

SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

Ref. : 583/ Dean (Sol) / 1023

Date: 11.10.2023

REPORT OF GUEST LECTURE

Date & Time	Speaker	Title	Venue
3.10.2023 & 2.30 p.m	Mr.M.Suman Dhas	Advanced Construction Technology in Infrastructure Projects	Seminar Hall, Management studies, BSACIST

I.INTRODUCTION

The Student Chapter of the American Society of Civil Engineers (ASCE), Department of Civil Engineering, School of Infrastructure organized a guest lecture on “**Advanced Construction Technology in Infrastructure Projects**” on 3.10.2023 at 2.30 p.m at Seminar hall, Department of Management studies, for the benefits of the UG and PG students.

ASCE
STUDENT CHAPTER
BS Abdur Rahman
University

Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Student Chapter of
American Society of Civil Engineers (ASCE)
Department of Civil Engineering
School of Infrastructure
Organizing

Guest Lecture
on
**Advanced Construction Technology
in Infrastructure Projects**

Resource person:
Mr. M. SUMAN DHAS
CHIEF ENGINEERING MANAGER
L&T CONSTRUCTION, CHENNAI

03rd October, 2023
02.00 – 03.30 pm

Seminar Hall
Department of Management Studies

Student Co-ordinators
Abdur Rahman, President, IV yr. Civil Engg.
Mohammad Yasin Mazid, Secretary, III yr. Civil Engg.
Sanjana D M, Treasurer, III yr. Civil Engg.

Faculty Co-ordinators
Dr. V. S. Priya, Asso. Prof.
Ms. K. Kanmani, Asst. Prof. (Sr.Gr.)

Convener
Dr. M. S. Haji Sheik Mohammed
Professor & Dean (Sol)

Invitation of Guest Lecture

II.ABOUT THE SPEAKER

Mr. M. Suman Dhas, holds B.E. degree in Civil Engineering and M.E. in Construction Engineering and Management. He is working as **Chief Engineering Manager, L&T Construction Chennai**.



Mr. M. Suman Dhas
Chief Engineering Manager
L&T Construction, Chennai

III. ABOUT THE GUEST LECTURE

Construction technology is rapidly evolving with new technologies. As the construction industry adopts new technologies, there is a need for updating in order to improve the efficiency, productivity, and safety in construction.

Mr. Mohammad Yaasin Mazid, the Student Secretary of ASCE from III Year B.Tech., Civil Engineering extended a warm welcome to the dignitaries and the students. In his welcome address, the student secretary briefed about the significance of the ASCE and its role in helping civil engineering professionals in terms of technology advancements, etc.

Dr. M.S. Haji Sheik Mohammed, Professor and Dean, School of Infrastructure addressed the students and emphasised the need for the development of the infrastructure and the role of budding Civil Engineers. Dean (SOI) enlisted some of the advancements in construction techniques including the importance of pre-stressed structures. Dean appreciated the Chief Guest for the execution of extensive railway projects across India and advised the students to make use of the

opportunity provided by the Institute for interaction with the experts from the Industries.

Ms. Hemashree Gurunathan, III Year B.Tech., Civil Engineering introduced the chief guest to the participants where she elaborated some of the significant projects executed by the resource person and also highlighted the some of his career achievements while serving various positions in L&T construction.



**Welcome address by
Mr. Mohammad Yaasin Mazid ,
Student Secretary of ASCE,
III Year B.Tech., Civil Engineering**



**Guest Introduction by
Ms. Hemashree gurunathan,
III Year B.Tech., Civil Engineering**



**Felicitations by
Dr. M.S. Haji Sheik Mohammed,
Professor and Dean, School of Infrastructure**



**Inauguration
Left to right : 1. Dr.Priya VS, Associate Professor,
BSACIST, 2.Mr. M. Suman Dhas, Chief Engineering
Manager, L&T Construction, Chennai,
3.Dr. M.S. Haji Sheik Mohammed, Professor and
Dean, School of Infrastructure**

IV SALIENT POINTS DISSEMINATED IN THE GUEST LECTURE

Mr. M. Suman Dhas, Chief Engineering Manager, L&T Construction, Chennai began the discussion elaborating his contributions to the construction industry, specifically in construction technology. The speaker initially discussed about some of the major challenges faced during the construction such as cost, traffic, existing infrastructure viz., bridges, sewer lines etc., and safety and then explained the technologies being used in the construction of the Metro rail in Chennai and the high-speed railway from Mumbai to Ahmedabad.



**Presentation of Mr. M. Suman Dhas,
Chief Engineering Manager, L&T
Construction**



Participation of Students

Mr. M. Suman Dhas explained about the manufacturing of cast-in-situ viaduct and its assembly in on-site. The speaker specified that this method is generally more time-consuming and resource-dependent and causes traffic disruptions. However, this method offers several advantages, such as the ability to construct custom bridges at any location.

The speaker discussed about the precast segmental method (PSM) which is a widely used construction technique for bridges and other structures. The steps involved in the construction, the application of Launching girder for lifting and assembling segments of the bridge components, assembling of bridge segments was elaborated to the participants through video. The speaker also emphasized on the some of the challenges faced in obligatory viaduct construction and the complex engineering and design required for its implementation. Mr. Suman Dhas highlighted a few innovative technologies that are being used in the construction industry, such as 3D printing, robotics and emphasized the need for a multi disciplinary approach in

engineering. The session was very much informative and interactive. The students clarified their doubts through a very active interaction with the speaker.

