

CIVIL CHRONICLES

The official newsletter of the department of Civil Engineering– STM

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Vision

Our vision is to foster the success of the students in the field of technological advancements along with nurturing their social commitments through innovative learning opportunities for their overall development.



St. Thomas College of Engineering & Technology

Mission

M1: Infrastructural Relevance
Develop, maintain and manage our campus for our stakeholders.
M2: Life-Long Learning
Encourage our stakeholders to participate in lifelong learning through industry and academic interactions.
M3: Social Connect
Organize socially relevant outreach programs for the benefit of humanity.

About the department

The demand for trained professionals in Civil Engineering is obvious, omnipresent and ever increasing. Practical knowledge is the ultimate aim & aspiration of the Civil Engineering department.

The Civil Engineering department is furnished with an excellent infrastructure to enrich the students in various fields of Civil Engineering like building, construction, strength of materials etc.

Today is an era of "interdisciplinary approach" and everybody must have a minimum basic knowledge of all the branches and discipline. The department is taking more focused and multidimensional efforts to make the "foundation of the students" as strong and safe as possible.

About the college



St Thomas Engineering College, Sivapuram, Mattannur was established by St Thomas Educational Society, Adoor on 2014 with a view to impart high quality engineering education through systematic studies and efficient training. The college has a team of eminent faculty members and a disciplined atmosphere which help to promote a holistic approach to learning.

There is a right balance of cognitive, conceptual, ethical, humane and spiritual growth as a whole. The institution within its short span of existence plans to be a centre of excellence in engineering education, by bringing out the young engineers devoted and socially committed.

The college is approved by the All India Council for Technical Education and affiliated to both Kannur University and A P J Abdul Kalam Technological University. The college has been established in the interior area of Malabar with a view to cater the needs of engineering education in the north-eastern of the Malabar area, especially to people who belong to the backward communities, tribal communities and immigrant communities, who are otherwise deprived of qualitative higher education in their area. Nevertheless the college is open to all meritorious students from all over Kerala to benefit the best and disciplined Engineering education it imparts.

In this Issue...

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Principal's Message

I am happy to know that the department of civil engineering is releasing a newsletter for the academic year 2022-23. Beyond the theoretical knowledge of their subjects, the students should ensure active participation in co-extracurricular activities to equip themselves with all sorts of skills to be a successful professional. Internships, projects and research activities will help the students to improve their self-learning capabilities and experience industrial environments before getting a job. Rapid changes are taking place in the field of engineering and technology and the barrier in between engineering branches are diminishing day by day. Nowadays interdisciplinary projects and researches are very common

hence the students should acquire basic knowledges in all the latest trends in technology to have a successful career. Environmental protection is the prime responsibility of all responsible engineers to safeguard future generations in the planet earth. Conventional construction materials are decreasing day by day and causes severe environmental impacts also. In this context we need to perform intensive research and explore new construction materials with less environmental impacts. I take this opportunity to request all civil engineering students to do environment friendly projects and designs as your final year projects.



I would like to appreciate the student and staff editors of this newsletter for their untiring efforts to ensure quality and timely completion

'SATTVA'- the Dept. Association gets inaugurated

03/12/2022



A photo from the Inauguration ceremony of the Departmental Association

SATTVA, the Departmental Association at the Department of Civil Engineering, got officially inaugurated on 03/11/2022. The inauguration was carried out by Er. Sabu K Philip, a retired superintendent Engineer at PWD, with Dr. Shinu Mathew John, the Principal-STM, Er. Rijo Thomas Jose, CEO-STM and Mrs. Vijila Balakrishnan, HOD- Dept. of CE STM; on the dais.

The entire Civil Engineering crew with its faculties, lab staffs and students were present during the proud moment, at the seminar hall. After a brief inaugural speech, Er. Sabu K Philip unfurled the logo of the Association, amid the cheering audience. The logo comprises of an S shaped symbol, encircled by a blue ring, with miniscule images of buildings and bridges on top of it.

