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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



Debasmita 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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Alumni Affairs & International Relations

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A message from...



Partha Pratim Chakrabarti

Director

IIT Kharagpur

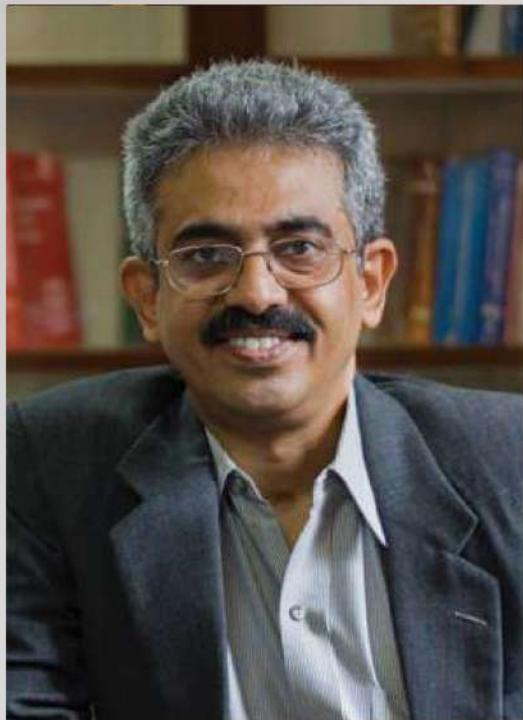
Email: director@iitkgp.ac.in

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.



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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.

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YOUNG INNOVATORS' PROGRAM 2017



