School of Civil Engineering

Paving the Path to Protection: IPR Essentials for Civil Engineers

Seminar Report

Date of Event: 05.03.2025

Venue: SMVB 108

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 centers
- 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 more eco-friendly 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

Section:1

Mapping of event to COs &POs of the course

Course Outcomes (COs):

By the end of this course/seminar, the participant can able to

1. Understand the fundamentals and importance of Intellectual Property Rights (IPR) in civil engineering.
2. Identify different types of intellectual property, including patents, copyrights, and trademarks.
3. Analyze the impact of IPR laws on innovation and project execution in civil engineering.
4. Understand the procedures for patent filing, protection, and legal frameworks.
5. Examine real-world case studies on IPR applications in construction and infrastructure.
6. Develop awareness of ethical and legal responsibilities related to IPR in engineering.

Program Outcomes (POs)

After successful completion of the programme, the participant shall be able to

1. PO1. Demonstrate in-depth knowledge of specific discipline or professional area, including wider and global perspective, with an ability to discriminate, evaluate, analyse and synthesize existing and new knowledge, and integration of the same for enhancement of knowledge.
2. PO2. Analyze complex engineering problems critically, apply independent judgment for synthesizing information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context.
3. PO3. Think laterally and originally, conceptualize and solve engineering problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise.
4. PO4. Extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct experiments, analyse and interpret data, demonstrate higher order skill and view

things in a broader perspective, contribute individually/in group(s) to the development of scientific/technological knowledge in one or more domains of engineering.

5. PO5. Create, select, learn and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities with an understanding of the limitations.
6. PO6. Possess knowledge and understanding of group dynamics, recognize opportunities and contribute positively to collaborative-multidisciplinary scientific research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.
7. PO7. Demonstrate knowledge and understanding of engineering and management principles and apply the same to one's own work, as a member and leader in a team, manage projects efficiently in respective disciplines and multidisciplinary environments after consideration of economic and financial factors.
8. PO8. Communicate with the engineering community, and with society at large, regarding complex engineering activities confidently and effectively, such as, being able to comprehend and write effective reports and design documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions.
9. PO9: Recognize the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve knowledge and competence continuously.
10. PO10. Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.
11. PO11. Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback (SELF learning)

CO-PO Mapping

CO# / PO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3							2	3	3	
CO2	3							2	3	3	
CO3	3	3	3					2	3	3	
CO4	3	3		2	2				3	3	
CO5	3	3	3		2			2	3	3	
CO6	3							3	3	3	3

1 – Low Alignment, 2 – Medium Alignment, 3 – High Alignment

Section:2

Permission letter

28/02/2025

To
The Director
School of Civil Engineering
REVA University

From
Dr. Yeddula Bharath Simha Reddy
Assistant Professor
School of Civil Engineering
REVA University

Subject: Request for Permission to Organize IPR Seminar – "Paving the Path to Protection: IPR Essentials for Civil Engineers"

Respected Madam,

The School of Civil Engineering, REVA University, seeks your approval to organize an IPR seminar titled "Paving the Path to Protection: IPR Essentials for Civil Engineers" on 5th March 2025.

This seminar aims to provide a comprehensive understanding of Intellectual Property Rights (IPR) and their significance in the field of Civil Engineering. It will offer insights into patents, copyrights, trademarks, and their applications in construction and engineering innovations.

We kindly request your permission to proceed with the organization of this seminar. Looking forward to your approval.

Sincerely,

Faculty Coordinator
Dr. Yeddula Bharath Simha Reddy
Assistant Professor
School of Civil Engineering
REVA University

Director
Dr. Bhavana B
Associate Professor and Director
School of Civil Engineering
REVA University

Section:3

Circular

RU/CV/IPR/2025/01 Date: 28.02.2025

Subject: Invitation to attend IPR Seminar – "Paving the Path to Protection: IPR Essentials for Civil Engineers"

Dear Faculty and Students,

The School of Civil Engineering, REVA University, is pleased to invite you to an IPR seminar on "Paving the Path to Protection: IPR Essentials for Civil Engineers," scheduled for 5th March 2025.

This seminar aims to provide valuable insights into Intellectual Property Rights (IPR) and their relevance to Civil Engineering. Topics covered will include patents, copyrights, trademarks, and their applications in construction and engineering innovations.

We encourage all faculty and students to participate and make the most of this opportunity to enhance their knowledge and engage in meaningful discussions.

Looking forward to your enthusiastic participation!

Faculty Coordinator
Dr. Yeddula Bharath Simha Reddy
Assistant Professor
School of Civil Engineering
REVA University

Director
Dr. Bhavana B
Associate Professor and Director
School of Civil Engineering
REVA University

Section:4

E-Banner

Section:5

Brief points about event

Conference Overview:

The School of Civil Engineering, REVA University, is organizing a seminar on "Paving the Path to Protection: IPR Essentials for Civil Engineers" on 5th March 2025. This seminar aims to educate participants on Intellectual Property Rights (IPR) and their role in protecting innovations in civil engineering. A total of 40 students and faculty attended the event.

