

**SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE**  
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)  
Seshadri Rao Knowledge Village, Gudlavalleru

*Department of Civil Engineering*

**CIRCULAR**

**Date: 29.11.2021**

This is to inform all the Second B.Tech Students, that the department is organizing an Guest Lecture on “**RECENT DEVELOPMENTS IN CEMENT AND CONCRETE TECHNOLOGY**” in association with Association to Consulting Civil Engineers, Kakinada Chapter by **Er K. Babu Mahesh**, Co-founder, JP Consultants on 1<sup>st</sup> December, 2021 at 10.00 AM in Civil Engineering Seminar Hall. In this regard, the interested students can register for the Guest lecture. For further details, contact the coordinator Mr. N. Haripavan, Assistant Professor.

  
HOD, CE  
**Head of the Department**  
**Civil Engineering**  
Seshadri Rao  
Gudlavalleru Engineering College  
Seshadri Rao Knowledge Village  
Gudlavalleru - 521 356, Krishna District, A.P.



We Cordially Invite you to  
Join us for a Guest lecture  
on



# RECENT DEVELOPMENTS IN CEMENT AND CONCRETE TECHNOLOGY

in association with  
ASSOCIATION TO CONSULTING CIVIL ENGINEERS  
KAKINADA CHAPTER



by

**Er K Babu Mahesh**

Life Member - Association to Consulting Civil Engineers  
Kakinada Chapter



1st December 2021 @ 10:00AM

Venue: Civil Engineering Seminar Hall

Convener

**Dr. A Sreenivasulu**

Professor & Head of the Department

Coordinator

**Nekkanti Haripavan**

Assistant Professor

DEPARTMENT OF CIVIL ENGINEERING



**SESHADRI RAO  
GUDLAVALLERU ENGINEERING COLLEGE**

(An Autonomous Institute with permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, Gudlavalleru

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**SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE**

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)  
Seshadri Rao Knowledge Village, Gudlavalleru

Proposal to Organize FDP/SDP

Date: 26/11/2021.

From  
The HoD  
Department of Civil Engineering  
Seshadri Rao Gudlavalleru Engineering College,  
GUDLAVALLERU

To  
The Principal  
Seshadri Rao Gudlavalleru Engineering College,  
GUDLAVALLERU

Letter No: GEC/CSE/FDP/SDP/2021-2022/

Program : FDP / SDP  
Event : Workshop/Guest Lecture/Seminars/Conference.  
Name of the Event : Latest developments in cement & concrete Technology  
No. of Days : 1  
Duration : 3hrs.  
(Dates) : 01-12-2021.  
Targeted Audience : Student/Faculty/Technical-Supporting-Staff  
If Students  
Year : I / II/ III/ IV B.Tech / M.Tech  
Expected : 100  
No. of Participants : 

External	Internal
-	100

  
Co-ordinator(s) :  
Name : Nekkanti. Haripawan  
Designation : Assistant Professor.  
Mobile No : 9014345098  
Associative Organization if any : -  
Resource person(s) : -

Sl. No	Name	Designation	Organization
1	Fr. K. Babu Mahesh	Co-founder	IP Consultants.

Brief profile of resource person(s) (if available enclose.)

Objective(S) of the program : To provide knowledge on latest developments  
Expected outcome : in cement and concrete technology.  
Students will be able to understand the  
trends in cement & concrete technology.



Approximate Expected Expenditure Statement

		Rs.
a	Honorarium per person/ day/ hour	5,000
b	Hospitality for Resource persons	
c	TA	2,000
d	Banners	
e	Certificates	
f	Lunch / Dinner for Participants	200
g	Snacks for Participants	
h	Scribbling pad and pen etc	
i	Guest Memento	
j	Miscellaneous if any	By Association 600
Total		Rs. 7,800

Amount to be Collected from participants :

No.      @ Rs.      / participant Rs.     