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

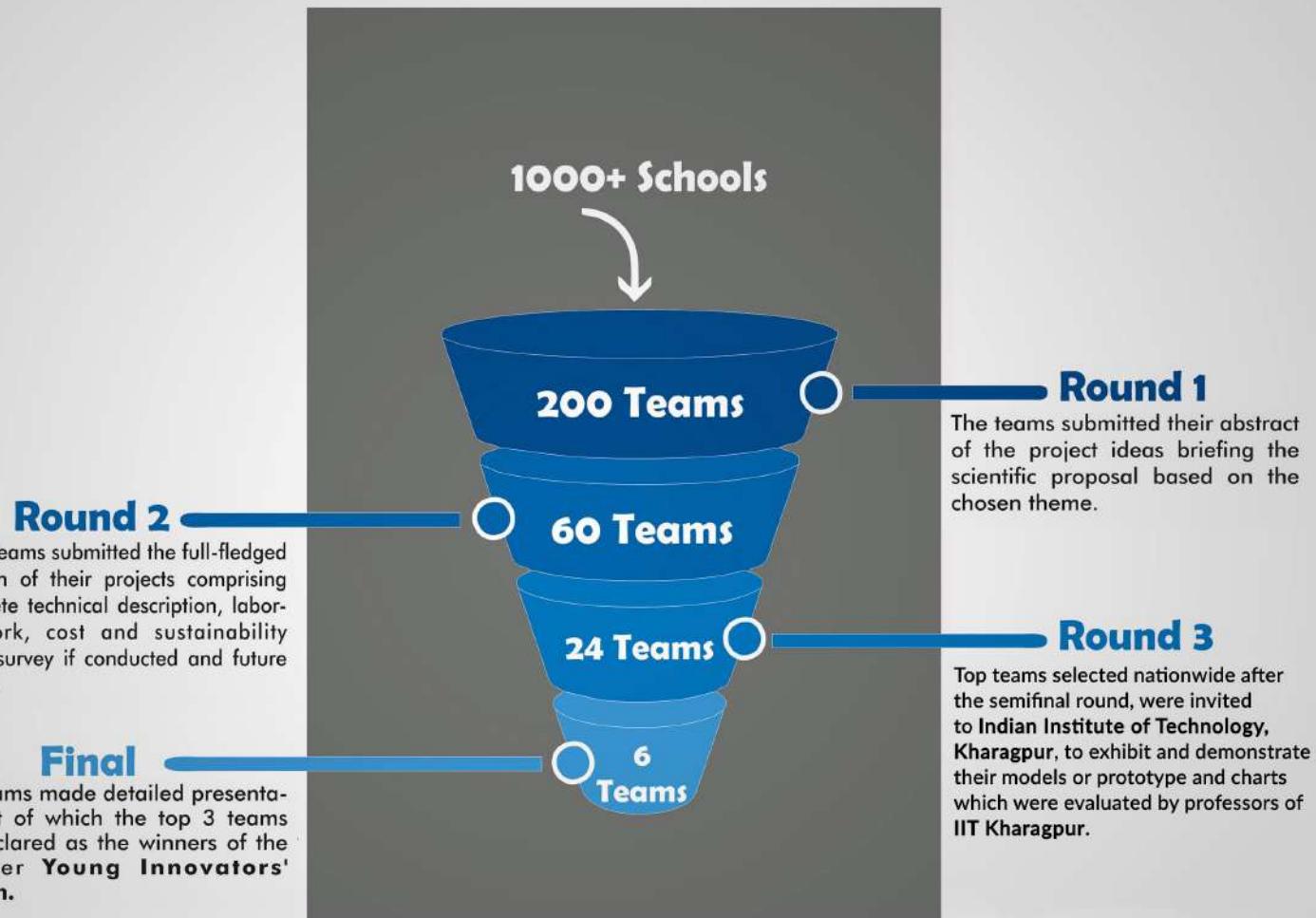


Participation from all over India



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

YOUNG INNOVATORS' PROGRAM 2017



Mother's Public School, Odisha

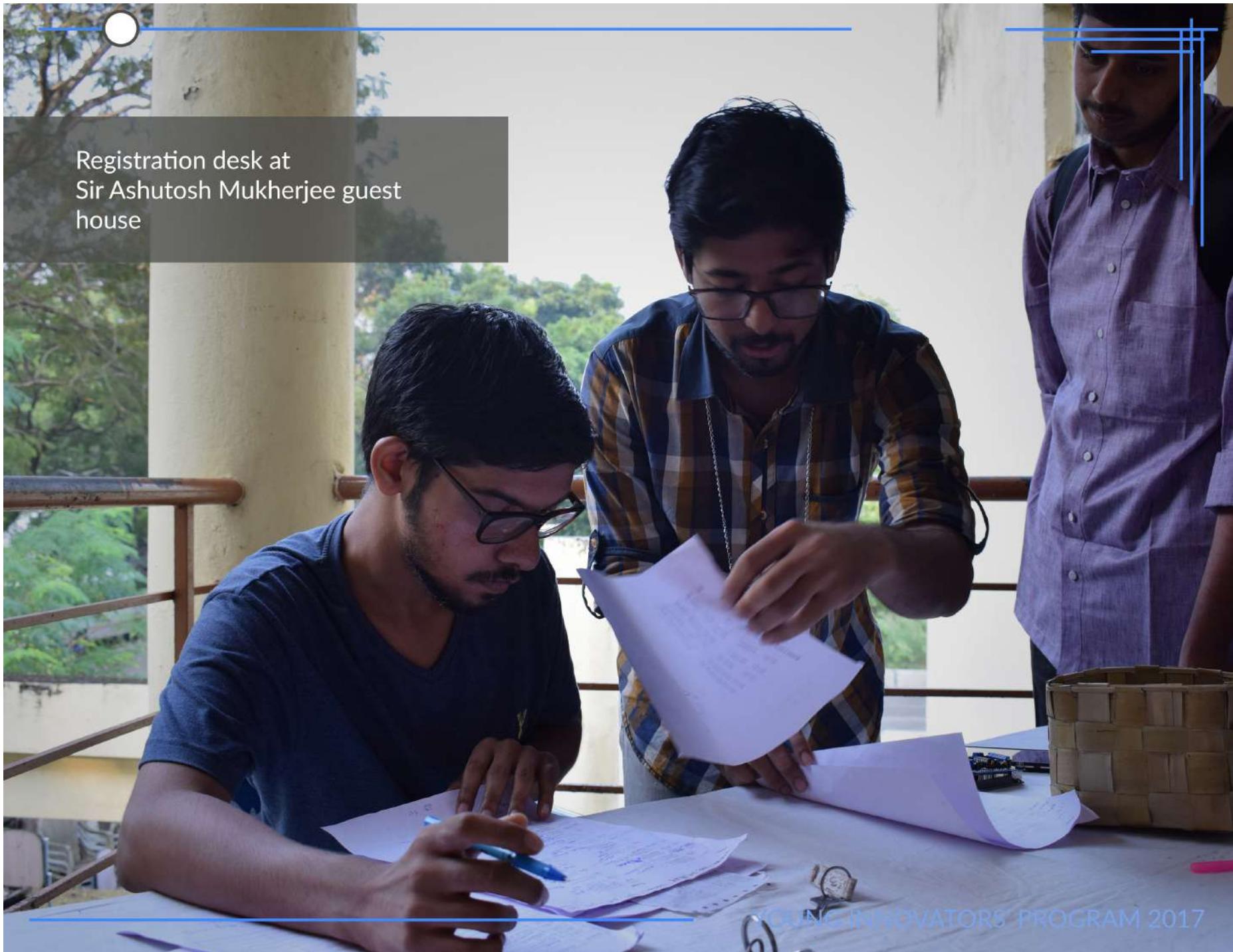
First runners up of YIP 2017
on stage

YOUNG INNOVATORS' PROGRAM 2017



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

