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Civil Engineering

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Online guest lecture on

SPECIAL CONCRETE MIX DESIGN

5th April.2023 Wednesday @ 3 PM TO 4:30PM



Dr. Leon Raj,

Scientist, CSIR-North East Institute
of Science & Technology,
Jorhat

Event Incharge

Mr. Y. Himath Kumar

Assistant Professor

9963664467

Meeting Webex https:

[//kluniversity.webex.com/kluniversity/j.php?TID=me4438a5de5647eec1c34672042f7e720](https://kluniversity.webex.com/kluniversity/j.php?TID=me4438a5de5647eec1c34672042f7e720)

Guest lecture (Online) on “Special Concrete Mix Design” by the Department of CE, KLEF – Reg.

Registrar <registrar@kluniversity.in>

Tue 4/4/2023 9:50 AM

To: PRESIDENT <president@kluniversity.in>; Havish <havish@kluniversity.in>; Raja Harin koneru <krh@kluniversity.in>; PRO-CHANCELLOR <prochancellor@kluniversity.in>; Vice Chancellor - KLU <vc@kluniversity.in>; Dr.G.P.S. Varma, Vice- Chancellor <gpsvarma@kluniversity.in>; N Venkat Ram <venkatram@kluniversity.in>; Dr Pavuluri Ratna Prasad <pratnaprasad@kluniversity.in>; P SENTHIL MURUGAN <agilanagri2008@kluniversity.in>; M Sirendra Babu <msirendrababu@kluniversity.in>; Jamindar Buddiga <jamindarbuddiga@kluniversity.in>; PILLI MANASA <pmanasa@kluniversity.in>; MANOHARMAYUM DOLPRIYA DEVI <dolpriya.ag@kluniversity.in>; ATUL SINGH <atulsingh@kluniversity.in>; Shiva Sai Prasad <shivsaiprasad@kluniversity.in>; Dr.B.Rama Devi <bonuramadevi@kluniversity.in>; Dr.M.Gayathri <gayathrimungara@kluniversity.in>; PRASANNA KOLAR <hiprasannakolar@kluniversity.in>; Bhuvana C R <bhuvanacr1996@kluniversity.in>; Kavuri Kalpana <kkalpana@kluniversity.in>

1 attachments (85 KB)

Special Concrete Mix Design poster.pdf;

Ref: KLEF/RO/CE/2022-23

Date: 04-04-2023

Orders of the Vice-Chancellor dt.04-04-2023

CIRCULAR

Sub: Guest lecture (Online) on “**Special Concrete Mix Design**” by the Department of CE, KLEF – Reg.

Ref: Letter dated 03.04.2023 from Dr. P. Poluraju, HoD - CE.

This is to inform that Department of Civil Engineering, KLEF, is organizing a Guest lecture (Online) on “**Special Concrete Mix Design**” on 5th April 2023 as per the details given below.

Resource Person : Dr. Leon Raj, Scientist,
CSIR-North East Institute of Science & Technology,
Jorhat, Assam, India.

Date and time : 5th April 2023, from 03:00 p.m.

All the interested faculty and students can join themselves by clicking on the link given below.

Link to join the session:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=me4438a5de5647eec1c34672042f7e720>

For any queries on Guest lecture (Online) the following Faculty Coordinator can be contacted.

Event Coordinators

Mr. Y. Himath Kumar

Assistant Professor, Department of Civil Engineering, KLEF.

Mobile No. +91 9963664467

E-mail Id: himathkumar007@kluniversity.in

REGISTRAR (I/C)**Encl: Poster**

Mail & Hard copy to: Hon'ble President, KLEF

Mail to: Hon'ble Vice-Presidents, KLEF

Mail & Hard copy to: Hon'ble Pro Chancellor

Mail & Hard copy to: Hon'ble Vice Chancellor

Mail & Hard copy to: Hon'ble Pro Vice Chancellor (Administration)

Mail to: Advisor – NAAC & Hyderabad Operations - Prof. K.Koteswara Rao

Mail to: All Advisors / All Deans / All Principals / All Directors

Mail to: Controller of Examinations-Dr.A.S.C.S. Sastry

Mail to: KL H - Principal-Engg.College / Vice-Principal

Mail to: Coordinator-FED.Dr.MSG Prasad

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Mail & Hard copy to: Head of Division..Communication Skills / Soft Skills / Quant & Reasoning

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Mail to: All faculty

Mail to: All students

Thanks & Regards



Dr. K. Subba Rao
REGISTRAR(I/C)

KONERU LAKSHMAIAH EDUCATION FOUNDATION

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Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.
Phone No. 08645 - 350200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in



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Campus: Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India. PIN 522 502
Phone No. 0863 - 2399999; www.kluniversity.in

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To
Dr. Leon Raj,
Scientist,
CSIR-North East Institute of Science & Technology,
Jorhat.

