

MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY



Affiliated to
A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY

ANNUAL REPORT

FEB 2019 – JAN 2020

Contact Information

Mailing Address

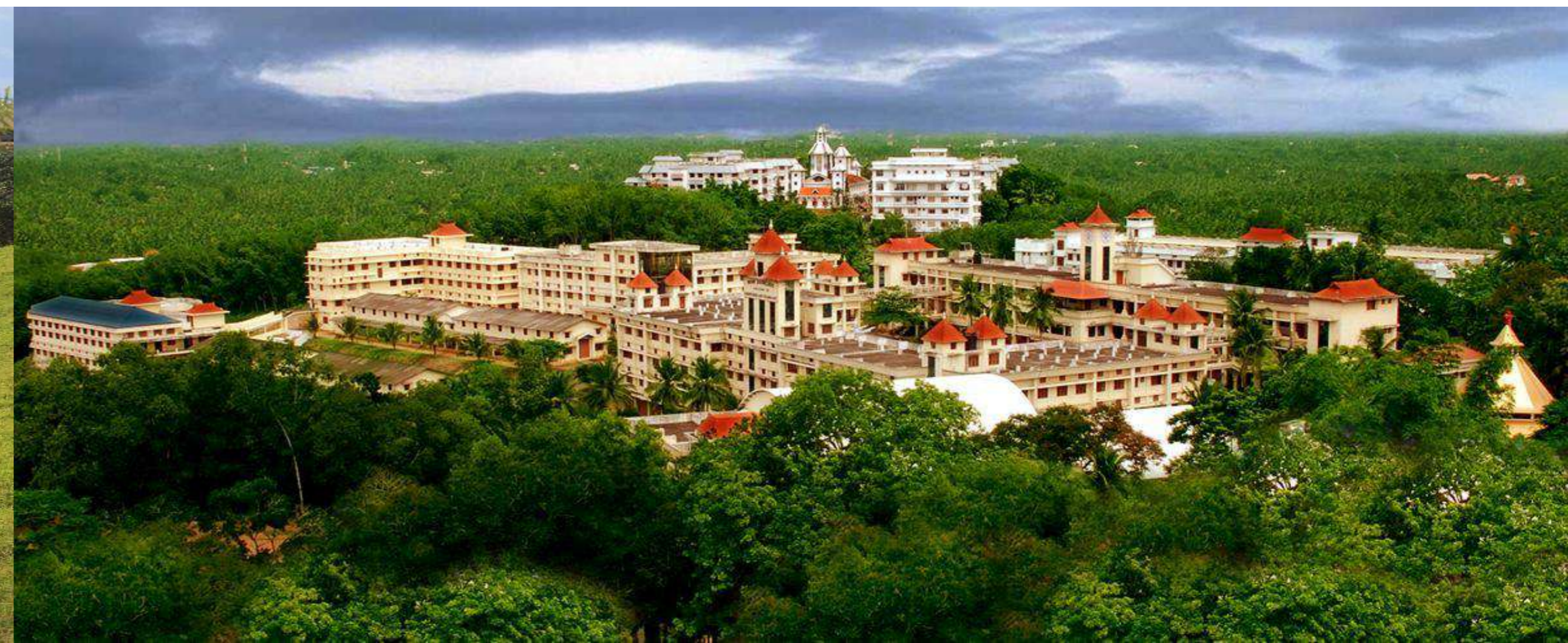
Mar Baselios College of
Engineering and Technology,
Mar Ivanios Vidya Nagar,
Nalanchira P.O., Trivandrum –
695015,
Kerala, India.