Amount sponsored by others if any  
(CSI/ISTE/IETE/IEEE/Students Association/etc.)

Rs.     

Budget Sanctioned

by the college under FDP/SDP

: Rs. 1,00,000

Budget Spent FDP/SDP (till today)

: Rs. 15,200

Balance amount available

: Rs. 84,800

Amount requested from the college to meet the expenditure : Rs. 7,800  
A-(B+C)

Advance amount Requested to meet the initial expenditure : Rs. 7,800

Kit/ Any other Material given by the Associative Organization : Yes/No

If yes type of supporting material :     

Approximate cost of material / Kit

which is included in the cost collected from the participants : Rs.     

Recommendations of the HoD : This lecture is very much useful to the II year  
Signature of the HoD Kelly Students of Civil Engg

Recommendations of the Vice Principal -Academics May be permitted to conduct  
Signature of the Vice Principal -Academics M. K. S. S. guest lecture

Recommendations of the Principal

Principal Signature

I Nekkanti Arjunan Co-ordinator of the program have received an amount of  
Rs. 7,800 (in words seven thousand eight hundred only) from principals office as an advance amount to  
meet the Initial expenditure.

N. K. S. S.  
Signature of Co-ordinator

## Curriculum-Vitae

**K.BABU MAHESH**

Contact No: 8143900354/8008501092

Land Line: +91866-3553908

Email ID: babumahesh\_76@yahoo.com

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**Work Summary:** 19 Years of experience with Cement, Construction industry & Teaching and Training coordinator background.

**Objective** To achieve what I desire by adding value to my abilities and qualification while exploring the challenging domains.

### Academic Qualification

- 2000-2002, Post-Graduation in Geo-Technical Engineering from NITK. Surathkal, Karnataka.
- 1995-1999, Bachelor of Engineering in Civil from SRKR Engineering College, Bhimavaram, Andhra Pradesh.

### Accomplishments.

- Life time member of **Indian Concrete Institute (ICI)**-Chennai Chapter.
- Life member of **Association of Consulting Civil Engineers (ACCE)** –Kakinada Chapter.

### My Strengths & Skills

- **Training the team of (Marketing and Technical) by Team development programs in techno-marketing aspects.**
- Training the people from the construction industry in the field of cement and concrete.
- **Business development management and Market analyzing skills**
- Expert in making "Power point presentations" and making Videos on technical aspects.
- Having much data bank of **Contractors & Builders and Engineers of Andhra Pradesh.**

### My innovations in "Brand Development Programs"

- Conducted one day program on "**Presentation skills**" to the technical teams of **Jaypee and Ultratech** in assigned territory..
- Conducted two days "**Technical Orientation**" on various topics to entire team of technical services of **Jaypee** .
- Conducted product orientation program for "**Channel partners**" of **Jaypee and Ultratech** in my territory, on product knowledge.
- Mobile van launching program, with wide media coverage, in **Ultratech** (during 2007-2010).
- **Engineers Day Celebrations** in association with local technocrats associations. Which I was implemented in 2007, in AP.
- **Mega Mason meets** with good entertainment programs.



