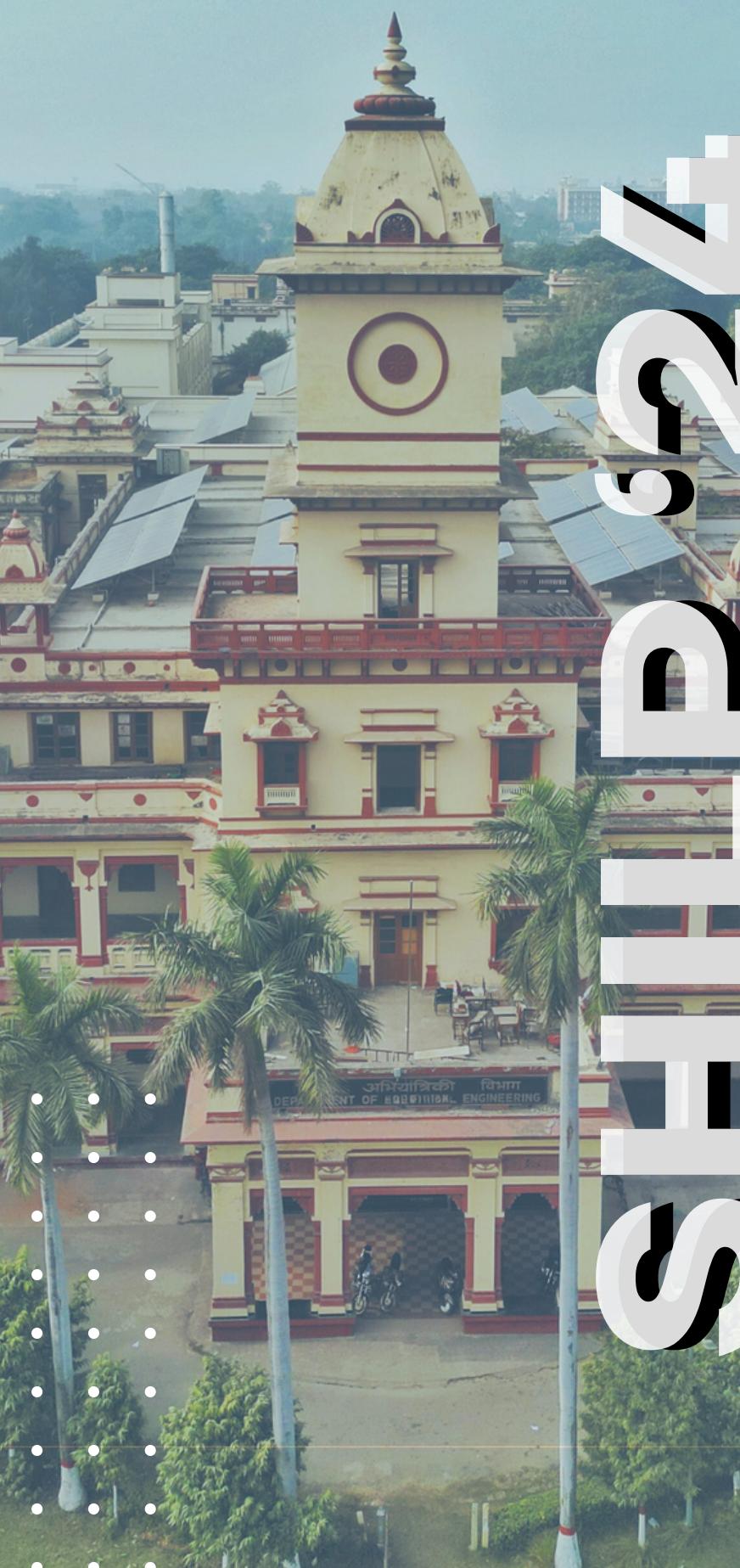


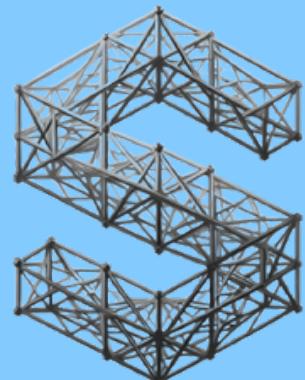


# IIT BHU



SHILP

INNOVATION ODYSSEY



**SHILP**

5th-7th April, 2024





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## General guidelines for all events:

