



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR



**YOUNG
INNOVATORS'
PROGRAM**

ORGANISED BY:
BRANDING AND RELATIONS CELL



Editorial



“ From the innovations, we could see the predilection of the students towards science and technology. A visit to IIT Kharagpur served instrumental in amplifying the enthusiasm of the students towards scientific research. ”

Aman Verma
Industrial and Systems Engineering

Indian Institute of Technology,
Kharagpur



“ We were flabbergasted by the innovations, the students came up with. This clearly shows the zeal of the students towards building the India of our dreams. Indeed YIP is going to serve a great platform for young minds all set to change the world. ”

Piyush Nanda
Biotechnology

Indian Institute of Technology,
Kharagpur



Shashwata Mondal
Computer Science and Engineering

Indian Institute of Technology,
Kharagpur



Debasmitta Das
Textile Design

National Institute of Fashion Technology
Bhubaneswar



Toshant Kamle
Aerospace Engineering

Indian Institute of Technology,
Kharagpur



IIT Kharagpur Young Innovators' Program 2017

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A message from...

Partha Pratim Chakrabarti

Director

IIT Kharagpur

Email: director@iitkgp.ac.in

Youth is the harbinger of future creations and what better place it could be to foster and nurture the young talents of India than IIT Kharagpur, which we proudly call mother, of IIT system, a vibrant, grand institution known for its exemplary research by its faculty alumni and students. We may not be able to teach every young talent of India, but we can encourage their scientific creativity. We are glad, through the IITKgp Young Innovators' Program we are able to bring this opportunity to the senior students from schools all over India.

May you lead India far into the futuristic world!



A message from...

Siddhartha Mukhopadhyay

Dean,
Alumni Affairs and International Relations
IIT Kharagpur

Email: deanaa@hijli..itkgp.ernet.in

We have an ambition, to touch the lives of every Indian following the motto of the Institute, 'in service of the nation'. Our academics have offered the country some of the best minds with notable contributions. Our research activities have garnered national and international recognitions for cutting edge scientific research, public welfare and sustainable technology development. We aim to promote this culture among scientists and technocrats of tomorrow. We hope with this initiative we would inspire them to work for the welfare of India and progress of the human race. Let there be Light!



Baidurya Bhattacharya

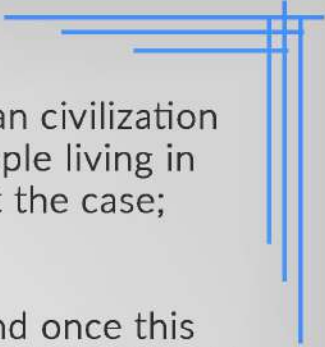
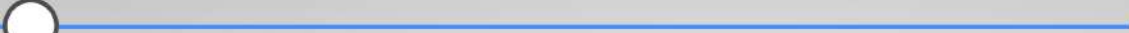
Associate Dean,

Alumni Affairs and International Relations,
IIT Kharagpur

email : adeanaa@adm.iitkgp.ernet.in

I felt really happy and delighted to see the first ever Young Innovators' Program coming into reality in our campus. Last year around November, when the Branding and Relations Cell pitched this idea to me, it seemed very novel that we will invite school children from all over the country and that we will inculcate in them the credo, the habit of innovation, to bring them to our campus and show them what we do and maybe encourage in them a desire to pursue a career in scientific research and engineering. We launched this in April, we wrote to about 10-00 schools from around the country and we had about 200+ applications and after 2 rounds of eliminations 24 schools were selected for the finals which were held in the IIT Kharagpur campus.

The word innovate basically means to alter something or to change something or to create



something that was not there. If you step back and think, the whole history of human civilization is basically one innovation after another. If they didn't happen we would still be people living in caves, or hunting and gathering and there would be nothing new ever. But that isn't the case; every generation of human civilization has done something new.

Innovation is all around us, in science, in arts, in medicine, in music, everywhere, and once this innovation happens, in a certain period of time we start taking them for granted. What the Wright brothers did in 1903, the first powered flight, changed human civilization in manners that was not imaginable. This is what innovation does.

If you would have asked someone from the 19th century that how he wanted to travel faster, he would have probably said that he wanted faster horses or if you would have asked him how he wanted to make nights brighter he would have wanted brighter candles. Cars, automobiles, were not the product of people trying to make horses faster, the electric bulb was not a product of the people trying to make candles brighter. Sometimes you need to think out of the box, for remarkable things to happen.

That is what we wanted to see in the projects, and that is what we wanted the students to take back from us. This institute has been a pioneer in innovation in this country. The main aim of this event was to teach the students something useful which they could take back with themselves, to remind them that wherever they go, be it science and technology or arts and humanities, taking on challenges is the most important part in life, to inculcate the 'Innovator's DNA' i.e. the desire to somehow make a difference.

There are no dreams too large, no innovation unimaginable and no frontiers beyond our reach. Everybody has a creative potential and from the moment you can express this creative potential, you can start challenging the world.



“

The Branding and relations cell (BARC) is a student body under the Office of Alumni Affairs and International Relations committed towards positioning and branding IIT Kharagpur as a global leader in the field of research, technology and higher education.

