

**JIS College of Engineering**

**JISTech2K19**

**5Th International  
Technical Symposium  
2019**

**Date: 8th and 9th March 2019**

**Venue: JISCE-Kalyani**



# Report

On

5<sup>th</sup> International Technical Symposium

# ‘JISTech 2k19’



# JISTech 2K19 – 5th International Technical Symposium 2019

<b>Event Name: JISTech2K19</b>
<b>Date:</b> 8th-9th March, 2019
<b>Venue: JIS College of Engineering, Kalyani</b>
<b>Special attraction of JISTECH 2K19:</b> Creating a JISTech problem solution platform for differently able people like ‘Divvyang’. To provide ‘on spot’ solution for economically backward people like farmer, porter, sweeper, daily labor etc.
<b>Aim:</b> Providing a platform for the young engineering student community to develop and showcase their technical prowess.
<b>Objective</b> <ul style="list-style-type: none"> <li>• To promote technology and scientific thinking and innovation.</li> <li>• To inspire students to convert their ideas into design.</li> <li>• To provide a global platform to the young innovators to explore their models in front of a larger peer group.</li> </ul>
<b>Department Participated (from JISCE):</b> ECE, EE, BME, ME, CE, CSE, IT, CA CMS and Basic Science.
<b>No. of projects participated from other institutions participated:</b> 9 Colleges & 13 Schools
<b>No. of events held:</b> Debate Competition, Robotics, Code Fluenza, B Plan and Startup Proposal, Gaming Competition, DIG-CAD Competition, APP-E-Teaser, JISCE-Promo, TAG-slogan, iMAGeRy, I like my JISTech, JISTech-Talk, Poetry Competition, Wall Magazine Competition, 3D Model Design and implementation of innovative Project ideas in each department in JISTech2K19.
<b>Awards:</b> Top three performers from each event and top three projects from each department were given. Projects on different aspect such as best societal impact, best innovation; Best school and college project were given. Monetary award also given in some events such as B-plan.
<b>Outcome</b> <ul style="list-style-type: none"> <li>• Provides a platform for the students to think independently and come up with innovations with enough environmental, societal and commercial aspect along with application in practical life.</li> <li>• Encourages the students to showcase their unique talent through the various events which in turn also nurtures their inter-personal skills, team work, professional and moral values.</li> <li>• Advice from the external jury members, feedback from different stakeholders, awards and certification for the enthusiastic efforts is the key source of motivation, encouragement and wholehearted participation of the young scientific in such glorious symposium. effort in</li> </ul>

future symposium

## Theme of JISTech2K19



### **Solutions for the physically handclapped people of the society:**

The theme of the symposium is to take significant initiative for societal benefit of physically handclapped people of the society. The program is inaugurated by these physically challenged persons to promote the society. Their problems also have been addressed by different projects made by students of JIS College of Engineering such as smart blind stick, Braille language software, App based solution, Electrically energized leg, Drip irrigation system, weather prediction app, Waste to wealth plan, Robo-sweeper, Laser scale. The Symposium presented with a holistic approach towards the Educational fraternity. The event should be a Brand that would furnish an unfathomable foundation for Schools and Colleges to showcase their talent now and always.

### **A SPECIAL MOMENT OF JISTECH2K19 THEME**








Department of Information Technology		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Sumit Das	
<b>No. of participated project</b>	10	
<b>First Position: ID IT04</b>	<b>Second Position: ID IT08</b>	<b>Third Position: ID IT02</b>
<b>Recycled Vacuum cleaner</b>	<b>IOT DOOR STATUS</b>	<b>Bi-Directional Counter</b>
<b>Objective:</b> To develop a cost-effective, user friendly, manually operated vacuum cleaning machine as an alternative for conventional vacuum cleaning machines.	<b>Objective:</b> To develop a device that will push a notification on our phone via Blynk Server about the event of opening the door. When the circuit inside the switch breaks, it triggers the Node MCU to send a status update to Blynk Server.	<b>Objective:</b> To develop a bidirectional, smart system that can be used to count and display the limited number of visitors entering in the boat.
		
<b>Mentor:</b> Suparna Dasgupta	<b>Mentor:</b> Soumyabrata Saha	<b>Mentor:</b> Rupashri Barik
<b>Outcome:</b> This project doesn't require much power and it's easy to carry around by hand which means we are free to use it anywhere. One of the best things is that it doesn't cost much money.	<b>Outcome:</b> This project is economically feasible, the two main components of this project is easily available and very cheap and other two components are software which are available free of cost in the web.	<b>Outcome:</b> There will be no need of working stuffs for counting people this will reduce the expense of ferry-ghat. This will also help to count the total number of passenger travelled throughout the day.