The word 'SATTVA' means, 'to construct'- said the final year students who designed the logo. In his presidential address, Dr. Shinu Mathew John appreciated the performance of the Department in academic and non academic activities. Er. Rijo Thomas Jose observed Civil Engineering as a branch that stands closest to the humanity. He added that no part of the subject goes wasted as it renders a great deal of practical application. Mrs. Vijila Balakrishnan expressed vote of thanks at the end of the ceremony.

A formal inauguration ceremony for 2 hour duration was planned at first, nevertheless the students were all set to make it grant; hence extra events were added and extended the program on a timescale of two days. An expert talk, a site visit and a workshop were organized in connection with the inauguration. It was rather difficult to organize technical events in the absence of an association. We had to select the coordinators and allocate the work schedule recurringly for each program. However since the inception of Association, it

serves as a permanent platform, to host any departmental program. Taking the busy academic schedules into account, it is inevitable to minimize efforts and avoid repetitive works in the context of any departmental program; which stands as the primary aim of the association. In the platform SATTVA, discussions are possible on a continuous time span and unused ideas in a program can be kept intact for the next program. There are two class coordinators for each class, to work at the grass root level. Adithya K and Akash P from final year Civil Engineering are deputed as the main coordinators to conglomerate ideas from the class coordinators.



Logo of SATTVA

From the HOD's Desk



Awakened from the pandemic stricken days, the calendar year 2022 brought about a plethora of memorable moments and noteworthy events at the Department of Civil Engineering at STM.

The department had churned out a sparkling 65% of its final year students into successful civil engineers this year; most of whom already started their career venture in reputed firms. Academic performances of the students from subsequent semesters were also in

par with the passed out batch. The third years came up with 64% and the sophomores showcased a splendid 67% success in their university exams of the academic year 2021-2022.

A handful of technical activities was furnished by the department in tandem with its academic excellence. The inauguration of the Civil Engineering association- SATTVA, being the most significant among them all. The parking survey conducted by our students

for NATPAC was recognized well. Site visits, workshops, expert talks, industrial visits and inter departmental programs were also made their routine this year as well.

Faculties and students outshined in their individual performance also. Be it in NPTEL results, teaching excellence or in attending FDPs, the faculties showcased their skills; meanwhile, the students excelled in arts, sports or in academics.

In this moment, a well deserved applause is handed over to Dr. Shinu Mathew John, the Principal at STM, for his proper guidelines and wise remarks on the everyday activity of the department. The huge support from Er. Rijo Thomas Jose, CEO-STM also deserves a special mention here as his continuous inspiration is pivotal for the department. I appreciate all the faculties and students who worked in concord, to achieve a successful year.

Hopefully let us sustain our success in the coming years as well.

Department of CE

Vision

To impart knowledge and excellence in civil engineering with a focus on innovation and research by combining technical and ethical qualities.

Mission

To be center of excellence for technical education by moulding young technical aspirants having a holistic approach and strong commitment
M1: Professional Skills
Encourage students for innovative and research thinking and venture for excellence in all facets of Civil engineering.

M2: Life-Long Learning
Instill in students contemporary knowledge in order to achieve academic and professional excellence with global perspective through experience of lifelong learning.

M3: Engage with Society
Impart a sense of community responsibility and leadership qualities to better meet the challenges of sustainable growth, self and social responsibilities.

Joining hands with NATPAC for a Parking- friendly Chirakkuni

28/06/2022

It was just another ramble for the on-lookers, on the fine morning of 28th June 2022 along the footpaths of the Chirakkuni intersection- Kannur, but for the four Civil Engineering students from STM has some allegiance behind their rambling. It was part of their duty to conduct a parking survey at the intersection, as the department had joined hands with NATPAC- A centrally funded institution under the govt. of Kerala. 'We were at our wits end, amidst the busy schedules of the project 'Traffic congestion measures for Chirakkuni intersection' which demands several field surveys including parking survey, traffic volume count as well as OD studies'- the project supervisor Ebin Samuel says. 'It was at this juncture, we requested for a consultat