🌟 Step into the realm of **Shilp**, where every challenge is an opportunity and every participant is a star in the making. Embrace the opportunities, cherish the camaraderie, and let the spirit of Shilp propel you towards greatness. Your journey starts here - let your talents shine! 🚀

- Uphold the fest's decorum and ensure overall discipline.
- **Accommodation will be provided for participants.**
- For **event specific information** ,refer to **respective event's description.**
- **Colleges must arrange transport for participants.**
- If participating in multiple events, ensure **no timing clashes**. For clarifications, **connect with our team**.
- Each participant will be required to pay a **registration fees of ₹99**.
- For each event, in which the participant wants to take part, he/she will have to pay a fees of **₹49 per event**.

🏆 Let us create memorable moments and celebrate the spirit of knowledge and camaraderie at Shilp. Your journey to excellence starts here! Join us for a fun-filled and enjoyable event at **Shilp**.

# CODEBLITZ-(Hackathon)

🌟 Dive into the world of innovation and problem-solving with **CodeBlitz**! This event invites coding enthusiasts, developers, and creative minds to collaborate, ideate, and build groundbreaking solutions. 🚀

**Participation limit:** Each **team** can have **maximum 2 participants**.

## Event Structure:

### Hackathon(Online):

- **Objective:** Build a website according to a provided problem statement.
- **Rules:**
  - The **problem statement** will be provided to the participants in the **third week of march with a deadline**.
  - They will get **24 hrs to build the website**.
  - They will have to provide **an interesting UI/UX design**.
  - Specific pages need to be build **at given endpoints** as mentioned in **the problem statement**.
  - A **Github repository** would be created for this purpose, the participants **need to fork the repository** and generate **a pull request with the final solution**.
  - A **website-link** should also be mentioned in the **description of the pull request** as well as on their **own Github Profile**.
  - The **link should be of the website hosted** on any of the platforms **Netlify , Vercel, Heroku etc**.

### **Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 Join us at **CodeBlitz** for a thrilling journey of coding, collaboration, and creativity. Ignite your passion for technology, and let the digital innovation unfold, as we celebrate the brilliance of Civil Engineering knowledge **at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU)**.

# NEXUS-(ML Competition)

🌟 Get ready to delve into the realms of data and algorithms with **Nexus!** Join us for a machine learning competition where participants explore, innovate, and demonstrate their mastery of cutting-edge ML techniques. 🚀

**Participation limit:** Each **team** can have **maximum 2 participants**

## Event Structure:

### Round 1: (Online) submission of model:

- **Objective:** According to a **provided problem statement** and **dataset**, create a **machine learning model**.
- **Rules:**
  - Participants will be provided a **problem statement** and a **relevant dataset** in the **third week of march**.
  - They will have to utilize their **knowledge of ML** and **code an accurate model** covering all aspects of the dataset.
  - The **participants** are **free to use relevant technologies**, they will have to **test the model on a test dataset** after **model training**.
  - **Data cleaning and preprocessing** should be done efficiently.
  - A **google form will be circulated with a deadline**, participants will have to submit their **model files, the dataset after data cleaning** in the form with a **brief description** of their **solution** before the **deadline**.

### Round 2: Final Presentation Round(Offline):

- **Objective:** Shortlisted participants will be called offline to present their solution in front of a panel.
- **Rules:**
  - A time limit of 10 minutes will be provided to each team.
  - Teams would be judged on their implementation, cases covered, understanding of the problem statement and Overall idea.
  - Questions will be asked to the participants based on their solution by the panel.
  - Answers to the questions asked will also be a point of judgement.

#### **Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 Join us at **Nexus**, where innovation meets machine learning. Unearth new possibilities, hone your skills, and showcase your talent in the evolving landscape of artificial intelligence, as we celebrate the brilliance of Civil Engineering knowledge at **Shilp**, the annual fest of the Civil Engineering Department, IIT (BHU).

# InsightRise Symposium

 Embrace the spotlight, ignite curiosity! Join **InsightRise Symposium** event and showcase the essence of your groundbreaking discoveries. Seize this opportunity to inspire, captivate, and share the transformative impact of your research. Unveil the future with your insights—because your work deserves to be heard!" 