## Department of Information Technology

Project Id	Title	Name of the Student	Year	Guide Name
IT01	Application Base Weather Station System	Tanisha Roy	2 <sup>nd</sup>	Tanusree Saha, Annwasha Banerjee
		Swikriti Debnath	2 <sup>nd</sup>	
		Sourav Modak	2 <sup>nd</sup>	
		Ayush Barui	2 <sup>nd</sup>	
IT02	Bi-directional Counter	Niladitya Ghosh	2 <sup>nd</sup>	Rupashri Barik
		Soumyadeep Saha	2 <sup>nd</sup>	
		Chinmoy Ghosh	2 <sup>nd</sup>	
		Tapash Sarkar	2 <sup>nd</sup>	
IT03	Free Energy Generator Using Magnet and DC Motor	Visal Kumar	2 <sup>nd</sup>	Tanusree Saha & Aniruddha Biswas
		Rajnish Kumar	2 <sup>nd</sup>	
		Prashant Kumar	2 <sup>nd</sup>	
IT04	Recycled Vacuum cleaner	Shreyans Tiwar	2 <sup>nd</sup>	Suparna Das Gupta
		Amit Nandi	2 <sup>nd</sup>	
		Sarbajyoti Mallik	2 <sup>nd</sup>	
IT05	SOS Alert System for Women Safety	Soumyadeep Khan	3 <sup>rd</sup>	Tanusree Saha
		Shovan Dev Chatterjee	3 <sup>rd</sup>	
IT06	Free Energy Car	Chanchal Mahapatra	2 <sup>nd</sup>	Sumit Das
		Dibendu Kundu	2 <sup>nd</sup>	
		Trina Saha	2 <sup>nd</sup>	
		Punabrata Mukharjee	2 <sup>nd</sup>	
		Anjali Kumari Sharma	2 <sup>nd</sup>	
		Ujjwal Verma	2 <sup>nd</sup>	
IT07	Vehicle Number Plate Recognition	Saptarshi	3 <sup>rd</sup>	Annwasha Banerjee
		Barat Sayak Ash	3 <sup>rd</sup>	
		Tanvir Ahmed	3 <sup>rd</sup>	
IT08	Door Status	Diptesh Pandey	3 <sup>rd</sup>	Soumyabrata Saha
		Barnali Dey	2 <sup>nd</sup>	
		Kuheli Saha	2 <sup>nd</sup>	
		Shreya Bhaduri	2 <sup>nd</sup>	
IT09	Plant disease monitoring system	Supriyo Chatterjee	3 <sup>rd</sup>	Sumit Das
		Sourav Kumar Upadhyay	3 <sup>rd</sup>	
		Snehasis Langal	3 <sup>rd</sup>	
		Soumyajit Banerjee	3 <sup>rd</sup>	
IT10	BOGO-The Social Network for JISCIANS	Gourav Chatterjee	3 <sup>rd</sup>	Annwasha Bannerjee
		Ridam Kamkar	3 <sup>rd</sup>	
		Riya Roy	3 <sup>rd</sup>	
		Vishal Shaw	3 <sup>rd</sup>	

Department of Electronics and Communication Engineering		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Bikash Dey	
<b>No. of participated project</b>	10	
<b>First Position: ID ECE02</b>	<b>Second Position: ID ECE04</b>	<b>Third Position: ID ECE05</b>
Automated Soda Machine	Low cost EVM with instant counting system	Arduino Based Vehicle Accident Alert And Tracking System
<b>Objective:</b> To develop a low-cost, automated soda machine.	<b>Objective:</b> To develop a low-cost and intelligent system where voting data cannot be tampered and count can be done automatically on the same day of election without any human effort.	<b>Objective:</b> To design and develop a Arduino based device that can detect the accident and can alert the appropriate authority with the tracking information about the accident.
		
<b>Mentor: Anirban Ghosal</b>	<b>Mentor: Anirban Ghosal</b>	<b>Mentor: Anirban Ghosal</b>
<b>Outcome:</b> The developed system is user-friendly, low-cost. So it can be used in home also for water drinking purpose.	<b>Outcome:</b> In general, EVM can be tampered and data can be manipulated. But our developed device eliminates this issue.	<b>Outcome:</b> The developed system has a huge societal impact as it can help the society by tracking the accidents and making the accident recovery process gear up with proper information exchange.


## Department of Electronics and Communication Engineering

Project Id	Title	Name of the Student	Year	Guide Name
ECE01	Wheel Chair Cum Stretcher	Nikita Mulchandani	2 <sup>nd</sup>	Arindam Banerjee
		Juli Kumari	2 <sup>nd</sup>	
		Kumari Diksha Rai	2 <sup>nd</sup>	
		Subhadip Majumder	2 <sup>nd</sup>	
		Maitri Biswas	2 <sup>nd</sup>	
ECE02	Automated Soda Machine Smart surveillance system with	Tusar Maity	3 <sup>rd</sup>	Anirban Ghosal
		Subrata Das	3 <sup>rd</sup>	
		Saikat Dey	3 <sup>rd</sup>	
		Souvik Ghosh	3 <sup>rd</sup>	
		Sulagna Chatterjee	3 <sup>rd</sup>	
		Saswata Mukherjee	3 <sup>rd</sup>	
ECE03	Smart surveillance system with multipurpose features	Arijit Banerjee	3 <sup>rd</sup>	Bikash Dey
		Samabhabee Banerjee	2 <sup>nd</sup>	
		Deepanjan Banerjee	2 <sup>nd</sup>	
		Anudeep Biswas	2 <sup>nd</sup>	
ECE04	Low cost EVM with instant counting system	Aslam Hossain Molla	4 <sup>th</sup>	Anirban Ghosal, Moumita Pal, Ranjana Ray
		Biswarup Dutta	4 <sup>th</sup>	
		Snehakshi Singh	4 <sup>th</sup>	
		Sonu Kumari Jha	4 <sup>th</sup>	
		Sukriti Sarkar	4 <sup>th</sup>	
		Swastika Kumari	4 <sup>th</sup>	
ECE05	Arduino Based Vehicle Accident Alert And Tracking System	Nilanjan Bhattacharjee	2 <sup>nd</sup>	Anirban Ghosal
		Soumyasree Chakraborty	2 <sup>nd</sup>	
		Subham Mahato	2 <sup>nd</sup>	
		Apurba Bhattacharya	2 <sup>nd</sup>	
		Puja Jaydhar	2 <sup>nd</sup>	
		Shovan Chatterjee2	2 <sup>nd</sup>	