ion from the nearby Engineering Colleges, and the Civil Engineering Department at STM accepted the proposal immediately'- the scientist cum project coordinator added. Four students along with a faculty coordinator comprised of the surveying team. Amidst their academic pursuits, the students themselves processed the raw data obtained in the form of vehicle count, then converted them into the respective 'Passenger Car Units' and submitted the entire discourse to the authorities. A wholehearted applause was bestowed on the department for the accuracy of work and timely submission of the processed data. 'We made several rounds of discussions with local politicians, Panchayat authorities and all, but everyone

shrugged off, now we have hope on the upcoming engineers like you in such endeavours'- the shopkeepers at the intersection says to the students during the survey. The comments from the stakeholders like this, made

the day for the four member team even though it was hectic and tiresome to work on site. Moreover, it was their pleasure to receive certificates of participation from NATPAC.



Surveying team at Chirakkuni intersection

Achievements



Mr. Gokul Pramod, got selected in KTU F Zone badminton team to compete in KTU Interzonal Badminton Championship. Gokul represented the college in the KTU F Zone men's Badminton Tournament hosted by Govt. College of Engineering, Kannur held at School of Physical Education and Sports Science Kannur University on 27/10/2022. The team secured win in the first round. The team represented by Gokul secured win till the semifinals at the Interzonal Badminton Tournament held at Muthoot Institute of Technology and Science, Ernakulam. Moreover, Mr. Gokul Pramod got ranked 9th in 12 positions selected for KTU Interzonal team for National level Championship.

Along the beachside with NATPAC

04/09/2022



Surveying team at Muzhuppilangad

Due partly to the proximity of the college from the survey location or the professionalism shown by our students at Chirakkuni, NATPAC opted for the students at STM to assist their survey for a second time. This time it was at Muzhuppilangad. Being the longest drive-in beach in Asia, Muzhuppilangad is notorious for roads with heavy traffic blocks during the weekends, due to the arrival of vehicles from places quite far away. Similar conditions prevails during the peak hours of the weekdays as well.

NATPAC cleverly selected the date 04/09/2022 a weekend, for their traffic survey analysis as the roads at its maximum capacity during holidays here. The beach road, road from Edakkad beach, and the road connecting the beach with NH66 were surveyed separately with various aspects. It involved traffic volume studies, parking surveys and various kinds of origin and destination studies which requires a lot of manpower. NATPAC envisages a congestion free atmosph-

ere at the location, which demands further widening of the existing roads and construction of new roads. A 16 member team comprising of the second year students, guided by Asst Professor Sreenath M K, conducted the surveys from the early hours of the day to 6 00 PM. Students got the first hand experience of conduction traffic surveys, which might help them during their final year projects. Likewise, the marvelous sunset at the beach side and the music from the waves on the Arabian sea made the day more enjoyable. The day ended up with a bag full of data-sheets from various traffic studies in terms of vehicle count. The entire data got successfully rearranged and processed during the succeeding days and submitted to the NATPAC. The participatory certificates along with appreciations made its way toward STM this time too. Suffice it to say that, a lot of new instruments are capable of replacing much manpower in surveying in these days. However, the decision made by NATPAC to incorporate students in its studies demands appreciation too.

Expert talks

Date	Topic	Speaker	Designation	Mode
01/06/2022	Glimpses of Project Management using BIM and Job opportunity in Industry sector	Vijayetta Malla	Assistant professor grade I NICMAR Hyderabad	Online
29/09/2022	Essential Requirements and Properties of High Performance Concrete	Hemanth Kumar T	State Technical Head, The India Cement Ltd.	Offline
03/11/2022	Stability of Soil	Chinchu K Cherian	Research Engineer UBC Canada	Online
04/11/2022	Highway Accidents and Mitigation measures	Sabu K Philip	Superintending Engineer (Retd) PWD	Offline

Each year, the department collaborates with several resource persons to conduct talk sessions. It takes several rounds of discussions to finalize the topics of each talk, as the topic eventually should bridge the gap in the syllabus, and ensure the curriculum objectives.

Out of the four talk sessions conducted this year, the first session depicted construction management as its realm, while the rest of the installment were chosen from Concrete Technology, Geotechnical Engineering and Transportation Engineering respectively.



