



Report on
Alumni Guest Lecture held on 15.10.2024
“MANUFACTURING OF CEMENT: THEORY TO THE REALITY”
 Organized by
Department of Civil Engineering

Alumni Talk
 on
Manufacturing of cement: Theory to the reality

Karthik Varma A
 Jr. Concrete lab incharge and chemist
 Shree cement Ltd
 Hyderabad

2.00 PM
 15.10.2024, Tuesday
 Seminar Hall A

Organized By: ASCE MITS Student Chapter, Department of Civil Engineering in collaboration with Alumni Cell

Chief-Patron Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	Patron Mrs. N. Keerthi Executive Director	Co-Patron Dr. C. Yuvaraj Principal
Chief Co-ordinator Dr. Dipankar Roy HOD of Civil & ASCE Faculty Advisor	Faculty Coordinator Mrs. Anitha K Asst. Professor, Civil	Student Coordinator C. Navya Sree S.M. ASCE, III Year Civil Engineering

Submitted by: Mrs. Kandukuri Anitha, Assistant Professor, Dept. of Civil Engineering, MITS.

Organised By: ASCE MITS Student Chapter in collaboration with Alumni Cell

Participants: Civil Students and Staff (No. of Participants: 100)

The inauguration of the alumni guest lecture was started at 2:00 P.M in Seminar hall A , the dignitaries were **Dr. Dipankar Roy**, HoD-Civil and ASCE Faculty Advisor, **Dr. Kiran Kumar R**, MITS Alumni coordinator, **Mr. A. Karthik Varma**, Alumni of Civil engineering department MITS and Dr. Sudheerkumar Y, Department Alumni Coordinator.

The interaction was started with opening remarks by, **Dr. Dipankar Roy** who thanked management for creating an opportunity to invite the Alumni members of the institute and enabling them to interact with the students and enlightening them with the current developments. **Mrs. Kandukuri Anitha** has introduced about the speaker and invited him to share his valuable experiences to the students. The number of students participated in the

lecture were around 100. After inaugural session, the main session was started at 2:00 P.M, **Mr. A. Karthik Varma** explained about **Manufacturing of Cement: Theory to Reality**. The session was interactive, and He clarified the doubts raised by students. **Mr. A. Karthik Varma** mostly concentrated on explaining the entire cement production process, bridging the theoretical aspects with practical industry insights. Here's a brief explanation:

1. Introduction to Cement

Definition: Cement is a binding material used in construction that sets, hardens, and binds other materials together. It's essential for making concrete, a key building material.

Types of Cement: Ordinary Portland Cement (OPC), Blended Cement (with fly ash, slag), etc.

2. Raw Materials

Limestone: The primary raw material (about 80%).

Clay, Shale, and Sand: Provide silica, alumina, and iron oxide.

Gypsum: Added later to control the setting time of cement.

3. Manufacturing Process

1. Quarrying: Extraction of raw materials like limestone from quarries.
2. Crushing and Grinding: The raw materials are crushed and ground into fine powder.
3. Proportioning and Blending: Ensures correct composition by mixing raw materials in precise ratios.
4. Preheating: The raw mix is heated in preheater towers to remove moisture and prepare it for the kiln.
5. Clinkerization: In the rotary kiln, the raw mix is heated at high temperatures (1400-1500°C) to form clinker (small gray balls of cement).
6. Cooling: The clinker is cooled quickly.
7. Grinding: The cooled clinker is ground with gypsum to produce the final cement.

4. From Theory to Reality: Practical Challenges

Energy Consumption: Cement manufacturing is energy-intensive, requiring a lot of fuel for the kiln process.

Environmental Impact: Cement production generates significant CO₂ emissions, which is a major global concern.

Innovations: Sustainable practices like the use of alternative fuels (waste, biomass) and incorporating industrial by-products (like fly ash, slag) to reduce emissions and energy consumption.

5. Current Industry Practices

Automation and Smart Manufacturing: Modern cement plants use automation for precision and efficiency, minimizing human errors.

6. Sustainability Initiatives: Many companies are exploring greener production methods, such as carbon capture technologies and low-carbon cements.

The session was completed at 5:00 P.M, and he clarified the queries of enthusiastic young minds with a great zeal during the interaction time.

Outcome of the event:

The expected outcomes of the alumni talk on "Manufacturing of Cement: Theory to Reality" include:

Enhanced Understanding: Participants will gain a clearer understanding of cement manufacturing processes, bridging the gap between theoretical knowledge and practical applications.

Networking Opportunities: Attendees will build valuable connections with alumni and industry professionals, fostering potential mentorship and collaboration.

Career Insights: Participants will receive guidance on career pathways in the cement and construction industries, including skills and roles in demand.

Awareness of Innovations: The event will highlight current trends and innovations in cement manufacturing, particularly regarding sustainability practice

Vote of Thanks: Bhargavi proposed a vote of thanks to Resource person, HOD, III Year B. Tech Students for attending the interaction programme and he extended his thanks to the Principal, and the Management for their support to conduct the Programme. We thank ASCE MITS Student Chapter and Alumni cell, for their continuous support to make this event a success.