## Department of Electronics and Communication Engineering

Project Id	Title	Name of the Student	Year	Guide Name
ECE06	Automatic water pump switching with message display	SK Suman	2 <sup>nd</sup>	Arindam Banerjee, Aniruddha Ghosh, Mainuck Das
		Subhadeep Ghosh	2 <sup>nd</sup>	
		Smritikana Singha	2 <sup>nd</sup>	
ECE07	Earthquake Detector	Achintya Kr.Saha	3 <sup>rd</sup>	Anirban Ghosal
		Aniket Roy	3 <sup>rd</sup>	
		Debabrata Roy	3 <sup>rd</sup>	
		Monojit Sadhukhan	3 <sup>rd</sup>	
		Pratik Raha	3 <sup>rd</sup>	
		Manav Verma	3 <sup>rd</sup>	
ECE08	Patience and concentration calculator	Shivam Sarkar	3 <sup>rd</sup>	Dr. Biswarup Neogy
		Imran Roshan	1 <sup>st</sup>	
		Soumi Majumdar	1 <sup>st</sup>	
		Udita Chanda	1 <sup>st</sup>	
ECE09	Economic class perkinses protection	Rajlaxmi bhattacherjee	2 <sup>nd</sup>	Dr. Biswarup Neogy
		Shovon chaterjee	2 <sup>nd</sup>	
		Puja Jaydhar	2 <sup>nd</sup>	
		Aman kumar thakur	2 <sup>nd</sup>	
		Ujjwal kant	2 <sup>nd</sup>	
ECE010	An automation of any obstacles detected by the vehicle	Jeeta Makhhal	2 <sup>nd</sup>	Dr. Dipak Ranjan Jana, Arindam Banerjee, Aniruddha Ghosh, Mainuck Das
		Tirthankar Dey	2 <sup>nd</sup>	
		Wangjan Sharmila Devi	2 <sup>nd</sup>	
		Sourav Doom	2 <sup>nd</sup>	
		Shubham Verma	2 <sup>nd</sup>	



<b>Department of Physics</b>		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Rinki Bhowmick	
<b>No. of participated project</b>	10	
<b>First Position: ID PH 1 &amp; PH 4</b>	<b>Second Position: ID PH 9</b>	<b>Third Position: ID PH 7</b>
<b>A new approach of human identification using eyes (PH1)&amp; Smart Blade(PH4)</b>	<b>Automatic Signal System For Wild Life</b>	<b>Tree Transplantation</b>
<b>Objective:</b> PH1→To develop a brand new methodology for sclera segmentation to recognize a human being that works for each other grayscale pictures. PH4→ To develop a system which is an important part of India or every human life as it will prevent workers from accident during cutting wood in saw mill.	<b>Objective:</b> To develop a new type of signaling system which will help to reduce the occurrence of railway accidents of wild animals by detecting the reflected Infrared and aware the locomotive driver from the accident. This project will help to reduce the occurrence of the accident of the wild animals in the northern part of India.	<b>Objective:</b> To develop a model tree transplantation machine which is able to uproot a mature tree without causing any harm to the roots and move the whole tree to the suitable place and replant it.
		
<b>Mentor: Dr. Subhamoy Singha Roy (PH1), Dr. Sabyasachi Sen (PH4)</b>	<b>Mentor: Ms. Rinki Bhowmick</b>	<b>Mentor: Dr. Sabyasachi Sen</b>
<b>Outcome:</b> (PH1)→Every human being has many different features in the human body which can be used to identify a human being. (PH4)→ A device is created that will sense the hand near the running blade of a cutting machine in saw mill and hence it will stop the machine and it will reduce the chance of accident.	<b>Outcome:</b> Infrared beam is reflected from every living body which is easily detected by PIR sensor. After completing this project we created a new type of automatic signaling system that detect this reflected Infrared and aware the locomotive driver from the accident.	<b>Outcome:</b> It is a model tree transplantation machine which is able to uproot a mature tree without causing any harm to the roots and move the whole tree to the suitable place and replant it.

## Department of Physics

Project Id	Title	Name of the Student	Year	Guide Name
PH 1	A New Approach Of Human Identification Using Eyes	Shaistah Mukthar	1 <sup>st</sup>	Dr. Subhamoy Singha Roy
		Suvajit Das	1 <sup>st</sup>	
		Sujaya Das	1 <sup>st</sup>	
		Aritra Mondal	1 <sup>st</sup>	
		Madhusree Halder	1 <sup>st</sup>	
PH 2	Design and Implementation of an Omni-Directional Underwater Acoustic Micro-Modem Based on a Low-Power Micro-Controller Unit	Anish Makal	1 <sup>st</sup>	Dr. Subhamoy Singha Roy
		Dipayan Mondal	1 <sup>st</sup>	
		Ayantika Ghosh	1 <sup>st</sup>	
		SK Nasim	1 <sup>st</sup>	
		Swarnendu Maiti	1 <sup>st</sup>	
PH 3	Smart Toilet	Pratnadeep Biswas	1 <sup>st</sup>	Dr. Sabyasachi Sen
		Rahul Das	1 <sup>st</sup>	
		Lav Kush Kumar	1 <sup>st</sup>	
PH 4	Smart Blade	Shankar Debnath	2 <sup>nd</sup>	Dr. Sabyasachi Sen
		Amartya Bhattacharjee	2 <sup>nd</sup>	
		Souvik Masanta	2 <sup>nd</sup>	
		Ankita Sen Chowdhury	2 <sup>nd</sup>	
		Sourav Ghosh	2 <sup>nd</sup>	
PH 5	Bioengineering Thermodynamics Of Biological Cells	Deep Saha	1 <sup>st</sup>	Dr. Subhamoy Singha Roy
		Aritra Patra	1 <sup>st</sup>	
		Dhriti Ranjan Mahato	1 <sup>st</sup>	
		Dona Nandi	1 <sup>st</sup>	
		Udbhasita Pal	1 <sup>st</sup>	
		Arka Biswas	1 <sup>st</sup>	