## Honors and Awards

- Honored with life time membership in **ACCE** on the occasion of "**Engineers Day**"-2021 to my "webinar" on "**Principles of Durability Assessment based Designs**" Case Studies, which I was given as a non-member of **ACCE-Kakinada Chapter**, in June 2021.
- Honored and felicitated by **Rajamahendravaram Engineers Association** on the occasion of "**Engineers Day**"-2019 and an awarded to my presentation on "**Under Construction Building Failures**" Case Studies.
- Honored and felicitated by **Engineers & Architects Association-Kakinada** on the occasion of "**Engineers Day**"-2017 and an awarded to my presentation on "**Behavior of RC Structure under seismic loads-case studies**."
- Honored and felicitated by **CREDAI-East Godavari chapter** on the occasion of birthday celebration of "**Sir Arthur Thomas Cotton**" and an awarded to my presentation on "**Durability of Concrete**", in 2014, n behalf of **Jaypee Cement**.
- Keynote speaker for **International Conference** on "**Smart Sustainable Cities**, conducted by (APCRDA-VRSEC) - Vijayawada. Topic: "**Behavior of RC Framed Low rise structures under Seismic loading**" on behalf of **Jaypee Cement**.
- **Chief guest** for technical paper presentation program-(**VEDA-2018**) conducted by **Aditya Engineering College-Kakinada**.
- Selected as **Advisory Committee Member** for **V R Siddhartha Engineering College, B. V .R Institute of technology- Amalapuram & N.B.K.R.Institute of Science and Technology-Nellore** as per **AISTE Nome's** on behalf of **Jaypee Cement Corporation Ltd & Ultratech Cement Ltd**.

## Achievements

- My Major activities have been covered in press and electronic media, in Andhra Pradesh.
- Succeeded in Planned and Executed of activities in all over **AP&TS**, during the launch of new brand **Jaypee** in different passion.
- Succeeded to get brand approval of **Jaypee** to various non trade and Institutional clients in AP, through source approval.
- Made a documentary film on Advantages of Blended Cements on behalf of **JAYPEE CEMENT**.
- Developed power point technical presentations in both (Telugu and English) languages for **Jaypee**, which can be useful for mason and Individual House builders segment.
- Developed few Technical literatures (**Broachers & leaflets**) for all segments on Blended Cements (**Especially on Slag Cement**) and Good Construction Practices for **Jaypee Cement**.
- Good rapport with all Associations of Engineers, Architects, and Builders, (**CREDAI**), and Institutional clients throughout coastal Andhra. It helped me a lot to establish the new brand (**Jaypee**) easily in Coastal Andhra Market in premium category.
- Very good rapport with all "**Channel partners**" of **Jaypee** and **Ultratech**, where it helps me to accelerate the sales.

- Appreciation from Shri Maheshwari ji, MD Ultratech Cement Division-on innovation of conducting "Skill Development Program" for mason contractors in associated with NAC-AP
- Deliver guest lecturers in various topics civil engineering in various Universities/Institutions/Engineering Colleges (Andhra University, JNTU-Kakinada, VRSEC-Vijayawada, GMRIT-Rajam, GVP-Vizag, SRKREC-Bhimavaram, CR Reddy College-Eluru, Vignan University-Guntur, RVRJC-Guntur and NBKR-Nellore).
- Delivered guest lecturers in National Academy of Construction at Various chapters.

#### Experience:

<b>Organization</b>	<b>: JP Consultants</b>
Duration	: April- 2021 to Till date (Start-up)
Designation	: Training Coordinator
Position	: Co Partner
Area of operation	: Andhra Pradesh & Telangana

#### **Objective of this firm:**

The training program quickens the process of achieving new skills, sharpen existing ones, perform better and increase productivity. It enhances the attributes of an employee like personal skill set, job value towards career development benefiting both the organization and employees. Corporate training has helped in achieving job satisfaction and morale among employees and increase efficiencies in process thus resulting in financial gain.

#### **Roles & Responsibilities**

- To share the experience and knowledge to the Technocrat's, Students, and Institutional clients like.. NIT's and Reputed Engg Colleges, by Organizing "Webinars and Seminars". During this pandemic Covid-19.
- Delivered few technical webinars in professional bodies Association of Construction Civil Engineers (ACCE)-India and Indian Concrete Institution (ICI) in various chapters on various civil engineering topics
- Organized few Skill Development Programs for Manson & Contractors in latest developments in National Academic Construction (NAC)-Andhra Pradesh. And conducted "Webinars' by digital transformations ... Zoom meetings.