**Theme:** Elevating Ideas, Igniting Minds.

## **Event Structure:**

The Research Paper Presentation event is a competition on **infrastructure topics** designed for **B.Tech/Idd** Students to showcase their academic work, share groundbreaking discoveries, and engage in intellectual discourse.

### **Round 1 - Online Submission of Research Work**

- In the initial stage of the competition, participants engage in a virtual showcase of their Presentation through an **online submission**.
- This goes through a review process, to select presentations for the **live event**. The aim is to create a diverse and enriching lineup of research topics that will be shared with a broader audience.

### **Round 2 - Live Presentation**

- Selected participants move forward to the exhilarating 2nd Round, where the spotlight shifts to the **live stage**.
- Each presenter is given a specific time slot to bring their research to life through an **engaging live presentation**.

## **Rules:**

- **Eligibility:**

Open to all **B.Tech/Idd** students.

- **Submission Guidelines:**

Participants are required to submit an **abstract or summary** of their research paper for initial evaluation.

Abstracts may undergo a **review process** to select presentations for the event.

- **Presentation Format:**

The event feature Oral presentations and **PPT slides**.

**Language** of the presentation should be **English**.

- **Time Limit:**

Each presenter is allocated a time limit of **12-14 minutes** for their presentation, ensuring a fair and organized event.

- **Ethical Standards:**

Presenters are expected to adhere to ethical standards in their research and presentation, ensuring accuracy, honesty, and respect for intellectual property.

- **Question and Answer Session:**

A **question and answer** session may follow each presentation, providing the audience with an opportunity to engage with the presenter and delve deeper into the research.

- **Judging Criteria:**

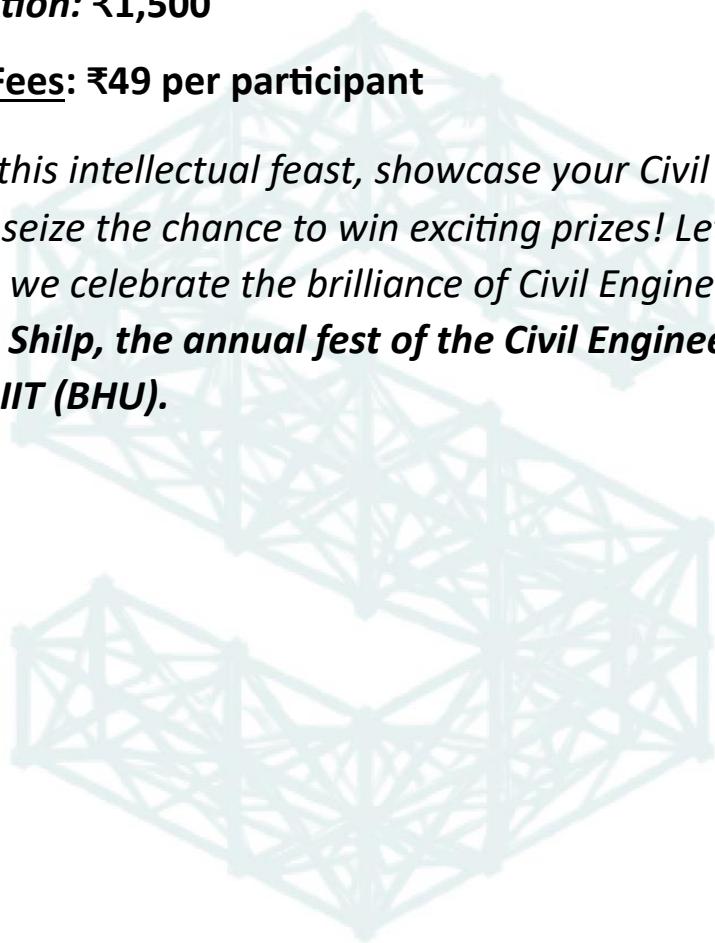
Presentations will be evaluated based on criteria such as **clarity, depth of research, methodology, results, and the ability to address questions effectively**.

