



School of Civil Engineering

Industry Expert Talk on “Bridges – Design practices in Industry and its Execution” Report

Date of Event: 13-09-2024

Venue: SMVB 208

Academic Year: 2024-25

School of Civil Engineering
REVA University,
Rukmini Knowledge Park,
Kattigenahalli, Yelahanka,
Bengaluru-560064

REVA University Vision: REVA University aspires to become an innovative university by developing excellent human resources with leadership qualities, ethical and moral values, research culture and innovative skills through higher education of global standards.

REVA University Mission:

- To create excellent infrastructure facilities and state-of-the-art laboratories and incubation centres
- To provide student-centric learning environment through innovative pedagogy and education reforms
- To encourage research and entrepreneurship through collaborations and extension activities
- To promote industry-institute partnerships and share knowledge for innovation and development
- To organize society development programs for knowledge enhancement in thrust areas
- To enhance leadership qualities among the youth and enrich personality traits, promote patriotism and moral values

School of Civil Engineering

Vision: To produce young engineers of Caliber, who would be committed to their profession with ethics, will be able to contribute to Civil Engineering and allied fields in optimizing usage of resources globally making the world eco-friendlier to live in.

Mission:

- To make the school a centre of excellence for training the undergraduate students.
- To promote involvement of staff and students in research and advanced training.
- To develop good understanding skills in student communities about Civil Engineering, ethical practices, automation design and society need centric teaching and learning and imparting value addition skills.

Contents

Sl.No	Description	Page number
1	Mapping of event to CO&PO of course	4
2	Permission letter	5
3	Banner and Brochure	6-7
4	About the Speaker	8
5	Brief points about event	9
6	Geo tagged photos	10-13
7	Outcome of event	14
8	Participants list	15-17
9	Feedback	18-19
10	Feedback analysis	20

Section:1

Mapping of event to CO&PO of course

Course Outcomes:

1. To develop clear understanding among the students on the industry practices for design of bridges,
2. To have detailed overview on the various standards maintained by industry for the design of bridges.
3. To increase the interest towards the design of bridges among the students as it is the hardcore career for the aspiring students
4. To improve awareness on the practices in Bridge execution at site and the techniques to overcome hurdles during construction of bridges.
5. To provide the opportunity for the students to interact with industry expert on bridges and get proper guidance regarding the industrial practices in bridges and its career opportunities.

CO#/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2		2		3	3	2				3	3	3	2
CO2	3	2	3	3	2	2	3		2		3		2	2	2	2
CO3				3	3	2	3	3	2	3			2	2	2	2
CO4	2	2	3	3	3	3	2	3	3	2			3	3	2	2
CO5		2	3	2	2	3	3	3	3	3	3		2	1	1	1

NOTE: **1 : Slight** (Low), **2:Moderate** (Medium) and **3: Substantial** (High) represents strength of correlation between CO and PO.

Section:2

Permission letter

To 28-08-2024

The Pro-Vice Chancellor (Engineering),
School of Civil Engineering,
REVA University.


Respected Sir,


Subject: Proposal to organize Industry Expert Talk on "Bridges – Design practices in Industry and its Execution"


With reference to the above subject, the School of Civil Engineering would like to organize Industry expert talk on 13th September 2024. An Industry expert Mr. Arvind Kumar Salecha, Structural Designer and Director of Chetan Infratech Consultants Pvt. Ltd., has agreed to present his expertise on the topic "Bridges – Design practices in Industry and its Execution".

Herewith I would like to seek your permission for conduction of the Industry Expert talk for the titled as above.

Regards,


Dr. Mehar Babu Ravula,
Coordinator,
School of Civil Engineering,


Dr. B. Bhavana
Director
School of Civil Engineering


Dr. R.C. Biradar
Pro-Vice Chancellor (Engineering)
REVA University

Section:3

Banner and Brochure



NAAC GRADE A⁺

REVA UNIVERSITY
Bengaluru, India

School of Civil Engineering

Organises an Industry Expert Talk on

Bridges - Design Practices In Industry & its Execution



Resource Person

Mr. Arvind Kumar Salecha
Structural Engineer, Director
Chetan Infratech Consultants Pvt. Ltd.,
Bengaluru, Karnataka