#### **Given Webinars on Following Topics during Covid-19**

1. Principles of Durability Assessment Based Designs-a holistic approach.
2. Transport Mechanism in Concrete.
3. Best Construction Practices
4. Quality issues- Causes and Remedial Measures.

<b>Organization</b>	<b>: Ultra Tech Cement Ltd</b>
Duration	: July 2017 – Dec 2019 (Acquisition)
Position	: Territory Technical Service Manager
Designation	: Assistant Manager
Place of Posting	: Rajahmundry
Areas of operation	: East Godavari

**Personal Information:**

Name: Karri Babu Mahesh  
Father Name: K Babu Rao (late)  
DOB: 31-Jan-1977  
Marital Status: Married  
Languages known: Telugu, English, Hindi  
Present address: H No 9-91, Water Tank Road, S K L Colony  
Yanamalakuduru,  
Vijayawada-520007  
Permanent Address: D No 14-2-6  
Gorusu Vari Street  
RamaKrishna Rao Peta  
Kakinada-533001



E mail Id: [mahi.kbm@gmail.com](mailto:mahi.kbm@gmail.com). [babumahesh\\_76@yahoo.com](mailto:babumahesh_76@yahoo.com).

Place: Vijayawada

Date:

Your's sincerely

(K.Babu Mahesh)



Educational & Technical training Program  
Durability- based design of advanced cementitious materials



Kakinada Chapter

## -Recent Developments in CEMENT & CONCRETE TECHNOLOGY

**Er K Babu Mahesh** B.E, M.Tech  
Consulting Civil Engineer  
Member of Association of Consulting Civil Engineer- Kakinada- Chapter

Member of Association of Consulting Civil Engineer  
Email ID: [babumahesh\\_74@yahoo.com](mailto:babumahesh_74@yahoo.com)  
+91 8442800154 +91 8005501227 (INDIA)

### Topics to be covered.....

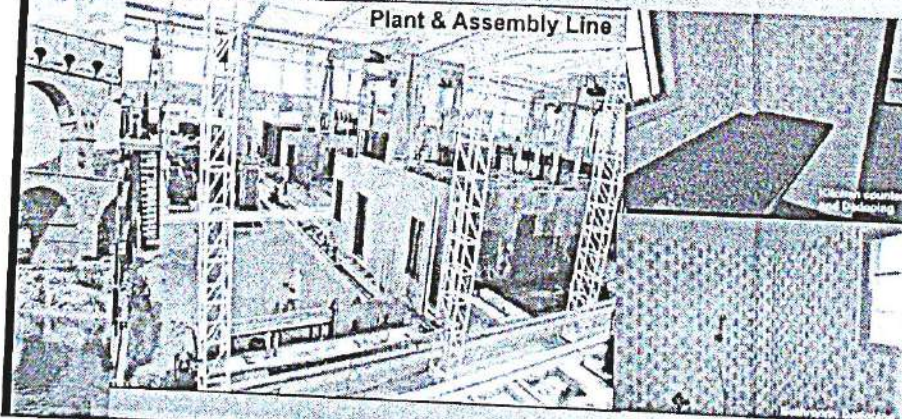
- > Cement, Types of cements, & Types of concretes.
- > Our Perception's towards Modern Cements.
- > Facts about Modern Cements.
- > Recent developments in cement & concretes- Case studies.
- > Mineral Admixtures (SCM's) & Advantages
- > Research studies on "Ancient Structures" & Case studies.
- > Secrete behind "Ancient Concrete Structures".
- > Latest code revisions (National & International)



Durability

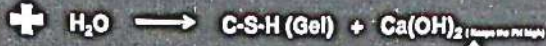
Educational & Technical training Program  
Durability- based design of advanced cementitious materials

