



NIRMAAN 2020



**DATE: 17th & 18th
February'20**

TIME: 10 a.m.

**VENUE: RGPV Conference
Hall,**

Bhopal

NIRMAAN-2020 is a 2-day civil engineer's tech-fest being organized by the Technophilic Club. It is a club of civil engineering students of UIT-RGPV, aimed to promote out of the box thinking among new generation civil engineers.

'NIRMAAN' highlights and brings forth the modern approaches being used in field of civil engineering to build a sustainable tomorrow.

The 2 power packed days at NIRMAAN 2020 offer plethora of enthralling competitions and events to the future civil engineers!

- ❖ **TecTonic** : Thought provoking technical lectures by experts.
- ❖ **TDrafts** : A town planning and presentation competition.
- ❖ **Innoviq** : A research paper presentation competition on innovative construction materials and techniques.
- ❖ **JAM** : Just a minute battling competition on civil engineering topics.
- ❖ **Constructora** : Bridge modeling competition.
- ❖ **DrawUp** : An AutoCAD design and drafting competition.
- ❖ **Hysteria** : Spate of informal events from sports to bonfire.

Who all can participate? All the civil engineering students (pursuing Diploma/B.Tech./ B.E./M.Tech courses) from colleges affiliated to RGPV University across the state of Madhya Pradesh can participate.

Exciting prizes to be won & participation certificate to all, REGISTER TODAY! [Register here](#)

NOTE: Accommodation to outstation students will be available on chargeable basis.

For queries? Call +91 7223898594, +91 9893718506 or drop a mail at ctp.rgpv@gmail.com with the subject 'QUERY'.

DEPARTMENT OF CIVIL ENGINEERING,
UIT-RGPV, BHOPAL

TecTonic – Technical talks

Civil engineering is all about knowing and mastering the small details & technicalities involved in designing and construction of a structure. TecTonic presents two technical speeches by two leading experts in the field of civil engineering to enhance your knowledge and fondness for the subject.

TecTonic is bound to leave a lasting effect and broaden the horizons of future civil engineers.

- **REGISTER HERE :** [click here](#)
- On-Spot registrations too would be available on 17th and 18th Feb'20.

Technical Competition 1 - TDrafts

- **DESCRIPTION:**

TDrafts is a presentation competition where the participants get to use their creativity and knowledge of civil engineering subjects to plan their own town for the given data.

- **TOPIC:**

Town Planning – A town/ smart city for a population of 8lakhs -10lakhs, area-300 sqkm has to be designed with basic requirements of residential areas, hospitals, educational institutes, commercial spaces etc. The town should have an efficient water supply system, drainage facility, traffic control, should utilize natural resources and renewable sources of energy.

Available resources should be assumed and mentioned in the solution abstract.

- **PARTICIPATION TYPE:**

As individuals or as a team of maximum 4 members.

- **ROUNDS:**

ROUND 1: Online submission of abstract on or before 5th February, 2020

(NOTE: 1.The abstract should be mailed to ctp.rgpv@gmail.com in a PDF file under the subject 'TDrafts' after registering with team lead's name and contact, 2.The abstract should not exceed 500 words and should contain drawings)

ROUND 2: On campus presentation on 17th February, 2020.

(NOTE: List of 10 short-listed candidates/teams will be published on 8th Feb'20)

- **RULES AND REGULATION:**

1. All the students will be allotted a time period of 8 minutes for their presentation. Exceeding time limit would deduct 3 marks.
2. No participant should be a part of more than one team.
3. Please cite all sources of information as references.

- **JUDGEMENT CRITERIA:**

Participants will be judged on the bases of their content, presentation skills, question and answer round by the respective judges.

PARAMETERS	MARKS
1. Presentation (slides)	10
2. Drawing of proposed town	10
3. Utilization and generation of renewable sources of energy	15
4. Advancements and management of the water supply system	15
5. Efficient sewerage system and waste treatment	15
6. Traffic management and pollution Control system	15
7. Understanding of the topic and QnA round	15
8. Oratory skills	5
Total	100mks

- **REGISTER HERE :** [click here](#)

- **FOR QUERRIES CONTACT :**

Yashraj: +91 7987759006 **Shweta :** +91 7898407980

EMAIL: ctp.rgpv@gmail.com

Technical Competition 2 - Innoviq

- **DESCRIPTION:**

A mini research paper is a piece of academic writing based on its author's original research on a particular topic, and the analysis and interpretation of the research findings.

Innoviq gives an opportunity to test the skills of future civil engineers to brain storm their minds and in writing a research paper.

NOTE : This is just a mini research paper writing competition where students would be judged on the research paper writing criteria but no paper would be published.

- **TOPIC:** Recent Innovations in civil engineering methods & materials. (any particular method/material can be chosen)

- **PARTICIPATION TYPE:** As individuals or as a team of maximum 4 members.

- **ROUNDS:**

ROUND 1: Online submission of abstract on or before 5th February, 2020

(NOTE: 1.The abstract should be mailed to ctp.rgpv@gmail.com in a PDF file under the subject 'INNOVIQ' after registering with team lead's name and contact, 2.The abstract should not exceed 500 words and may or may not contain drawings/pictures)

ROUND 2: On campus presentation on 18th Feb'20

(NOTE: List of 10 short-listed candidates/teams will be published on 8th Feb'20)

- **RULES AND REGULATION:**

1. All the students will be allotted a time period of 8 minutes for their presentation. Exceeding time limit would deduct 3 marks.
2. No participant should be a part of more than one team.
3. Please cite all sources of information as references.