<b>Department of Physics</b>				
<b>Project Id</b>	<b>Title</b>	<b>Name of the Student</b>	<b>Year</b>	<b>Guide Name</b>
PH 6	Smart Electronic Blind Stick	Dwaipayan Roy	2 <sup>nd</sup>	Ms. Rinki Bhowmik
		Shankar Debnath	2 <sup>nd</sup>	
PH 7	Tree Transplantation	Chinmoy Ghosh	2 <sup>nd</sup>	Dr. Sabyasachi Sen
		Anjali Kumari Sharma	2 <sup>nd</sup>	
		Swarnendu Mondal	2 <sup>nd</sup>	
		Saswati Pal	2 <sup>nd</sup>	
		Niladitya Ghosh	2 <sup>nd</sup>	
		Trina Saha	2 <sup>nd</sup>	
		Chinmoy Ghosh	2 <sup>nd</sup>	
PH 8	Hand Gesture Control Robot	Barnodip Chakraborty	1 <sup>st</sup>	Dr. Subhamoy Singha Roy
		Ayan Santra	1 <sup>st</sup>	
		Surjendu Debnath	1 <sup>st</sup>	
		Sitabro das	1 <sup>st</sup>	
		Ritwik Basak	1 <sup>st</sup>	
PH 9	Automatic Signal System For Wild Life	Subhadip Bhattacharjee	2 <sup>nd</sup>	Ms. Rinki Bhowmick
		Sudeb Saha	2 <sup>nd</sup>	
		Shuvam Gupta	2 <sup>nd</sup>	
		Aritrya Roy	2 <sup>nd</sup>	
		Saroj Karmakar	2 <sup>nd</sup>	
PH 10	Magnetic Levitation	Md Adib	1 <sup>st</sup>	Dr. Swagata Bhattacharya
		Md Matharul Haque	1 <sup>st</sup>	

Department of Computer Application		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Sumit Das	
<b>No. of participated project</b>	10	
<b>First Position: ID CA07</b>	<b>Second Position: ID CA01</b>	<b>Third Position: ID CA03</b>
<b>Smart Dustbin</b>	<b>Sensor Light</b>	<b>Home Automation</b>
<p><b>Objective:</b> This will be activated by the sensor. When one will put the object in front of the dustbin the circuit will get a instruction to open the lead by the help of the sensor. And after few second the lead will be closed automatically, no one needs to touch the dustbin.</p>	<p><b>Objective:</b> During the night time all the lights on the streets or road remain on throughout the night, so the energy loss will be high when there is no movement of vehicles. This project gives a solution for saving the energy.</p>	<p><b>Objective:</b> The main objective of “Home Automation through Smart Phone” is that the “Physically Challenged and Disabled People” can use it easily. On other side if you can turn on and off lights of your home from anywhere in the world, it is much more helpful to save the electricity.</p>
		
<b>Mentor:</b> Aniruddha Biswas	<b>Mentor:</b> Sumit Das	<b>Mentor:</b> Suparna Dasgupta
<p><b>Outcome:</b> If this dustbin can be made within a limited investment it will be easily available in the market for people. And in future it will develop to a “Self-collecting Dustbin”. If we look for the social aspects, it helps to keep our surroundings clean and it helps us to fulfill the mission of “Swacch Bharat Abijhan”.</p>	<p><b>Outcome:</b> By using this project a lot of energy can be saved. The proposed system uses LEDs instead of other lamps. The project is especially designed for street lighting in remote rural and urban areas where the traffic is low at times. The system is multipurpose, extendable and totally variable to user needs.</p>	<p><b>Outcome:</b> Home Automation is undeniably a resource which can make a home environment automated. People can control their electrical devices via these Home Automation devices and set up controlling actions through Mobile. In future this product may have high potential for marketing.</p>

## Department of Computer Application


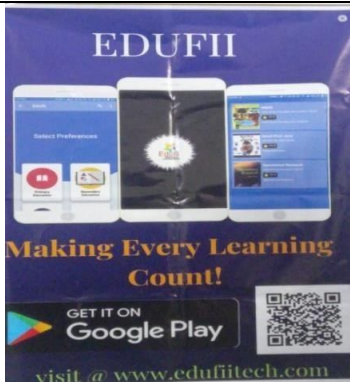
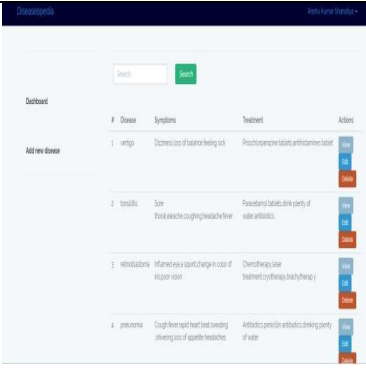
Project ID	Title	Student Name	Year	Supervisor / Guide Name
CA01	Sensor Light Bulb	Avinash Kumar Gupta Koyel Maji Aayush Gupta Kaushik Biswas Arijit Ghosh, Projoti Gari	1 <sup>st</sup>	Sumit Das
CA02	Street Light that glow on detecting vehicle movement	Shubham Pal Sayak Chattaraj	2 <sup>nd</sup>	Suparna Dasgupta
CA03	Home Automation	Sadirul Islam Pralay Sankar Bagchi	2 <sup>nd</sup>	Suparna Dasgupta
CA04	Energy Transformation	Priyanshu Dhar Soham Chakraborty Anwasha Paul Riya Mondal, Akash Halder	1 <sup>st</sup>	Tanusree Saha
CA05	Economic Air Purifier	Ayush Mukherjee Gaurav Gupta Arunaditya Das Sandeep Singh Birdi	1 <sup>st</sup>	Tanusree Saha Das
CA06	Med- Heath	Alap Putatunda Tanmoy Adhikary Tiasha Das Srija Bhattacharyya Sristy Ghosh	1 <sup>st</sup>	Annwasha Banerjee
CA07	Smart Dustbin	Nilanjan Pal, Shalini Paul Souvik Ghosh, Aishee De Bishal Joardar, Dharmnath kumar	1 <sup>st</sup>	Aniruddha Biswas
CA08	Coaster Charger	Suranjana Mitra Abantika Paul Choudhury Megha Ghosh, Souvik Mondol Sanchita Sutradhar Samiran Dhali	1 <sup>s</sup>	Rupashri Barik
CA09	Advanced Highway Model Road power Generation	Sundaram Hazra Krishnendu Chattopadhyay Shibraj Basak, Sourav Dutta Sharbari Sarkar Tanmoy Adhikary Debojyoti kr. Sadhukhan	1 <sup>st</sup>	Prolay Ghosh
CA10	Light weight carrying Robot	Aditi Dey, Arnab Dey Samrat Saha Dona Saha Anish Bhattacharya Bikramjit Ghosh	1 <sup>st</sup>	Prolay Ghosh