Email Address

mbcetasce@gmail.com
neethumbt@gmail.com (Faculty Advisor)

Facebook Address

<http://www.facebook.com/asce.mbcet>



ASCE EXECUTIVE COMMITTEE 2019 - 2020



FEBA PAUL

Vice President
febapaul97@gmail.com
SM. ASCE # 11281980
Mob : 9497736338



SUSHA

Treasurer
sushashilu@gmail.com
SM. ASCE # 10472554
Mob : 9744358187



ADITHYA T A

President
adithya.ta999@gmail.co
m
SM. ASCE # 11297399
Mob : 9496508909



ANUSREE G K

Recording Secretary
anuranisree98@gmail.co
m
SM. ASCE # 11277998
Mob : 7560884304



SHIKHA SUMAM JOHN

Acting Secretary
Shikha.sjohn@gmail.com
SM. ASCE # 11314927
Mob : 9633956052

EXECUTIVE COMMITTEE HEADS



ASHFAK B S

ashfakbs@gmail.com
SM. ASCE # 11934581
Mob: 7012892733



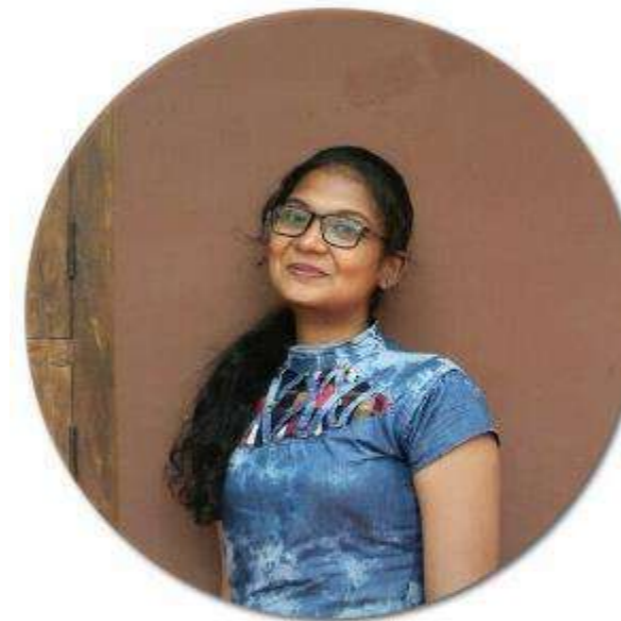
ANOOP KUMAR B

anoopkumarb5@gmail.com
SM. ASCE # 11341804
Mob: 9544762277



ELVIN PHILIP THOMAS

elvinphilip1997@gmail.com
SM. ASCE # 11782681
Mob : 9061526539



VIJITHA KRISHNA V S

vijithakrishna62@gmail.com
SM. ASCE # 1044459608
Mob: 8304099317



SUHAILA FATHIMA SULFIKAR

suhailafathima1997@gmail.com
SM. ASCE # 11782630
Mob: 8281513650



ASMINA A

asminajmin@gmail.com
SM. ASCE # 11273278
Mob: 8891397301

SUB COMMITTEE HEADS



MINTO KANTH

Meeting Room Committee
Head
mintokanth7@gmail.com
SM. ASCE # 11558278
Mob: 9495903750



NEERAJA BABU

Social Service Committee
Head
mithra.babu@yahoo.com
SM. ASCE # 11525826
Mob: 8589829962



JISHNU NARAYANAN

Media and Publicity Head
SM. ASCE # 11523223
Mob : 9495665098



PARVATHY B S

Activity Committee Head
parvathibs99@gmail.com
SM. ASCE # 11537681
Mob: 9447555144



NAFNA S NAJEEM

Fund Raising Committee
Head
SM. ASCE # 11560753
Mob: 7034544423



ANANDHALEKSHMI V S

Membership Committee
Head
anuruls007@gmail.com
SM. ASCE # 1159077
Mob: 8848251550

ADVISORS



FACULTY ADVISOR

Dr. Neethu Roy
 Prof. & Asst. Dean (R&D)
 Dept. of Civil Engineering,
 MBCET
 Kerala, India
 M.ASCE # 10452418
 neethumbt@gmail.com
 Mob: 967169399



