From robo-soccer, Smart City challenge to a rocking performance by Bollywood singer Dhvani Bhanushali, IIT Bhubaneswar's Wissenaire is all about innovations, education, skill building and entertainment

Decoding IIT's tech festival

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Budding technocrats from institutes and colleges across the country will exercise their grey cells at IIT Bhubaneswar's Wissenaire. From robo wars to drone races, reverse coding, smart city challenge and lot more—the institute is all set to host the tenth edition of eastern India's biggest tech and cultural college festivals. It took a year for around 200 IIT Bhubaneswar students to design, curate and conceptualise the fest, which is expected to see a footfall of 10,000 students. Ahead of the fest, *The City Express* brings you the events and competitions that comprises Wissenaire this year.

Ready to boot

The festival will include a wide variety of tech-based competitions, grouped under 'Yanthrix.' If you are a Robotics freak, check out this segment. It will host an event titled Robo Wars—a contest designed to test the creativity in building a destructive indestructible robot. In Maze Solver, students will have to design an autonomous bot which can challenge time factor with abilities of following a proper path. A robo-soccer, titled Kick Off, will witness how robots will play football against one and another. In Drone Challenge, the jury will test drones speed, maneuverability, and weight as they cover a path. There will be pillars, loops, bends, un-

derpass, turbines and other obstacles placed in random sequence along an aerial track. In Trekkon, students will be asked to make an all-terrain vehicle (Bot) that is capable of taking sharp turns, climbing a hill, moving precisely in a straight line and can jump from a height. The primary task involved in the event is to transport objects in challenging conditions.

Paper pitch

In 'Colloquia', students will be encouraged to submit papers. Wissenaire aims at tapping the infinite potential of the human mind in generating an "idea", which when given a proper platform can transform into a great new discovery or innovation. The colloquia cover various streams like Civil Engineering, Electrical Engineering, Mechanical Engineering and Computer Science Engineering.

Show the skill

The festival will host a tech expo. It is being organised with the aim of bringing to light the technological advancements made by the students. It will have several sub-sections. In Archimedes Dunk, they will showcase projects based on floating concrete. Electrade is an event to showcase their skill in building circuits and marketing them. Participants will be given some virtual money, which they can use to buy components, build circuits and sell them again for

gaining profits. In Electronix, students will have to detect bugs in a circuit and debug those. Replica is an event to design a mechanical arm using syringes, flexible pipes, rubber bands and some other materials. In Stimulant, students will try to make a water rocket. The rocket must use compressed air as its energy source.

Smart City challenge

This year, the students have included the Smart City Challenge to provide solutions for City's traffic and civic problе4ms. From planning smart transportation system to using technology for building smart police stations or hospitals, the students will work on several aspects within a stipulated budget. They will be provided with a map of the City.

Brainstorm

The festival has adopted several coding and decoding events. In Counter Cypher, an executable program will be given to the participants. Thereafter, they will have to figure out the code behind it. In another contest, the students will be asked to build a code with restrictions imposed on its compilation. In Cad-ed, the participants will be asked to design a prototype on spot using AUTOCAD software. Besides, there will be a Maths Olympiad to test problem solving skills and memory challenge.

Sell it right

Not just creating technologies, but the fest also focuses on marketing of the pitches. For instance, in Auction War, students will

build a squad through auction by making the right investment decision. In Mad Ads, students will be able to showcase their advertising skills. Through Pioneer's Plan, they will get an opportunity to project their entrepreneurial skills by making a business plan presentation.

Lighter notes

The festivals is not just about serious contests. Fun elements have also been added to it in the form of quizzing, Lan Wars-a gaming platform, detective story writing, pho-

tography contest and memes competition.

For school champs

A special segment has been introduced for school children, from classes eight to 10 class. This includes written exam, memory test and an interview. This event also includes seminars aimed at inculcating curiosity towards the technical advancements happening across the globe.

Hi-tech defence

This year's Wissenaire showcases exhibits from the DRDO, the Indian Army and various other gadgets and innovations along with a series of talks on the second day tagged "TekNite" by the industry specialists.

Bollywood night

The third night of the fest 'Magnavista' will conclude with the performance of Dhvani Bhanushali of the Dilbar and Vaaste fame. Renowned stand-up comedian Shaswath Mhaheswari will also perform.

Check out workshops

Workshops pertaining to latest standards and topics such as Mercedes Engine Analysis, IoT with Google Assistant, Hexapod, Big Data & Data Analytics, Bridge Design, Web Development, Artificial Intelligence and Machine Learning, Social Media Marketing and SEO will be conducted.

Mark the dates

The three-day fest begins on December 31