<b>Department of Mechanical Engineering</b>		
<b>Event Type</b>	<b>JISTech2K19 Project</b>	
<b>Coordinator Name</b>	Mr. Shishir Kumar Biswas	
<b>No. of participated project</b>	10	
<b>First Position: ID ME03</b>	<b>Second Position: ID ME08</b>	<b>Third Position: ID ME04</b>
<b>Smart Agricultural Vehicle Sprayer</b>	<b>Fold On The Go</b>	<b>Automated Waste Collecting Vehicle</b>
<b>Objective:</b> The objective is to provide new technology 'Smart Agricultural Vehicle Sprayer' for spraying in the fields within affordable range for every economic level which also deprives many health hazards cause to the farmers and many more functions	<b>Objective:</b> Objective is to propose the portable and light weight Bicycle.	<b>Objective:</b> The objective of this project is to reduce human efforts in collection and dumping of daily home-wastes from a locality.
		
<b>Mentor: Mrs. THIA PAUL</b>	<b>Mentor: Dr. SANDIP GHOSH</b>	<b>Mentor: MR. SUBHASHIS HALDER</b>
<b>Outcome:</b> Farmers can easily spread pesticide their plant without moving around the field. The current farmer health hazards involved in spreading is dangerous. So after using this atomizer they are more safe comprising previous case.	<b>Outcome:</b> In urban areas and for hostel students, it is very helpful to them because they live in very compact area.	<b>Outcome: The outcome is to</b> transport waste at high speed through underground pneumatic tubes to a collection station where it is compacted and sealed in containers.

## Department of Mechanical Engineering

Project Id	Title	Name of the Student	Year	Guide Name
ME01	Electric Generator From Waste Heat	Rohit Ghosh	3 <sup>rd</sup>	Shishir Kumar Biswas
		Mitrajit Sahoo	3 <sup>rd</sup>	
		Ajoy Kumar Sharma	3 <sup>rd</sup>	
ME02	Energy From Primitive Agriculture System	Pritam Bose	1 <sup>st</sup>	Thia Paul
		Apu Kumar Acharjee	1 <sup>st</sup>	
		Alip Ghosh	1 <sup>st</sup>	
		Binita Kundu	1 <sup>st</sup>	
		Swarnendu Adak	1 <sup>st</sup>	
ME03	Smart Agricultural Vehicle Sprayer	Snehasish Mukherjee	3 <sup>rd</sup>	Thia Paul
		Sumit Prasad	3 <sup>rd</sup>	
		Suvrajit Mondal	3 <sup>rd</sup>	
		Tanmoy Sarkar	3 <sup>rd</sup>	
		Surajit Paul	3 <sup>rd</sup>	
ME04	Automated Waste Collecting Vehicle	Pranesh Debsarma	3 <sup>rd</sup>	Subhashis Halder
		Pushkar Nath Vashisth	3 <sup>rd</sup>	
		Rahul Harizan	3 <sup>rd</sup>	
		Rahul Kumar Gope	3 <sup>rd</sup>	
ME05	Mini Lathe Machine	Souvik Pradhan	2 <sup>nd</sup>	Thia Paul
		Aranya Mondal	2 <sup>nd</sup>	
		Kuntal Dash	2 <sup>nd</sup>	
		Subhadip Mitra	2 <sup>nd</sup>	
		Avik Chakraborty	2 <sup>nd</sup>	
		Nayan Debnath	2 <sup>nd</sup>	
ME06	Cooling Band	Naved Anzum	3 <sup>rd</sup>	Shishir Kumar Biswas
		Mrinmoy Ghosh	3 <sup>rd</sup>	
		Krishn Jee Singh	3 <sup>rd</sup>	
		Pratanu Das	3 <sup>rd</sup>	
		Pranab Kumar Sarkar	3 <sup>rd</sup>	
ME08	Fold On The Go	Kaushal Kumar Poddar	3 <sup>rd</sup>	Dr. Sandip Ghosh
		Md Faizan Alam	3 <sup>rd</sup>	
		Neyaz Ahmed	3 <sup>rd</sup>	
		Kunwar Adwitiya	3 <sup>rd</sup>	
		Satyakant Tripathi	3 <sup>rd</sup>	
		Md Adil Alam	3 <sup>rd</sup>	
ME09	Amphibious Car	Pratyush Jyoti Roy	1 <sup>st</sup>	Dr. Jayanta Kr. Biswas
		Koustav Dey	1 <sup>st</sup>	
		Rohit Bhuit	1 <sup>st</sup>	
		Subhanil Manna	1 <sup>st</sup>	
ME10	Portable Refrigerator	Aniket Sarkar	3 <sup>rd</sup>	Dr. Sandip Ghosh
		Ajoy Kumar Sharma	3 <sup>rd</sup>	
		Abdul Bari Farooque	3 <sup>rd</sup>	
		Achintya Mondal	3 <sup>rd</sup>	
		Aditya Chhetri	3 <sup>rd</sup>	
ME12	Road Power Generator	Akash Kundu	1 <sup>st</sup>	Dr. Jayanta Kr. Biswas
		Souvik Ghosh	1 <sup>st</sup>	
		Koushik Ghosh	1 <sup>st</sup>	