PRACTITIONER ADVISOR

Dr. Kuncheria P. Issac
 Vice Chancellor
 Hindustan Institute of
 Technology and Science
 (HITS)
 Chennai, India
 A.M.ASCE # 10472223
kpissac@yahoo.com



PRACTITIONER ADVISOR

Mr. Kesavan
 Gangadharan
 Structural Consultant –
 Iyer and Mahesh,
 Thiruvananthapuram,
 Kerala, India
 F.ASCE # 360479
assekgl@gmail.com
 Mob: 9446748253

Financial Summary

Dues structure (\$/year, semester)

- As of January 31, 2020
 - Total income : \$1447.84
 - Total expenditures : \$1013.86
 - Cash Balance : \$433.98
 - Accounts receivable : NIL
 - Accounts payable : NIL

Mission of the ASCE Student Chapter of MBCET is to enhance the professional and personal development of Civil Engineering students of MBCET, to enable them grow as ethically strong engineers, who will serve the industry and the society.

Mission of the chapter is in tune with the mission of the Department of Civil Engineering, MBCET which is “to provide engineering education which can create exemplary professional Civil Engineers of high ethics with strong conceptual foundation coupled with practical insight, to serve the industry and community”



Our Mission





Goals and Objectives

- 1 Increase membership by 25%
- 2 Self development of the ASCE members in technical and non technical aspects
- 3 Commitment towards society or interaction with society other than ASCE members
- 4 Motivation for future generation of Civil Engineers

Goal 1: Increase ASCE student membership by 25%

At present the students of second, third and final year of Bachelors Programme are active members of the Student chapter.

To improve a sense of responsibility among the members, the executive committee has decided to collect a nominal amount of Rs. 100 (INR) from the members as membership fee. This will also contribute towards the establishment charges.

Action Plan: Events are planned to familiarize activities of the chapter and to encourage the first year students to join the chapter.

- A presentation was conducted on “What is ASCE ?” was presented in classes of students of 2nd year by the Executive Committee members.
- A one day event was conducted for the 1st year students including an orientation class on ASCE Student chapter was given and a model making competition.

Goal 2: Self development of the ASCE members in technical and non technical aspect

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Action Plan: The members are encouraged to participate in technical events being conducted by other professional society bodies of the institution and other institutions. In addition, they have planned many activities for upcoming academic year.

Workshops, Technical talks etc.

- A two day hands-on workshop for 4th years at Laurie Baker Centre for Habitat Studies.
- Workshop for teachers on Geotechnical Laboratory Testing.
- Organize a talk on Smart City by Mr. Renjith Ramachandran, working at Global Startup Ecosystem, UST Global.
- Organize a talk on Special Concrete and material characteristics by Dr. Sunitha K Nayar, Assistant Professor, IIT Palakkad.
- Organize a talk on 'Internet of Things (IoT) by Advait U, Undergraduate Student, Computer Science Department, MBCET, by the Student Chapter of ASCE in association with Catalyst Innovation and Entrepreneurship Development Center of MBCET.

Field trips

- Visit to water treatment plant at Wonderla Amusement Park, Kochi, Kerala
- Visit to new building construction site at MBCET
- Visit to the approach road construction site of MBCET is arranged on a regular basis.

Glimpse

A video show of various advances and fascinating developments in the construction industry being arranged every week Friday during the lunch break. Any interested students can come and watch.

Know Your Alumni (KYA)

In “Know your Alumini’ series, Ms. Clara Baby Mangalath, alumni of MBCET (2012-2016) interacted with the final year students. Clara is now working as Research Associate in Helmut-Schmidt University, Hamburg, Germany.

Goal 3: Commitment towards society/interaction with society other than ASCE members

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Action Plan: Improve the interactions of the members with other Professional Society bodies and also increase the societal activities.