### **Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 Join us in this intellectual feast, showcase your Civil Engineering prowess, and seize the chance to win exciting prizes! Let the battle of wits begin, as we celebrate the brilliance of Civil Engineering knowledge **at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU).**



# 3 MINUTE THESIS

🌟 Transform your groundbreaking research into a compelling **three-minute masterpiece!** Are you ready to make your mark in just three minutes? Embrace the challenge and elevate your research journey with **3 Minute Thesis!** 🚀

**Theme:** Elevating Ideas, Igniting Minds.

**Event Structure:**

The 3 Minute Thesis is a competition on **infrastructure topics**, that challenges **M.Tech and Ph.D** students to present their research and its significance in a compelling and accessible manner within a **strict time limit of 3 minutes** and **3 slides presentation**, excluding introductory and concluding thank-you slides.

**Round 1 - Online Submission of Research Work**

- In the initial stage of the competition, participants engage in a virtual showcase of their Presentation through an **online submission**. This online sharing is just the start, like a **preview** of what's to come in the next rounds of the competition!

**Round 2 - Live Presentation**

- Selected participants move forward to the exhilarating 2nd Round, where the spotlight shifts to the **live stage**.  
Here, you are the storyteller, weaving your research into a mesmerizing **three-minute presentation**.

**Rules:**

- **Time Limit:**

Each participant is allocated exactly **three minutes** for their presentation.

**Penalties** may be applied for **exceeding the time limit**.

- **Three Slides, No More, No Less:**

Participants are **allotted three slides** to visually support their presentation, excluding **introductory and thank-you slides**.

- **Eligibility:**

Typically open to **M.Tech** and **Ph.D** students actively engaged in research.

- **No Violation of Ethical Standards:**

Presentations should adhere to ethical standards and avoid any content that may be inappropriate or offensive.

- **Language:**

Language of the presentation should be **English**.

- **Judging Criteria:**

Presentations are typically judged on criteria such as **clarity of expression, use of language, slide quality, time management, and adherence to the rules**.

### **Prizes:**

- ***1st Position: ₹5,000***
- ***2nd Position: ₹3,500***
- ***3rd Position: ₹1,500***

### **Registration Fees: ₹49 per participant**

 *Join us in this intellectual feast, showcase your Civil Engineering prowess, and seize the chance to win exciting prizes! Let the battle of wits begin, as we celebrate the brilliance of Civil Engineering knowledge at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU).*

# CODECRAFT

🌟 Dive into the intersection of civil engineering and cutting-edge coding at our thrilling competition! Are you ready to reshape the future of infrastructure using the power of programming? Here's your chance! 🚀

**Theme:** Civil Engineering related Coding questions

**Event Structure:**

**Round 1: Coding Round:**

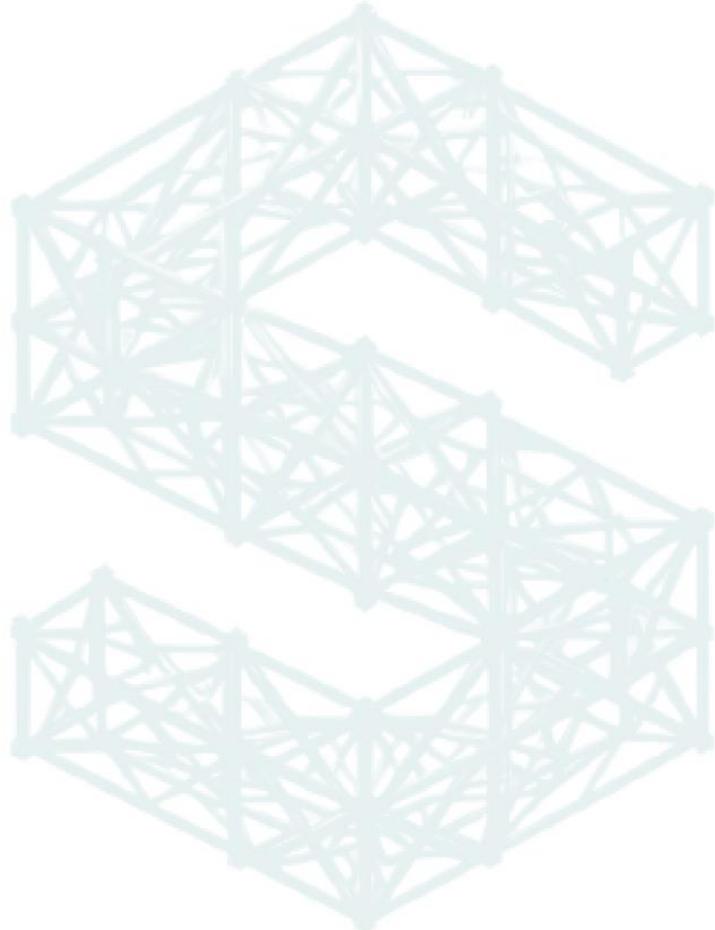
- **Objective:** Participant will be given 2 hours to solve 3 problems.
- **RULES:**
- Each problem will have a specified point value(100->200->300).
- **Plagiarism or use of pre-existing solutions** will result in disqualification.
- Participants are free to choose their preferred programming languages.
- Programs will be tested by running them with a set of test inputs.

**Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 *Immerse yourself in a high-energy event where civil engineers and coding maestros unite! Let the battle of wits begin, as we celebrate the brilliance of Civil Engineering knowledge at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU).*



# BUILD VISION EXPO

 Brace yourself for the ultimate fusion of creativity, engineering finesse! Picture yourself at the forefront of ground breaking design, where your ideas leap off the drawing board and into reality. The "Build Vision Expo" isn't just an opportunity; it's your chance to redefine what's possible and sculpt a future that echoes with the sound of your success 

**Theme:** "Bridging Dreams: From Digital Vision to Real Success"

**Participation limit:** Each team can have **maximum 3 participants.**

**Event Structure:**

**Round 1: "Design Exploration and Selection"**

**Time limit: 3 days**

- ***Objective:*** Participants will have to plan a model of the **Bridge** on **AutoCAD** with proper dimensions and model it on **STAADPRO**.
- ***The problem statement will be released in the first week of march.***
- ***This will be an online round.***
- ***Rules for AutoCAD:***

**1. Scale and Units:**

- Ensure that the drawing is created to the correct scale.
- Verify that the units used in the drawing match the intended scale (e.g., inches, millimetres).

**2. Geometric Accuracy:**

- Check that all dimensions and geometric elements (lines, circles, arcs, etc.) accurately represent the intended design.
- Verify angles, distances, and alignments.

### 3. Drawing Organization:

- Confirm that the drawing is organized logically, with related elements grouped together.
- **Rules for STAADPRO:**
  - They have to determine the bending moments, shear forces, axial forces, and other structural responses using software
  - Review and analyse the results using the post-processing tools provided by the software.
  - Generate detailed reports that include bending moment diagrams and tabulated results.

## Round 2: Turning Concepts into Reality:

### Time limit: 2 hours

- **Objective:** Selected Participants are tasked with **building the models** they planned on AutoCAD, verified for structural integrity on STAADPRO, and now, the challenge lies in transforming these digital dreams into tangible marvels using **materials provided** on the spot.
- **This is the final and offline round.**
- **Rules:**
  - The participant will also have to **explain** about their model.

- The real model should be **90% accurate to the plan**, it will also be a **judgement criteria**.

The following points should be there while explaining their model:

❖ **Purpose or Function:**

If applicable, explain the intended purpose or function of the model. For example, if it's a bridge, discuss its potential use, or if it's a building, mention its purpose in a hypothetical scenario.

❖ **Design Concept:**

Describe the overall design concept and inspiration behind the model

❖ **Future Improvements:**

Discuss any potential improvements or modifications that could enhance the model if given more time or resources. This shows a forward-thinking approach to design.

❖ **Challenges Overcome:**

Share any challenges faced during the construction process and explain how they were overcome. Discussing problem-solving strategies can demonstrate the participant's creativity and adaptability.