Date: September 13, 2024 | **Time:** 09:30 AM
Venue: Room no: 208, Smart Classroom, Sir M. V Block



REVA UNIVERSITY
Bengaluru, India

Industry Expert Talk on

Bridges - Design practices in Industry & its Execution

13th September 2024

Organised by
School of Civil Engineering

Rukmini Knowledge Park,
Kattigenahalli, Yelahanka, Bengaluru-560064
Phone: +91-80-4696 6966

Rukmini Educational
Charitable Trust
www.reva.edu.in

Chief Patron
Dr. R.C. Biradar
Pro Vice Chancellor, REVA University

Patrons
Dr. Bhavana B.
Associate Professor & Director
School of Civil Engineering

Conveners
Dr. Mehar Babu Ravula
Assistant Professor
School of Civil Engineering
Mr. Karthik Kumar
Assistant Professor
School of Civil Engineering

Resource Persons
Mr. Arvind Kumar Salecha
Structural Engineer, Director, Chetan Infratech
Consultants Pvt. Ltd., Bengaluru, Karnataka

About REVA University
REVA University is a State Private University established in Karnataka State under the Government of Karnataka Act No. 13 in the year 2012 in Bengaluru, the IT capital of India. REVA University, recognised by the University Grants Commission (UGC) and approved by the All India Council for Technical Education (AICTE), has an A+ grade from NAAC.

REVA University prides itself in contributing to every student's holistic development. The University currently offers 38 full-time undergraduate programmes, 33 full-time postgraduate programmes, 20 PhD programmes, and certification and diploma programmes. The University offers programmes in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities, and Performing Arts. Courses are offered in Certificate/Diploma and Post

Graduate Diploma too. REVA University facilitates research leading to a Doctoral Degree in all disciplines. The programmes offered by REVA University are well-planned and designed based on methodical analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance, and their social significance.

Teachers and instructors with illustrious academic experience are the architects of the meticulously designed curriculum and program modules offered at REVA University. They come with industrial exposure and experience that often translates through their teaching, thus bridging the gap between the industry and academia.

About the School of Civil Engineering
The School of Civil Engineering is headed by highly experienced Professor and is supported by well qualified faculty members. The school has the state-of-art classrooms and well-equipped laboratories. It offers B. Tech and M. Tech programs in various specialized streams. The school also has research program leading to doctoral degree. The curriculum of both graduate and post graduate degree programs has been designed to bridge the gap between industry - academia and hence they are industry application oriented. The B. Tech program aims to prepare human resources to play a leading role in the competitive construction field and excel in their endeavours. The Master's Degree programs focus on research and design in the core areas such as Computer Aided Structural Engineering, Transportation Engineering and Management and Construction Technology and Management to supplement and create a sustainable world, to enhance the global quality of life by adopting enhanced techniques of design and application. This is reflected in various core subjects offered within the program. Currently Civil Engineering teaching was limited to planning, analysis, design, and execution of different types of infrastructure like buildings, roads, bridges, dams and power plants. However, due to increase of technological sophistication and demand for higher living standards geared up by economic growth and concerns about environmental impact have changed the scope of Civil Engineering. The challenges of today's Civil Engineering infrastructure are much more complex and interdependencies between resources. Even though there are many institutions in the country which are producing Civil Engineers, there is acute shortage of quality Civil Engineers.



About Industry Expert Talk

The Bridges are considered as the one of best mode of overcoming the traffic issues at road crossings and also to cross a flowing river or a water body. The design of bridges involves rigorous steps to be followed to arrive at its effective dimensions and reinforcement details. The design practices followed in the industry will be explained by the expert along with various drawing detailing. The execution case studies will be delivered by the expert.

About the Resource Person

Mr. Arvind Kumar Salecha is a practicing structural engineer and director of Chetan Infratech Consultants Pvt Ltd. He has designed over 23 metro stations 600 bridges and flyovers all over India. He has over 25 years of experience as a structural engineer with expertise in bridge designs. He has Published paper in Journal of Experimental Mechanics, USA. He has presented papers in national seminars and given guest lectures in colleges.

He completed his B.Tech (Civil Engg) from IIT Bombay in 1996 and M.S. (Civil Engg) from The University of Oklahoma, USA in 1998. He has worked in Stresscrete India Ltd., Mumbai and Scott Wilson Kirkpatrick India Pvt Ltd., Bengaluru.