- Many members of the team are already associated with many societal activities being organized by the Department and National Service Society of the College.
- Many more students have volunteered to be part of the Societal wing of the student chapter and have started planning the activities for the next academic year.
- Members of the MBCET Student Chapter of ASCE helped spread smiles and happiness by conducting a interactive programme and providing lunch to the inmates at 'Santhibhavan', a care home for the mentally challenged on 21st September 2019.

- The ASCE student chapter of MBCET visited and spent time with the children at the Balika Bhavan, a home for girl children on 20th October 2019. The children at the Bhavan was excited, sweets and gifts were distributed to them. It was a fun filled day with games, music and dance. Food was also served.
- The members of MBCET Student Chapter of ASCE on 27th November 2019 visited Shalom special school. It is an institution which provides both shelter and needed education for mentally retarded children. Fun activity session was also arranged for the children to showcase their abilities. Snacks sweets and drinks were provided for the inmates along with some necessary stationaries.

Goal 4: Motivation for future generation of Civil Engineers

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Action Plan: To bring students from potential schools, both Government and Aided to the college and do awareness programme about Civil Engineering stream.

This includes hands-on training at basic Civil Engineering workshops, motivational talk by Head of the department and so on.

Membership Statistics

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- Total number of Student Group members - 210
- Total number of ASCE National Society-level members - NIL

Meeting Statistics

- Professional meetings with an invited speaker - 5
- Meetings with student presentations and/or paper(s) presented - 1
- Professional licensure meetings and/or ethics topics presented - 0
- Field Trips - 2
- Social Functions - 6
- Officer or planning meetings - 5
- Number of students that attended Section/Branch meetings - 0
- Number of students that attended Younger Member meetings - 0
- Student presentation about ASCE to another organization - 2
- Collaboration with another student organization - 1

Significant Events

ASCE student chapter members secured **First Place** for **Shot Put Design Competition** using concrete conducted by the Student Chapter members at ASCE National Conference Held at NMIMS, Mumbai



Project Unnat Bharath Abhiyan (UBA)

- The members of MBCET Student Chapter of ASCE are doing projects under the **UBA scheme** of Govt. of India
- These projects help in identifying **development challenges** and evolves appropriate **solutions** for accelerating **sustainable growth**.
- This project's study area is **Manikkal village** in Trivandrum district
- The project aims to **renovate the mismanaged market** in the area by:
 - Efficiently utilising the available area
 - Design and implement a proper waste management system



Meetings

Talk by Mr. Renjith Ramachandran, Global Startup Ecosystem, UST Global

- A **pre-event summit** on **smart city**
- The talk was an interactive session in which he discussed various concepts of smart city, starting from smart society, lighting, traffic etc.
- Venue: Senatus Hall, MBCET (30th March 2019)
- No. of attendees - 60



Technical Talk by Dr. Sunitha K Nayar, Assistant Professor, IIT Palakad

- Topic: **Special Concrete and material characteristics**
- The talk was delivered with great eloquence and hard lasting impression on the students
- With live examples she explained characteristics of concrete systems, the need to test a material, levels of characterization, qualitative and quantitative comparison, different engineering properties etc.
- Venue : Laurie Baker Hall, MBCET (12th April 2019)
- No. of attendees - 100



Technical Talk by Dr. A. Veeraraghavan, Professor, Department of Civil Engineering, IIT Madras

- Topic : **Scope of Civil Engineers in Transportation Engineering Sector**
- Interactive session on topics such as different job opportunities in transportation sector, the development of urban and rural roadways, use of Geocells, Geomembranes, Geogrids etc.
- He also shared his experience in industrial and teaching field
- The session was a great motivation to the young budding engineers
- Venue : Vishveshwarayya Hall, MBCET (2nd August 2019)
- No. of attendees - 130



Technical Talk by Advait. U, Undergraduate Student, Computer Science Department, MBCET

- Topic : **Internet of Things (IoT)**
- The session covered the details on network, its implementation, communication and various resources of IoT
- The concept of IoT was clearly explained using day to day examples.
- Venue : Laurie Baker Hall, MBCET (4th October 2019)
- No. of attendees - 50