YOUNG INNOVATORS' PROGRAM 2017



Registration desk at
Sir Ashutosh Mukherjee guest
house

YOUNG INNOVATORS' PROGRAM 2017

Indian Institute of Technology Kharagpur

Welcoming speech by General
Secretaries during the inaugura-
tion ceremony



YOUNG INNOVATORS' PROGRAM 2017



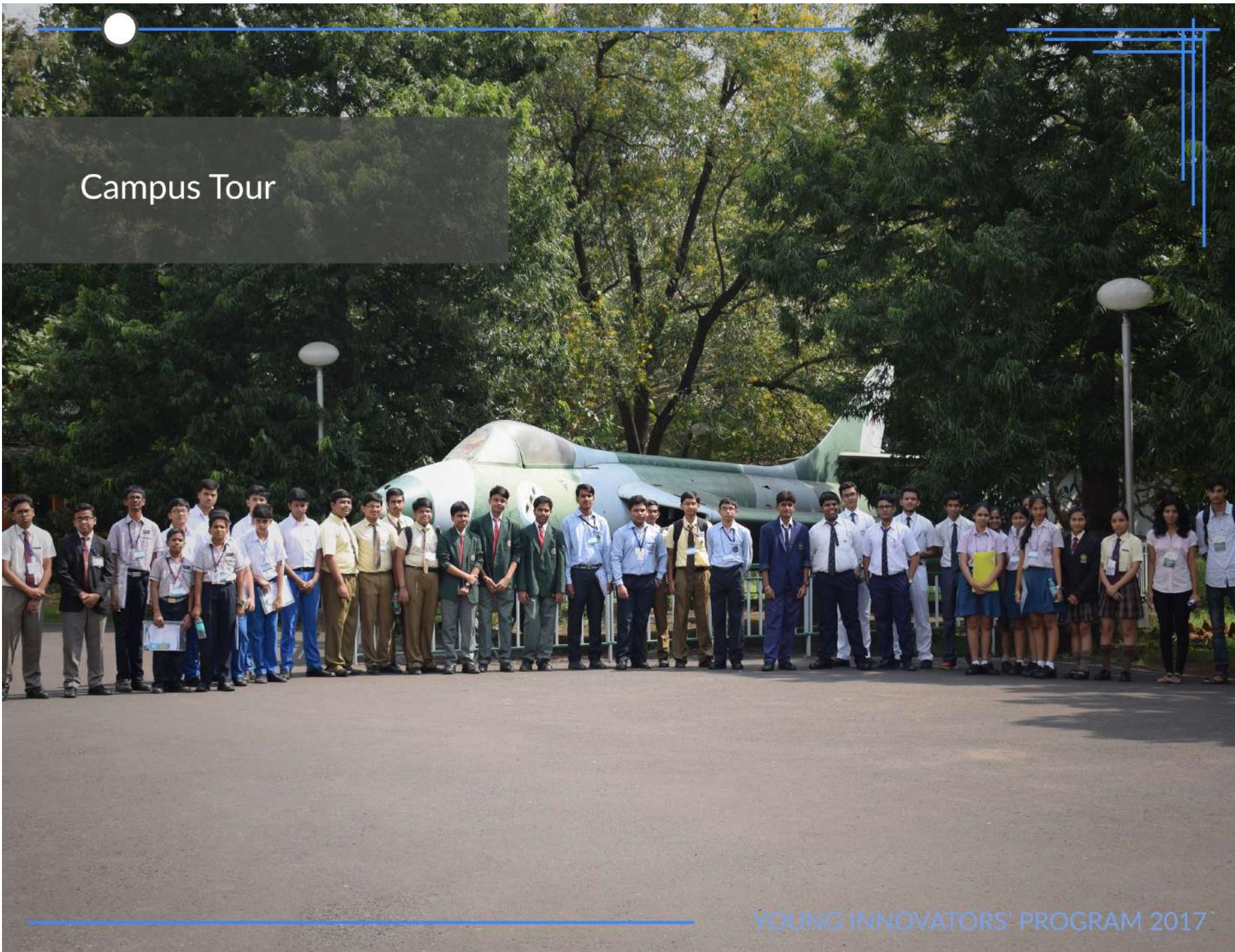
Lighting of the lamp by the YIP committee members and the General Secretaries