Keynote Speaker:

Ms. Arshiya Ambreen
Corporate Executive and Trainer / Innovation Ambassador
University Industry Interaction Center (UIIC), REVA University

Ms. Ambreen brings extensive expertise in IPR policies, innovation management, and industry-academia collaboration, offering valuable insights into the legal and practical aspects of intellectual property in engineering.

Session Highlights:

- Introduction to Intellectual Property Rights (IPR) – Understanding patents, copyrights, trademarks, and trade secrets.
- IPR in Civil Engineering – How IPR impacts construction technologies, designs, and materials.
- Patent Filing Process – Step-by-step guide to protecting engineering innovations.
- Real-world Case Studies – Examples of IPR applications in infrastructure projects.
- Legal and Ethical Considerations – Understanding IPR laws and their enforcement in engineering practices.

Evaluation Criteria:

- A test will be conducted at the end of the seminar to measure participants' understanding and learning outcomes.
- Participants will be evaluated based on their knowledge retention, application of IPR concepts, and case study analysis.

Impact and Future Implications:

- Encouraging innovation and intellectual property protection among civil engineering students and faculty.
- Raising awareness about IPR-related legal and ethical responsibilities in engineering.
- Promoting collaborations between academia and industry to foster a culture of innovation and compliance with intellectual property laws.
- Preparing participants to integrate IPR knowledge into their future research and professional projects.

Section:6

Geo-tagged photos


GPS Map Camera
Sathanur, Karnataka, India
Rukmini Knowledge Park, Kattigenahalli, 4j8m+7vq, Sh 104,
Srinivasa Nagar, Bengaluru, Sathanur, Karnataka 560064, India
Lat 13.115872° Long 77.634539°
05/03/25 10:56 AM GMT +05:30
104
Google

Section:7

Learning Outcome Assessment Form

REVA UNIVERSITY Bengaluru, India

School of Civil Engineering

IPR Seminar
on
Paving the Path to Protection: IPR Essentials for Civil Engineers
05.03.2025
LEARNING OUTCOME ASSESSMENT FORM

Hi, Dr. Yeddula Bharath Simha Reddy. When you submit this form, the owner will see your name and email address.

* Required

1. What is Intellectual Property (IP)? (1 Point) *
   - ◯ A business strategy
   - ◯ Ideas, inventions, or creations protected by law
   - ◯ A creative work protected by law
   - ◯ A patent for an invention

2. Why is IPR important for Civil Engineers? (1 Point) *
   - ◯ To protect innovative designs and technologies
   - ◯ To ensure no competition in the market
   - ◯ To avoid construction delays
   - ◯ None of the above

3. Which of the following is NOT a type of Intellectual Property? (1 Point) *
   - ◯ Copyright
   - ◯ Trademark
   - ◯ Patent
   - ◯ Land Ownership

4. What is a Patent? (1 Point) *
   - ◯ Protection for an invention or process
   - ◯ Protection for a logo
   - ◯ Protection for a design
   - ◯ Protection for a construction site

5. What is the role of a Trademark? (1 Point) *

- Protecting ideas
- Protecting inventions
- Protecting confidential information
- Protecting brand identity or logos

6. How long does patent protection typically last? (1 Point) *

- 25 years
- 20 years
- 10 years
- 15 years

7. Why are Non-Disclosure Agreements (NDAs) important? (1 Point) *

- All of the above
- To protect designs and plans from being shared without permission
- To protect an invention before a patent is filed
- To allow businesses to collaborate without revealing trade secrets

8. How long does a Copy right protection typically last? (1 Point) *

- 10 years
- 50 years
- 20 years
- 60 years

9. How long does Trademark typically last? (1 Point) *

- 15 years
- 20 years
- 25 years
- 10 years

10. Which of the following is an example of copyright protection? (1 Point) *

- A construction company's logo
- A unique building material
- Option 4A construction method
- A blueprint or architectural design

11. Which of the following is protected under copyright? (1 Point) *

- A business name
- An invention
- A song or literary work
- A logo design

12. Which IPR protects inventions? (1 Point) *

- Trade Secret
- Trademark
- Copyright
- Patent

13. A trademark protects: (1 Point) *

- A software code
- A physical invention
- A company's brand or symbol
- A novel idea

14. Which of the following cannot be patented? (1 Point) *

- A new software algorithm
- A new machine
- A naturally occurring plant
- A new drug formula

15. Which IPR type gives the creator exclusive rights to use, license, and sell their invention? (1 Point) *

- Patent
- A Copyright
- Trademark
- Trade Secret

Section:8

Rubrics for evaluation of outcome

The evaluation is being done for 15 marks. Each question carries 01 mark. The Evaluation Rubrics is as follows.