”



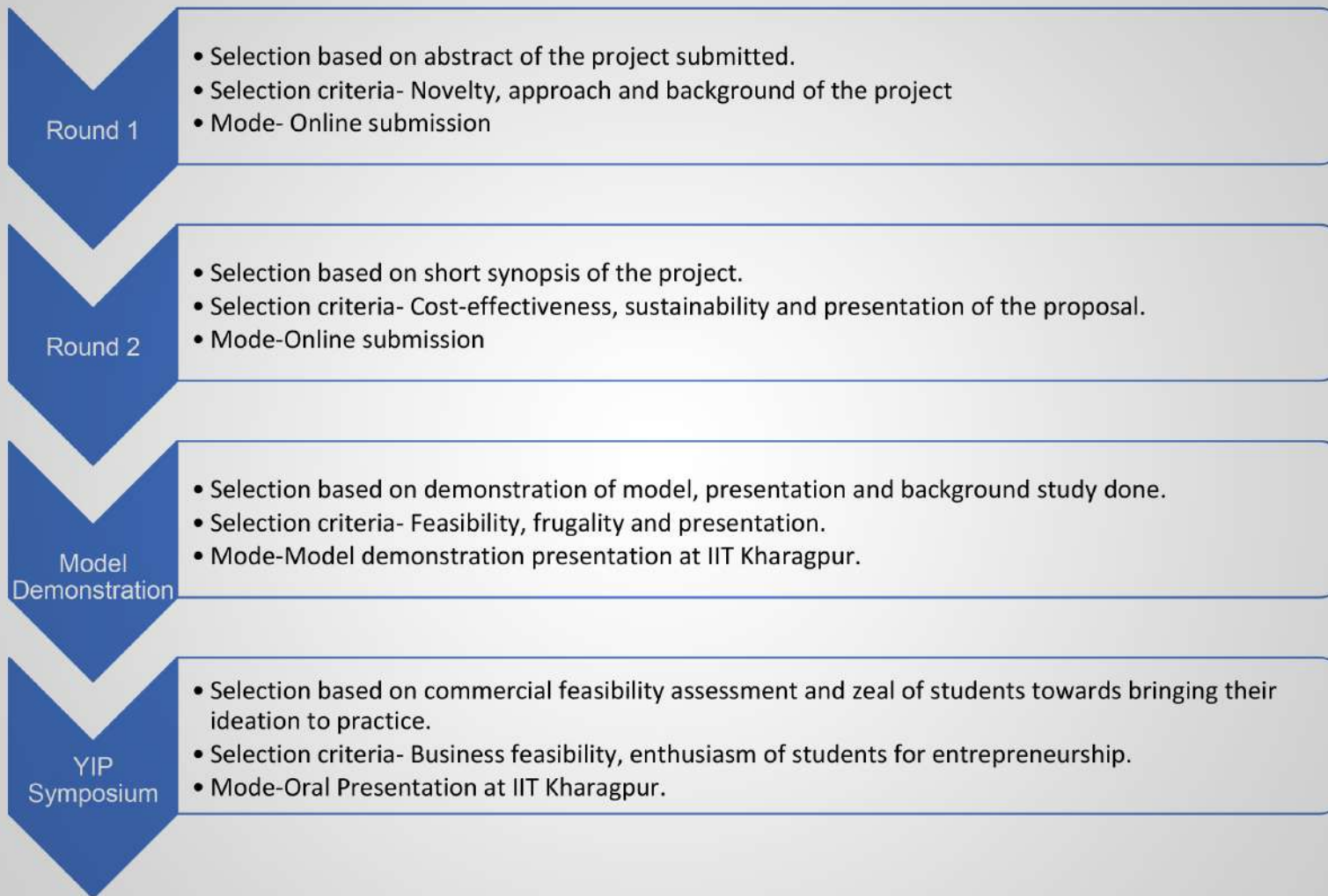
IIT Kharagpur
Young Innovators'
Program

About YIP

Young Innovators' Program (YIP) is an initiative by the Indian Institute of Technology Kharagpur to provide a platform for student innovators from 8th, 9th and 10th standards who are eager to make a difference through their ideas. YIP was conceptualized by the student body - Branding and Relations Cell after realizing that often very little encouragement is given to school students to furnish come up with their original ideas and solve problems faced by our country and the world at large. YIP would serve as a platform for the students to present their ideation at IIT Kharagpur and receive valuable inputs from the venerated professors.

Our country currently faces a myriad of problems that impede our progress. Problems like global warming, climate change and resource crisis have actually put up a great challenge in front of our generation. The first edition of YIP invited innovation in the diverse themes of Environment, Energy, Agriculture, Biotechnology and Hardware Modelling. The students of IIT Kharagpur made every effort to reach across the nation and to spread word about the Young Innovators' Program and were successful in getting more than a thousand students to participate. The top 24 teams were invited to IIT Kharagpur to give live demonstration of their project. They also got an opportunity to witness the state of art research facilities of the Institute.

