKM CE organized a workshop on Google SketchUp on 10th and 11th of March 2018 at the Computational Laboratory of the Civil Engg. Department. Mr. Sreeraj M, Mr. Vishnu K Vinayan, Mr. Paul Shaju, Mr. Hrishsikesh and Mr. Joseph Varkey of Sixth semester Architecture lead the classes. Students of MTech (4th sem), C8, C4 and C2 attended the programme. On the first day 18 students and on second day 22 students got benefitted by the programme.





9. Civil Engineering Construction-Theory and Practice

The programme started with a silent prayer. A presentation on the life and works of Sir M Visweswaraiah is arranged. Prof Adarsh S, Faculty Adviser, IE Student Chapter (Civil) welcomed the gathering. Dr Anitha Joseph, HoD

Civil made the presidential address. Hon. Secretary of IE Kollam local centre Er. K Sivadasan attended the function. Sri Rajasekahran Nair started his address by smoothly presenting the existing gap between theory and practice in civil construction. He shared some of his experiences and challenges faced during different phases of his career. In his speech he emphasized that the budding engineers should work for the society and it should be for finding solutions to problems and the graduate should concentrate to study and understand the problem/issue in detail. Then he elaborated different stages of an engineering project. The details on stages of implementation such as contract management and tendering were presented. The challenges like lack of funds and political influences that are to be expected and how to overcome them were presented. He advised and motivated the young generation of engineers to learn from failures, to be proactive and to express sincerity to the work. 193 students and 20 faculty attended the event. The session closed at 5:45 and Miss Devika Jayakumar of C5 presented the Vote of Thanks.

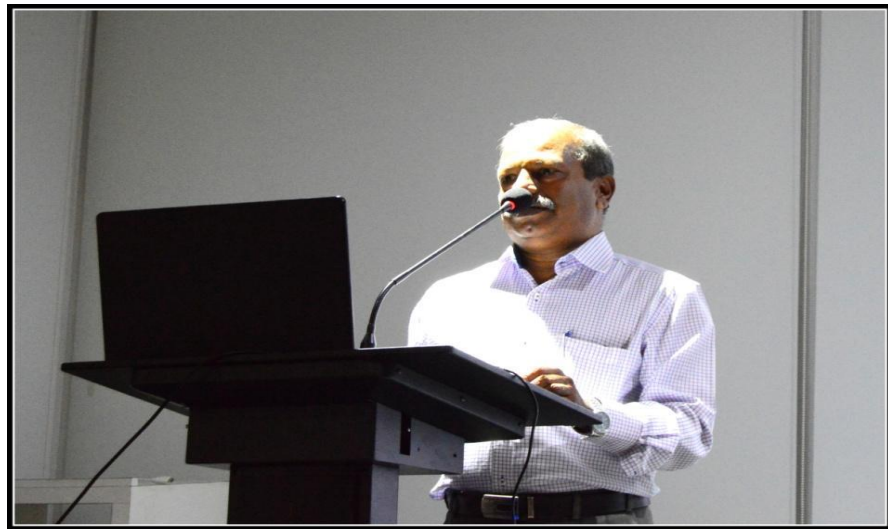




Prof. Adarsh, Er. R Rajasekharan Nair and Dr Anitha Joseph (HoD, Civil) during the inaugural session

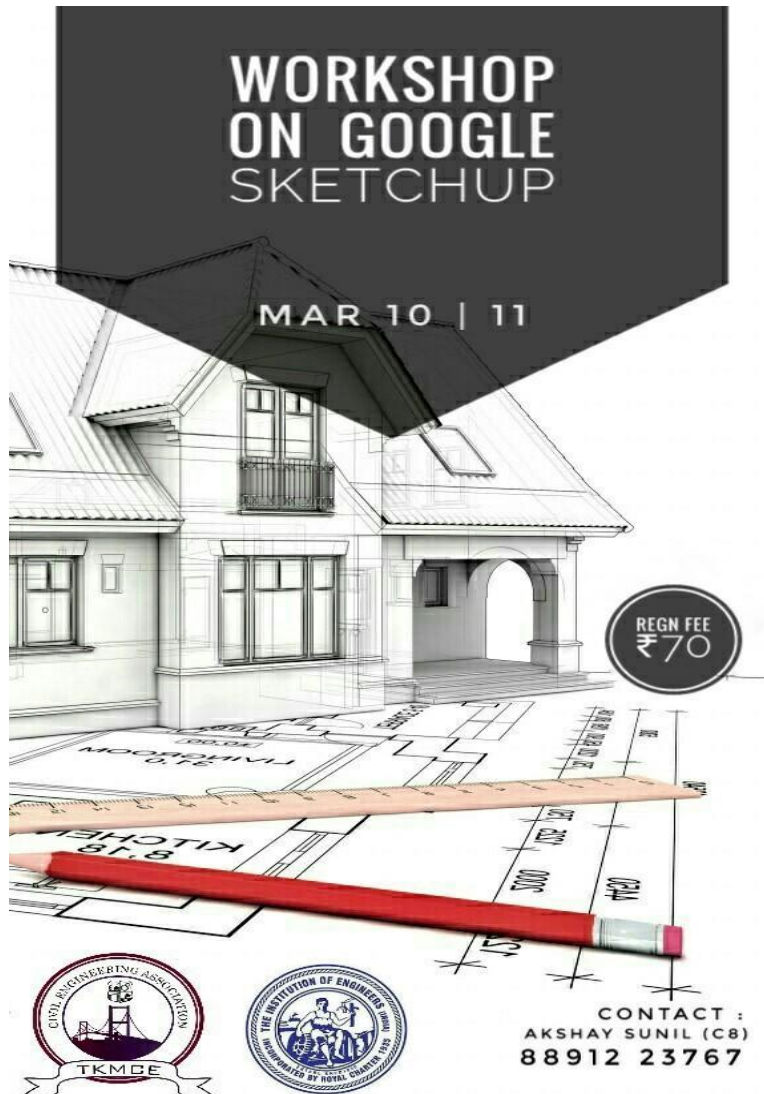


Dr Anitha Joseph (HoD, Civil) gives the presidential address





Er. R Rajasekharan Nair delivers his talk.



Poster of the Workshop