Interactive session with Ms. Clara Baby Mangalath

- Ms. Clara Baby Mangalath, from the 2012-2016 MBCET batch interacted with the final year students
- Ms. Clara did her Master's programme at the Technical University of Dresden, Germany. After successful completion, she has entered into a new job position as Research Associate in Helmut-Schmidt University, Hamburg, Germany
- **KYA series – Know Your Alumini**, organized by MBCET student chapter of ASCE
- Free open discussion on various possibilities of Civil Engineering in Germany
- Venue : Laurie Baker Hall, MBCET (16th November 2019)
- No. of attendees - 70



New year meetup

- A New year meet up was held on 17-01-2020 at Civil Department of MBCET for all **executive committee members and volunteers**
- Students shared their last year memories and discussed **future activities** to be conducted by the chapter
- The main activity emphasized is the upcoming student summit on Smart city.
- The meeting dispersed after having refreshment.
- Venue: Geotechnical Lab
- No: of attendees- 60



Training programme for faculty of MBCET

- A training programme on **Geotechnical Laboratory Testing** was organized for the teachers and lab technicians from various colleges
- Conducted by Department of Civil Engineering, MBCET in association with MBCET Student Chapter of ASCE on 9th and 10th January 2020
- The program included lecture sessions and a visit to the world's second largest soil museum at Trivandrum



Workshop at Laurie Baker Centre for Habitat Studies

- A two day workshop was conducted at the **Laurie Baker Centre for Habitat Studies**, Vilappilsala on the 9th and 10th of November, 2019, organised by the MBCET Student Chapter of ASCE
- The programme included theoretical sessions as well as **hands on training sessions**. Classes on cost effective construction technologies was also given.
- Hands-on training sessions were conducted on Random Rubble Masonry, Brick masonry- Rat trap bonding, Mud masonry and construction of arches using bricks
- Participants were divided into groups of four and were guided by engineers and masons of Costford.