Stages of the event

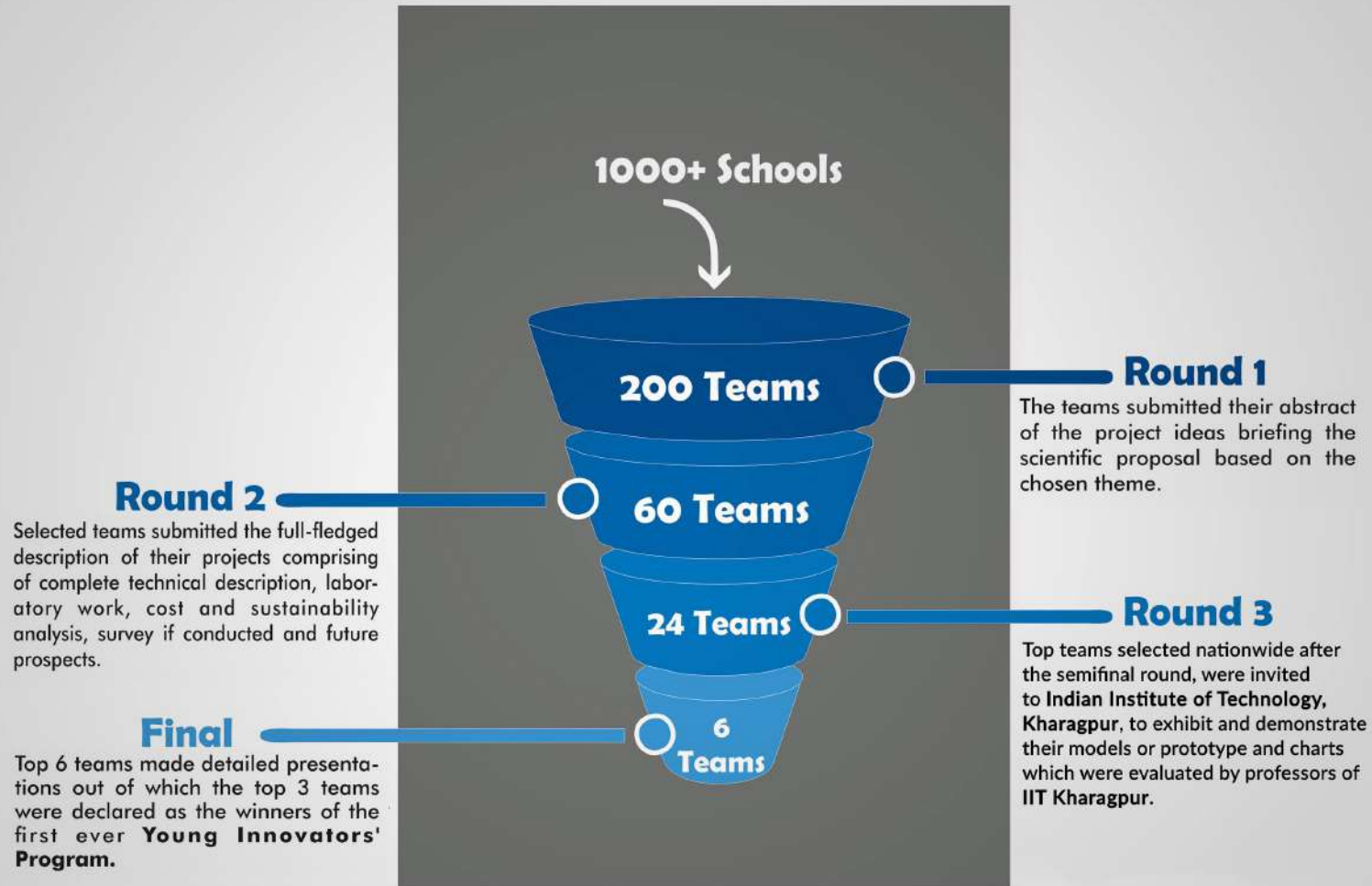


Participation from all over India



STATES	NO. OF TEAMS
Andhra Pradesh	13
Assam	3
Bihar	5
Gujarat	5
Jharkhand	23
Maharashtra	3
Madhya Pradesh	4
Odisha	10
Punjab	8
Rajasthan	23
Tamil Nadu	58
Telangana	29
Uttar Pradesh	5
West Bengal	20


Selection procedure





Laksmi School, Tamil Nadu

Winners of YIP 2017 on stage


A group of students and a man in a purple shirt are on a stage. The man in the purple shirt is holding a trophy, and the students are reaching out to touch it. They are all smiling. The students are wearing green blazers and red ties. There are certificates and bags in front of them. The background is a dark curtain.

Mother's Public School, Odisha
First runners up of YIP 2017
on stage

YOUNG INNOVATORS' PROGRAM 2017



The Crossword School, AP
Second runners up of YIP 2017
on stage



Registration desk at
Sir Ashutosh Mukherjee guest
house

Welcoming speech by General Secretaries during the inauguration ceremony



Lighting of the lamp by the YIP committee members and the General Secretaries



YOUNG INNOVATORS' PROGRAM 2017

Welcome speech by the Associate Dean of Alumni Affairs and International Relations, Professor Baidurya Bhattacharya