Score Range	Performance Level	Description
13 - 15	Excellent	Demonstrates a strong understanding of IPR concepts, types, and their applications in civil engineering. Accurately answers almost all questions.
10 - 12	Good	Shows a fairly good grasp of IPR topics, with minor misunderstandings in some areas. Can differentiate between various forms of IP but needs more clarity.
7 - 9	Satisfactory	Displays basic knowledge of IPR but lacks depth in specific areas. Struggles with distinguishing between different types of IP protection.
4 - 6	Needs Improvement	Has a limited understanding of IPR. Demonstrates confusion in fundamental concepts and struggles to apply them in real-world contexts.
0 - 3	Poor	Shows little to no understanding of IPR. Incorrectly identifies IP types, protections, and their significance in engineering. Requires further learning.

Section:9

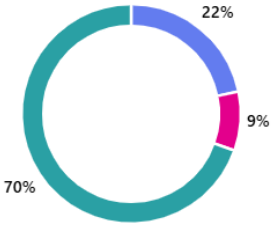
Learning Outcome Assessment

The assessment results reveal varying levels of understanding among participants. The highest score obtained was 14, while the lowest was 4. The majority fell into the 10-12 point range, displaying a good understanding but with minor gaps. The overall average score was 10.83, indicating a good grasp of IPR concepts among most participants.

1. What is Intellectual Property (IP)? (1 point) More details

70% of respondents answered this question correctly.

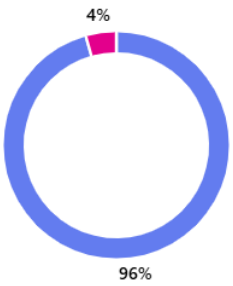
A patent for an invention	5
A creative work protected by law	2
Ideas, inventions, or creations protected by law ✓	16
A business strategy	0



2. Why is IPR important for Civil Engineers? (1 point) More details

96% of respondents answered this question correctly.

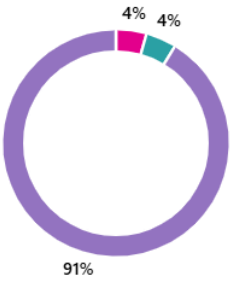
To protect innovative designs and technologies ✓	22
To ensure no competition in the market	1
To avoid construction delays	0
None of the above	0



3. Which of the following is NOT a type of Intellectual Property? (1 point) More details

91% of respondents answered this question correctly.

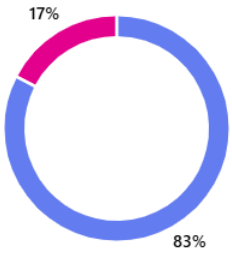
Patent	0
Trademark	1
Copyright	1
Land Ownership ✓	21



4. What is a Patent? (1 point) More details

83% of respondents answered this question correctly.

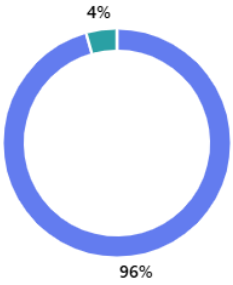
Protection for an invention or process	19 ✓
Protection for a design	4
Protection for a logo	0
Protection for a construction site	0



5. What is the role of a Trademark? (1 point) More details

96% of respondents answered this question correctly.

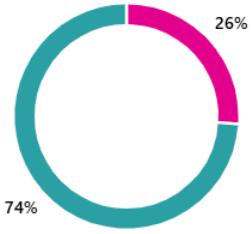
Protecting brand identity or logos	22 ✓
Protecting ideas	0
Protecting inventions	1
Protecting confidential information	0



6. How long does patent protection typically last? (1 point) More details

74% of respondents answered this question correctly.

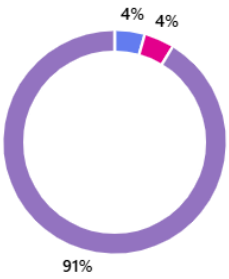
10 years	0
15 years	6
20 years	17 ✓
25 years	0



7. Why are Non-Disclosure Agreements (NDAs) important? (1 point) More details

4% of respondents answered this question correctly.

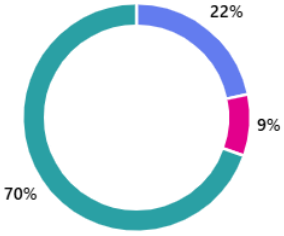
To protect an invention before a patent is filed	1
To protect designs and plans from being shared without permission	1 ✓
To allow businesses to collaborate without revealing trade secrets	0
All of the above	21



8. How long does a Copy right protection typically last? (1 point) More details

70% of respondents answered this question correctly.

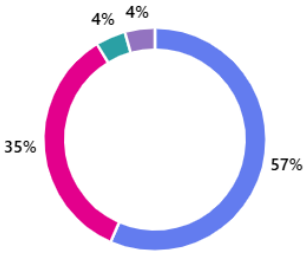
10 years	5
20 years	2
60 years	16 ✓
50 years	0



9. How long does Trademark typically last? (1 point) More details

57% of respondents answered this question correctly.

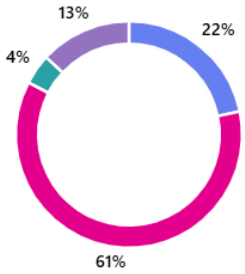
10 years	13 ✓
15 years	8
20 years	1
25 years	1



10. Which of the following is an example of copyright protection? (1 point) More details

61% of respondents answered this question correctly.