Department of Computer Science Engineering																											
<b>Event Type</b>	JISTech2K19 Project																										
<b>Coordinator Name</b>	Dr. Bikramjit Sarkar																										
<b>No. of participated project</b>	9																										
<b>First Position: ID CSE04</b>	<b>Second Position: ID CSE01</b>	<b>Third Position: ID CSE02</b>																									
<b>Mentorship Platform</b>	<b>EDUFII</b>	<b>Waste Management: A solution towards good life</b>																									
<b>Objective:</b> Basically it is an online platform where mentor can connect with his mentees. Mentees can fill up this weekly mentors report through online. There will be a notice board where mentor can inform his mentees about every events happening in college.	<b>Objective:</b> To promote online education from the primary level to the higher level.	<b>Objective:</b> The objective of this project is to reduce human efforts in collection and dumping of daily home-wastes from a locality.																									
 <p>Welcome to Mentorship</p> <ol style="list-style-type: none"> <li>Simplify the way of delivering information.</li> <li>Don't follow trends, create it with us.</li> <li>Keep Calm and secure data wisely with us.</li> <li>Every great achiever is inspired by a great mentor, so connect with your great mentor with us.</li> </ol> <p>Make something awesome Keep Hustling</p>	 <p>EDUFII</p> <p>Making Every Learning Count!</p> <p>GET IT ON Google Play</p> <p>visit @ www.edufiitech.com</p>	 <p>Dashboard</p> <table border="1"> <thead> <tr> <th>#</th> <th>Disease</th> <th>Symptoms</th> <th>Treatment</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>verruca</td> <td>Itches, loss of balance, itching, tick</td> <td>Practicing exercise, avoid stress, eat healthy</td> <td>View</td> </tr> <tr> <td>2</td> <td>tonsillitis</td> <td>Sore throat, swollen lymph nodes, difficulty swallowing</td> <td>Rest, hydration, pain relievers, antibiotics</td> <td>View</td> </tr> <tr> <td>3</td> <td>retinitis</td> <td>Inflammation of the retina, blurred vision, floaters</td> <td>Eye drops, laser treatment, surgery</td> <td>View</td> </tr> <tr> <td>4</td> <td>asthma</td> <td>Cough, wheezing, chest tightness, shortness of breath</td> <td>Avoidance of allergens, inhalers, steroids</td> <td>View</td> </tr> </tbody> </table>	#	Disease	Symptoms	Treatment	Action	1	verruca	Itches, loss of balance, itching, tick	Practicing exercise, avoid stress, eat healthy	View	2	tonsillitis	Sore throat, swollen lymph nodes, difficulty swallowing	Rest, hydration, pain relievers, antibiotics	View	3	retinitis	Inflammation of the retina, blurred vision, floaters	Eye drops, laser treatment, surgery	View	4	asthma	Cough, wheezing, chest tightness, shortness of breath	Avoidance of allergens, inhalers, steroids	View
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<b>Mentor:</b> Sudipta Sahana	<b>Mentor:</b> Sudipta Sahana	<b>Mentor:</b> Sudipta Sahana																									
<b>Outcome:</b> There will be an android application and website. No paperwork will be required every details will be stored in database.	<b>Outcome:</b> Aspirants will be able to pursue online courses Revenue can be earned by providing online education.	<b>Outcome:</b> This project once build will help the people to earn money in different ways.  Contributing towards a clean environment with maximizing the ways the needy people can be helped by.																									

## Department of Computer Science Engineering




Project ID	Project Title	Name of the students	Year	Name of the Supervisors
CSE01	Edufii	Aman Adarsh	3 <sup>rd</sup>	Mr. Sudipta Sahana
		Gourav Keshari	3 <sup>rd</sup>	
		Amit Kumar Agrwal	3 <sup>rd</sup>	
		Mahen Saha	3 <sup>rd</sup>	
		Ali Shiraz Akhter	3 <sup>rd</sup>	
		Ankita Roy Chowdhury	3 <sup>rd</sup>	
CSE02	Waste Management: A solution towards good life	Sayan De	4 <sup>th</sup>	Mr. Sudipta Sahana
		Arnab Biswas	4 <sup>th</sup>	
		Prateek Das	4 <sup>th</sup>	
		Anima Tripathy	4 <sup>th</sup>	
		Renesa Ghosh	4 <sup>th</sup>	
		Silpi Ghosh	4 <sup>th</sup>	
CSE04	Mentorship Platform	Rishav Sen	3 <sup>rd</sup>	Mr. Sudipta Sahana
		Ravi Raj Bandhu	3 <sup>rd</sup>	
		Snehansh Chaturvedi	3 <sup>rd</sup>	
		Anik Mandal	3 <sup>rd</sup>	
		Shubham Anand	3 <sup>rd</sup>	
		Gourav Chatterjee	3 <sup>rd</sup>	
CSE05	Automatic Plant Watering and Filling Tanks (Home Automation)	Nivedita Pandit	3 <sup>rd</sup>	Mr. Apurba Paul & Mr. Sumanta Chatterjee
		Nandita Gupta	3 <sup>rd</sup>	
		Sattik Das	3 <sup>rd</sup>	
		Ramaadyuti Battabyal	3 <sup>rd</sup>	
		Anjali Ray	3 <sup>rd</sup>	
		Azhar Maqbool Ansari	3 <sup>rd</sup>	

<b>Department of Computer Science Engineering</b>				
<b>Project ID</b>	<b>Project Title</b>	<b>Name of the students</b>	<b>Year</b>	<b>Name of the Supervisors</b>
CSE06	Patient case similarity	Ankita Roy	3 <sup>rd</sup>	Mr. Sudipta Sahana
		Arghya Bhowmick	3 <sup>rd</sup>	
		Akriti Jha	3 <sup>rd</sup>	
		Anshu Kumar Shandilya	3 <sup>rd</sup>	
		Kaustav Chakraborty	3 <sup>rd</sup>	
		Mohiuddin Ansari	3 <sup>rd</sup>	
CSE07	DTMF based robot controller	Prithwijit Das	2 <sup>nd</sup>	Dr. Dharmpal Singh
		Suravi Kar	2 <sup>nd</sup>	
		Shashank Kumar Bharti	2 <sup>nd</sup>	
		Shrijoyee Roy	2 <sup>nd</sup>	
		Shiwanshu Kumar Jha	2 <sup>nd</sup>	
		Josimuddin Mullick	2 <sup>nd</sup>	
CSE08	IoT Prototype for LPG Leakage Detection & Prevention	Subhayan Sarkar	1 <sup>st</sup>	Dr. Souvik Pal
		Anusua Biswas	1 <sup>st</sup>	
		Srirup Lahiri	1 <sup>st</sup>	
		Amitabha Dawn	1 <sup>st</sup>	
		Subhabrata Panda	1 <sup>st</sup>	
		Arghyadeep Dolui	1 <sup>st</sup>	
CSE09	Auto Irrigation Pump	Devarghya Chakraborty	2 <sup>nd</sup>	Mr. Apurba Paul & Mr. Sumanta Chatterjee
		Aindrila Das	2 <sup>nd</sup>	
		Shyam Mohan Kunwar	2 <sup>nd</sup>	
		kumari sakshi	2 <sup>nd</sup>	
		Smriti Pragya	2 <sup>nd</sup>	
		Nihal Anand	2 <sup>nd</sup>	
CSE10	Energy-Efficient Smart Street light System	Meghna Verma	3 <sup>rd</sup>	Dr. Souvik Pal
		Amisha Singh	3 <sup>rd</sup>	
		Md Faisal	3 <sup>rd</sup>	
		Mrinmoy Bairagya	3 <sup>rd</sup>	