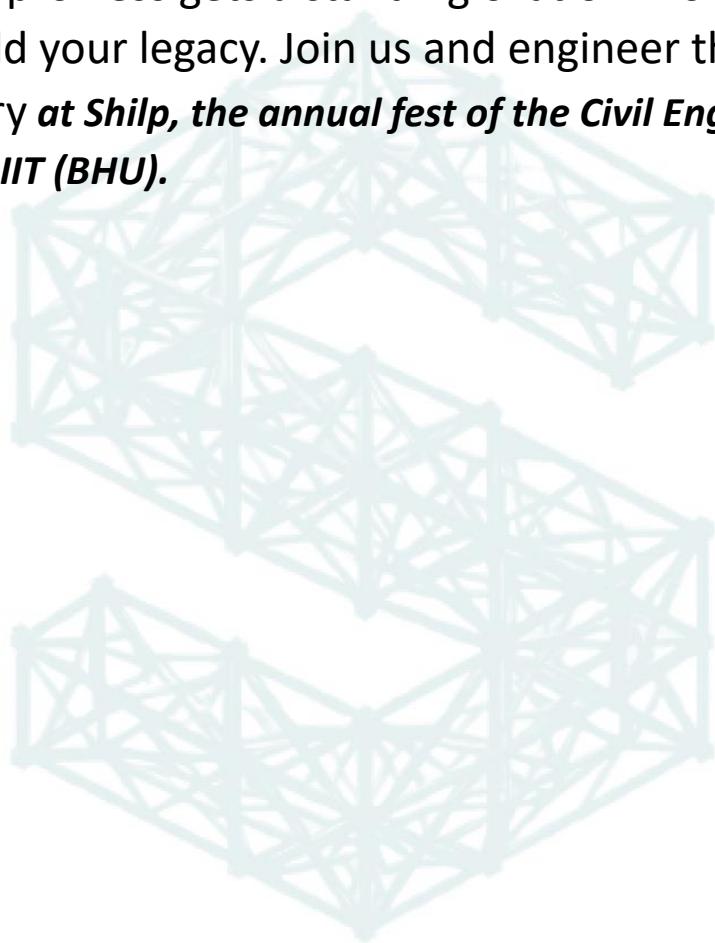
- The model will be tested on shaking machine to ensure their strength and stability and the participant whose model falls last and explained well will be the winner.

**Prizes:**

- **1st Position:** ₹7,000
- **2nd Position:** ₹5,500
- **3rd Position:** ₹4,000

### **Registration Fees: ₹49 per participant**

🏆 Gear up for a design escapade like never before! The Bridge Design Blitz is where dreams take shape, and engineering prowess gets a standing ovation. Don't just build bridges; build your legacy. Join us and engineer the extraordinary *at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU)*.



# CASE CLASH

 Dive into the realm of intellect and innovation with "Case Clash," a dynamic fusion of case study and debate competition in the realm of civil engineering. 

Theme: Civil Engineering related

Participation limit: Each **team** can have **maximum 2 participants**.

Event Structure:

Round 1: Case Study Submission:

- **Objective:** Problem Statement for the case study will be released in **the second week of march**.
- **Rules:**
  - Participants will have to submit their case study on the **PS within a given deadline**.
  - It should consist of **maximum 6 slides excluding introductory and Thank You slides**.
  - This will be in **online mode**.

Round 2: Debate competition:

- **Objective:** Shortlisted Participants will be called **offline** to take part in the debate competition.
- **Rules:**
  - **Topic for the debate** would be provided **2 hours prior to the event**.
  - Participants will have to **speak either for or against the statement given**, they **will be informed**.

- Participants must maintain the decorum of the debate.
- **Each participant** will be given **4 minutes to speak** followed by **2 minutes of questioning by other teams**.
- Participants will be judged on **choice of words, impact, presentation, clarity while speaking, answers to questions asked and relation to facts**.
- Mention of **statistical information is appreciated** but it **should be factual**.
- To ensure fairness and a focused environment, we adhere to a "**No Cross-Questioning**" policy. Once a participant responds to a question, **there will be no subsequent questioning directed back at them**, even if the **original question was posed by the same participant**. This rule aims to maintain a **smooth and respectful flow** during interactions, fostering an atmosphere conducive to thoughtful responses.

#### **Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

🏆 Join us at Case Clash, where minds collide, ideas clash, and solutions emerge - a celebration of critical thinking and innovation in civil engineering, as we celebrate the brilliance of Civil Engineering knowledge **at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU)**.

# SURVEYOR'S HUNT

🌟 Embark on an exhilarating journey with "Surveyor's Hunt," a captivating event where participants employ surveying principles to uncover hidden hints, unlocking a trail that leads to the ultimate treasure. 🚀

**Theme:** "Navigate the terrain, decode the clues, and unearth the ultimate prize in Surveyor's Hunt – where surveying meets treasure discovery!"