- **JUDGEMENT CRITERIA:**

Participants will be judged on the bases of their content, presentation skills, question and answer round by the respective judges.

PARAMETERS	MARKS
1. Presentation (slides)	10
2. Topic/Concern	10

3. Content	10
4. Originality	15
5. Discussion (conclusion and interpretation)	20
6. Documentation (quotations, references, footnotes etc.)	15
7. Understanding of the topic and QnA round	15
8. Oratory skills	5
Total	100mks

- **REGISTER HERE :** [click here](#)

- **FOR QUERRIES CONTACT :**

Shweta : +91 7898407980 Prasoon : +91 9893718506

EMAIL: ctp.rgpv@gmail.com

Technical Competition 3 - JAM

- **DESCRIPTION:**

Jam is a short for JUST A MINUTE. The participants are being provided with a topic to speak upon, up to a length of 1 minute.

It is an all- round fun event that is all about the control of the mind over the mouth. The participant would be judged on his/her ability to make it through sixty seconds of non-stop speaking without hesitation, stammering, and repetition of previously used ideas and deviation .Points will be deducted for exceeding the time limit.

- **TOPIC:**

- i. Advanced and economical engineering materials/technologies
- ii. Modern surveying and mapping operations
- iii. Post and pre-seismic design strategies
- iv. Construction of Energy Efficient Buildings

NOTE: Exact topic from the above mentioned topics would be provided on spot.

- **PARTICIPATION TYPE:** Individual

- **ROUNDS:** On-spot rounds on 18th Feb '20.

- **RULES AND REGULATION:**

1. Exact topic would be given 5mins prior to your turn.
2. Exceeding time limit would deduct marks.
3. Decision of JAM Master would be final.
4. Marks would be deducted for irrelevant and repetitive content.

- **JUDGEMENT CRITERIA:**

1. His/her oratorical skills, voice modulation and diction.
2. Quality and authenticity of content.
3. Spontaneity and correctness in making objections.

- **REGISTER HERE :** [click here](#)

- **FOR QUERRIES CONTACT :**

Daran: +91 7773870465 **Damini:** +91 9111393075

EMAIL: ctp.rgpv@gmail.com

Technical Competition 4 - Constructora

- **DESCRIPTION:**

The sole purpose of the event is that the participants have to create and submit a Bridge or Multi-purpose Dam prototype i.e. a small replica or a working model of the structure thereby suggesting some innovative ideas for a stronger structure with higher load bearing capacity and structural stability using the most commonly used and available materials like popsicle sticks, rubber bands, screws, paper, wood, nuts, bolts etc.

So here we give all the budding Civil engineers a chance of creating one such small working model or replica using their own ideas and creativity to carry a certain load.

- **TOPIC:** Bridges

- **PARTICIPATION TYPE:** Individual or as a team of maximum 4 members.

- **ROUNDS:** On-spot judgment of brought models on 18th Feb '20.

- **RULES AND REGULATION:**

1. Participants have to bring their prepared models on the day of competition to the venue.
2. Length of the structure should be 60cm (+_ 5cm is allowed).
3. Width of the structure should be 15cm (+-1cm is allowed).
4. Materials to be used:- Popsicle (icecream) sticks, metal wires, rubber bands, rubber bands, wood, pins, cardboard, threads and strings, adhesives.

- **JUDGEMENT CRITERIA:**

PARAMETER	MARKS
Load bearing capacity	20
QnA Round (based on cost analysis, materials used, design etc)	30
TOTAL	50

- **REGISTER HERE :** [click here](#)

- **FOR QUERRIES CONTACT :**

Yashraj: +91 7987759006 **Asmi:** +91 8770976214

EMAIL: ctp.rgpv@gmail.com

Technical Competition 5 - DrawUp

- **DESCRIPTION:**

AutoCAD is a computer aided software drafting program. It is widely used in the Civil Engineering field because of its ability to plan sites a lot easier than hand drawings.

- **TOPIC:**

3-D Drawing (base,orthogonal,isometric views) for 2/3- BHK .

NOTE: Exact topic would be provided on spot.

- **PARTICIPATION TYPE:** Individual

- **ROUNDS:** On-spot drafting and judgment round on 18th Feb '20.

- **JUDGEMENT CRITERIA:**

1. Marks would be allotted for completing within time limit.
2. Precision and accuracy.
3. Knowledge check in QnA round.

- **REGISTER HERE :** [click here](#)

- **FOR QUERRIES CONTACT :**

Tarunima: +91 6299123565 **Prateek:** +91 9340293924

EMAIL: ctp.rgpv@gmail.com

Hysteria – Spate of informal events

“All work and no play makes Jack a dull boy”

Hysteria is a series of super fun and exciting engagements for the future civil engineers. Hysteria would ensure you work out your mind and body equally while making new friends and gathering new experiences.

Hysteria will include everything from sports to treasure hunts to bonfire making sure to add up to one of your unforgettable experience and limitless joy.

- **REGISTER HERE :** [click here](#)

On-Spot registrations too would be available on 17th Feb'20