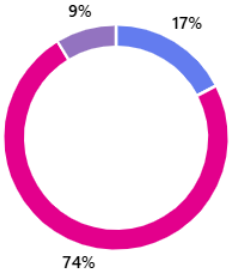
A construction company's logo	5
A blueprint or architectural design	14 ✓
A unique building material	1
Option 4A construction method	3



11. Which of the following is protected under copyright? (1 point) More details

74% of respondents answered this question correctly.

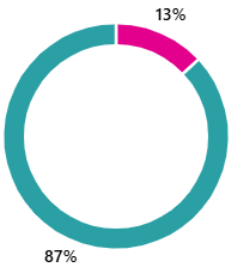
An invention	4
A song or literary work	17 ✓
A business name	0
A logo design	2



12. Which IPR protects inventions? (1 point) More details

87% of respondents answered this question correctly.

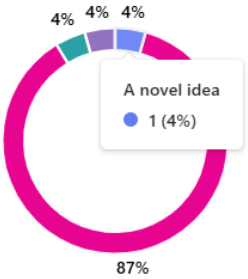
Trademark	0
Copyright	3
Patent	20 ✓
Trade Secret	0



13. A trademark protects: (1 point) More details

87% of respondents answered this question correctly.

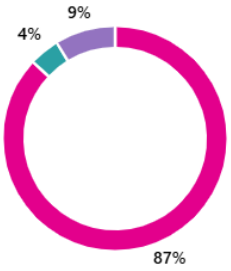
A novel idea	1
A company's brand or symbol	20 ✓
A physical invention	1
A software code	1



14. Which of the following cannot be patented? (1 point) More details

87% of respondents answered this question correctly.

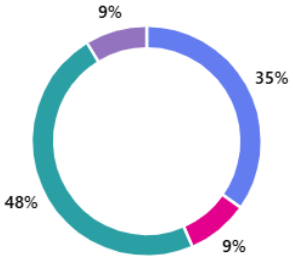
A new drug formula	0
A naturally occurring plant	20 ✓
A new machine	1
A new software algorithm	2



15. Which IPR type gives the creator exclusive rights to use, license, and sell their invention? (1 point) More details

48% of respondents answered this question correctly.

A. Copyright	8
Trademark	2
Patent	11 ✓
Trade Secret	2



Learning outcome assessment

S.No.	Name	Marks(15M)
1	S Mahidhar	11
2	Shreevijay Chikkadesai	9
3	Likith kumar S	12
4	Chinthan H M	12
5	PRASANNA ANGADI	8
6	HUSEN TAPAL	14
7	VAHINI JOSHI	11
8	DANESHWARI SHIRAGANNAVAR	11
9	SHAMANTHA M L	12
10	GAUTHAM S R	11
11	Saveen HN	9
12	Mohammad Faize	14
13	Sharatha Kumar S K	10
14	Harishkumar D	8
15	LAKSHMI T	4
16	Dr. Sumant Khanderao Kulkarni	11
17	I Mahesh	14
18	Pritam Shirur	13
19	Thara P	8
20	KALAVATI CHALLAL	11
21	UDAYKUMAR PARASAPPA KALLIGUDDI	13
22	PREM SHIRUR	12
23	Chunchu Balarama Krishna	11

Section:10

Outcome of event

The IPR Seminar – "Paving the Path to Protection: IPR Essentials for Civil Engineers" successfully enhanced participants' understanding of Intellectual Property Rights (IPR) and their significance in civil engineering. Attendees gained in-depth knowledge of various forms of intellectual property, including patents, copyrights, trademarks, and trade secrets, and learned about their legal frameworks and protection mechanisms. The seminar provided practical insights through real-world case studies, illustrating how IPR is applied in construction and infrastructure projects.

A key highlight of the event was the discussion on Non-Disclosure Agreements (NDAs) and the ethical responsibilities of engineers in safeguarding proprietary designs and innovations. The seminar also featured an assessment test, which helped evaluate participants' comprehension of IPR concepts, ensuring effective knowledge retention. Furthermore, the event encouraged students and faculty to explore innovation, research, and patent filing opportunities, fostering a proactive approach toward protecting intellectual contributions.

Overall, the seminar equipped participants with the necessary awareness and skills to integrate IPR principles into their professional careers, preparing them for future industry collaborations, research endeavours, and entrepreneurial ventures. The event not only strengthened their understanding of legal protections but also motivated them to think innovatively and contribute to technological advancements in civil engineering.