Department of Chemistry		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Tanmoy Dutta	
<b>No. of participated project</b>	6	
<b>First Position: ID CHEM 03</b>	<b>Second Position: ID CHEM05</b>	<b>Third Position: ID CHEM02</b>
<b>Rebirth of batteries</b>	<b>Li-Fi</b>	<b>An Innovative way to solve pure water crisis by solar driven Atmospheric Water Generator</b>
<b>Objective:</b> A conductive paint made from the residues of a dry cell battery (not alkaline) for electronic circuits, where it can be used to make and evolves various electronic circuitry. Not only electronic circuitry, this product can be also used for temporary repairing of various circuit boards	<b>Objective:</b> In this case Li-Fi (Light Fidelity) is a great technology which comes to play. This technology is not only faster and robust but also end-to-end encrypted because it will not only have the encryption system used in the Wi-Fi but by nature.	<b>Objective:</b> To get pure drinking water where the groundwater is contaminated with heavy metals due to over exploitation. To reduce water purification cost as water is created from moisture directly
		
<b>Mentor:</b> Jit Chakraborty	<b>Mentor:</b> Ananya Barman & Ranjana Ray	<b>Mentor:</b> Dr. Trina Dutta
<b>Outcome:</b> For society, there is an opportunity to make a contribution to conservation of nature by reusing the dry batteries in a new alternative way. The product will help those who have a difficulties in electronics hardwires.	<b>Outcome:</b> The product will be cost effective and it will use the existing device to built the newer technology which will be faster and end to end encrypted and safe which will not use any sort of radio frequency rather it will use visible light to transmit data.	<b>Outcome:</b> This project will reduce pure water crisis and carbon emission as well. It has great implication for society and environment.

<b>Department of Chemistry</b>				
<b>Project ID</b>	<b>Name of the Project</b>	<b>Name of the Student</b>	<b>Year</b>	<b>Name of the Supervisors</b>
Chem 01	Smart Irrigation	Sattwama Basu	1 <sup>st</sup>	Tanmoy Dutta
		Salma Hasan		
		Bijeta Lama		
		Pooja Halder		
		Rahul Debnath		
		Ramesh Kumar Yadav		
Chem 02	Atmospheric Water Generator	Aritra Choudhury	1 <sup>st</sup>	Trina Dutta
		BitanKundu		
		Soham Sarkar		
		HrithikBasu		
Chem 03	Rebirth Of Battery	Deb Sekhar Roy	1 <sup>st</sup>	Jit Chakraborty
		Debraj Paul		
		Aftab Khan		
Chem 04	The Saline Specialists	Shubhankar Sabal	1 <sup>st</sup>	Jit Chakraborty
		Tanmoy Sarkar		
		Sourav Das		
		Sneha Dutta		
		Sayantani Mondal		
		Srijita Das		
Chem 05	Light Fidelity (Li-Fi)	AyushKhamrui	1 <sup>st</sup>	Ananya Barman & Ranjana Ray
		Aniket Saha		
		Basab Kiran Saha		
		Arnab Basu		
		Anusweta Roy		
		Hemant Kumar		
Chem 06	Gesture Controlled Car	Sourav Mondal	1 <sup>st</sup>	Trina Dutta
		Subrata Jana		
		Niladri Bose		
		Tirthankar Dutta Roy		
		Shreyasi Ghosh		

<b>Department of Electrical Engineering</b>		
<b>Event Type</b>	JISTech2K19 Project	
<b>Coordinator Name</b>	Sudip Das	
<b>No. of participated project</b>	12	
<b>First Position: ID EE05</b>	<b>Second Position: ID EE 03</b>	<b>Third Position: ID EE 04</b>
<b>IOT BASED FLOW METER WITH SMART BILLING SYSTEM</b>	<b>SMART CAP FOR SPECIALLY ABLED PERSON</b>	<b>AUDIO GUIDE FOR PATIENT REGARDING DOCTOR'S PRESCRIPT</b>
<b>Objective:</b> Design & implementation of smart water billing system to prevent misuse of water.	<b>Objective:</b> Smart Cap is an assistant for the visually impaired that is designed to know the obstacles on his destination.	<b>Objective:</b> This project will help doctor's instruction to the patient in form of barcode system.
		
<b>Mentor: Sudip Das</b>	<b>Mentor: Sudip Das</b>	<b>Mentor: Sudip Das</b>
<b>Outcome:</b> The main aim of this system to avoid wastage of water & proper billing system in individual user to avoid extra pay for unused water and also reduce human error in the system.	<b>Outcome:</b> This system will help especially able person for his normal life.	<b>Outcome:</b> This system will change the procedure of doctor's advice to the patient & that recorded in prescription in form of bar code.

