Professor I/C
The Technocracy- Technical Committee of NIT Raipur

Manwendra K. Tripathi
Contact: 8103766514
E-mail: mktripathi.met@nitrr.ac.in

The TechnoCracy is the students' technical committee of NIT Raipur. It was a seed sown in 2007 by a few technical enthusiasts, which has grown and established its strong roots. Currently, it comprises of over 100 members. The vision of TechnoCracy is to bring out the technical thirst in every student through their innovative ideas and help them discover the concealed, untapped avenues of science and technology.

The TechnoCracy remains active throughout the year and conducts various workshops like on robotics, IOT (Internet Of Things), seminars by eminent personalities and guest lectures by alumni. The TechnoCracy is known to organize the Annual Science and Technical Festival of NIT Raipur; "AAVARTAN" which is the largest tech-fest of central India, by all standards. The main aim of AAVARTAN is to provide a national level platform for students to showcase their technical flair. It aspires to bring out the hidden and dormant engineer inside each student. It inspires students and gives them a whole new and enriching perspective in the world of technology and entrepreneurship.

Since its inception, The TechnoCracy has been working on providing the pathways to young minds to model their fascinations into reality and this year, The Technocracy will be delivering even more!
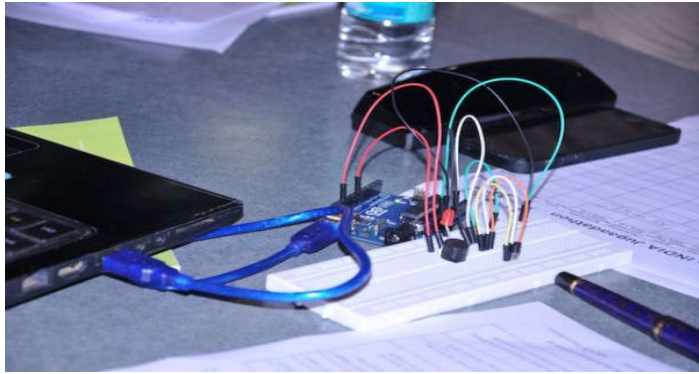
1. RC Trainers Aircraft Modelling Workshop

For the first time in Chhattisgarh, AAVARTAN'17 NIT RAIPUR in association with Aero Modelling Club IIT presented a workshop on Radio-Controlled Aircraft Modelling to introduce Aero Modelling

Technologies. It was for 2 days which were a theoretical session on the basics of Aero Modelling and then a practical session describing step by step procedure for fabrication of Electric RC Plane, along with demonstration on Simulators were conducted. After the end of the workshop the mentors also flied and demonstrated a fully functional electric RC plane followed by test on RC fabrication.

Date of Event: 4th & 5th Feb 2017

2.Hack (Jugaad)

"If necessity is the father of invention, India is its Godfather!" JUGAAD (hacks or situational improvisation) is in our blood. We have been using it for ages to get through our day-to-day problems. For the seemingly elite of you, it means 'a creative or innovative idea providing a quick, alternative way of solving or fixing a problem'. To celebrate this spirit of an engineer in all of us, Aavartan, NIT Raipur had organized an exciting online event in which one was required to submit a short video demonstrating your hacks (JUGAAD).

Date of Event: 14th Jun 2017

3. Ethical Hacking And Cyber Security Workshop

Hacking is abstract art in field of Technology but sometimes it is used by evil minds to get profit through illegal ways but it harms people. It is necessary that such art should be used in moral way and when the Hacking follows the ethics then it is called ethical hacking. Hence, our objective was to teach Hacking in ethical way and make aware of how to save ourselves from hackers. A workshop on Ethical Hacking and cyber security was conducted by AAVARTAN, NIT RAIPUR were participants were given an insight about it and a hands on session were students learned various terminologies and ways of hacking and enhancing cyber security.

Date of Event: 19th & 20th Aug 2017

4. Engineer's Day

Team Aavartan celebrates engineers day as Pre-Aavartan so that people can see the glimpses of Aavartan. As we know that the engineers day is celebrated to appreciate the contributions of Mokshgundam Visvesvaraya therefore we always conduct 4-5 technical and fun events like Time Trap, Code Hunt, Mirror Play, Identify Me, Tech-Charade which ere related to engineering fundamentals so that our students can enjoy and celebrate the day.

Date of Event: 16th Sep 2017

5. KLEOS

One of the most intriguing, mind boggling and impelling event of AAVARTAN'17, KLEOS. The exhilarating online treasure hunt, organised by TechnoCracy, NIT Raipur. Thinking intensively, thinking critically. Trusti g your gut instincts, bei ng intuitive and thinki g outside the box. Resolving the enthralling mystery with the clues provided and testing your logics, aptitude and skills and taking them to an all new level with various puzzles, riddles and brain teasers combined together.

Date of Event: 20th Sep 2017

6. Codenesia 2.0

Codenesia 2.0, a student Programming Competition was organised by The Technocracy with the collaboration of ACE on 5th & 8th October, 2017 after the grand success of Codenesia 1.0 conducted on 16th September, 2017. It was a hish level version of Codenesia 1.0. Coding, or the basics of programming, are fast becoming a new literacy standard around the world. It aims to introduce the students to the computing community.

Date of Event: 5th Oct 2017

7. AAVARTAN'17

AAVARTAN is the annual TechFest of NIT Raipur with more than 30 events, VIGYAAN - a science exhibition and different attractions.