The old, yet timeless discussion on concrete was presented by the veteran speaker Hemant Kumar in a story telling narrative style. On an otherwise sleepy afternoon session of the week-day, the mode he selected was so suitable that the students were at the tip of their seats to listen him. He compared concrete and reinforcement to newly-wed couples. Aggregates, water, and admixtures found their role as the parents of the couples in the story. Several concepts in concrete technology

such as inflorescence, shrinkage, creep, bleeding etc were demonstrated in the backdrop of the story. 'Concrete changes its chemical composition and field behavior so rapidly that, each day we have new lessons to teach.' The speaker winded up. A half day session was not sufficient to compress it all, as a student in her feedback, writes-'it would have been a full day session'.

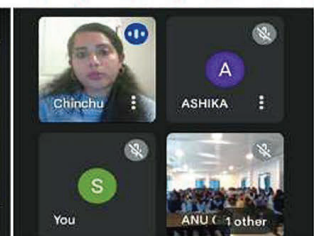


Er. Sabu Philip handled the session and proved the saying 'experience is the best teacher', as he demonstrated everything from his experience as an engineer for a career span ranging for forty years. Topics such as highway

alignments, land acquisition for highways, political interventions, unnoticed loopholes in our traffic rules, etc were discussed. The talk was conducted as part of the inauguration ceremony of the departmental association.

Mrs. Vijayetta Malla demonstrated BIM, In fluent English, with a tint of Telugu accent. The Professor demonstrated the concepts such as building information systems, Building health monitoring etc. BIM, a recently evolved branch of Civil Engineering, aptly has a scope for a final year project. The speech threw light on the

areas such as building information systems, most of them unfamiliar to the students. Many a final years scribbled down the entire presentation on their notepad, for future reference, keeping the final year project in their mind. Moreover, they have requested the contact details of the speaker as well.



Be it online or offline, the point behind a talk session is the face to face interaction of experts and the students; otherwise, reading a reference book will serve the purpose. In this aspect, Ms. Chinchu Cherian was more than successful in her talk session 'stability of soil'. The session was so interactive that no one felt that the speaker was sitting at Canada; thanks to google meet. 'Amidst the entire soil technology, why do we suffer the yearly

landslides in Kerala?' -The cleverly doubt raised by a student from S5 was easily tackled by the speaker, and answered that, the problem was not with the technology but the mindset of people and policy makers. She convicted the unscientific practices of earthmoving, land reclamation and deforestation. Researchers like me are concerned with the revival actions-the professor added.

Quantity surveying workshop



Photos from the workshop

A workshop was conducted on quantity surveying. The resource person of the workshop, Mr. Anwar CM, was an alumni at IIM Lucknow, an Ex. Amazon employee, and a budding

software entrepreneur. The Bangalore based young engineer, with his extraordinary eloquence, won a mindful attention from the final year stu-

dents at the workshop. During the session the participants made awareness of softwares such as Cubit Pro, costX. 'Quantity surveying is performed either manually or using conventional softwares such as AutoCAD or Revit; however it takes the top ended tools to render it more professional'- the orator says. Students got aware of the software packages to execute the manual procedures of rate analysis, valuation and so on. The conventional class room study based on the rate schedule had left behind a base idea among the students.

we have to built up the software awareness from that base- commented the orator, emphasizing the accuracy speed and user friendliness of the software compared to the manual methods. Within the short duration of the workshop, students learned to install and operate the softwares. The department felicitated the orator at the end of the session. The students were provided with certificates as well.

19/05/2022

Achievements



Ms. Shabeeba K, Ms. Shadiya Sherin, Ms. Shilpa P K, and Ms. Surya Sajeev represented the college in the Table tennis women's team STM at KTU F Zone table tennis tournament held at Govt College of Engineering, Kannur on 29/10/2022. The Men's team secured fourth place from all the matches therein.



Ms. Shilpa P K and Ms. Surya Sajeev, from the women's chess team- STM, found their fabulous victory at the KTU F Zone chess tournament held at VJEC Chemperi on 19/10/2022. Out of four rounds conducted for the women's team, the team won in two rounds.