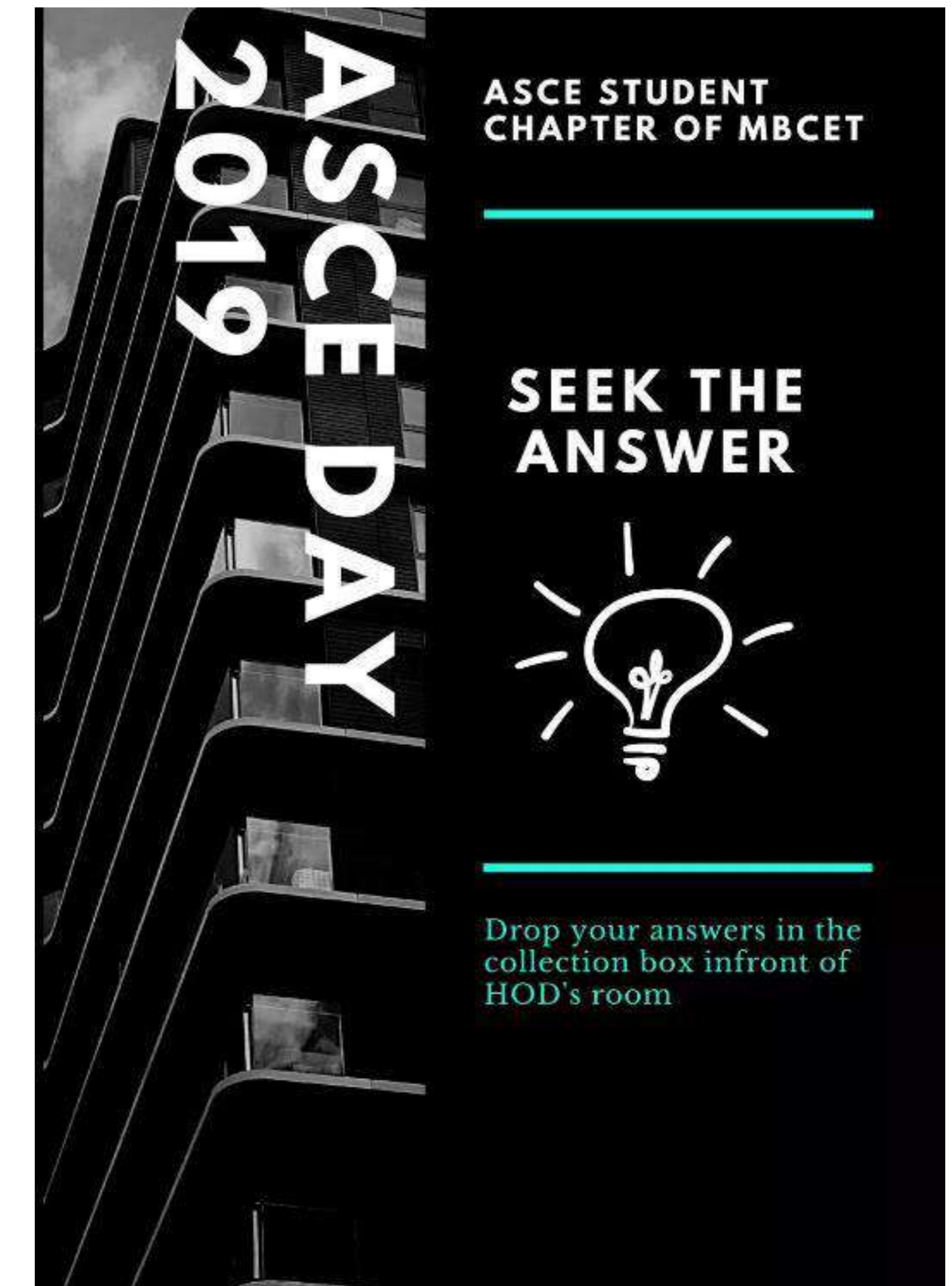
Smart City Exhibition

- The MBCET Student Chapter of ASCE conducted an exhibition on **Smart City** during **Crossroads**, the techno-cultural fest of MBCET
- Many models showings various **smart city infrastructures** were exhibited
- The Exhibition also had food stalls and stalls for fun activities
- The exhibition was a huge success and had a great response



ASCE Day

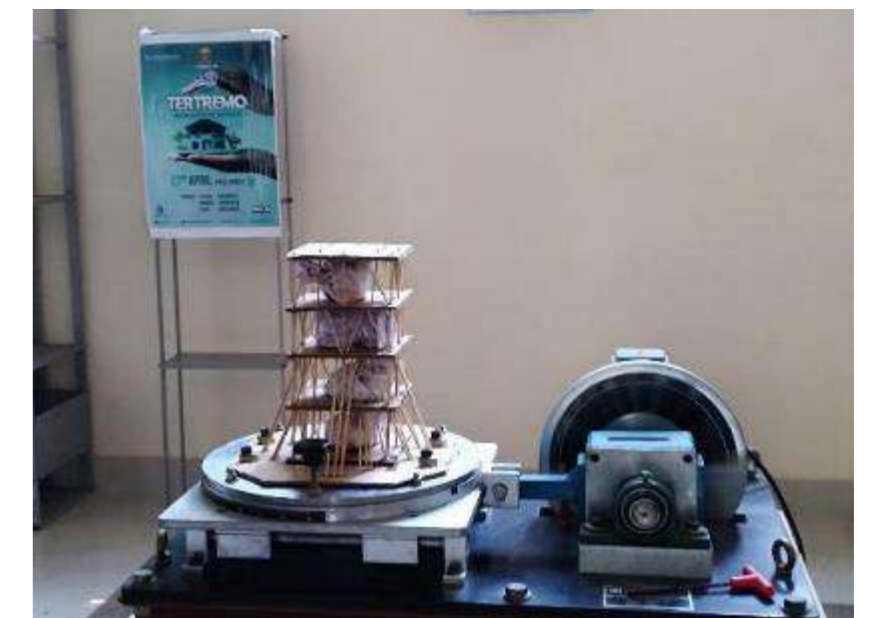
- As part of the **ASCE day** (5th November 2019) a **quiz competition** was conducted by the ASCE Student Chapter of ASCE
- The quiz consisted of 4 posters with 5 questions set at different locations of the department
- The participants were asked to drop their answer in a common box
- Venue: Department of Civil Engineering, MBCET