Section:11

Participants list

REVA UNIVERSITY
Bengaluru, India

School of Civil Engineering

IPR Seminar on

"Paving the Path to Protection: IPR Essentials for Civil Engineers"

05.03.2025

Attendance Sheet

S. No.	Student/Faculty ID	Student/Faculty Name	Signature
01	REVA 01544	PRASHANTH . N	
02	REVA 02071	Dr. CH. Bala Ramakrishna	
03	REVA02577	Harish Sagar M	
04	R24TE015	Prasanna. Angadi	
05	R24TE018	Udaykumar. Parasappa. Kalligudi	
06	R24TE016	Prem . A . Shirur	
07	2404050179	Shreevijay. V. Chikkadesai	
08	R24TE002	Adarsh. S. Agiuagi	
09	R24TB006	Husen. D. T	
10	R24TB002	Satish Chatalige	
11	2404030053	S. Mahadhar	
12	R24TE017	Pritam . A. Shirur	
13	R24TE007	P. Mahesh	
14	R24TE011	A. Mohammed Faize	
15	R24TB018	Spoorthi . M Munji	
16	R24TB007	Kalavati. R. C	
17	R24TB009	Lakshmi M.T	
18	R24TB019	Thara.P	
19	2404030000071	Darshan SS	
20	R24TB001	Chinthan. H.M	
21	R24TB017	Shaboth Kumar. S.K	

S. No.	Student/Faculty ID	Student/Faculty Name	Signature
22	240403001069	Bharath Gowda. A	
23	R 2024300	GAUTHAM. S.R	
24	Dr. Vanishree 2049?	Dr. Vanishree	5/3
25	Dr. Bharath C	REVA02291	

Faculty Coordinator

Director 5/3/25

REVA UNIVERSITY * SCHOOL OF CIVIL *

REVA UNIVERSITY Bengaluru, India

School of Civil Engineering

IPR Seminar on

"Paving the Path to Protection: IPR Essentials for Civil Engineers"

05.03.2025

Attendance Sheet

S. No.	Student/Faculty ID	Student/Faculty Name	Signature
1	REVA00183	Dr. Sanjay Raj. D	
2	REVA01730	Amaranatha. G.A	
3	REVA00188	Avinash S Deshpande	
4	REVA02594	DR. Sumant Kulkarni	
5	REVA02324	Preethi.S	
6.	REVA00758	Shylaja S.N	
7.	REVA01488	Chandraprakash	
8	REVA01791	DR. M.A. NAGESH	

S. No.	Student/Faculty ID	Student/Faculty Name	Signature
1.	24040500127	D. Harish kumar	
2.	R24TB020	Ujwal G.	
3.	R24TE006	Dakeshwari. M. Shivagonnavar	
4.	R24TE019	Vahini Joshi	
5	R24TB016	Shamanthar. M L	
6	R24TB015	Javeen. H.N.	
7.	R24TB010	S. Likith kumar	