To the survey field with a Total station

10/12/2022

Total stations, a versatile instrument for surveyor, plays a vital role in modern day surveying. A rigorous knowledge about this electromagnetic sensor oriented instrument is inevitable in the current job market owing to its extensive use. Even though the topic gets mentioned in their surveying lab, foreseeing the significance of the instrument, a full day workshop based on total station was planned on 10/12/2022 for the second year students. The workshop started with a brief demonstration of the instrument. Followed by a detailed demonstration, the instrument operator from ALG Information systems- Kannur, led the students to the college ground. The demonstration comprised of the familiarization of parts of the instrument and the operating mechanism behind each part. With their survey stations marked at the four corners of the college ground, and clustered into four groups, the students

took more than an hour to set out the instrument on the field. 'It requires practice and patience'- The demonstrator says, 'Once you are ready with the instrument set up, large acres of area can be ranged, leveled or measured words, students gathered the pace, right after the setting up. Each group managed to measure the boundary, area enclosed, and level differences of their given slot of land. After the field measurements the surveying team successfully stored the measured data into a computer and retrieved the stored data from the same. The softwares dedicated to interpret the data from a total station, were installed and familiarized by the students. The workshop was effective for the students as the inst- huge market prize, remains unreachable for most of the institutions. It takes an extra amount for the students to master it from outside the college. In their feed



Photos from the workshop

back session, positive responses were made by the entire students. Altogether, the session proved its worth as each student dealt with the instrument in every aspect of it, and managed to survey the college ground in the most accurate and precise way. Mrs. Ashika K. fac-

ulty from the Civil Department coordinated the entire workshop with the help of Mr. Sreenath M K. Department issued certificates for the participants at the end of the workshop.

Workshop for a central library

Construction requires imagination, observation and practice. Hence it is essential to ensure opportunities for the students to practice what they have studied in text books. Keeping in mind the above fact, a workshop was planned on 04/11/2022 entitled- 'Proposal of a central library at STM campus.' The campus, with its verdant hilly land resource, extends a wide opportunity to Civil Engineering students for surveying, land measuring and planning of new buildings on it. The workshop threw light on the various aspects of building construction such as planning, drawing, site preparation and setting out. With a massive involvement, students of third year and final year made the program into big success. The workshop comprised of an initial demonstration, followed by the detailed land measurements and plan- drawing.

The demonstration session at the beginning was handled by the faculties from the Civil Engineering Department and the field works were coordinated by the lab staffs. The site proposed for the central library was observed and measured by the students. The establishment of survey stations, ranging and measuring was done by the students themselves in two shifts. As it involves both field works and office works, the program extended to a full day. Those who completed their field work prepared drawings based on the site conditions available. The work shop turned out to be competitive once the drawing started. A hand full of ideas was blossomed at the tip of their pencil, which aptly got evaluated by the expert panel during judgment. A winner was ultimately announced based on the performance on field and a prize money was given.



04/11/2022

Achievements



Mr. Abhimanue. K won the competition based on his excellent performance in proposing the central library and received a prize money

Photos from the workshop

Achievements

Faculties bagged Teaching Excellence award-2022



Teaching excellence awards were announced for the academic year 2021-2022, in which two faculties from the department of Civil Engineering got honoured for their appreciable academic results. Mrs. Greeshma C S and Mr. Harishankar N, received the award in a function held on 22/11/2022 in connection with the college-PTA meeting. The outstanding academic performance of the

department got applauded by Mr. Shinu Mathew John after announcing the awards. The function was attended by the parents, faculties, and the students from various branches. Students with outstanding results were also got appreciated in the function.

Placement offers



Students secured job offers from various placement drives: Adithya K, Akshaya S, Sneha K, Thushara P V, Ayisha nima zubair got selected in Goan Institute of Consociation of Education.