Date: 29-03-2023

Sub: - Invitation to deliver an Online guest lecture on **Special Concrete Mix Design** during 5th April 2023

Sir,

Greetings. Thank you for accepting to deliver Online guest lecture on " **Special Concrete Mix Design** " during 5th April 2023 organized by Civil Engineering Department, K L Deemed to be University. The duration of the session will be about 90 minutes. We are sure that your valuable guest lecture will inspire the research and academic community who are going to be gathered in the event. Once again, we appreciate your participation and indebted to you for your kind cooperation.

Kindly accept our invitation and join us for the event.

Thanking you

Yours Truly,


Dr. P. Poluraju,

HoD- Civil Engineering
K L Deemed to be University.
Dr. P. POLU RAJU
HEAD
Department of Civil Engineering
Koneru Lakshmaiah Educational Foundation
(Deemed to be University)
Vaddeswaram Guntur District.

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Phone No. 0863 - 2399999; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 -2577715, Fax: +91-866-2577717.

DEPARTMENT OF CIVIL ENGINEERING

Details of Guest/ Orientation Lectures Conducted For the month of April -2023

Topic: Special Concrete Mix Design

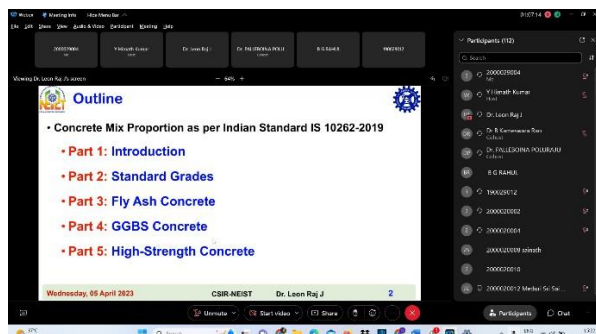
Speaker: Dr. Leon Raj, Scientist, CSIR-North East Institute of Science & Technology, Jorhat, Assam, India

Date: 5th April 2023

Time: 3:00 PM onwards

Venue: Online

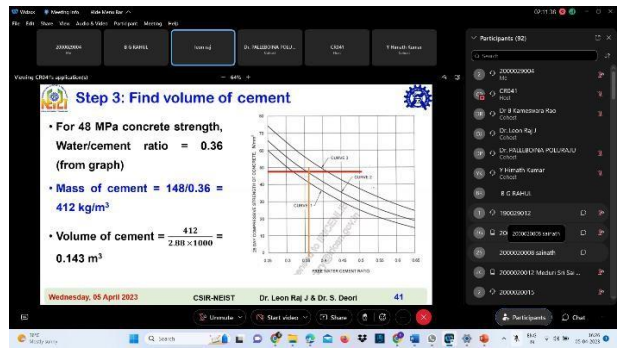
The Guest Lecture began with an introductory speech by the student coordinator, P. Dhanya Siri. The presentation by the speaker covered various concepts about special concrete mix designs formulated to meet specific project requirements, such as strength, durability, workability, and other factors. The mix design process involves selecting appropriate materials, determining the proportions of each ingredient, and testing the mixture to ensure it meets the desired properties. Overall, the selection of a special concrete mix design depends on the specific project requirements and the desired properties of the finished product. Consulting with a professional engineer or concrete supplier can help ensure that the proper mix is selected for the job. The lecture was then concluded with a vote of thanks by the faculty in charge, Y. Himath Kumar. The feedback survey conducted after the lecture showed that a good number of participants were happy with the content and expressed that the contents were knowledgeable.



IS 456 Minimum cement content, minimum grade and maximum w/c ratio

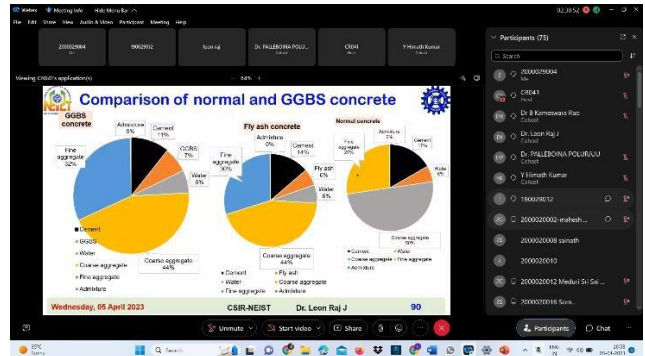
Table 5 Minimum Cement Content, Maximum Water-Cement Ratio and Minimum Grade of Concrete for Different Exposures with Normal Weight Aggregates of 20 mm Nominal Maximum Size (Clause 5.1.2, 8.2.4.1 and 8.1.2)