Faculty Coordinator

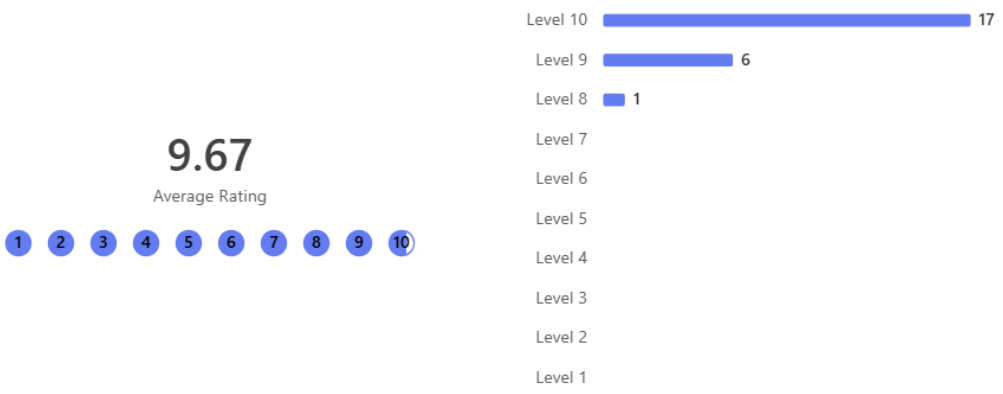
Director 5/3/25

Section:12

Feedback

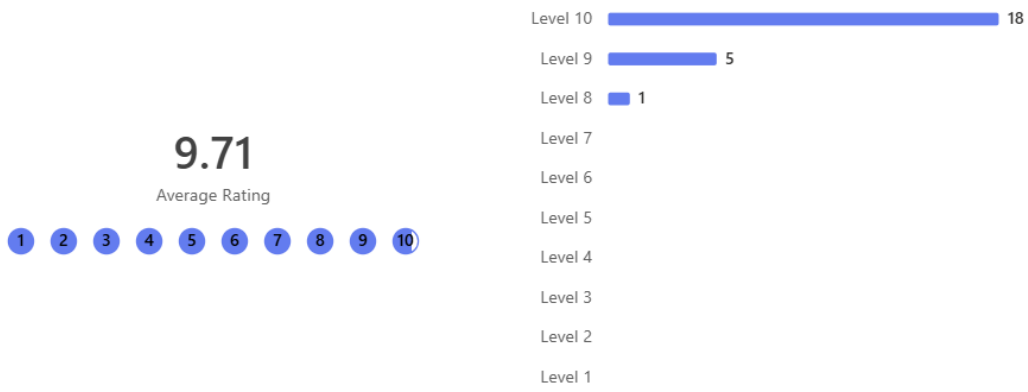
6. The Trainer is Knowledgeable

More details



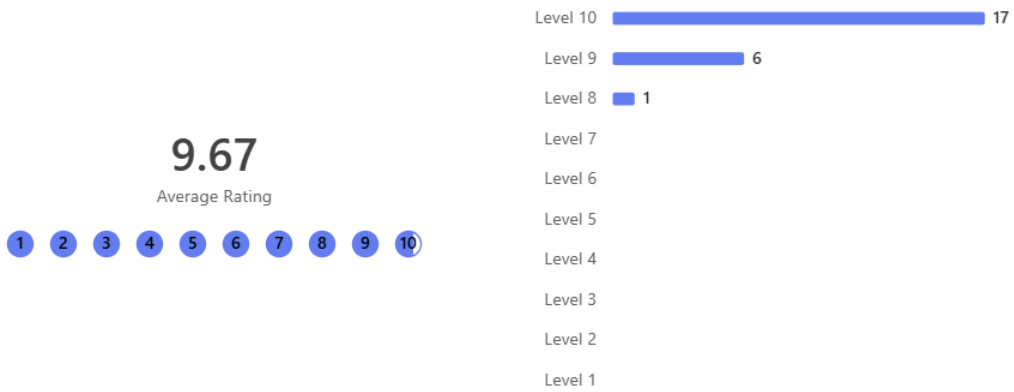
7. Adequate time is provided for questions & discussion, and clearing doubts

More details



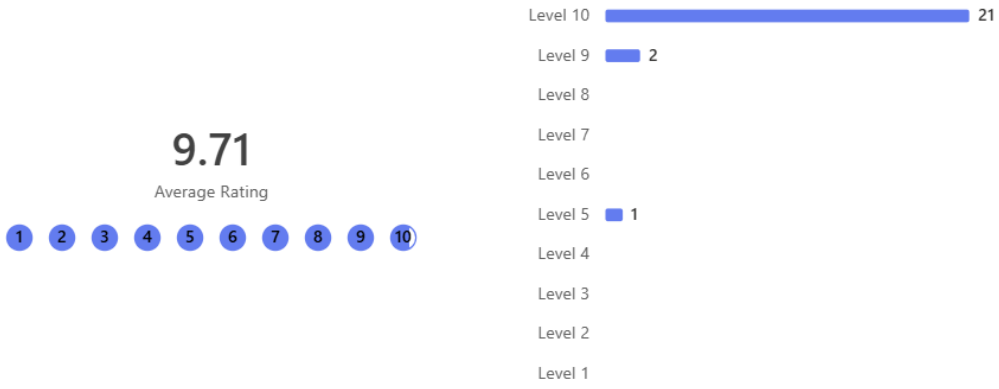
8. The topics mentioned in the session outline are taught in the class

More details



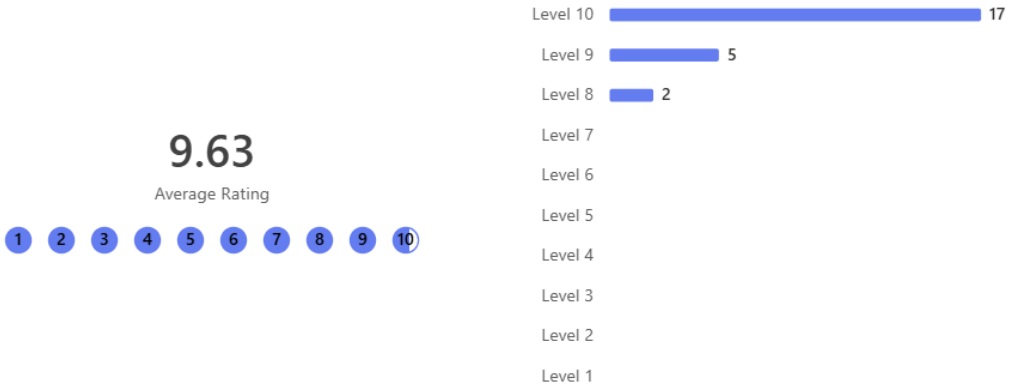
9. Is session conducted on time

More details



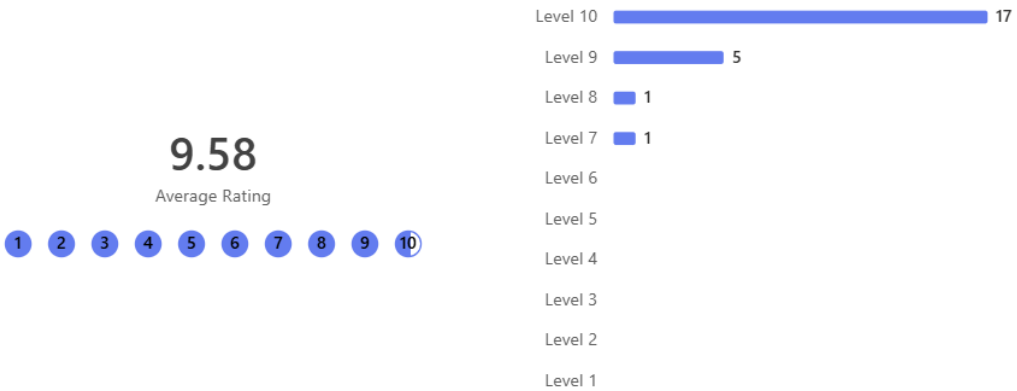
10. The information you were given about what you could expect from the session