### Plant & Assembly Line





### SCM Reaction during Hydration Process

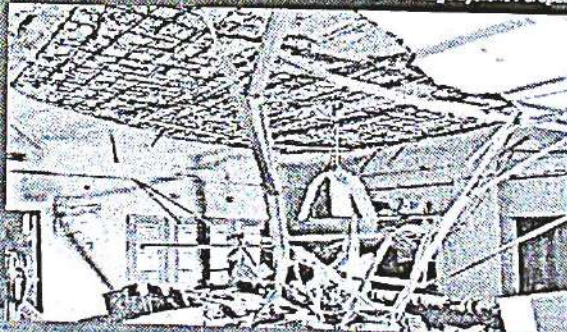


The following characters designate standard notations:

C = CaO; S = SiO<sub>2</sub>; A = Al<sub>2</sub>O<sub>3</sub>; F = Fe<sub>2</sub>O<sub>3</sub>; S = SO<sub>3</sub>; H = H<sub>2</sub>O; K = K<sub>2</sub>O; O

### Penetration of aggressive chemicals-Mechanism-Diffusion

Case 1: Spalling of cover of slab-crete due to corrosion of reinforcement -Bantun III-Kris Dist. (2003-20)-17yrs  
 Site condition: Warm and High Humid Condition, 28 km from sea coast  
 Observation : Spalling of slab cover and corroded reinforcement.  
 Investigation : Lack of quality control, & improper maintenance, Poor drainage system, Perspective approach

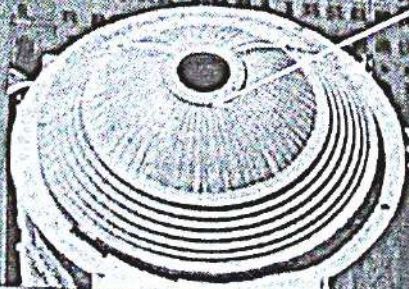


### Secretes of Roman Designs



We know that...

Arches are strong in compression.





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 Seshadri Rao Knowledge Village, Gudlavalleru - 521356, Krishna District (A.P.)

*Department of Civil Engineering*

2021-22 II B.Tech I Sem Section - A

A guest lecture on "Recent Developments in Cement & Concrete Technology"

S.No	Roll No	Name of the Student	Signature
1	20481A0101	ALLADA MAIDHILI	A. Maidhili
2	20481A0102	AREPALLI VIJAYA BABU	A. Vijaya Babu
3	20481A0103	ATLURI LAKSHMI GAYATHRI	A. L. Gayathri
4	20481A0104	BATHULA BHANU PRAKASH	B. Bhayraksh
5	20481A0105	BATHULA VENKATA NAGA RAJU	B. V. Naga Raju
6	20481A0106	BAVISETTI NAGA VEERA VENKATA THARUN	B. V. V. Tharun
7	20481A0107	BHEEMANABOINA TEJASRILAKSHMI	B. T. S. Lakshmi
8	20481A0108	BHUPATI GNAPIKA	B. Gnapika
9	20481A0109	BOMMIDI KRISHNA MURTHY	B. Krishna Murthy
10	20481A0110	BUSSA SANDEEP	B. Sandeep
11	20481A0111	CHANDANA LEELA NAGA SAI KRISHNA	Ch. Sai Krishna
12	20481A0112	CHATTU BALAJI	Ch. Balaji
13	20481A0113	CHEERALA PRUDHVI RAJ	Ch. Prudhvi Raj
14	20481A0114	CHILAKALAPUDI JAGADEESH	Ch. Jagadeesh
15	20481A0115	CHINTALA ABHIRAM	Ch. Abhiram
16	20481A0116	CHINTALA LIKHITHA SRI	Ch. Likhitha Sri
17	20481A0117	CHIRLA AJAY	Ch. Ajay
18	20481A0118	CHIRLA BHARATH	Ch. Bharath
19	20481A0119	CHOPPARAPU CHERMISHA	Ch. Chermisha
20	20481A0120	CHUKKA UMESH	Ch. Umesh
21	20481A0121	DATTI GUNA SEKHAR	D. Guna Sekhar
22	20481A0122	DEKKA VEERAI AH	D. Veerai ah
23	20481A0123	DEVANABOINA CHALAPATHI DHANUSH	D. Ch. Dhenush
24	20481A0124	GADE MANI GOPAL	G. Mani Gopal
25	20481A0125	GANDHAM NAGA VENKATA MAHESH (Mahesh)	G. N. V. Mahesh
26	20481A0126	GANTA PRADEEP BABU	G. Pradeep
27	20481A0127	GARIKIMUKKU JOHN PRAKASH	G. John
28	20481A0128	GORIGE AJAY KUMAR	G. Ajay Kumar
29	20481A0129	GORUMUTCHU ADITYA	G. Aditya