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Felicitation

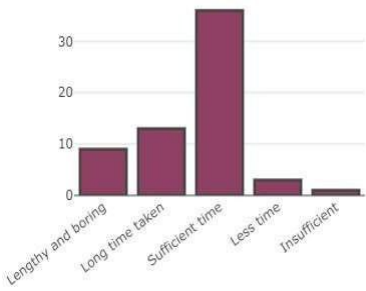


Feedback Analysis

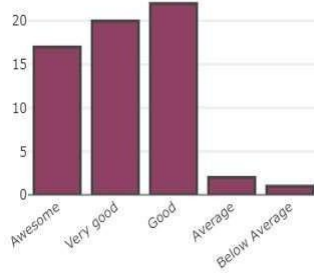
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Alumni Talk on Manufacturing of Cement: Theory to the Reality

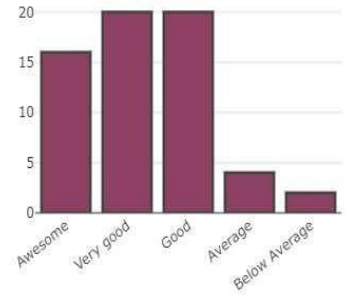
Timely execution and delivery of event



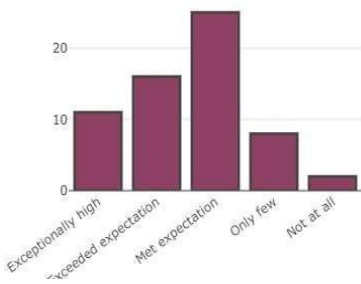
Quality of lecture delivery



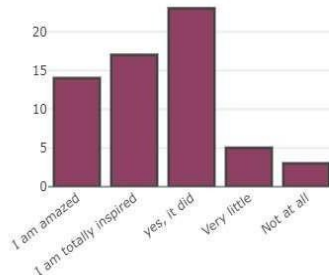
Quality of presentation and Contents



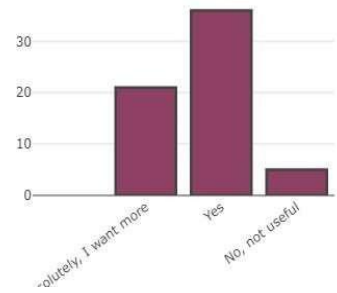
Did the event meet your expectation



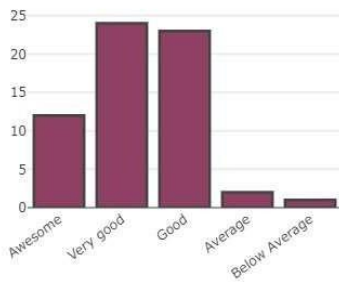
Does it inspire you to explore further opportunities



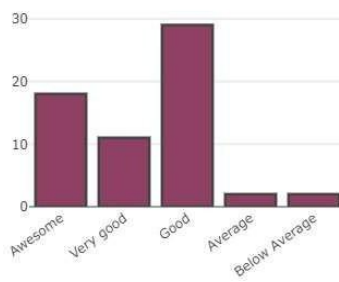
Do you want similar events in future



Overall organisation and coordination of event



Overall learning



Attendance

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

II Year I Semester

B.Tech

Civil Engineering

Alumni Talk on Manufacturing of Cement: Theory to the Reality

15-10-2024

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1	23691A0101	ASHRAF ALI SYED	Ashraf Ali
2	23691A0102	CHEEMA LAPENTA AZMATH	C. Azmath
3	23691A0104	GUNDLURI BHARGAVA	G. Bhargava
4	23691A0105	GENGIREDDY GARI CHANDANA	G. Chandana
5	23691A0107	MOPUR DHEERAJ KUMAR	M. Dheeraj Kumar
6	23691A0108	BOORSU DINESH	
7	23691A0109	SHAIK FARHA TAJ	S. Farha Taj
8	23691A0110	PALAGIRI FAROOQ	
9	23691A0111	SHAIK FAYAZ	S. Fayaz
10	23691A0112	UPPARA GANEEL KUMAR	U. Ganeel Kumar
11	23691A0113	TUMMALA GNANESWARA	T. Gnaneswara
12	23691A0114	HARSHAVARDHAN REDDY PUSA	P. Harsha Varadhan Reddy
13	23691A0116	THOTA HEMAVADANA	T. Hemavadana
14	23691A0117	S JAFAR SADIK	S. Jafar Sadik
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16	23691A0119	KANDALA KIRAN KUMAR	
17	23691A0120	KAVYA JALIPIGARI	J. Kavya
18	23691A0121	RAJAKA MANO NARASIMHA	
19	23691A0122	ESUKAPALLI MEGHANA	F. Meghana
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21	23691A0125	NYNI TELIKI	T. Nyri
22	23691A0126	PAUL DANIEL PREM	P. Daniel Prem.
23	23691A0127	CHINTHAMANU PRASANNA KUMAR	
24	23691A0128	PALYAM PRASANTH	P. Prasanth
25	23691A0129	S.PRAVEEN KUMAR REDDY	
26	23691A0130	N RADIYA	N. Radiya
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30	23691A0134	THIPPAGUNTHALA REKHA DIVYA	T. Rekha
31	23691A0135	SHAIK SAHIRA	S. Sahira
32	23691A0136	SIBYALA SAI HARITEJA	S. Saihariteja
33	23691A0137	SHAIK MAHAMMED SAIF	S. Mohammed Saif
34	23691A0139	SHAIK SYED SHAVALLI	S. Syed Shanuli
35	23691A0140	SANDRA SIMHADRI	
36	23691A0141	SIVAKUMAR NALLAGUTLA	
37	23691A0142	VADDIREDDY SREEHARI REDDY	V. Sreehari
38	23691A0143	RODDAM SUDARSAN	
39	23691A0144	NARUBOINA SUMANTH	
40	23691A0145	KARAMALA TEJA	N. Sumanth
41	23691A0146	P THARUN	K. Teja
42	23691A0147	YALLAPALLI THARUN SAI	
43	23691A0148	PATAN MOHAMMED THOUFIQ	P. Md. Thoufiq.
44	23691A0149	MACHAGANI VARUN KUMAR	Varun Kumar