Sl. No.	Exposure	Plain Concrete			Reinforced Concrete		
		Minimum Cement Content kg/m ³	Maximum Free Water-Cement Ratio	Minimum Grade of Concrete	Minimum Cement Content kg/m ³	Maximum Free Water-Cement Ratio	Minimum Grade of Concrete
(i)	(i)	150	0.55	M20	150	0.55	M20
(ii)	(ii)	220	0.50	M25	220	0.50	M25
(iii)	(iii)	240	0.45	M30	240	0.45	M30
(iv)	(iv)	270	0.40	M35	270	0.40	M35
(v)	(v)	300	0.35	M40	300	0.35	M40
(vi)	(vi)	330	0.30	M45	330	0.30	M45



Check

- Volume check**
 - Volume of Cement + FA + CA + Water + Admixture = 0.99 m^3
 - $\frac{412}{2.89 \times 1000} + \frac{648}{2.45 \times 1000} + \frac{1233}{2.74 \times 1000} + \frac{148.8}{3 \times 1000} + \frac{412 \times 0.01}{1.145 \times 1000} = 0.99 \text{ m}^3$
 - $0.143 + 0.245 + 0.45 + 0.148 + 0.004 = 0.99 \text{ m}^3$
- Mass check**
 - Mass of cement + FA + CA + Water + Admixture = 2400 kg
 - $412 + 648 + 1233 + 148 + 4.12 = 2446.5 \text{ kg} = 2400 \text{ kg}$
- Hence ok.



