



Aakruti-2016

Organizing team

August, 2016

AAKRUTI2016 Shaping Imaginations

Aakruti – Nation Wide Design Contest for Engineering Students

Single point agenda –
"To encourage students
to showcase their
design skills &
creativity".

** Such events & competitions help in bringing out the innate talent in students **

- Aakruti was launched by 3DPLM in 2010 to reach out to the Engineering Colleges and Universities in India & the response has increased each year
 - It has become a Brand in itself and every year students / professors look forward to Aakruti Competition.
 - From year 2015, SOLIDWORKS India is the official sponsor of this event.







2015

Aakruti over the years

Year	Theme
2011	 Design for Innovation Design for Environment Design for Architecture
2012	 Futuristic Vehicles Modern Architecture Innovative Furniture Engineering Machines and Mechanism
2013	 Self Sustaining Village Smart Public Transport for the future Eco Friendly Smart Appliances Smart Next Gen Toys Futuristic Energy Efficient Equipment Ultimate Bond Car
2014	 1. 12 Industry Verticals 2. Participant's current curricular Project Work

1. Smart Products for Smart Cities

2. Smart Products for Smart Villages



Years	Colleges	Students	Models
2011	108	276	115
2012	115	260	185
2013	120	283	155
2014	42+5*	125	81
2015	117	~1400	~150

* CAD-CAM Training Institutes



Click here to see Glimpse of Aakruti 2015



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Theme of the event

- Design SMART PRODUCTS for:
 - 1. Conservation and Smart Usage of Natural Resources
 - 2. Divyaang (Specially abled people) and Senior citizens
 - 3. Futuristic Agriculture

• Scope:

- All the engineering colleges across India (All streams)
- Design colleges & institutes

Team Size

- Team to consist of two members (Preferably from two different branches)
- Teams will be provided with **limited time SOLIDWORKS license** to participate in this contest.



AAKRUTI2016

Shaping Imaginations



Key Dates

- Registration close31st August
- Final date of submission18th September
- Publishing list of Top ten shortlisted teams26th September
- Final event3rd October

Prizes

- Total Prize money worth INR 2 Lakhs.
- Top two teams (4 members) will have
 employment opportunity at 3DPLM **
 - Students should be in the final year
 - Students will have to clear appropriate written test & interview at 3DPLM
- A Trophy for College with 'Most Qualified Entries'



Participants responsibilities

Timely Registration

- Participants to register with a synopsis of their idea about what they plan to create
- Teams need to submit below mentioned 4 items on or before September 18, 2016.
 - Presentation providing details of design/concept/mechanism behind the design
 - Details of the Design Calculations/Hand Calculations (if any)
 - SOLIDWORKS CAD Model and drawing of the Innovative Design
 - Simulation files/Rendering file

Final Day

- Prepare presentation for Final round
- Top selected teams will be invited to 3DPLM R&D Centre in Pune to participate for final round



... So Go ahead and have the Registrations Done

http://www.3dplmsoftware.com/aakruti/

For any query please mail to:

contests@3dplmsoftware.com





We would like to urge all professors to motivate their students to register and participate in contest

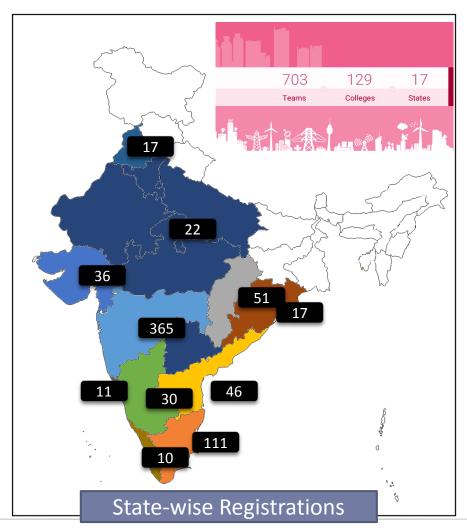
For more details visit: www.3dplmsoftware.com/aakruti