He is a member of various committees - B4 Code committee (Concrete Bridges) of Indian Roads Congress, Secretary, Indian Institution of Bridge Engineers, Karnataka Chapter, Executive Committee Member, ING-IABSE Karnataka Chapter, Chartered Engineer and Life Member, Institution of Engineers, India, Member, American Society of Civil Engineers, USA, Life Member, Association of Consulting Civil Engineers, India, Life Member, Indian Concrete Institute, Member, CHI EPSILON, National Civil Engg., Honour Society, USA.

His company Chetan Infratech Consultants Pvt. Ltd. has designed India's first platinum rated metro station "Airport South Station" for Nagpur Metro. His company has design highway projects for which the concessionaire has won Gold Award at National Highways Excellence Awards.

Learning objectives:

1. To develop clear understanding among the students on the industry practices for design of bridges,
2. To have detailed overview on the various standards maintained by industry for the design of bridges.
3. To increase the interest towards the design of bridges among the students as it is the hardcore career for the aspiring students
4. To improve awareness on the practices in Bridge execution at site and the techniques to overcome hurdles during construction of bridges.
5. To provide the opportunity for the students to interact with industry expert on bridges and get proper guidance regarding the industrial practices in bridges and its career opportunities.

Contact Deatils

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Mobile No.: 9502018947

Mr. Karthik kumar
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Mobile No.: 8660728701

Industry Expert Talk on

"Bridges – Design practices in Industry & its Execution"

13th September, 2024

Section:4

About the Speaker

Mr. Arvind Kumar Salecha is a practicing structural engineer and director of Chetan Infratech Consultants Pvt Ltd. He has designed over 23 metro stations 600 bridges and flyovers all over India. He has over 25 years of experience as a structural engineer with expertise in bridge designs. He has Published paper in Journal of Experimental Mechanics, USA. He has presented papers in national seminars and given guest lectures in colleges. He completed his B.Tech (Civil Engg) from IIT Bombay in 1996 and M.S. (Civil Engg) from The University of Oklahoma, USA in 1998. He has worked in Stresscrete India Ltd., Mumbai and Scott Wilson Kirkpatrick India Pvt Ltd., Bengaluru. He is a member of various committees - B4 Code committee (Concrete Bridges) of Indian Roads Congress, Secretary. Indian Institution of Bridge Engineers, Karnataka Chapter, Executive Committee Member, ING-IABSE Karnataka Chapter, Chartered Engineer and Life Member, Institution of Engineers, India, Member, American Society of Civil Engineers, USA, Life Member, Association of Consulting Civil Engineers, India, Life Member, Indian Concrete Intitute, Member, CHI EPSILON, National Civil Engg., Honour Society, USA. His company Chetan Infratech Consultants Pvt. Ltd. has designed India's first platinum rated metro station "Airport South Station" for Nagpur Metro. His company has design highway projects for which the concessionaire has won Gold Award at National Highways Excellence Awards.

Section:5

Brief points about event

The Industry Expert Talk on “Bridges – Design Practices in Industry and its Execution” is organized on 13-09-2024 at REVA University Campus Sir MV Block at Room number 108. The Industry Expert Mr. Aravind Kumar Salecha, Structural Engineer and Director of Chetan Infratech Consultants Pvt. Ltd., Bengaluru, Karnataka, had visited REVA University campus and delivered his expert lecture on Bridges.

The event Industry Expert Talk started with the warm welcome by the organizers Dr. Mehar Babu Ravula, Mr. Karthik Kumar, Assistant Professors of School of Civil Engineering and Dr. B Bhavana madam, the director of School of Civil Engineering. The speaker is introduced to the students with his brief bio-data and the session is handed over to the speaker Mr. Aravind Kumar Salecha. The session went upto one-and-half hour with the Bridges Preliminary survey, detailed survey, practical drawing sheets dispatched to the site and execution controls were clearly elaborated by the speaker. Then the students actively participated and clarified their doubts for about half an hour. The students of B.Tech 7th Semester A, B and C section and M.Tech CASE (Computer Aided Structural Engineering) students participated in the session. About 66 students participated in the session along with 5 faculty members of School of Civil Engineering. The session is concluded by complementing the speaker with the bokey and the e-certificate as a token of appreciation.