More details



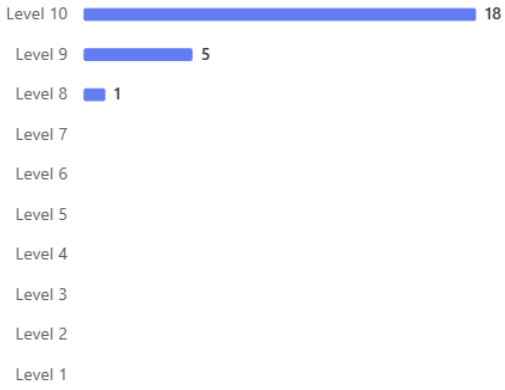
11. The level and demands of the course

More details



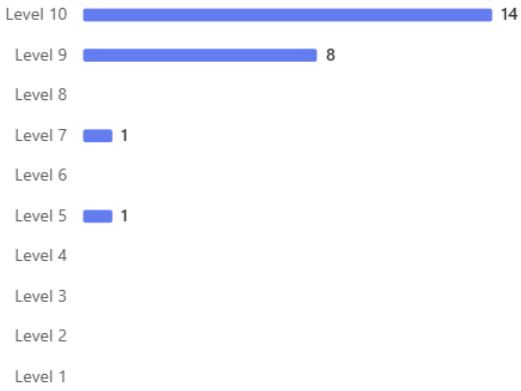
12. The quality of the teaching/training provided

More details



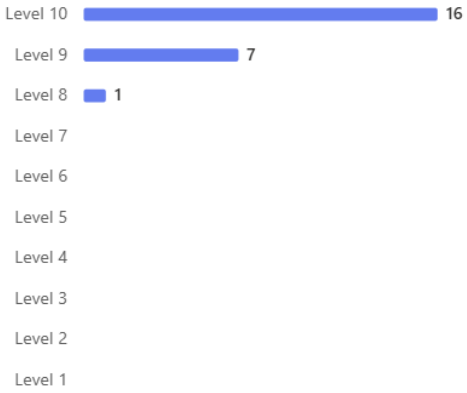
13. The quality of the materials used to deliver the course (books, handouts, equipment etc.)

More details



14. The overall quality of the program

More details



15. Please use this space for any comments you would like to make about the course.

More details

9
Responses

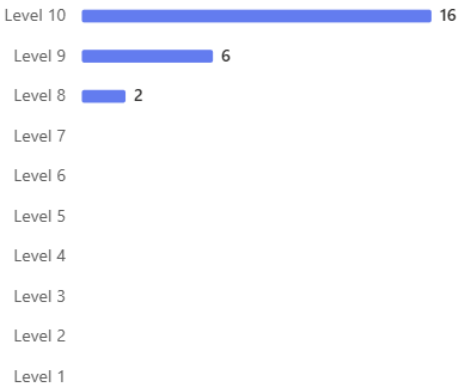
Latest Responses
...

1 respondents (11%) answered Good knowledge for this question.

16. The number that reflects most closely how satisfied you were with the course overall

More details

9.58
Average Rating



Section:13

Feedback analysis

The feedback received for the event indicates an overwhelmingly positive response from participants. The average ratings across various aspects of the event were consistently high, with scores ranging between 9.33 and 9.71.