YOUNG INNOVATORS' PROGRAM 2017

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



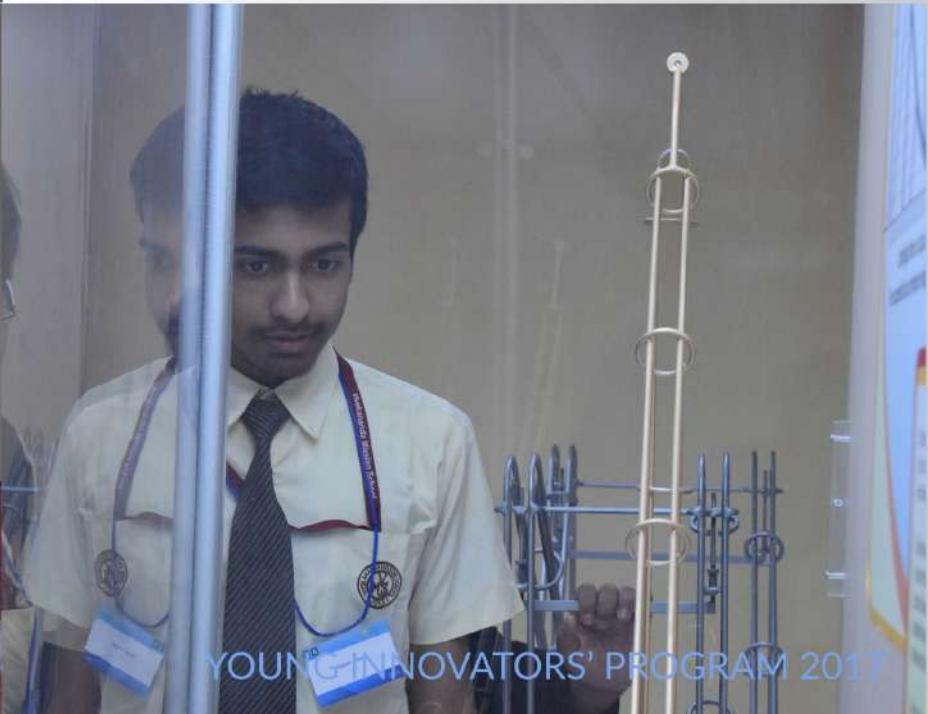
Campus Tour



YOUNG INNOVATORS' PROGRAM 2017



NEHRU MUSEUM OF SCIENCE AND TECHNOLOGY



YOUNG INNOVATORS' PROGRAM 2017



PRODUCT ANALYTICS AND MODELLING LAB

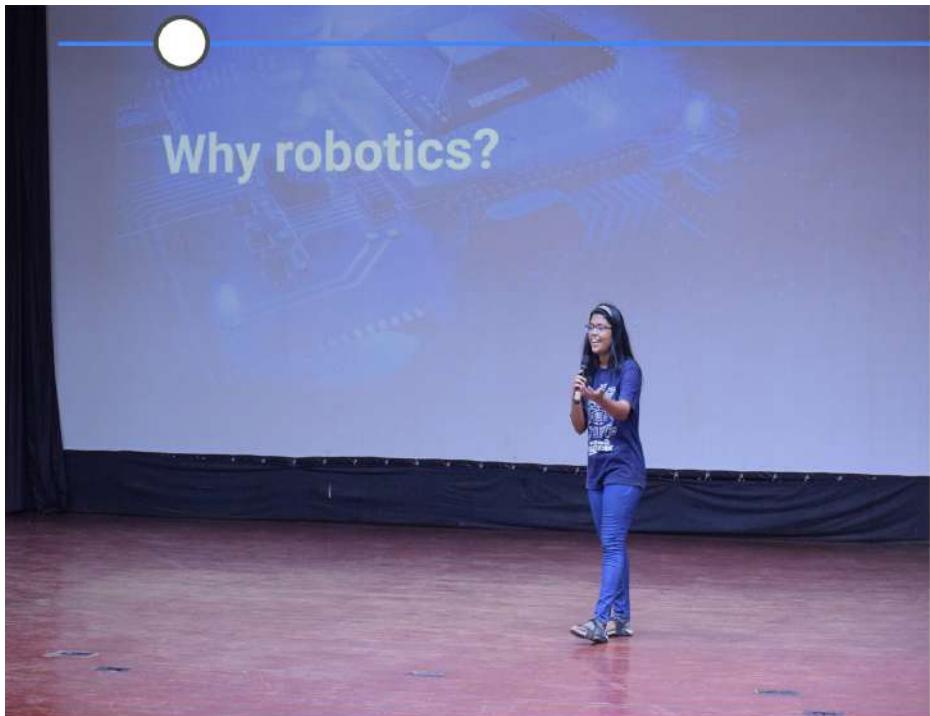




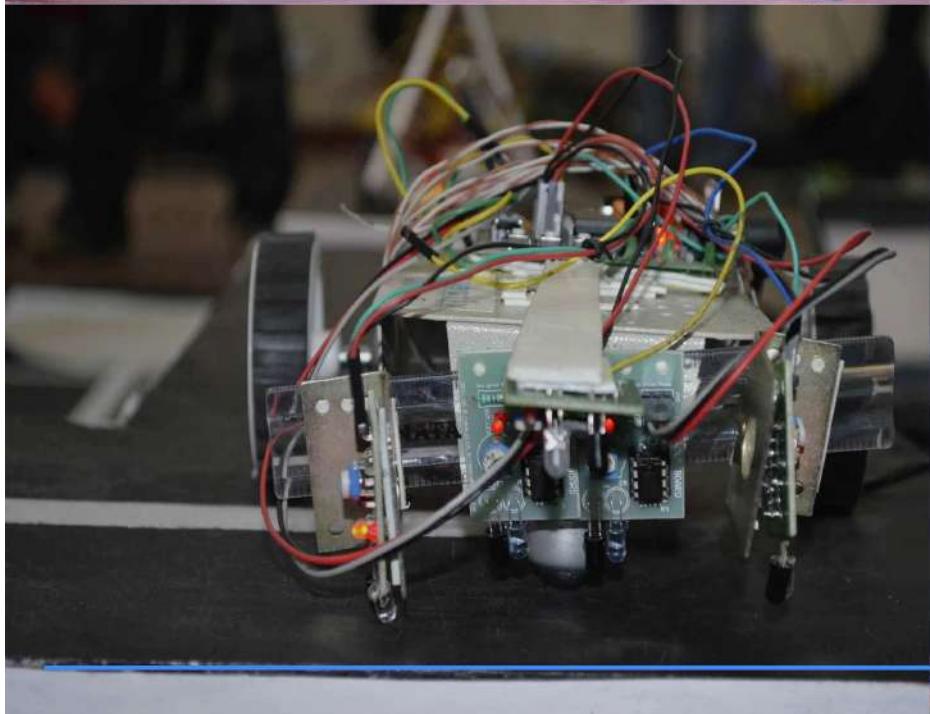
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YOUNG INNOVATORS' PROGRAM 2017



ROBOTICS WORKSHOP



YOUNG INNOVATORS' PROGRAM 2017



“ 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 eco-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*

YOUNG INNOVATORS' PROGRAM 2017

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*

YOUNG INNOVATORS' PROGRAM 2017

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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.

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VIVEKANANDA MISSION SCHOOL
— *West Bengal*

YOUNG INNOVATORS' PROGRAM 2017

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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 innovation reflects the enthusiasm of the students to involve themselves in achieving sustainable goals.

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VIVEKANANDA MISSION SCHOOL
— *West Bengal*

YOUNG INNOVATORS' PROGRAM 2017

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 shutdown the engine accordingly.



MOTHER'S PUBLIC SCHOOL
Odisha

YOUNG INNOVATORS' PROGRAM 2017

To reduce the vehicular carbon emissions, the students came up with a technology that enables an engine to be reciprocated using hydrogen gas as an 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

YOUNG INNOVATORS' PROGRAM 2017

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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 microcontroller to enable this. This can be useful in improvising up futurists robotic assistants.