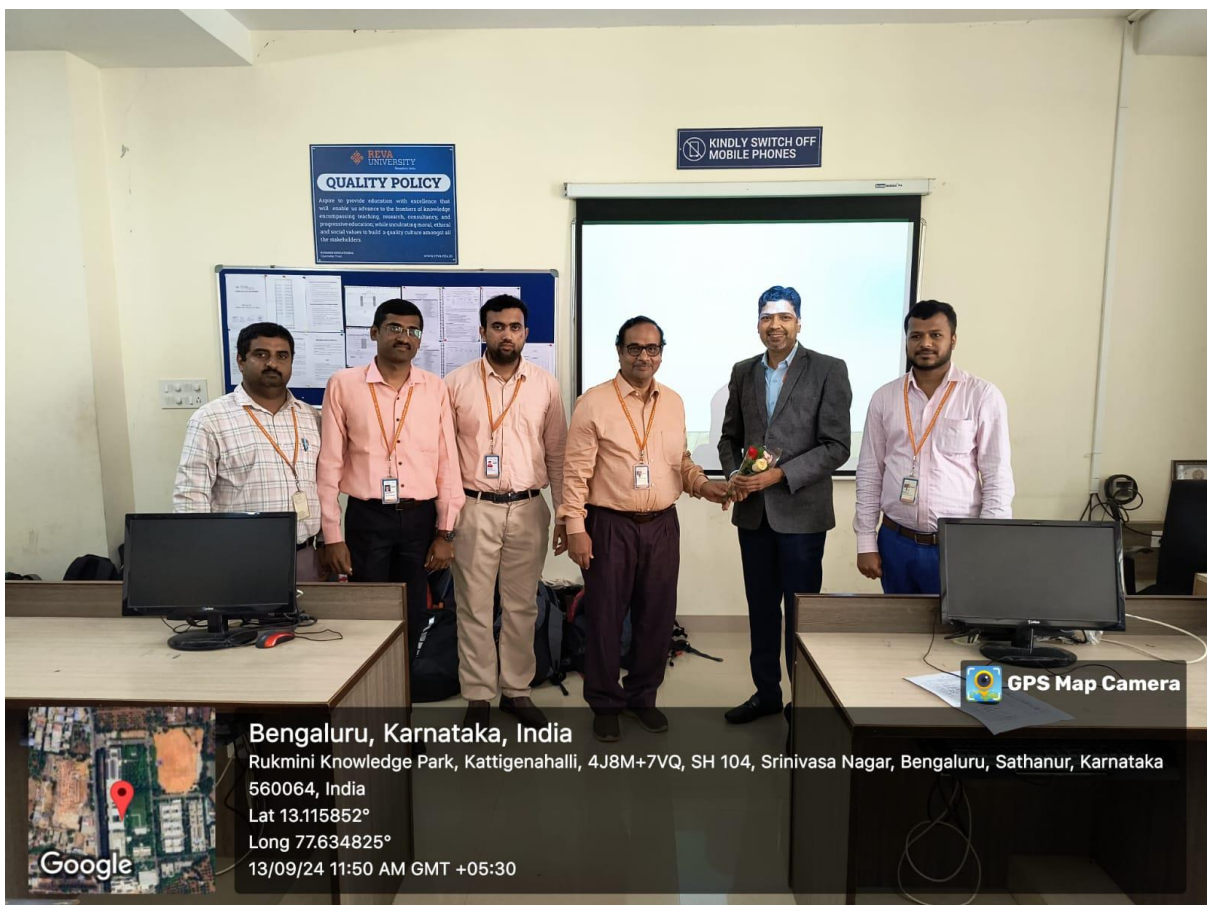
Section: 6

Geo tagged photos









Section:7

Outcome of event

The following are the Outcomes of the Industry Expert Talk on “Bridges – Design Practices in Industry and its Execution”:

1. The students are exposed to the industry practices for the design and execution process of bridges.
2. The participated students had detailed overview on the various standards maintained by industry for the design of bridges.
3. This expert talk has increased the interest towards the design of bridges among the students as it is the hardcore career for the aspiring students.
4. Improved awareness on the practices in Bridge execution at site and the techniques to overcome hurdles during construction of bridges.
5. This industry expert talk had provided the opportunity for the students to interact with industry expert on bridges and received proper guidance regarding the industrial practices in bridges and its career opportunities.