YOUNG INNOVATORS' PROGRAM 2017

Campus Tour





NEHRU MUSEUM OF SCIENCE AND TECHNOLOGY



YOUNG INNOVATORS' PROGRAM 2017



PRODUCT ANALYTICS AND MODELLING LAB



YOUNG INNOVATORS' PROGRAM 2017



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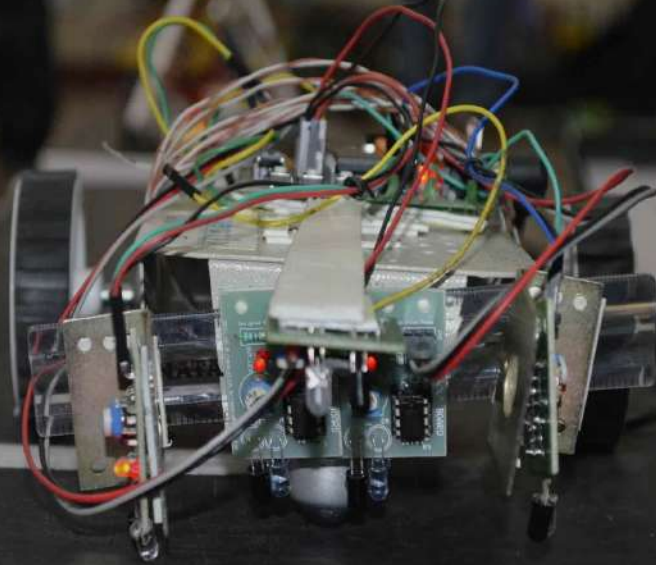


YOUNG INNOVATORS PROGRAM 2017

Why robotics?



ROBOTICS WORKSHOP



YOUNG INNOVATORS' PROGRAM 2017



Team members introducing themselves

“ The students hailing all the way from Chandigarh came up with a city design that could reduce pedestrian accidents, vehicular pollution and congestion using intelligent systems. This indeed reflects the enthusiasm of the students towards establishing e-co-friendly cities which will help us meet our carbon footprint reduction targets and also give us a leap into another stage of modernisation. ”



ST. JOHN'S HIGH SCHOOL
Chandigarh

“
Their idea based on principle of calorimetry claims to provide cool water during hot summer days. The student demonstrated their idea through a model which was highly appreciated by the judges.
”



SRI AUROBINDO INSTITUTE OF EDUCATION
— *West Bengal*

“ Focusing on security systems, the students came up with an idea to design a device that, when attached to an object, would notify the owner of the object whenever there is an attempt to steal or tamper with the object. This would ensure safety and also serve a great purpose particularly while travelling. ”



VIVEKANANDA MISSION SCHOOL
West Bengal

With a motive to eradicate CFC emissions thus reducing ozone depletion, the students came with an eco-friendly cooling system that can be used as an alternative to Air Conditioning Systems. This innovations reflects the enthusiasm of the students to involve themselves in achieving sustainable goals.



VIVEKANANDA MISSION SCHOOL
West Bengal

Intending to reduce road accidents, the team came up with a project that uses an alcohol detector which will detect if the driver is drunk or not and shut down the engine for the former. The system will also incorporate a camera which can detect the drowsiness of driver by image processing techniques and shut-down the engine accordingly.



MOTHER'S PUBLIC SCHOOL
Odisha

To reduce the vehicular carbon emissions, the students came up with a technology that enables an engine to be reciprocated using hydrogen gas as a fuel. The students were successful in building up a working model of their idea and could demonstrate the same. This if brought to markets could help us abate global pollution and also enhance fuel efficiency.



CARMEL JUNIOR HIGH SCHOOL
Jharkhand

“ The students came up with a robotic systems that can be controlled via bluetooth in cellular handsets. This could enable controlling robots to do basic tasks using our mobiles. The students used Arduino micro-controller to enable this. This can be useful in improvising up futurists robotic assistants. ”



CARMEL JUNIOR HIGH SCHOOL
— *Jharkhand* —

The students came with an innovative and low cost water filter that can be used to purify water in rural areas. The system can also be transported easily from source location. This innovative filter can serve a great purpose for the rural people for procuring purified water.



LAKSHMIPAT SINGHANIA ACADEMY
————— *West Bengal*

“ The students came with a flash-light using the Peltier effect such that the difference of more than 5 degrees celcius between the two sides of a Peltier tier produces the required electricity through the tiles to light the bulb.This idea could give us in designing low power devices that can or without using batter-ies. ”



DELHI PUBLIC SCHOOL
West Bengal

“
The project aims to preclude the disadvantages furnished by Genetically Modified Crops like GM Papaya. They discussed with the judges how their idea could help us take advantages from GM crops without having to suffer through diseases or abnormalities.
”



MODERN HIGH SCHOOL FOR GIRLS
West Bengal

“ The students coming all way from Andhra Pradesh came up with an idea to make improvisations to fruit or vegetable cart which will enable the shopkeeper to transit without harming the contents. Their idea could serve a great purpose to vendors who often suffer loss due to spoilage of food due to heat during summers. ”



THE CROSSWORD SCHOOL
Andhra Pradesh

“ The students designed a VIB-GYOR indicator screen for school common area in order to make school environment friendly and reduce the wastage of resources. This system used state of art internet of things to digitally keep an eye on the resource usage. This can help in making us aware of the resource wastage and hence establish an environmentally friendly community. ”