END OF PRESENTATION

Aakruti 2015 - Participation





Prizes given the winners for Aakruti- 2015

Winners



iPad Air



iPhone 5C

Second Runners-Up



Galaxy Tab4

Winners – **Professors** category



IPad Mini

Goodies for all Finalists



Certificate



Doodle Pad



Certified SolidWorks Associate Exam Voucher



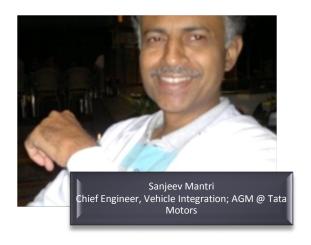
SOLIDWORKS 1 year student license



Esteemed Jury Panel for Aakruti - 2015







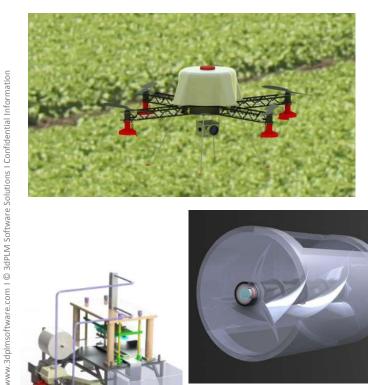


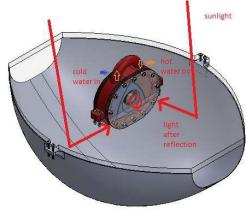


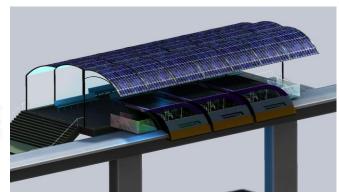




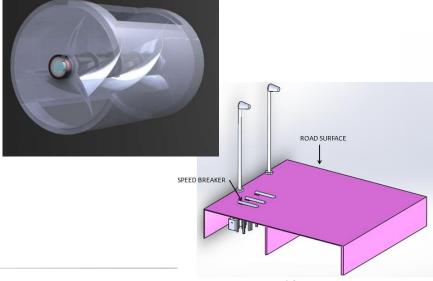
Aakruti – 2015 Models

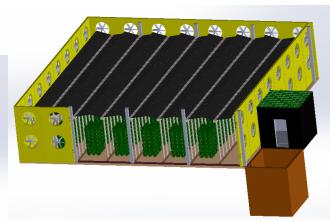










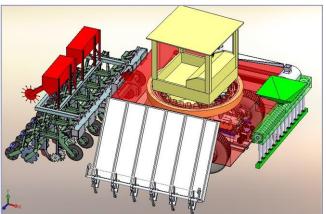




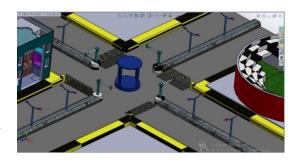
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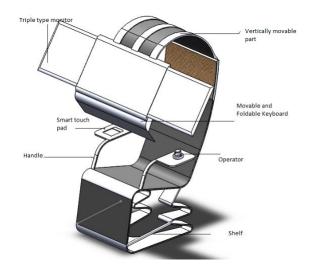
Aakruti – 2015 Models

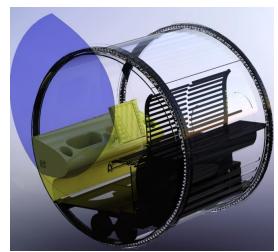










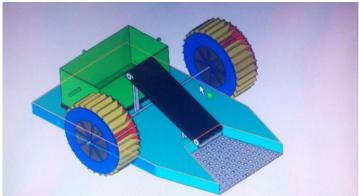




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Aakruti – 2015 Models



















Press release links - 2015

http://epaperbeta.timesofindia.com/Article.aspx?eid=31814&articlexml=DESIGN-CONTEST-Engineering-students-bag-top-honours-09102015005070

Back

http://www.dailycadcam.com/3dplms-design-contest-aakruti-draws-1400-students-from-17-states-in-india-winners-to-be-announced-on-oct-1-2015-in-pune/

http://www.dailycadcam.com/a-conversation-with-mr-hemant-gadgil-director-industry-solutions-group-3d-plm-on-akruti-2015-design-contest/

http://epaper.sakaaltimes.com/SakaalTimes/5Oct2015/Normal/Plus4/page3.htm

http://epaper.sakaaltimes.com/SakaalTimes/13Oct2015/Normal/Plus4/index.htm

Oct 09 2015 : The Times of India (Pune)

DESIGN CONTEST - Engineering students bag top honours

Tarini Puri

Pune

Engineering students from city-based colleges bagged top prizes for their innovative ideas for smart cities and villages at a contest held in the city recently.

As many as 1,400 students took part in the contest 'Aakruti 2015', organized by a citybased organization as, from 129 colleges in 17 states. The winning ideas were shortlisted from among 150 ideas.

The objective of the competition was to encourage students to showcase their design skills, creativity and talent using art designing softwares of Dassault Systèmes.