The following students and faculty members were present during the lecture

A. Faculty members

1. Dr. M.S. Haji Sheik Mohammed, Professor and Dean, School of Infrastructure
2. Dr. P.Gajalakshmi, Professor
3. Dr. Priya V.S., Associate Professor
4. Dr. Nisha Khanam, Assistant Professor (Sel. Gr.)
5. Mr. A.Sheik Farid, Assistant Professor (Sr. Gr.)

B. III Year B.Tech Civil Engineering Students

S.No	RRN	NAME	S.No	RRN	NAME
1	210011601001	ABDUL BAASIT H	21	210011601032	SAMEER AHMAD
2	210011601002	ABDUL RAZZAQ AHMED BIJILI A M	22	210011601033	SANJANA D M
3	210011601003	AFSAL AHAMED A	23	210011601035	SHAIK HUZAFUR RAHMAN
4	210011601004	AHAMED RISWAN	24	210011601037	SHIEK MOHAMED GHOUSE Z
5	210011601005	AJMAL R	25	210011601038	SYED SALAVUDEEN S M
6	210011601006	AMRES KISHORE J	26	210011601041	YASWANTH M
7	210011601007	BHUPATHIRAJAN A P	27	210011602001	AASHIQ T A
8	210011601008	GURUPRASATH J	28	210011602005	DEEPARATCHAGAN R
9	210011601009	HASAN SHA	29	210011602012	MOHAMMED HARIS K
10	210011601010	HEMASHREE GURUNATHAN	30	210011602013	MOHAMMED THOUFIQ
11	210011601013	MISFAHUR RASMI	31	210011602014	NITHISH KUMAR V
12	210011601019	MOHAMMAD YAASIN MAZID	32	210011602016	NOOR MOHAMED S A K
13	210011601020	MOHAMMED AARIEF B	33	210011602017	PRASHANTH B
14	210011601023	MOHAMMED SHAHEER AADIL	34	210011602018	PRITHIK RAMAN R
15	210011601025	NIMAL H	35	210011602019	SAKTHI N
16	210011601027	NIZAMUDEEN R	36	210011602020	SANTHOSH KUMAR V
17	210011601028	PRAVEEN KHANNA A R	37	210011602021	SHAMEER M
18	210011601029	RAGAVAN K	38	210011602026	VIJAY B
19	210011601030	RAGUL KUMAR G	39	210011602027	VIMAL NIRANJAN S
20	210011601031	RIYAZ AHAMED N U	40	210011602028	YAHSMIN PARVEEN

C. IV Year B.Tech Civil Engineering students

S.No	Registration Number	Full Name
1	200011601001	ABDUR RAHMAN AWON AS SULAIMAN .J
2	200011601002	AFZAL AHAMED .F.H
3	200011601003	AHMED UMAR MURAD
4	200011601004	AJMALKHAN .A
5	200011601005	AKHEEL FARDEEN .M
6	200011601007	ARPUTHA .T
7	200011601008	JAI AKASH .K .R
8	200011601009	KHALID ABDUL KADER .S.A.H
9	200011601010	MOHAMED SHAMMAZ HUSSIAN .S
10	200011601011	MOHANA PRASATH .S.K
11	200011601012	NABEEL ABDULLAH
12	200011601013	NITHISH KUMAR .U.K
13	200011601014	ROSHAN AHAMED .N
14	200011601015	SAFEER JASIM .S
15	200011601016	SAHUL HAMMED ARZATH .P
16	200011601017	SHAHUL HAMEED YASAR .M
17	200011601018	SHAIK FAZIL NAWAZ
18	200011601019	VASANTHARAJA .D
19	200011601020	YESWANTH .V
20	200011601021	UMAR ABDUL QADIR S
21	200011602001	ABDUL MATHIN M
22	200011602002	AHAMED M
23	200011602003	GODSON JISHORE
24	200011602004	HAKKEEM MOHAMED A R
25	200011602005	KARTHIK M
26	200011602006	KARTHIKEYAN D
27	200011602007	MOHAMED JAFAR ALI K
28	200011602009	MOHAMMED YUSUF
29	200011602010	NITHISH J
30	200011602011	PRASANTH A
31	200011602012	RAJESWARAN J
32	200011602013	RISWAN H
33	200011602014	SAM ANDREWS S
34	200011602015	SHAHEETH HUSSAIN
35	200011602017	THAZEEM MOHAMED J S
36	200011602018	UDAYA PRAKASH C
37	200011602019	VARUN S
38	200011602020	VIKRANTH R

D. The students from M.Tech Structural Engineering (III Sem) also participated in the guest lecture .

Vote of thanks was proposed by the ASCE Faculty Coordinator and the organiser of this guest lecture, Dr. Priya V.S, Associate Professor. The organizer thanked the Dean (Sol) for giving an opportunity for the students to interact with the experts from the industry. The organizer thanked the speaker Mr. Suman Dhas for his very informative lecture and also for sharing his industrial experience with the students. A memento was awarded to the chief guest as a token of appreciation.



Awarding memento to the Guest speaker, Mr. M. Suman Dhas

IV. COURSE RELEVANCE

The students of IV year B.Tech., Civil Engineering (under Regulation 2017, R-2017)) are currently studying, an elective course on CECX62 Smart cities. The main objective of this course is to explore issues relating to the development and deployment of new and emerging technologies that will create a thorough understanding of smart processes and systems of the present and future. The guest lecture on “Advanced construction technology for Infrastructure project” would be a value addition for this course because through this lecture the latest and smart technology that are adopted in the construction of metro rail and high speed rail was disseminated to the students.

V.S. Priya

M.S. Haji Sheik Mohammed

Dr. Priya VS
ASCE Faculty Coordinator

Dr. M.S. Haji Sheik Mohammed
Dean (School of Infrastructure)