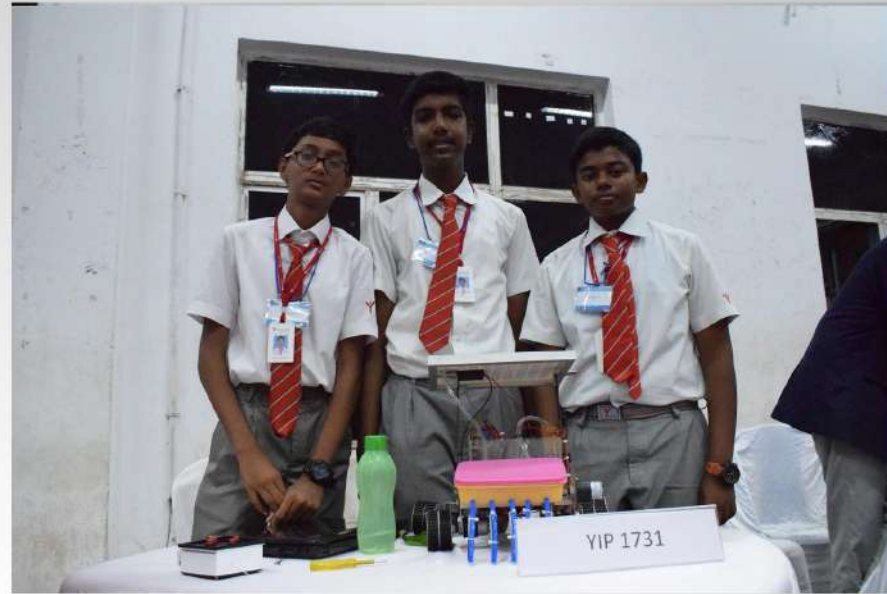
SANSKRITI THE GURUKUL
Assam

Hailing all the way from Tamil Nadu the innovators from Yuva-bharati Public School came up with robotic system that can help farmers manage water resources, reduce weed accumulation in farms and a lot more. Their innovation could convince us days are not far away when robots will take over farm lands and assist farmers in increasing crop productivity and reducing resource wastage.



YUVABHARATI PUBLIC SCHOOL
Tamil Nadu

“ The students came up with an idea to replace manual agricultural labor by providing automated labor making agricultural enhancements resulting in higher yield by reducing the chances of crop failure by giving farmers a planned and accurate schedule for timely watering and management of their crops. Indeed it has got a huge potential to revolutionise the agricultural industry. ”



YUVABHARATI PUBLIC SCHOOL
Tamil Nadu

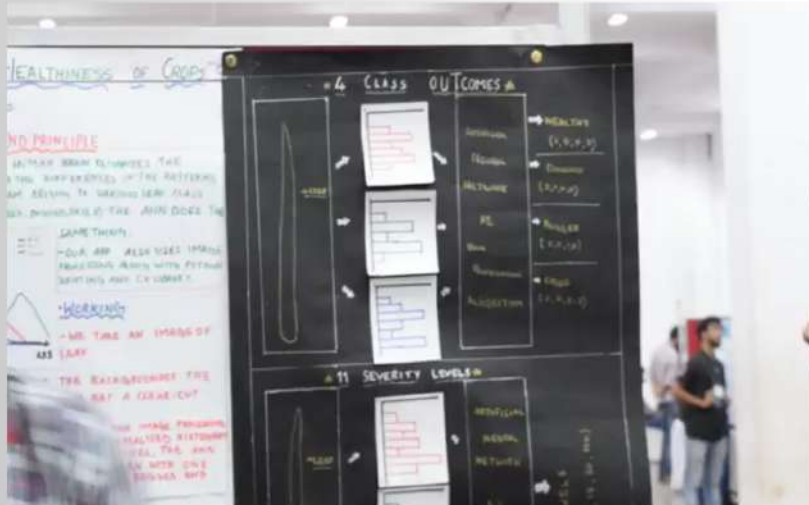
“ The project involves the purification of sewage water by using eucalyptus plant in order to absorb the sewage water, transpire it and condense it to obtain pure water which can be used for a number of household as well as industrial purposes. This idea can go ahead in abating water wastage into sewage and serve a means of extracting pure water. ”



DON BOSCO
Bihar

YOUNG INNOVATORS' PROGRAM 2017

“ The students developed a computer based application that recognizes the diseases attacking crops and plants automatically without human interference, to examine and report the disease type. This innovative application is likely to make the farmers aware of possible threats to the crops and thus help them take appropriate actions. This is quintessential for farmers as a huge amount of crops get destroyed each year due to diseases. ”



D.A.V. PUBLIC SCHOOL
Telangana

“ The students designed a system in which the user will be able to move his/her wheelchair with minimum movements i.e. by using his/her hand movements. There will be an infrared receiver on the wheelchair which will detect and decode the signals and move accordingly. This is especially important for physically challenged individuals who can now commute without external assistance. ”



ST. XAVIER'S SCHOOL
West Bengal

“ The students devised a hydroponic system that enables growing crops without a fertile land. The growth relies on nutrient rich water. This can enable growing crops in infertile lands which constitute a major portion of wasted land. This can give huge implications given the increasing food demands and inavailability of fertile land. ”



NAGARJUNA HIGH SCHOOL
Telangana

“
The students designed a system that can harvest electric energy using sunlight sound and lightning. This could enable electricity production by renewable means. This is crucial for achieving carbon footprints reduction goals.
”



CHINMAYA VIDYALAYA
Tamil Nadu

The students came up with a manual mechanical charger to change the phone charging scenario by the application of piezoelectric effect and spring mass oscillation system. This can help us in charging mobiles in emergency conditions and hence eliminating the need of electricity.