The various events that held are as follows : -

➢ **CAD-alyst**
In this event students showcased their knowledge and skills in Autocad software. Students were given dimensions of an object and they had to design a 3D model of the object in Autocad in the given time.

➢ **Technomic Quotient 5.0**
A quiz event where on has to push ones grey matter to the limits and connect the dots.

➢ **Capture the moment**
"Photography is a way of feeling, of touching, of loving. What you have caught in this aavrartan17 is captured forever… It remembers little things, long after you have forgotten everything.
A photography event where the participants had to click pictures of AAVARTAN.

➢ **Gravity Control**
Participants had to construct a maze on the ED board with the help of thermocol so that it can oppose the gravity as much as possible for a ping pong ball.

➢ **GRE Planner**
Greplanner is a pictorial model designing event .In this a mutual, ecofriendly, and efficient blueprint of a city is to be prepared by using the infrastructure (building, factories, hospital etc.) and resources (like forest, dams, windmills etc.) provided by us randomly.

➢ **Terrain Trader**
Build a manually controlled WIRED/WIRELESS robot which is capable of grabbing different objects and crossing different types of terrain by reconstructing its path and broken bridge.

➢ **October Sky**
In this event, students showcased their talent in the field of rocket science, fluid dynamics and projectile motion. This was an interesting technical event in which students had to prepare a ROCKET with the help of 2 l bottle of cold drinks and a

LAUNCHER, to project it by the hydraulic pressure, filled inside the rocket and launcher.

➢ **R obo Shoot**

A platform for participants were they showcased their robotics talents and also to brought alive the football spirit.

➢ **Co-Structor**

A frame is the basic structure of any building. The strength of your frame determines the life of your building; but other than strength, there is one more aspect which one must take care of while constructing a building, that is seismic resistance. So for all you moxie architects and engineers, here's an event to test your expertise in your field.

➢ **Maze Runner**

Build autonomous line follower robot to follow a given path.

➢ **Street Wolves**

This Event tests your alluring power and gets you thinking of every offer in your store. So think smart, gain the maximum buyers for the products handed to you and have the glory of CEO.

➢ **Diabolic Dumper**

The competition requires you to design such a mechanism and shift maximum number of balls to deposit zone.

➢ **Ascend**

Event were participants are required to tasks based on their field of interest in Management and Business development.

➢ **KHET**

About Event-In present day we utilize a lot of big instruments which utilize refractive and reflective properties of light. This property has immense application in engineering world. Hence we bring you a new event which will enhance your knowledge on properties of light.

➢ **Sports-o-Mani**

An event that test ones virtual presence in the world of actual sports. This is all about testing your virtual presence in the world of actual sports.

➢ **Snake & Ladders**

It is a 2-participant event. The task is simple. A die will be rolled by one person and the other person will walk the same number of steps as the number on the rolled die.All the rules will be same as the real Snake and Ladder game except some twists.

➢ **Thermo Khalifa**

Inspired by the elegance of the tallest building in the world- The Burj Khalifa, this event challenges you to build a structure out of a thermocol sheet to flaunt its unmatched height and strength.

➢ **Sherlock Holmes**

This is a crime-investigation and detective event which challenges the conventional way of thinking and very much lives by the ideology: "The only promise a puzzle makes is an answer." An event with set of clues linking to one another using team's analytical & technical knowledge. Also a run against time and mutual understanding of team.

CLICK CLUB, NITRR'17

> ➢ **Electronica**
> This event was analogous to traditional treasure hunt with some additions to test your knowledge over electrical circuits and test your capacity to absorb "SHOCK".
> ➢ **RUSH HOUR**
> This is a fun, technical based event which enhances skills of the newly introduced engineers, forcing them to implement basic technical skills under pressure.

Date of Event: 7ᵗʰ & 8ᵗʰ Oct 2017

8.Vigyaan, National Science Exhibition, NIT Raipur

VIGYAAN- is a national level science Exhibition conducted during AAVARTAN'17 annual Techfest of NIT Raipur.Vigyaan promises to nurture the scientific temperament of the student beyond their natural limitations. This scientific rendezvous promises to leave a spine-tingling effect on the participants. The participants have to design a model to solve a Contemporary problem in the society. It tests the scientific and technical abilities of an engineer. In a nutshell Vigyaan is the scientific sensational; integration of Aavartan.

There are 15 domains with each domain having a set of minimum 5 problem statements. Top 3 teams (maximum 3 members) from each domain will get cash prizes up to INR 8000 and certificates. Participation Certificates to teams in top 15 abstracts from each domain who will be given a chance to present the prototype/ abstract of their mode.

Date of Event: 7ᵗʰ & 8ᵗʰ Oct 2017

9. Free Workshop On Web Development

Our major concern was to let students know about how a website is developed and designed. Our objective was to teach everyone basics of any website. Since Team Technocracy is full of young and intelligent minds, we conducted a free web development workshop. Our two members Varull Mishra and Mihir Kumar Singh taught basics of web development. Besides this, the workshop is also supported by Through applied Creations. The students got opportunity to learn HTML, CSS, JavaScript, Bootstrap, SQL, PHP and some other topics without paying. It was totally free workshop and we are glad to tell you but it was first time that any committee or club teach such topics as free workshop program.

Date of Event: 20th & 21st Jan 2018