Section: 8

Participants list

PAGE No. 1/3



SCHOOL OF CIVIL ENGINEERING
ATTENDANCE FOR INDUSTRIAL EXPERT TALK ON 13-09-2024, 9:30AM
ACADEMIC YEAR 2024-2025; SEM-ODD

Sl.No	SRN	Student Name	SEM	SECTION	Signature
01	R21ED053	Karthik, D.	7 th	A	[Signature]
02	R21ED046	GAGAN KUMAR R	7 th	A	[Signature]
03	R21ED098	Kushal M.S	7 th	B	[Signature]
04	R21ED094	Chethan - J	7 th	B	[Signature]
05	R21ED068	S. Sandeep	7 th	(B)	[Signature]
06	R21ED089	Alkash Nadiq N	7 th	B	[Signature]
07	R21ED069	Gagan Gauda A	7 th	B	[Signature]
08	R21ED0109	Vivek .S.D	7 th	B	[Signature]
09	R21ED091	Anurag	7 th	B	[Signature]
10	R21ED0110	Vivek Patel	7 th	D	[Signature]
11	R21ED105	Sujat	7 th	B	[Signature]
12	R21ED101	Ritesh	7 th	B	[Signature]
13	R21ED028	S. Yashwanthraj	7 th	A	[Signature]
14	R21ED097	Karthik. Sunil. Somnath	7 th	B	[Signature]
15	R21ED041	BUSHI TRAO M.S	7 th	A	[Signature]
16	R21ED061	Manish Gourdas	7 th	A	[Signature]
17	R21ED077	Bhikshanth K.M	7 th	B	[Signature]
18	R21ED078	Bhikshanth M.B	7 th	B	[Signature]
19	R21ED113	B Gagan Surya	7 th	B	[Signature]
20	R21ED070	Salma. Dasari	7 th	B	[Signature]
21	R21ED062	Nayana Reddy S	7 th	B	[Signature]
22	R21ED065	Palugulla Pojitha	7 th	B	[Signature]
23	R21ED048	Geethanjali. E	7 th	A	[Signature]
24	R21ED013	Kara Jiomun	7 th	A	[Signature]
25	R21ED086	Yuktha. C. Benche	7 th	B	[Signature]
26	R21ED088	Afeef Sherif	7 th	B	[Signature]
27	R21ED042	Charthanya K	7 th	A	[Signature]
28	R21ED045	Thamash. M	7 th	A	[Signature]
29	R21ED047	Gagan-V.Reddy	7 th	A	[Signature]
30	R21ED012	KIBWE JOHN	7 th	B	[Signature]

MR. KARTHIK ; DR. MEHAR BAGU
EVENT COORDINATORS

PAGE No 2/3



SCHOOL OF CIVIL ENGINEERING
ATTENDANCE FOR INDUSTRIAL EXPERT TALK ON 13-09-2024, 9:30AM
ACADEMIC YEAR 2024-2025; SEM-ODD

Sl.No	SRN	Student Name	SEM	SECTION	Signature
1	R21ED111	A. Niveditha	7	B	Niveditha
2	R21ED117	G. Tejaswini	7	B	Tejaswini
3	R21ED123	K. Sai Vardhan Reddy	7	B	Sai Vardhan
4	R21ED016	Mohammed Anwar Akbar Sheikh	7	A	Anwar
5	R21ED002	ABHISHEK S	7	A	Abhishek
6	R21ED017	Mohammed Zaid	7	A	Zaid
7	R21ED005	ARUN V	7	A	Arun
8	R21ED060	mohan chandrasekhar A.V	7	A	Mohan
9	R21ED083	Vinay S	7	B	Vinay
10	R21ED040	Suhas Gowda D	7	B	Suhas
11	R21ED046	Darshan S.S	7	A	Darshan
12	R21ED093	Charan Gowda	7	B	Charan
13	R21ED038	Ashika K	7	A	Ashika
14	R23TB013	Anwaraja Rajakumar	M.Tech		Anwaraja
15	R23TB020	R. Hemathi Valmiki	11		Hemathi
16	R23TB014	Anusha N.S	11		Anusha
17	R21ED036	Abhishek K	7 th	A	Abhishek
18	R21ED055	JEROME T	7 th	A	Jerome
19	R21ED053	KARTHIK REDDY	7 th	A	Karthik
20	R20ED039	Peranna Kumar J	14	A	Peranna
21	R20ED124	Dhanushkumar S	14	A	Dhanushkumar
22	R23TB012	Abhishek K	M.Tech and sem		Abhishek
23	R23TB015	Bipin Sapkota	M.Tech Case II		Bipin