S.No	Roll No	Name of the Student	Signature
30	20481A0130	GUDAPATI HIMA KEERTHI	G. Hima Keerthi
31	20481A0131	GUDAPATI SYAM KUMAR	G. Syam Kumar
32	20481A0132	GUMMA HARIKA	G. Harika
33	20481A0133	JAKKULA RAHUL	J. Rahul
34	20481A0134	JAMPU RAVIPRASAD	J. Ravi Prasad
35	20481A0135	JATRANGI JASWANTH KUMAR	J. Jaswanth kumar
36	20481A0136	JAUDULA VEENA	J. Veena
37	20481A0137	JAYA PRAKASH BODDU	B. Jayaprakash
38	20481A0138	KALAPALA DINESH	K. Dinesh
39	20481A0139	KAMPARA PRATAP NAIDU	K. Prathap
40	20481A0140	KANALA VENKATA JAYA KRISHNA	K. V. Jayakrishna
41	20481A0141	KANNEPAMULA . DIVYA	K. Divya
42	20481A0142	KANULLA BHANU SRI	K. Bhanu Sri
43	20481A0143	KATURI SUMA SRI	K. Sumasri
44	20481A0144	KODUDHULA SUBHASH	K. Subhash
45	20481A0145	KOLAGATLA SUBBA REDDY	K. Subbareddy
46	20481A0146	KOLLAPUDI BALA MURALI	K. Murali
47	20481A0147	KOLLI DINESH	K. Dinesh
48	20481A0148	KOLLURI GNANESWAR	K. Gnaneswar
49	20481A0149	KOLUSU VIJENDRA BABU	K. Vijendra Babu
50	19481A0150	KOLLURI PEARL SAMUDRALU	K. Pearl samudralu

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Seshadri Rao Knowledge Village, Gudlavalleru - 521356, Krishna District (A.P.)

*Department of Civil Engineering*

2021-22 II B.Tech I Sem Section - B

A guest lecture on "Recent Developments in Cement &amp; Concrete Technology"