CHINMAYA VIDYALAYA
Tamil Nadu

“ The students developed a floating windmill filled with helium and incorporated with a wind generator that rotates around a horizontal axis and sends electricity down a tether that can be used immediately, stored in a battery or routed to the power grid. This can enabling obtaining electricity more efficiently using windmills. ”



CHINMAYA VIDYALAYA
Tamil Nadu

The students from Vadodara came up with an innovative land-rover that can help transit over difficult terrains. The rover uses artificial intelligence to recognise and adapt to barriers. This innovation has definitely got a huge potential to help armed forces commute over difficult terrain.



NAVRACHANA SCHOOL SAMA
Gujarat

The students developed smart shoes to help senior citizens suffering from Arthritis. These can provide relief from the disease and related joint pains. This uses smart electronics to enable its function.



DELHI PUBLIC SCHOOL
Andhra Pradesh

YOUNG INNOVATORS' PROGRAM 2017

“ This team came all the way from Chennai and won the first edition of IIT KGP YIP. Their project was to create a device that can detect oil spills in oceans and can successfully procure the crude oil. Oil spills have become an important issue not only because of the water pollution but also for the loss of valuable oil. The team's design can recollect the oil from the spill and hence decontaminating the area. ”



LAKSHMI SCHOOL
Tamil Nadu

JUDGES





Inauguration ceremony



Starting of Valedictory ceremony at Kalidas auditorium



Student member anchoring in YIP Symposium



Student member announcing names of winners

The Branding and Relations Cell Team



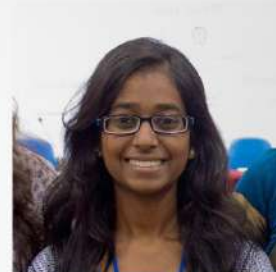
Debanjan Nayak
Overall coordinator



Souvik Bhowmik
Overall coordinator



Aman Verma
General Secretary



Simran Garg
General Secretary



Anubhav Raj
Senior Coordinator



Piyush Nanda
Senior Coordinator



Sumugan Swaroop
Senior Coordinator



Vaibhav Agrawal
Senior Coordinator



Swadha Gupta
Senior Coordinator



Shubham Kumar
Senior Coordinator

The Branding and Relations Cell Team



Aman Yadav
Student Member



Anuj Jalan
Student Member



Ashutosh Gupta
Student Member



Gargi Biswas
Student Member



Pratyush Mishra
Student Member



Rahul Nandi
Student Member



Rajorshi
Chattopadhyay
Student Member



Ritik Kumar Singh
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Sabyasachi Khan
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Shashank Mishra
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Shivam Singhal
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Siddhant Gautam
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Vaibhav Singh Tomar
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Vikash Sharma
Student Member



Yaswanth C. Mallina
Student Member

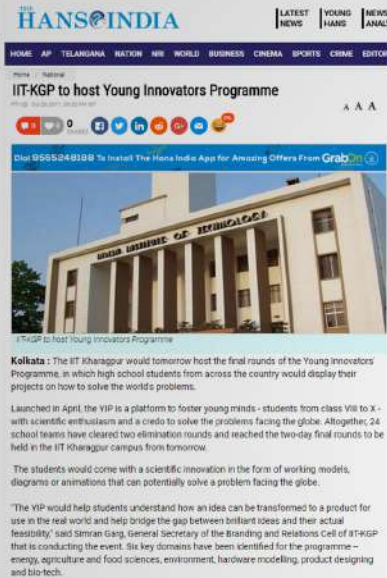


Prakhar Tripathi
Student Member



YOUNG INNOVATORS' PROGRAM 2017

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IIT-KGP to host Young Innovators Programme

By: [Sudhakar](#) | 20/06/2017, 08:23 AM IST

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Kolkata : The IIT Kharagpur would tomorrow host the final rounds of the Young Innovators Programme, in which high school students from across the country would display their projects on how to solve the world's problems.

Launched in April, the YIP is a platform to foster young minds - students from class VIII to XI - with scientific enthusiasms and a credo to solve the problems facing the globe. Altogether, 24 school teams have cleared two elimination rounds and reached the two-day final rounds to be held in the IIT Kharagpur campus from tomorrow.

The students would come with a scientific innovation in the form of working models, diagrams or animations that can potentially solve a problem facing the globe.

"The YIP would help students understand how an idea can be transformed to a product for use in the real world and help bridge the gap between brilliant ideas and their actual feasibility," said Simran Gang, General Secretary of the Branding and Relations Cell of IIT-KGP that is conducting the event. Six key domains have been identified for the programme - energy, agriculture and food sciences, environment, hardware modelling, product designing and bio-tech.

The Hans India



Monotone Critic
DISCOVER THE ART OF APPLICATIONS

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IIT Kharagpur to Host Young Innovators' Program

by [Sudhakar](#) | 20/06/2017

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IIT Kharagpur might this week host the last stage of the Young Innovators' Program, in which students from high schools from all over the country might show their projects on how to crack the problems of the world. Held out in April, the YIP is a platform to nurture teen minds, students from class 8 to 11, with a credo along with scientific enthusiasm to crack the issues faced by the world. All in all, 24 teams from schools have cleared 2 rounds of elimination and reached the 2-day final stage to be conducted in the campus of IIT Kharagpur from the week onwards.