Achievements



Mr. Safal Nihal and Mr. Adwaith R represented the college at KTU F Zone Volleyball tournament at GECK held at School of Physical Education-

Mr. Mohammed Zahin P M, got selected in the KTU F Zone team to compete in KTU Interzonal Table Tennis Championship. Zahin represented the college in the Table tennis men's team-STM at KTU F Zone table tennis tournament held at Govt College of Engineering Kannur on 29/10/2022. The Men's team secured third place from all the matches therein. At the KTU Interzonal Table Tennis Tournament, held at FISAT Angamaly, on 02/11/2022, the team represented by Zahin won till the quarter finals.



N Sijin, Vibhilesh T K, Akash C K got selected in RFS CO infrastructure private limited, Kasaragod

A day at NAC

03/10/2022



Students during their visit at NAC Hyderabad

In order to gain first-hand experience from the industry, the final year students used to organize Industrial visits. This time they made NAC Telangana as their destination for industrial visit. Standing at the verge of their course completion, the students have so much to learn from NAC- an institution for skill development; a center for quality and productivity in construction industry. A fully dedicated single day was allocated by the students in their final year trip schedule, to visit the 46.6 acres of green campus at NAC, located along the IT corridors of Telangana. Despite the enjoyment of the trip and tiredness of long journey, students were well disciplined at their entry at NAC. Apart from the warm welcome received at the entrance, it was the brilliant demonstration from the project demonstrator at -

NAC, that made the day worthwhile. NAC as proclaimed by itself is a 'single stop shop' for providing diversified training programs to address the skill gap requirements of human resources. The demonstrator in his introductory remarks, mentioned that, the institution provides vocational training ranging from a time span of 10 days to one entire year. Certain skills that can be acquired from the institution includes that of bar bender, site supervisor, plumber, store keeper mason etc. Not only the entry level jobs, but the top notch engineering works are also being trained at the institution. Anyone who decides to start a firm by their own can approach the institution, remarkably the visit might have made an impact on the upcoming entrepreneurs among our final years.

KWIZ- a knowledge feast

16/03/2022

KWIZ, a renovated form of regular quiz, conducted on 12/1/2022 at the Seminar hall- STM, was a knowledge feast for the academic enthusiasts. The program was scheduled on the second week of the year 2022, marked as the first departmental program of the year. A screening test was conducted at the beginning to shortlist the participants as the number of teams registered for participation was much more than that expected. Each team with its two members had to give right answer to the questions in several rounds. Each round comes up with various rules.

The quizmaster used images, videos, audio clips, and web pages to bring forth innovative questions. Refreshed score cards were displayed at the end of each round. Certain elimination rounds were intentionally planned to elevate three teams for the grand final round. The winners, who emerged in the final round, were awarded with immediate prize money.

The entire session was brilliantly compared by Arya Sasidharan, with technical supports from Shamjas KT and Sijin. The event indeed was challenging for the question setters as the participants are at various semesters. Questions were made by an expert panel comprising of faculties from various specialization.



Photos from the event KWIZ

Achievements



Ms. Sayana M received complement for success in Nptel exam



Mrs. Anu George enrolled for PHD at Christ University, Bangalore

Learning from the masters

16/03/2022

Owing to their reluctance to memorize latex commands, the final year students from the Civil department were found to be spending too much of their valuable time on MS Word to prepare their project report. The problem arises only at the end of the semester, and no one cares the issues as they are focused on the quality of project content only. In this scenario, the students from the final year CSE came up with a novel idea to teach their Civil Engineering counterparts the software Latex. The program was planned as an interdepartmental program by the department of Computer Science and Engineering. Ms. Anagha Hareendran and MS. Raiza Khalid, demonstrated the basics of

Latex in well scheduled sessions. the classes were arranged during the project hours well in advanced to the submission date of their report. A latex template of the report was used to explain, which was shared to the participants at the end of the session. Apart from making project report, the students also acquired the ability to make standard-quality slides for presentations. It took five sessions to complete the demonstration, at the end of which almost the entire students got fluent in the software. Certificates were provided from the department to the students who conducted the sessions. The demonstration was conducted in the other branches as well.