45	23691A0150	G VIDYASAGAR	Vidyaasagar
46	24695A0101	SAYYED AFRIN	
47	24695A0102	ULINDALA AMRUTHAVALLI	U. Amrutha
48	24695A0103	KAYALA ANUSHA	K. Anusha
49	24695A0104	YEMMANI CHINNA NAGANNA	
50	24695A0105	CHAKALA HARSHA	C. Harsha
51	24695A0106	SIDDE JHANSI	S. Jhansi
52	24695A0107	DUDEKULA LAL BASHA	D. Lal basha
53	24695A0108	GAJULAPALLI LOKESH	G. Lokesh
54	24695A0109	GUDDITI MAHESH BABU	G. Mahesh
55	24695A0110	KORLAKUNTA MANASWITHA	K. Manaswitha
56	24695A0111	PULLALAREVU MENAKA	P. Menaka
57	24695A0112	PONNAPATI MURALI	
58	24695A0113	RACHANNA GOUD GARI NATARAJ	R. Nataraj
59	24695A0114	DADAM NAVITHA	D. Navitha
60	24695A0115	ELIKE PAVAN SAI	E. Pavan Sai
61	24695A0116	KONARAJUGARI PRASANTH	K. Prasant
62	24695A0117	ERLA RAJ KUMAR	E. Raj kumar
63	24695A0118	REDDYVARI SUDARSHAN YADAV	R. Sudarshan yadav
64	24695A0119	KOYYALA SUSMITHA	K. Susmitha
65	24695A0120	AGOLU HARI KRISHNA	A. Krishna
66	24695A0121	PAPPAKA VISWANATH	P. Viswanath
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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

III Year I Semester

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Civil Engineering

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27	22691A0127	KONKALA RAJA REDDY	
28	22691A0128	BHUCHIPALLI RANJITH KUMAR	
29	22691A0130	GUNDI SUHAS	
30	22691A0131	MANKAMUTHAKA THARUN GANESH	
31	22691A0133	PULAGANTI THEERTHAVASINI	P. Theerthavasini.
32	22691A0134	N VARSHINI	
33	22691A0136	VALASA VENKATESWARLU	V. Venkateswarlu

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38	23695A0104	NIDIGINTI BHANU PRAKASH	
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40	23695A0106	GONDI BHARATHI	G. Bharathi
41	23695A0107	BANDHANATHAM CHANDRA SEKHAR	B. chandra
42	23695A0108	SUGALI DEEPIKA	
43	23695A0109	GANGADHAR MEKALA	
44	23695A0110	CHINTHALA GOVARDHAN REDDY	
45	23695A0111	PUJARI HARSHA VARDHAN	
46	23695A0112	MALEM KUMAR REDDY	M.K.R.
47	23695A0113	PASHAM MALLIKARJUNA	
48	23695A0114	KUMMARA MOHAN KUMAR	K. Mohan
49	23695A0115	PULA NITHIN	P. Nithin
50	23695A0116	SURYAKARI PAVAN KUMAR	
51	23695A0117	THIRUVEEDHULA PRANATHI	
52	23695A0118	PASUPULETI R PUNITH KUMAR	P.R. Punithkumar.
53	23695A0119	ALAKUNTALA REDDY MOUNIKA	A. Mounika.
54	23695A0120	AWARI ROOPA	A. Roopa
55	23695A0121	BAREE SAIRAM REDDY	
56	23695A0122	THUMMALA RIZWANA AZMI	
57	23695A0123	NAKKA SEETHA RAMANJANEYULU	M. Ramasubbar
58	23695A0124	KUDUMALA SIVA KUMAR REDDY	K. Siva Kumar Reddy
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61	23695A0127	KANCHARLA VENKATA SUREKHA	K. Venkata Surekha
62	23695A0128	BUKYA VINOD KUMAR NAIK	B. Vinod Kumar Naik
63	23695A0129	DODDAVULA YASWANTH REDDY	Y. Aswanth