The students might come with a technical innovation in the form of diagrams, working models or animations that can possibly solve an issue faced by the globe. "The YIP might assist students recognize how a thought can be converted to a product for utilization in the real world and assist cover the gap between actual feasibility and brilliant ideas," Simran Gang, General Secretary of IIT-KGP for the Branding and Relations Cell, Simran Gang, to the media in an interview here. There are 6 main domains that have been recognized for the program: namely, agriculture and food sciences, energy, hardware modeling, environment, bio-tech, and product designing.

The teams will make poster presentation and model of their thoughts along with a demonstration open to visitors and 7 faculty members of IITKGP will moderate the projects. "In the event we have made an attempt to give the participants a glimpse of pioneering research and motivate them to chase a career in technical research in opposition to the popular career choice," Gang, claimed.

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Monotone Critic



edex live

Published: 23rd June 2017

IIT Kharagpur Introduces the Youth Innovation Programme for 8th-10th standard students

The Young Innovation Program is being introduced by IIT Kharagpur to identify students with talent and interest in science and technology



IIT Kharagpur takes forward the zeal of innovation, research and national upliftment by organising the Young Innovation Program (YIP) to provide students of 8th to 10th standard a brand new platform to put forth their innovative ideas and develop interest in the field of research. This program will be a platform to identify students with talents and interest in science and technology, help them realize their true ability to think and work on problems.

YIP will be organized in 4 different stages or phases. A coordinating teacher from every school will be conducting the event through the a link which will be opened on 30 June, and will be coordinating with the Institute. The idea will be judged by a panel consisting of experts in their respective fields and renowned IIT faculty. About hundred submissions will be selected for the second stage and a synopsis of 8-10 pages will be required for submission in the second stage. 50 special teams will have the opportunity to visit the campus and the chosen winners will get full assistance to develop their ideas.

Edex Live
(Indian Express)

Media Releases



Carmel Junior students win accolade for 'E-cycle' at IIT Young Innovators' Program

EDUCATION | [JAMSHEDPUR](#) | October 21, 2017, by [Srushti Das](#) | [G.Compass](#) | [406](#)

Jamshedpur, Oct. 20: IIT Kharagpur hosted the final rounds of a PAN India Competition "Young Innovators' Program (YIP)" on technology solution for young innovators from high school across the country. Students from various schools displayed their projects on how to solve the world's problems.

The students came up with a scientific innovation in the form of working models, diagrams or animations that can potentially solve a problem facing the globe. The program comprised of three rounds. The final round was held at IIT Kharagpur, this year on 20th and 21st October.

Carmel Junior College students kept the Carmel Banner flying high and made Jamshedpur proud again with their scientific innovation.

The best teams comprising of three students each were the finalists.

One of the teams made an E-cycle which runs on water and does not run on any fossil fuels like petrol/diesel and steel. It does not cause any pollution.

The other team made a drink to remove the combustible and flammable gases at mines, industries and in homes. It can be also used by defence forces.

The exhibition was open to visitors and seven IIT-KGP faculty members who judged the projects.

The students of cycle team included - Aditya Goole (8th X), Anind Kanda (8th X) and Anind Sikha (8th X). The Drink team comprised of Anish Chakraborty (8th VII), Ayush Mukherjee (8th VII) and Rishi Purhey (8th VII).

They were felicitated by the Dean and Professors of IIT Kharagpur on 20th October 2017. Teacher Prabhu Prakash accompanied and mentored the students for these two projects.

Avenue Mail



Students Come Up With Innovative Ideas At YIP

Students came up with innovative ideas to solve some of the crucial problems faced by the society at the IIT Kharagpur's 'Young Innovators Programme' (YIP).

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Students Come Up With Innovative Ideas At YIP

Kharagpur: Students came up with innovative ideas to solve some of the crucial problems faced by the society at the IIT Kharagpur's 'Young Innovators Programme' (YIP). The winner of the event, Laxmi School from Chennai, proposed to create a device that will detect oil spills in oceans and to successfully collect the route of oil and deploy it for various purposes, an IITKGP press release said today.

Such a device would also help protect the marine ecosystems from the harmful consequences caused due to oil spills and increase the efficiency of detecting oil spills. "YIP" was conceptualised on the lines of proposing solutions for global warming, climate change and resource crisis and other challenges which have been constantly bothering the progress of a country like India," the release quoted Piyush Hazra, from the organising student body of Branding and Relations Cell.

"The challenge was thrown open to students from Class 8, 9 and 10 to showcase the creative ability in attempting such solutions and showcase their potential as the future innovators of India," Hazra, who is 3rd year student of IITKGP, said. Professor Balaraju Bhattacharyya, Associate Dean of Alumni Affairs and International Relations, said YIP invited innovations in the diversified themes of environmental, energy, agriculture, biotechnology and hardware modeling.

Taking on importance of innovation in the advancement of education, he cited examples of innovations to students at ground in - AI mathematics, music, internet, transportation, computing, knowledge economy.

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Ideas for tomorrow

- School students innovate at IIT meet

Chandragiri Mitra



Students of Lakshminagar Singhania Academy with their model. (Anand Hazra)

round.

"This is the first time we reached out to school students to instil in them a sense of innovation," said Bhaskara Bhattacharyya, associate dean, alumni affairs and international relations at IIT.

Students of Delhi Public School, Vashishtpatnam, came up with smart shoes equipped with a heart-rate sensor and a Bluetooth transmitter that would send a signal to the user's family member if he or she fell down. The shoes are aimed at arthritis patients or those with aches in their legs or feet.