S.No	Roll No	Name of the Student	Signature
1	20481A0150	KONCHADA NAVANEETHI	K. Navaneethi
2	20481A0151	KUNASANI SNEHA SRI	K. Sneha Sri
3	20481A0152	KURADA MANI DEEPIKA	K. Manideepika
4	20481A0153	LIKHITHA BONDALA	← ABSENT →
5	20481A0154	MATANGI SANITHPAUL	M. Sanith Paul
6	20481A0155	MATHANGI BHARAT KUMAR	M. Bharat Kumar
7	20481A0156	MOHAMMAD MUJEEB AFSAR	Md. Mujeeb Afsar
8	20481A0157	MOHAMMAD RAMIZ	Ramiz
9	20481A0158	MOPARTHI HARI KRISHNA	← ABSENT →
10	20481A0159	MOPARTHY DHIRENDRA	Moparthi Dharendra
11	20481A0160	MUCHUMUDI MANIKANTA REDDY	Manikanta Reddy
12	20481A0161	MURARI NAVEEN KRISHNA	M. Naveen Krishna
13	20481A0162	NAGARAJU JONALAGADDA	← ABSENT →
14	20481A0163	NAKKALA YESU BABU	N. Yesu Babu
15	20481A0164	NAMBURI NAGA NAVEEN	N. Naga Naveen
16	20481A0165	NASIRUNISA	Nasirunisa
17	20481A0166	PADIDEPU SIVARAM	P. Siva Ram
18	20481A0167	PAGOLU KESAVANADH	P. Kesavanadh
19	20481A0168	PAMARTHI VARUN	P. Varun
20	20481A0169	PANDUGAYALA NAGASRIHARI	P. Naga Sri Hari
21	20481A0170	PASUPULETI LAKSHMI TULASI	P. Lakshmi Tulasi
22	20481A0171	PATHAPATI DIVYA SRI	P. Divya Sri
23	20481A0172	PEDAKAPU KOUSHIK	P. Koushik
24	20481A0173	PENKE NANI	P. Nani
25	20481A0174	POLAGANI TEJASAI	P. Teji
26	20481A0175	PULI V V N S SAI PRASAD	P.V.V.N.S. Sai Prasad
27	20481A0176	PUPPALA KONDA BABU	P. Kondababu
28	20481A0177	RAJULAPATI CHARAN TEJA	R. Charan Teja
29	20481A0178	RAMBHA DILEEP KUMAR	R. Dileep Kumar



S.No	Roll No	Name of the Student	Signature
30	20481A0179	SADARLA ABHILASH	S. Abhilash
31	20481A0180	SAIKAM IMMANIYELU	S. Immaniyelu
32	20481A0181	SAIKAM PRAVEEN KUMAR	S. Praveen Kumar
33	20481A0182	SANIKOMMU JAGADEESH REDDY	S. Jagadeesh Reddy
34	20481A0183	SHAIK ABDUR RAHAMAAAN	Sk. Abdur Rahmaan
35	20481A0184	SHAIK ASIYA	Sk. Asiya
36	20481A0185	SHAIK KABEER	Sk. Kabeeer
37	20481A0186	SHAIK NAGA SRINU	Sk. Nagaraju
38	20481A0187	SYED BAJI	Syed. B
39	20481A0188	TADIKONDA SOMANADH SRINIVAS	T.S. Srinivas
40	20481A0189	TALAKALA ANKITHA	T. Ankitha
41	20481A0190	TALAKAYALA SANDEEP KUMAR	T. Sandeep Kumar
42	20481A0191	TAMMISETTI SAGAR KRISHNA	T. Sagar Krishna
43	20481A0192	TUMULURI VENKATA SATHWIK	T. Venkata Sathwik
44	20481A0193	UPPULETI HARSHINI	U. Harshini
45	20481A0194	UPPULETI SOWGANDHI	U. Sowgandhi
46	20481A0195	VADLAMUDI BHAVYA SRI	V. Bhavya Sri.
47	20481A0196	VAKA RAKESH BABU	← ABSENT →
48	20481A0197	VEERANKI SURESH	← ABSENT →
49	20481A0198	VENIGALLA VIJAY KANTH	V. Vijay Kanth.
50	20481A0199	YALLA SAMUEL JAYKAR	Y. SAMUEL





## PROGRAM REPORT

**Name of the Program** : Guest Lecture On "Recent Developments in Cement and Concrete Technology"

**Date** : 01.12.2021

**Details of Resource Person** : Er. K. Babu Mahesh  
Training Coordinator, JP Consultants,  
8143900354

**Objective of the Program** : To provide knowledge on latest developments in cement and concrete technology

**Outcome of the Program** : Students will be able to understand the advancements in cement and concrete technology

**No of Participants** : 115

  
Coordinator

  
HOD, CE  
**Head of the Department**  
**Civil Engineering**  
Seshadri Rao  
Gudlavalleru Engineering College  
Seshadri Rao Knowledge Village  
Gudlavalleru, Dist. Nellore, Andhra Pradesh