**Participation limit:** Each **team** can have **maximum 2 participants**.

**Event Structure:**

**Treasure Hunt :**

- ***Objective:*** Locate the **treasure** utilizing **hints to different points** leading to the **final point** using **principles of surveying**.
- ***Rules:***
  - Teams would be assembled on **the starting point** where each team would be provided **the starting clue**.
  - **Successive clues** need to be found at different points by understanding **the previous clue**.
  - Clue will consist of **an angle and a distance to a given point**.
  - Teams will be **provided relevant instruments and flags** for **marking different points**.
  - The final clue will be **the same point for all teams** leading from **the penultimate point**.

- The first team to **find all points and the ultimate treasure** will be declared winners.
- It is **mandatory to find all points before the ultimate treasure**, then only will the team be considered for being declared **winners**.
- A **time limit of 3 hours** will be provided for the event.

#### **Prizes:**

- **1st Position: ₹5,000**
- **2nd Position: ₹3,500**
- **3rd Position: ₹1,500**

**Registration Fees:** ₹49 per participant

 *Join us at Surveyor's Hunt, where precision meets adventure, and surveying skills lead to the thrill of discovering the ultimate treasure, as we celebrate the brilliance of Civil Engineering knowledge **at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU)**.*

# BRIDGEIT

🌟 Gear up for the **ultimate bridge-making showdown** that fuses engineering brilliance with hands-on innovation. Are you ready to build bridges that defy expectations and span new horizons? 🚀

**Participation limit:** Each **team** can have **maximum 2 participants**.

## **Event Structure:**

### **Round 1:Bridge Making:**

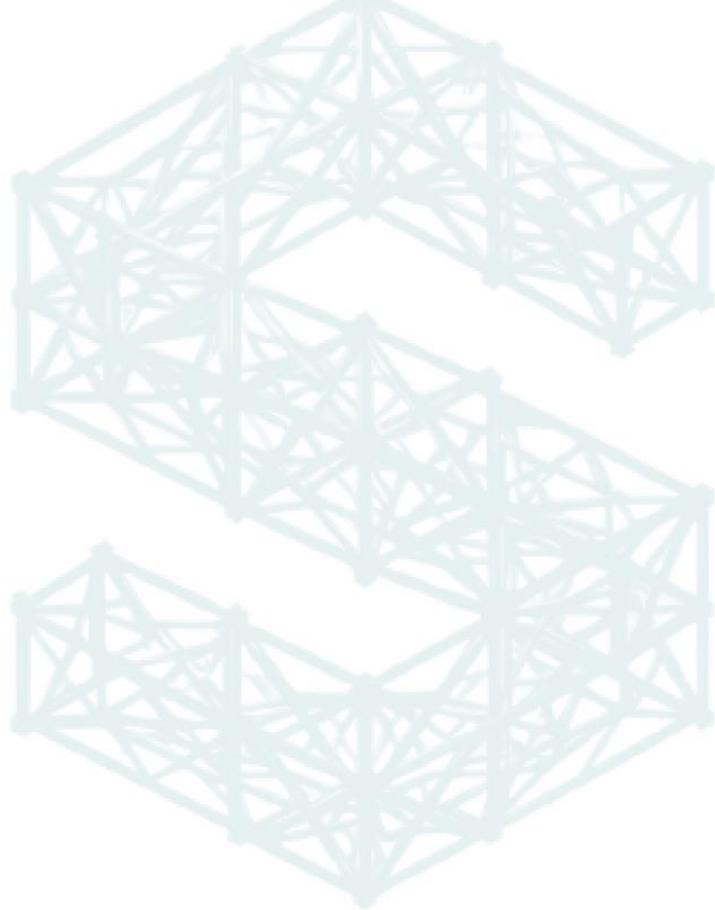
- **Objective:** Design and construct a bridge in **2 hrs** that can **withstand applied loads and seismic forces on a shaking table**.
- **RULES:**
  - Bridges will undergo **testing on a shaking table** to simulate seismic conditions.
  - Bridges will be subjected to a **static load test** using calibrated weights to assess load-bearing capacity.
  - Participants **will be provided construction materials** and all the required tools.
  - Scores will be assigned based on performance **in load tests and seismic simulation**.

## **Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 Join us at the Bridge Making Competition, where bridges aren't just structures—they're gateways to a future shaped by your innovation. Let the battle of wits begin, as we celebrate the brilliance of Civil Engineering knowledge **at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU)**.



# FEAST FOR BRAINS

 Unleash your intellect and join us for "**Feast for Brains**," an exhilarating quiz competition that delves into the world of Civil Engineering. Test your knowledge, embrace the challenge, and vie for the title of the ultimate Civil Engineering quiz champion! 