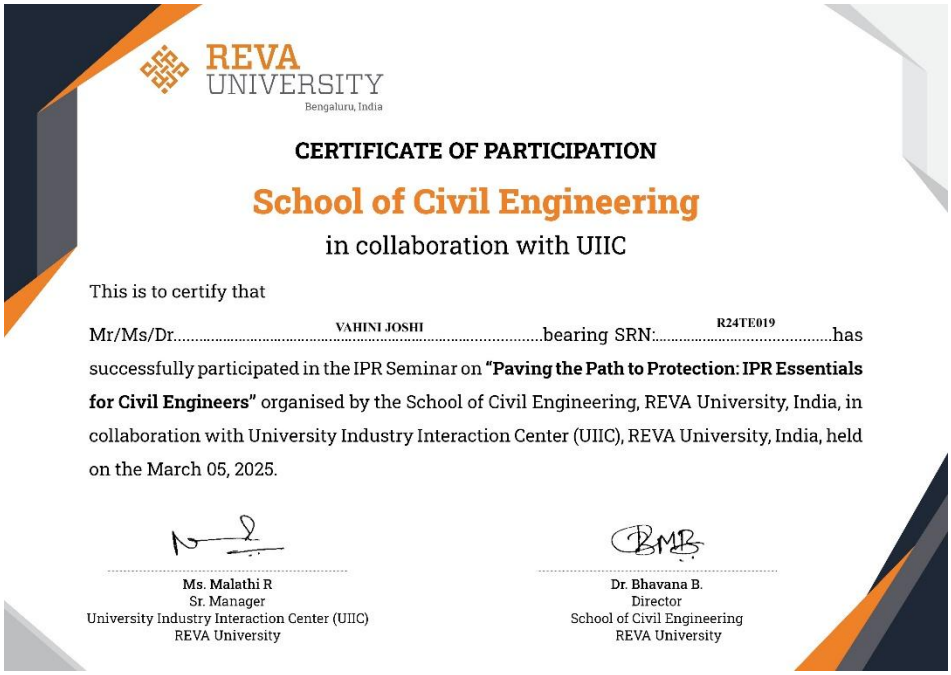
Participants particularly appreciated the time provided for discussions and doubt clearance (9.71), the timeliness of the session (9.71), and the quality of teaching and training (9.71). The topics outlined for the session were well covered (9.67), and the overall quality of the program received a strong rating of 9.62.

Overall satisfaction with the course was rated at 9.58, reflecting a high level of approval from attendees.

Faculty Coordinator **IQAC VH** **Director**

Section:14

Sample certificates



REVA UNIVERSITY
Bengaluru, India

CERTIFICATE OF PARTICIPATION

School of Civil Engineering

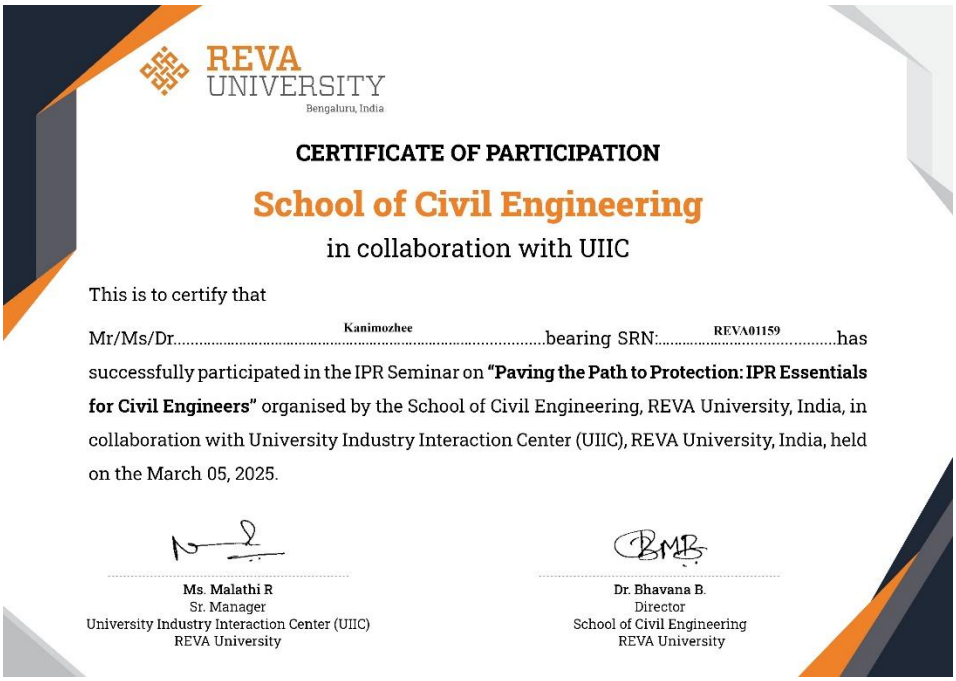
in collaboration with UIIC

This is to certify that

Mr/Ms/Dr. VAHINI JOSHI bearing SRN: R24TE019 has successfully participated in the IPR Seminar on **"Paving the Path to Protection: IPR Essentials for Civil Engineers"** organised by the School of Civil Engineering, REVA University, India, in collaboration with University Industry Interaction Center (UIIC), REVA University, India, held on the March 05, 2025.

Ms. Malathi R
Sr. Manager
University Industry Interaction Center (UIIC)
REVA University

Dr. Bhavana B.
Director
School of Civil Engineering
REVA University



REVA UNIVERSITY
Bengaluru, India

CERTIFICATE OF PARTICIPATION

School of Civil Engineering

in collaboration with UIIC

This is to certify that

Mr/Ms/Dr. Kanimozhee bearing SRN: REVA01159 has successfully participated in the IPR Seminar on **"Paving the Path to Protection: IPR Essentials for Civil Engineers"** organised by the School of Civil Engineering, REVA University, India, in collaboration with University Industry Interaction Center (UIIC), REVA University, India, held on the March 05, 2025.

Ms. Malathi R
Sr. Manager
University Industry Interaction Center (UIIC)
REVA University

Dr. Bhavana B.
Director
School of Civil Engineering
REVA University