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CARMEL JUNIOR HIGH SCHOOL
— *Jharkhand*

YOUNG INNOVATORS' PROGRAM 2017

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

YOUNG INNOVATORS' PROGRAM 2017

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The students came with a flashlight 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 batteries.

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DELHI PUBLIC SCHOOL
— West Bengal

YOUNG INNOVATORS' PROGRAM 2017

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*

YOUNG INNOVATORS' PROGRAM 2017

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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*

YOUNG INNOVATORS' PROGRAM 2017

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

YOUNG INNOVATORS' PROGRAM 2017

“ 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

YOUNG INNOVATORS' PROGRAM 2017

“ 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

YOUNG INNOVATORS' PROGRAM 2017

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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.

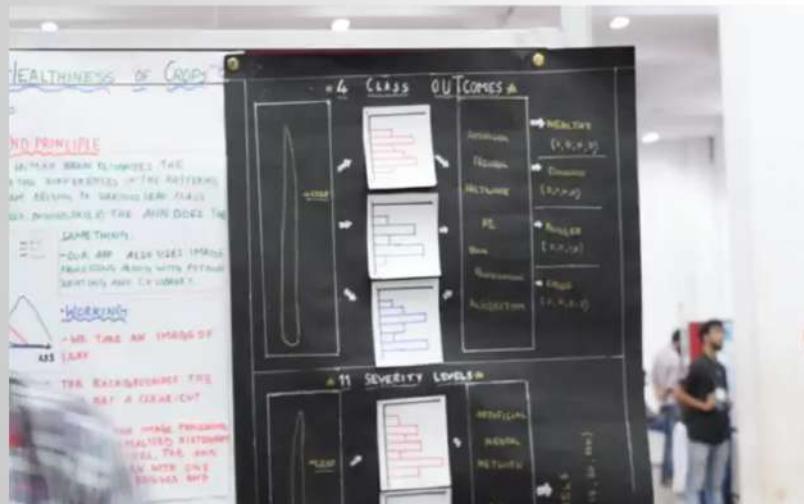
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DON BOSCO
Bihar

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

YOUNG INNOVATORS' PROGRAM 2017

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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.

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ST. XAVIER'S SCHOOL
— *West Bengal*

YOUNG INNOVATORS' PROGRAM 2017

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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 availability of fertile land.

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NAGARJUNA HIGH SCHOOL
—
Telangana

YOUNG INNOVATORS' PROGRAM 2017

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

YOUNG INNOVATORS' PROGRAM 2017

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

YOUNG INNOVATORS' PROGRAM 2017

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

YOUNG INNOVATORS' PROGRAM 2017

The students from Vadodara came up with an innovative landrover 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

YOUNG INNOVATORS' PROGRAM 2017

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

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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.

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LAKSHMI SCHOOL
— *Tamil Nadu*

YOUNG INNOVATORS' PROGRAM 2017

JUDGES





The Branding and Relations Cell Team



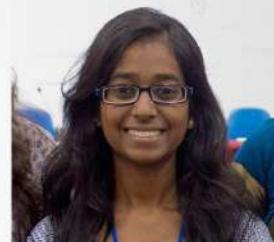
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Overall coordinator



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



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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
Student Member



Sabyasachi Khan
Student Member



Shashank Mishra
Student Member



Shivam Singhal
Student Member



Siddhant Gautam
Student Member



Sounak Saha
Student Member



Subhrajeept Panda
Student Member



Vaibhav Singh Tomar
Student Member



Vikash Sharma
Student Member



Yaswanth C. Mallina
Student Member



Prakhar Tripathi
Student Member

YOUNG INNOVATORS' PROGRAM 2017



YOUNG INNOVATORS' PROGRAM 2017

Media Releases

THE HANS INDIA

HOME AP TELANGANA NATION NIE WORLD BUSINESS CINEMA SPORTS CRIME EDITOR

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IIT-KGP to host Young Innovators Programme

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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 VIP is a platform to foster young minds - students from class VIII to X - with scientific enthusiasm 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 VIP would help students understand how an idea can be transformed into 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 IITKGP 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

IIT Kharagpur to Host Young Innovators' Program



The candidates might come with a technical innovation in the form of diagrams, working models, or animation that can possibly solve an issue faced by the globe. "The VIP 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 theoretical ideas," claimed Devesh Singh, Head of the Organizing Committee. "We will have a panel of judges who will judge media in an innovative way. 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 process. "At the event we have made an attempt to give the participants a thought of innovating feasible and interesting them to think a better or technical solution in opposition to the popular science artis," Greg claimed.