**Theme:** Civil Engineering related questions

**Participation limit:** Each team can have maximum 2 participants.

**Event Structure:**

## **Round 1: Elimination Round 1:**

- ***Objective:*** Answer questions on a sheet of paper in **one word or one line as required** within **30 minutes**.
- ***Rules:***
  - **Correct Answer: +4, Wrong Answer: -1, No Answer: 0**
  - **Two teams** will be eliminated.

## **Round 2: Elimination Round 2:**

- ***Objective:*** Answer questions on a sheet of paper in **one word or one line as required** within **30 minutes**.
- ***Rules:***
  - **Correct Answer: +4, Wrong Answer: -1, No Answer: 0**
  - **Two teams** will be eliminated.

## **Round 3: Question Passing Round**

- ***Objective:*** Teams can **answer or pass** questions asked to them in **20 minutes**.
- ***Rules:***

- **Correct Answer: +4, Pass: 0**
- This round will not have **negative marking**.

#### **Round 4: Rapid Fire Round**

- ***Objective:*** Teams face a **Rapid-Fire** round, each team would be called upon stage, they will have to answer as many questions as possible in **2 minutes**.
- ***Rules:***
  - **Correct Answer: +5**
  - This round will not have **negative marking**.

#### **Prizes:**

- ***1st Position: ₹5,000***
- ***2nd Position: ₹3,500***
- ***3rd Position: ₹1,500***

#### **Registration Fees: ₹49 per participant**

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# CAPTURE THE SNAP

🌟 Unleash your inner storyteller and freeze those moments that scream life and laughter. "**Capture the snap**" isn't just a photo challenge; it's your ticket to making the everyday extraordinary. Let's turn streets into stories and structures into snapshots of human tales. So, grab that camera, hit the streets, and let's make magic happen!



**Theme:** "People Interaction with Infrastructures."

**Participation limit:** Individual participation.

**Event Structure:**

**Round 1: (Only 1 round )**

- **Objective:** It's all about capturing those moments where the city and its peeps connect in unexpected and amazing ways. Traffic jams with a twist, ghat tales, bridges that tell stories, and the everyday scenes of folks hopping onto buses – your lens is the passport to this vibrant city symphony.
- **Rules:**
  - A specified area about a **radius of 10km** will be provided to participants. They are required to capture photos on given theme.
  - They will be given time from **morning 9 am to evening 5 pm**. They will have to submit their captured snaps in the given time window through a **Google form**.
  - Participants will have to explain what they have captured in **two or three lines in the same google form**, because ("*Life's moments are like a canvas, open to interpretation. It's not just about what you see, but the unique stories you create from each experience. Embrace*

*the mystery and find beauty in your own understanding”)*

- For the above point we will have **plagiarism and AI detection on submitted text**, we want to see your creativity, please refrain from using AI tools otherwise it may lead to penalty in points and hamper your chances of winning.

**Prizes:**

- **1st Position:** ₹5,000
- **2nd Position:** ₹3,500
- **3rd Position:** ₹1,500

**Registration Fees:** ₹49 per participant

 *Join Us in Capturing the Unseen, Embracing the Unnoticed, and Framing the Unforgettable. Come, Be a Part of **Capture the Snap – Where Your Lens, Your Story, and Your Dreams Take Centre Stage at Shilp, the annual fest of the Civil Engineering Department, IIT (BHU).***

# THANK YOU

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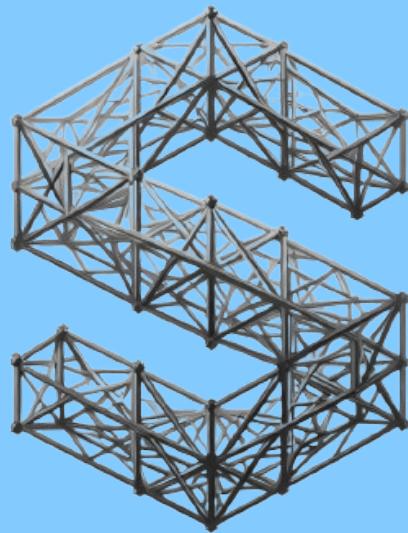
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Civil Engineering**

**IIT BHU**