Site Visit- Kannur Municipal Corporation Building

03/11/2022

Beyond the entire design equations and IS recommendations, it takes a routine field visit for a civil engineering student to understand the real picture of a work site. A regular field visit thereby couples the text book knowledge and the practical applications; however, the site visit on 03/11/2022 provided something more than that to the entire second year crew. Mr. Biju Kumar, the Executive Engineer, guided our students, through the recently set work site of the Kannur Municipality Corporation Building. The entire engineering team and workforce under the Executive Engineer were ready at site, sharp at 2:00 PM, when the student and faculties team reached. After a fifteen minute safety class, the students along with the site engineers, roamed around the proposed ten storey building complex in their safety jackets and helmets, scribbling on their field books, asking doubts and observing things. A foundation specification observed at the site was identified by Owing largely to their text book



Students during the site visit

the students as raft foundation. On the massive reinforcement cage at an excavated depth of 3.52 m, the students distinguished main bars, tension bars, dowel bars etc. Some of them even attempted to sketch the reinforcement system. A shear wall at the site was demonstrated by the site engineer, Ms. Anusree A, one of the aluminees at the department of CE, at STM. The practices

on field may vary slightly on field, based on the conditions; curing methods slightly different from those studied from the text books were observed, due partly to the availability of water and convenience of labours. Equipments used for batching, mixing and compacting were demonstrated by their respective operators. The workers opened up their experiences based on the practical difficulties on

field hours, along with the solutions to overcome them. 'Now a days, demonstrations are available on internet,'- Er. Biju Kumar says, 'However, the actual practices may vary based on the property of soil, water availability, climate, and so on; which strongly demands a direct field visit and interaction with the workers there,'- he added.

Think out of the waste box

12/1/2022

Diseno, contrary to its confusing way of pronunciation, came up with a rather simple set of rules to the participants- to construct a civil engineering structure, with reused materials, in the most exciting way. Needless to say the structure should be stable, strong and serviceable. Be it their own used pens, broken parts of utensils, wood or glass pieces, the apparently useless things found their way from the waste box to the table, and got a complete face change into marvelous civil engineering structures, during the program. The unique idea of the competition sprouted in the mind of students, during the lockdown, when most of them spend leisure time, making handcrafts out of reused materials. Innovation was at its peak, when the students eventually brought their work-piece ready to display at the seminar hall, on 12/1/2022. The stall arranged for displaying competitive items, got attracted by the students and faculties from the other branches too.

For the students, it takes their understanding on graphics, statics and geometry for designing the structures meanwhile, the spectators could enjoy the coordination and imagination of the students, their social commitment towards reusing of waste material, and so on. The judgment was so challenging that each structure stood, one better than the other. 'In addition to aesthetics, we evaluated the selection of material, way of their articulation, and the relevance of the structure', - comments Mr. Nithin C. Hod- Department of ECE, from the judgment panel. 'Moreover, we asked them questions'- he added. 'The structure gets dismantled and thrown away, right after the program; which still contributes to pollution. Then what is its relevance towards pollution control?' Each team answered with their own ways on waste disposals and ultimately the best one got the prize money.



Photos from the event Diseno

Achievements



Mr. Amal P, represented the college in the KTU F Zone Kabadi Tournament held at GECK, on 30/10/2022. The team qualified to semifinals and secured the fourth place thereafter.

Placement offers



Arya Sasidharan, N Sijin got selected in Byju's the learning app



The students of Civil department represented the college in the KTU F Zone Cricket Tournament held at GECK and they secured 3rd price



The students of Civil department represented the college in the Spike inter college football tournament held at St. Thomas College of Engineering and Technology, Chengannur and they secured first place.

GROUP PHOTO 2018-22



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1	Achieve excellence in the professional practices of civil engineering by utilizing the acquired knowledge and technical skills supported by modern day tools
PEO2	Participation in decision making and nation building by adopting energy efficient and sustainable practices in civil engineering
PEO3	Encourage innovative thinking and entrepreneurship through research and higher studies in advanced areas of civil engineering.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	To solve engineering problems related to civil engineering by systematic techniques, skills and tools to meet the ever-growing needs of sustainable infrastructural development.
PSO2	Design and build civil engineering-based systems in the context of structural, geotechnical, transportation and environmental requisites.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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