St. Xavier's School, Haldia, came up with a model that uses two motors and sensors to help wheelchair users navigate freely.

Among the city schools, Vivekananda Mission School, Jhika, showcased an eco-friendly air cooler that consumes less energy than an air conditioner and emits no greenhouse gases. "I got the idea from an aquarium water pump," said Debdipta Saha, Class 10.

Students of Lakshminagar Singhania Academy sought to tackle water crises with a device to pump out water and purify it to make it suitable for drinking.

Lakshmi School, Madurai, won the competition for its device that can detect an oil slick and suck it out of the sea.

The Telegraph

Media Releases

THE HINDU

Guntur students win prizes at IIT Kharagpur



STAFF REPORTER
GUNTUR, ANDHRA PRADESH, OCT 28 (ANI)
GUNTUR, ANDHRA PRADESH, OCT 28 (ANI)

Wooden 'bat' takes energy at second runner-up in Young Innovators' Program*

A cool test to preserve the freshness of fruits, designed by students of The Christ School here, has won the laurels at the Young Innovators' Program (YIP) held at IIT Kharagpur on October 28 and October 29. The innovation, 'Wood Bat' made the students emerge as the second runner-up from among 24 entries from across the country.

The class VIII students, Vijayaditya Reddy, M. Siddharth, G. Vidya 7th, guided by the Principal Puga Prabha, designed the 'Wood Bat' as a device to preserve the fruits sold by vendors on the streets.

"The students have designed the cool test making use of Peltier's Thermoelectric Cooler (TEC), Peltier Plate or more popularly known as TEC fan two sides. It creates a temperature gradient on both sides of the plate when a potential difference is supplied to 'them'," said M. Chaitan Kumar Reddy, Director of the school.

The students have used a 9V solar panel powering the Peltier module. When these have been used to cool the water, the students have attached a heat sink and a fan to dissipate the heat and maintain a steady temperature. A 12V rechargeable battery is attached to the solar panel to allow for continuous power supply.

With cold air circulation, the students managed to achieve about 20-25 degree Celsius in the controlled area, which is quite suitable for the preservation of one produce.

THE HINDU

Blazing a trail



A. Srikumar
GUNTUR, ANDHRA PRADESH, OCT 28 (ANI)
GUNTUR, ANDHRA PRADESH, OCT 28 (ANI)

Three students from Lakshmi School, Madurai, have bagged the first prize in the Young Innovators' Program, a national-level competition held by IIT Kharagpur this weekend.

Aditya Varma, Shriya and Aravind, Guntur, are the winners. The 10th grade student of Lakshmi School here won the Young Innovators' Program, a national-level contest conducted by IIT Kharagpur. The main prize-winning model was a handily water-operated machine with a tank and sensor to tackle oil spills in seas.

"We chose to do a project concerning the environment and aimed to use the water oil spill at the Bazaar in Chennai," says Ganesh. "We built the sensor and device to monitor oil in the shallow waters along the coast. In the Chennai coastline, people are used to fish buckets and have boats. That can be hazardous and hence our thought of an automated oil collecting machine as a solution. The model consists of a suspended tank with a capacity of 1.5 litres and fitted with two wheels for locomotion, an infrared sensor and motor circuit to enable it to float on water upon two vertical poles. Once the sensor detects oil, the motor gets switched on and the tank fills up with a mixture of oil and water. Once the tank reaches its full

GADGETS NOW

IIT-KGP to host Young Innovators' Programme

By: Dr. R. S. SURESH

GOVERNMENT The IIT Kharagpur would receive laurels for the first month of the Young Innovators' Programme, in which high school students from across the country would display their projects on how to solve the world's problems.

LAURELS In April, the IIT will perform its Young Innovators' award - students from about 100 schools will submit their solutions and a panel will solve the problems during the night.

ALGORITHM 24 school teams from across the country will compete and submit the projects. The students would come with a complete innovation in the form of working models, diagrams or illustrations. But one prominently solve a problem facing the globe.

THE IIT would help students understand how their projects can be translated as solutions for use in the real world and help bridge the gap between school days and their actual work-life, said Anand Singh, Deputy Director of the Planning and Extension Cell at IIT-KGP during the event.

KEY AREAS have been identified for the programme - energy, agriculture and food resources, environment, business, marketing, creative, designing and health.

THE event will make world and prior presentations of their ideas along with an exhibition open to visitors and more IIT-KGP faculty members will judge the projects.

THOUGH the event is free of cost for the participants, an idea of how to do research and encourage them to pursue a career in scientific research against the popular career trends, "Sing said.

THE programme would give the participants an idea of how to do research and encourage them to pursue a career in scientific research against the popular career trends, "Sing said.

THE students would also get a chance to explore the advanced environment through IIT Kharagpur and attend a workshop on robotics.

THE programme will consist of the participating students in an exhibition of their projects. It is aimed to identify the talent in a budding age and nurture them as the future of India's scientific community," said Prof. Bhabha Bhabha, Deputy Director, Academic Affairs of Government Institute and Techno Park for the event.

The Hindu

Gadgets Now



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I do not think there is any thrill that can go through the human heart like that felt by the inventor as he sees some creation of the brain unfolding to success.

- Nikola Tesla

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