Anu

**Faculty in-charge
(Dr. Anu Mary Ealias)**

Mallika

**IQAC in-charge
(Mrs. Mallika Chowdary)**

Poluraju

**HOD CE
(Dr. P. Poluraju)**

Meeting Summary

Total Numb 37

Meeting TitlGeneral

Meeting Sta20/4/2023, 10:53:46 am

Meeting En 20/4/2023, 1:46:20 pm

Meeting Id d72698e2-3ce8-476c-9b64-f90e3f54d6e6

Full Name	Join Time	Leave Time	Duration	Email	Role	Participant ID (UPN)
Hemantha	20/4/2023,	20/4/2023,	2h 18m	khraja@klu	Organizer	khraja@kluniversity.in
K.Chandra	20/4/2023,	20/4/2023,	1h 47m	200002900	Presenter	2000029004@kluniversity.in
D.Harshith	20/4/2023,	20/4/2023,	1h 38m	200002900	Presenter	2000029005@kluniversity.in
KANDADI S	20/4/2023,	20/4/2023,	22m 13s	200002000	Presenter	2000020008@kluniversity.in
KANDADI S	20/4/2023,	20/4/2023,	40m 28s	200002000	Presenter	2000020008@kluniversity.in
KANDADI S	20/4/2023,	20/4/2023,	20m 32s	200002000	Presenter	2000020008@kluniversity.in
TUPAKULA	20/4/2023,	20/4/2023,	4m 18s	200002003	Presenter	2000020039@kluniversity.in
TUPAKULA	20/4/2023,	20/4/2023,	13m 56s	200002003	Presenter	2000020039@kluniversity.in
TUPAKULA	20/4/2023,	20/4/2023,	7m 29s	200002003	Presenter	2000020039@kluniversity.in
TUPAKULA	20/4/2023,	20/4/2023,	25m 10s	200002003	Presenter	2000020039@kluniversity.in
TUPAKULA	20/4/2023,	20/4/2023,	1h 1m	200002003	Presenter	2000020039@kluniversity.in
MUMBERE	20/4/2023,	20/4/2023,	14m 3s	200002005	Presenter	2000020052@kluniversity.in
MUMBERE	20/4/2023,	20/4/2023,	1h 20m	200002005	Presenter	2000020052@kluniversity.in
B.HEMANT	20/4/2023,	20/4/2023,	45m 33s	200002900	Presenter	2000029002@kluniversity.in
P. Pavan Ka	20/4/2023,	20/4/2023,	57m 15s	200002900	Presenter	2000029008@kluniversity.in
P. Pavan Ka	20/4/2023,	20/4/2023,	12m 23s	200002900	Presenter	2000029008@kluniversity.in
G. RAJESH	20/4/2023,	20/4/2023,	52m 57s	200002900	Presenter	2000029001@kluniversity.in
SAMBHU K	20/4/2023,	20/4/2023,	1h 28m	200002006	Presenter	2000020064@kluniversity.in
ESLAVATH	20/4/2023,	20/4/2023,	12m 8s	200002000	Presenter	2000020004@kluniversity.in
M VISHNU	20/4/2023,	20/4/2023,	52m 39s	200002001	Presenter	2000020011@kluniversity.in
M VISHNU	20/4/2023,	20/4/2023,	22s	200002001	Presenter	2000020011@kluniversity.in
BAIRAGANI	20/4/2023,	20/4/2023,	1h 3m	200002000	Presenter	2000020002@kluniversity.in
BAIRAGANI	20/4/2023,	20/4/2023,	15m 58s	200002000	Presenter	2000020002@kluniversity.in
BAIRAGANI	20/4/2023,	20/4/2023,	2m 36s	200002000	Presenter	2000020002@kluniversity.in
Syed Arsha	20/4/2023,	20/4/2023,	1h 18m	200002900	Presenter	2000029003@kluniversity.in
YARLAGAD	20/4/2023,	20/4/2023,	1h 54m	200002002	Presenter	2000020023@kluniversity.in
KONERU M	20/4/2023,	20/4/2023,	9m 36s	200002000	Presenter	2000020009@kluniversity.in
KONERU M	20/4/2023,	20/4/2023,	1h 1m	200002000	Presenter	2000020009@kluniversity.in
ABHIJIT KU	20/4/2023,	20/4/2023,	43m 37s	200002006	Presenter	2000020063@kluniversity.in
ABHIJIT KU	20/4/2023,	20/4/2023,	22m 4s	200002006	Presenter	2000020063@kluniversity.in
Jandhyala,	20/4/2023,	20/4/2023,	1h 9m	gopal.jandh	Presenter	gopal.jandhyala_jacobs.com#EXT#
HIMATH KU	20/4/2023,	20/4/2023,	20m 46s	himathkum	Presenter	himathkumar007@kluniversity.in
Dr Anu Mar	20/4/2023,	20/4/2023,	53m 47s	anumary@	Presenter	anumary@kluniversity.in
M Achyutha	20/4/2023,	20/4/2023,	8m 22s	achyuthaku	Presenter	achyuthakumar@kluniversity.in
orgid:51ac	20/4/2023,	20/4/2023,	34m 34s	200002001	Presenter	2000020016@kluniversity.in
J D Chaitan	20/4/2023,	20/4/2023,	38m 15s	jd2sai@klu	Presenter	jd2sai@kluniversity.in

MANNAVA	20/4/2023, 20/4/2023, 59m 37s	200002002 Presenter	2000020021@kluniversity.in
PALLEBOIN	20/4/2023, 20/4/2023, 54m 22s	rajupolup@ Presenter	rajupolup@kluniversity.in
Dr.Ashwin	20/4/2023, 20/4/2023, 14m 59s	ashwin758 Presenter	ashwin7588@kluniversity.in
K CHARAN	20/4/2023, 20/4/2023, 1h 2m	200002006 Presenter	2000020062@kluniversity.in
MEGAVATH	20/4/2023, 20/4/2023, 1h 2m	200002001 Presenter	2000020010@kluniversity.in
A Aravindan	20/4/2023, 20/4/2023, 1h	aaravindan Presenter	aaravindan@kluniversity.in
Ch.Mallika	20/4/2023, 20/4/2023, 46m 41s	chmallika@ Presenter	chmallika@kluniversity.in
GUDISE HA	20/4/2023, 20/4/2023, 27m 6s	220103000 Presenter	2201030003@kluniversity.in
Rahul	20/4/2023, 20/4/2023, 55m 49s	gnanarahul Presenter	gnanarahul@kluniversity.in
Bagirisoko	20/4/2023, 20/4/2023, 10m 42s	220102001 Presenter	2201020014@kluniversity.in
Bagirisoko	20/4/2023, 20/4/2023, 4m 8s	220102001 Presenter	2201020014@kluniversity.in
YEHEYO HI	20/4/2023, 20/4/2023, 8m 5s	220104000 Presenter	2201040002@kluniversity.in
SURUCHI K	20/4/2023, 20/4/2023, 18m 42s	200002006 Presenter	2000020065@kluniversity.in
DERRICK B	20/4/2023, 20/4/2023, 10m 37s	200002005 Presenter	2000020055@kluniversity.in
KURRA DIN	20/4/2023, 20/4/2023, 27m 38s	200002003 Presenter	2000020030@kluniversity.in

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