Monotone Critic

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



IIT Kharagpur takes forward the seed of innovation, creativity and research upliftment by organizing the 'Young Innovators' Programme (VIP) to provide students of 8th to 10th standard a new platform to put forth their innovative ideas and develop interests 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.

VIP will be organized in 4 different stages or phases. A coordinating teacher from every school will be registering the teams through the e-link which will be opened on 20 June. ... will be communicating with the students. The teams will be judged by a panel of experts from the institution. The required skills and research lab facility. Above mentioned students will be selected for the second stage and a synopsis of 5-6 pages will be required for submission in the second stage. 30 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)

YOUNG INNOVATORS' PROGRAM 2017

Media Releases



Carmel Junior students win accolade for 'E-cycle' at IIT Young Innovators' Program
October 31, 2017, by [Sonal Chauhan](#) • 0 Comments • 406

Jamshedpur, Oct. 30: IIT Kharagpur hosted the final round of a PRIME India Competition "Young Innovators' Program (YIP)" on technological innovation 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 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 28th and 29th October.

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

The two teams comprising of three students each were the brilliant.

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

The other team made a device to sense the combustible and flammable gases at mines, industries and at home. 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 Gedde (Std X), Anind Kardha (Std X) and Aditi Srivastava (Std X).
The cycle team comprised of Avinash Chakraborty (Std VIII), Ayush Mukherjee (Std VIII) and Ritika Purkay (Std VIII).

They were felicitated by the Dean and Professors of IIT Kharagpur on 29th October 2017. Teacher Pratibha Prakash accompanied and mentored the students for these two projects.

Avenue Mail

NDTV

The Telegraph

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).

[Kharagpur IT News, Times of India](#) | Updated: October 31, 2017 14:00 IST
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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 Sahoo from Chennai, proposed to clean the environment by using solar energy and to subsequently collect the plastic and deploy it for various purposes, an ETNOW press release said today.

Such a device would also help protect the marine ecosystem from the harmful consequences caused due to oil spills and increase the efficiency of detecting oil spills."YIP" was conceptualized on the lines of proposing solutions for global warming and climate change. The competition was organized by the Indian Institute of Technology (IIT) Kharagpur and a group of students.

"The challenge was thrown open to students from Classes 8, 9 and 10 to assess the creative ability in attempting such solutions and discover their potential as the future inventors of India," Naveen, who is a 3rd year student of IITGP, said. Professors and faculty members of IITGP and IIT Kharagpur were present during the competition. The theme of the competition was innovation in the diversified themes of environment, energy, agriculture, biotechnology and hardware modeling.

Taking on importance of innovation in the advancement of civilization, he cited examples of innovation to students all around us - in mathematics, music, art, energy, transportation, computing, knowledge economy.

[Home](#) > [Calcutta](#) > [News for tomorrow](#)

Ideas for tomorrow

- School students innovate at IIT meet

Chanchal Mitra



[Students of Lakshmi Sahgal Academy with their model, which helped them win the first round.](#)

"This is the 8th time we reached out to school students to instill in them a sense of innovation," said Bidyut Baruah Bhattacharya, associate dean, alumni affairs and institutional relations at IIT.

Students of Didi Public School, Visakhapatnam, came up with smart shoes equipped with a heart rate sensor and a Bluetooth transceiver that would send a signal to the user's family members if the user falls down. The shoes are aimed at athletes patients or those with aches in their legs for long time.

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, Joka, showcased an eco-friendly air cooler that uses less energy than an air conditioner and emits no greenhouse gases. "The idea that the students have come up with is very nice," said Debdutta Basu, CEO.

Students of Lakshmi Sahgal Academy sought to tackle water crisis with a device to pump out water and purify it to make it suitable for drinking.

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

YOUNG INNOVATORS' PROGRAM 2017

Media Releases

THE HINDU



Guntur students win prizes at IIT Kharagpur

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ASSISTANT EDITOR

ART DIRECTOR

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SET DRESSING

SET DECORATION

SET LIGHTING

SET PROPS

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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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