Karthik Rane
Mr. KARTHIK; DR. MEHAR BABU
EVENT COORDINATORS



REVA
UNIVERSITY
Bengaluru, India

SCHOOL OF CIVIL ENGINEERING
ATTENDANCE FOR INDUSTRIAL EXPERT TALK ON 13-09-2024, 9:30AM
ACADEMIC YEAR 2024-2025; SEM-ODD

[illegible]

Karthik Rmeh

Mr. KARTHIK ; Dr. MEHAR BABU
EVENT COORDINATORS.

Section:9

Feedback

Feedback of Industrial Expert Talk on 13/09/2024

23 Responses

02:31 Average time to complete

Active Status

1. Name

23
Responses

Latest Responses

"Geethanjali E "

"Afeef Shariff"

"Sourabh chavan "

Update

3 respondents (14%) answered S for this question.

Bipin Sapkota
V Reddy
Chethan j
Sourabh chavan
Kumar
ABHISHEK S
Kara Jirmin
Dhanush m
S
M
Sai
j
sunil kodate
Reddy
Mohit kumar
ABBUBAKKAR SIDDIQ
Pras
Varc
N Sac

2. SRN

23
Responses

Latest Responses

"R21ED048"

"R21ED088"

"R18CV242 "

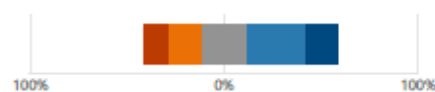
3. Do you feel you achieved your desired learning outcome?

Yes 22
No 0
Not sure 1



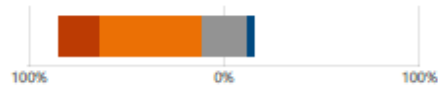
4. How effective was the learning outcome in this course?

Extremely ineffective Somewhat ineffective Neutral Somewhat effective Extremely effective



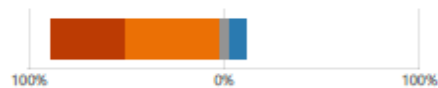
5. Did the course meet your expectation?

Strongly agree Agree Neutral Disagree Strongly disagree



6. How satisfied are you with the knowledge you gained from the course?

Somewhat satisfied Very satisfied Somewhat dissatisfied Very dissatisfied Neither satisfied nor dissatisfied



7. Brief few points on what you have learnt and your takeaways from this session

22
Responses

Latest Responses

"Good and nice teaching"

"I learnt about how useful midas software is."

"A design for a bridge "

Update

8 respondents (38%) answered Good for this question.


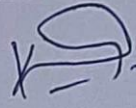
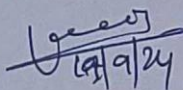
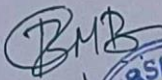
session which was good
good session Bridge design
section was good bridge construction
topographical survey survey
design practices Hydrological survey
knowledge about hydrology related pers
types of bridges good knowledge code books
Good design of bridge IRC code
knowledge about bridges
critical than the bridge
experts on Geotechnical

Section: 10

Feedback analysis

The summary of feedback shows that the broader exposure of a Bridge project is presented well to participants including the multidisciplinary specialisations such as Geotechnical, Surveying, Design, drawing sheets and its execution. The responses received for the speaker is excellent and the concepts were well presented. The participants got exposed to various techniques during erection and the various drawing sheets practically dispatched from the designer is being presented well.

The responses indicated the increased interest in the students towards the Bridge Engineering subject. The participation of the students in the talk is very good. The objective of the industry expert talk is rightly achieved. The participants got the details of the bridge slab drawings, prestressing, launching of superstructure and IRC Codes.

PREPARED BY	 Dr. Mehar Bobu.	 Mr. Karthik Kumar.
VERIFIED BY	 Venkatesh wadkar (IQAC V.A. SOCE)	
APPROVED BY	 17/9/24 