Technical Events

'Tertremo' @ Uthbav 2019 (27th April 2019)

- An event to bring out the ideas of young budding engineers with the ability to design much safer buildings
- The contestants understanding of material characteristics and strength were analyzed
- The participants were asked to design and model an earthquake resisting model. A load was attached to it and finally tested on a harmonic shake table
- Based on the strength and other criteria best design was awarded



Technical Events

Nirmaan- a model making competition. (30th March 2019)

- As an orientation programme for first year students, a technical event called **Nirmaan**, a model making competition, was conducted
- The students were given an **talk on ASCE** and the works done by the chapter in MBCET
- After the talk the students were participated in a competition, in which they were asked to **build a model of a bridge** using given materials
- The best model build was rewarded



Site Visits

➤ The members of MBCET Student Chapter of ASCE visited a construction site within Mar Ivanios Vidhya Nagar



Social events

“It is more agreeable to have the power to give than to receive

- The members of the MBCET Student Chapter of MBCET visited **Santhibhavan** on 21st September 2019.
- Santhibhavan is an institution which provides **shelter for mentally retarded people**. The visit was to spend time with them and provide them with lunch.
- Member's of the student chapter **served food** for them and had lunch with them.
- The team members were glad to spent time with the inmates who needed love and care. The most precious thing about the visit was their happiness.



Social events

A day with the children

- MBCET 2009 batch students and ASCE Student Chapter of MBCET visited **Balika Bhavan** at Kattela as part of Annu Memorial on 20th October 2019 in association with Annu Memorial Charitable Trust.
- Balika Bhavan is a home for **girl children** which help them in education and other things.
- The children at the Bhavan was excited, sweets and gifts were distributed to them. It was a fun filled day with games, music and dance. Food was also served.
- Kerala State Youth Commission's Youth Icon Award Winner Mr. P. S. Krishna Kumar was also present in the occasion



Social events

Mazhavillu (Adding colour to their life) Charity Programme

- The members of MBCET Student Chapter of ASCE visited **Shalom Special School** on 27th November 2019 as part of Christmas celebration of the student chapter.
- Shalom special school is an institution which provides both shelter and needed education for **mentally retarded children**
- An **interaction session** was conducted in which the talents of the inmates were shown. Members of the student's chapter also participated with them
- Snacks sweets and drinks were provided for the inmates along with some necessary stationaries



Farewell to seniors

We take over the responsibilities of ASCE student chapter as our seniors take leave..

They have been a source of inspiration to carry this legacy forward..

We will greatly miss the time being with them..

A small but sweet farewell was organized for our elder brothers and sisters..



Celebrating the state festival of Kerala

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A day to remember one's culture and traditions.

Onam the state festival of Kerala was celebrated

On this wonderful day, students and teachers came in colorful and traditional attires.

This day marked the event when in spite of westernization and modernization, the young hearts were able to revive some of the customary rituals of Kerala

Smart City Summit

- The MBCET Student Chapter of ASCE is planning to organize a Smart City summit.
- The event is currently scheduled during the month of July 2020
- The summit will include various talks by industrialists and people working in the field of smart city, exhibitions on smart city, workshops and idea pitching competitions

Direct the queries to mbcetasce@gmail.com

THANK YOU