A device that can convert solar energy into mechanical energy and then convert the mechanical energy into electrical energy was adjudged the winning idea by a panel of industry-experts and academicians. The three-member team which created the design include Sooraj Kumar, Sudhanshu Sharma and Sonu Yadav. All three are final year mechanical engineering students of the Pune-based Army Institute of Technology.

The team was inspired by the solar panels being installed in their college and they wanted to develop a more efficient technique. The device consists of a curved focus parabolic reflector which concentrates the sun light at the base of a modified rotary engine whose spark plug has been removed. "Heat is generated at the base of the rotary engine. The exhaust of the rotary engine is connected to the inlet of the rotary engine which makes it a closed system. Helium gas inside the rotary engine makes the engine rotate which is connected to a power generator," Kumar said. The trio plans to commercially launch the product soon.



Podium finish for Maha students at design contest

ST CORRESPONDENT

Pune: College students of the State outshone all their counterparts in the country to take the first three positions of a recently concluded design competition, 'Aakruti'.

The team from the Army Institute of Technology (AIT) were adjudged as winners of this year's competition that was organised by 3DPLM Software Solutions – a Dassault Systèmes R&D Lab. The second and third prize winners were Mumbad-based Viva Institute of Technology and Pune Vidyarthi Griha College of Engineering and Technology, respectively.

Technology, respectively.

The students of AIT had designed a solar mechanism that can be used in smart cities and villages. The Mumbai team, on the other hand, had the novel idea of power generation from sowage flowing alongside the water treatment.

meant for other purposes.

With an objective of helping farm-

ers, the third prize winners had displayed a design of a quadcopter that could be used for agricultural pesticide snraving.

This was the fifth year of this national competition meant for engineering students, who get a platform to display their talents and innovations.

This year, the theme was Smart Products for Smart City' and 'Smart Products for Smart Village', where each team had to design products that could suit these set-ups.

Over 13 teams from over 129 colleges participated in the final leg of the competition that was held on October 1. Among the other designs presented were effective means of transportation, effective and efficient agricultural machinery and indegineous means of protection of agricultural farms from vacaries of nature ste.

Managing Director of Dassault Systèmesb (India) Chandan Chowdhury was the chief guest for the day, who also presented the prizes to the witners.

HANGOUT

Powering the nation

A team of three students from Army Institute of Technology, Pune, took away: top honours at Aakruti 2015 for making an efficient, less bulky and affordable Solar Mechanical Heat Generator

nstallation of solar panels in our college gave us the idea of designing Sosays Sooral Rumar He, along with his friends and classmates Sonu Yadav and Sutharshu Sharma, formed a davand Sutharshu Sharma, formed a Askruti 2015, a national designing competition jointly hossed by DS SOLID. WORKS and 3DPLM. The event encourtheir design skills, creativity and talont.

their design skills, creativity and talent Aakruti was launched in 2010. This year, more than 700 teams comprising 1400 students from 120 colleges and 17 states registered for the competition, which revolved around the theme 'Smart Products for Smart City' and

on (a)

Ketaki Kalgaonkar Second Year, Masters in Journalism and Media, Indira School of Communication

'Smart Products for Smart Villages'. Kumar proudly beams, 'This is the first competition we book part in and one of the project is ready for commercial use, he says, 'We have completed the designing stage and we are in talks with our teachers

we have completed the designing stage and we are in talks with our teachers. He adds. "Being a solar electricity generator, the design is environment friendly. Also it is cheaper than solar panels. If a solar panel system costs Rs. 1,00,000, our machine will cost Rs. 70, 000. Also it is small, the area of the ma-

000. Also it is small, the area of the machine is only 1 square meter." Adkruti 2015, says. "Since the Government of India is promoting Smart cities and villages, we came up with the thems. This ing students to showcase their innovations and also contribute their bit to soclety."

ic mirror. Solar energy is focused on the plate of the rotary engine. The He lium gas present in the rotary engine expands drastically and pressure is produced. This pressure helps rotate the shaft of the rotor. The shaft is con

nected to a power generator and thus electricity is produced," says Kumar. He adds, "We have designed a mod

How did the trio do it?

The 2015. Winning rife, who are it mad year Nechanical Engineering estudents of Army Institute of Technology, Pune, decided to design a more efficient. Iess bulky and pocket-friendly sically, solar energy which also happens to be a free form of energy available overy where, is converted into energy. "We have modified and used parabol."

He adds, "We have designed a modern rotary system. We have oliminated power plug with just a metal piece and have also combined inlet and exhaust. We have bestcally designed closed by stemimented in all the bouseholds and can generate electricity up to 200 units a noorth."

> Sonu Yadav, Sudhanshu Sharma and Sooraj Kumor of the Team