Department of Electrical Engineering				
Project Id	Title	Name of the Student	Year	Name of the Supervisors
EE01	Hydro-Solar & Smart Power	Avijit Maitra	2 <sup>nd</sup>	Abhishek Dhar
		Krishnendu Jana		
		Tiyasha Patra		
		Ambuj Shukla		
		Akash Chatterjee		
EE02	Battery Rental System	Subhojyoti Majumder	2 <sup>nd</sup>	Abhishek Dhar
		Swagata Ghosal(1st Yr)		
		Deeptesh Debnath		
		Sandipan Ganguly		
		Rahul Singh		
EE03	Smart Cap For Specially Abled Person	Tanmoy Roy	4 <sup>th</sup>	Sudip Das
		Sourav Das		
		Prasad Chatterjee		
		Sunil Kumar Pandey		
		Soumava Kundu		
		Samhita Das		
EE04	Iot Based Flow Meter With Smart Billing System	Souvik Bhandari	3 <sup>rd</sup>	Sudip Das & Arindam Banerjee
		Pritam Saha		
		Nilashis Karmakar		
		Paramita Sarkar		
		Piyasa Das		
		Arnab Charit Modak		
EE05	Audio Guide For Patient Regarding Doctor's Prescript	Anupam Chakraborty	3 <sup>rd</sup>	Sudip Das
		Rayatri Dutta		
		Kushal Saha		
		Md Afridi		
		Anik Banerjee		
		Rajdeep Ray		
		Ruchika Nalin		

<b>Department of Electrical Engineering</b>				
<b>Project Id</b>	<b>Title</b>	<b>Name of the Student</b>	<b>Year</b>	<b>Name of the Supervisors</b>
EE06	Speaking System For Dumb People By Using Hand Gesture	Ayan Roy	2 <sup>nd</sup> DEE	Sudip Das
		Tiyasa Sharma		
		Biprotip Roy		
		Sourav Karmakar		
		Bikram Biswas		
EE07	Smart Data Transfer	Suman Kumar Sarma	2 <sup>nd</sup> DEE	Milan Sasmal & Sudip Das
		Prasun Karmakar		
		Hriday Debnath		
		Shreyashi Majumder		
		Arunaba Sil		
EE08	Automatic Light Control Using Ardiuno And Pir Sensor	Arindam Das	1 <sup>st</sup> DEE	Indranil Khusary
		Mouli Moitra		
		Vishal Roy		
		Poulam Saha		
		Debarghya Das		
EE09	Fm Transmitter	Poulami Samajpati	2 <sup>nd</sup> DEE	Swastik Mandal
		Debdol Sarkar		
		Sandipan Biswas		
		Subhrajit Das		
		Roumyadipta Ganguly		
		Bilash Biswas		
EE10	Anti-Thieft Wallet	Debamoy Datta	3 <sup>rd</sup>	Sudip Das & Abhishek Dhar
		Islam Khan		
		Bhaya Jha		
		Prince Kumar		
		Anamika Paul		
		Faiz Akram		
EE11	Motion Control Street Light With Solar	Santosh Raut	1 <sup>st</sup> DEE	Debodyuti Upadhaya
		Atanu Roy		
		Prosanto Midya		
		Subrata Chowdhury		
		Rahul Prasad		
		Ramkrishna Das		
EE12	Automatic Water Level	Rajesh Mondal	2 <sup>nd</sup> DEE	Indranil Khusary
		Srinjoy Das		
		Sadananda Ghoshal		
		Jual Mondal		
		Arnab Karmakar		
		Biswajit Mondal		



Department of Biomedical Engineering		
Event Type		JISTech2K19 Project
Coordinator Name		Swati Sikdar
No. of participated project		4
<b>First Position: ID BME03</b>	<b>Second Position: ID BME 02</b>	<b>Third Position: ID BME 04</b>
<b>PNEUMO SLEEP</b>	<b>GASTRO-ECTO SCOPE</b>	<b>MYO-AID</b>
<p><b>Objective:</b> The objective of this work is to develop a smart and intelligent PNEUMATIC MATTRESS which is fully automated system. Motivation of the work is from the main drawback of the semi operated air mattress which requires manual support.</p>	<p><b>Objective:</b> To set the reference standard of normal gastro myoelectrical activity in various physiological conditions. To develop a diagnostic, non-invasive, cost effective, less intimidating and painless tool for gastric disorders.</p>	<p><b>Objective:</b> The objective of our work is to provide an aid in hand movement of a hemiplegic patient using the healthy electromyography signal acquired from a subject. The unit detects the potential generated by healthy muscles during contraction or relaxation and the signal is the transmitted to the hemiplegic hand. The entire movement identification system is based on EMG signaling</p>
		
<b>Mentor: DR. SANDIP BAG</b>	<b>Mentor: DR. KARABI GANGULY</b>	<b>Mentor: SAYANTI GUHA</b>
<p><b>Outcome:</b> To fight against bedsores, pneumatic mattress will give a new direction. It doesn't require much power and money. It prevents bedsores.</p>	<p><b>Outcome:</b> The electro-gastrogram obtained by our gastro-ectoscope will show the rhythmic activity of stomach from which statistical conclusions will be drawn differentiating between before and after meal activities of the stomach.</p>	<p><b>Outcome:</b> Through this project we are presenting a very advanced form of technique using electromyography that can be utilized in therapeutic applications with many more modifications</p>

## Department of Biomedical Engineering

Project Id	Title	Name of the Student	Year	Name of the Supervisors
BME01	BIO-CAM	1. Sourajit Sen Sharma	4 <sup>th</sup>	Swati Sikdar
		2. Soumili Sarkar	4 <sup>th</sup>	
		3. Khidmat Yonzone	4 <sup>th</sup>	
		4. Sunita Kumari	4 <sup>th</sup>	
		5. Arpan Banerjee	3 <sup>rd</sup>	
		6. Swarup Sonar	2 <sup>nd</sup>	
BME02	GASTRO-ECTOSCOPE	1. Akash Prasad Gupta	4 <sup>th</sup>	Dr. Karabi Ganguly
		2. Shikha Bhati	4 <sup>th</sup>	
		3. Reshav Prasad Saha	4 <sup>th</sup>	
		4. Partha Nandi	4 <sup>th</sup>	
		5. Swastik Barat	3 <sup>rd</sup>	
		6. Shalini Shaw	3 <sup>rd</sup>	
BME03	PNEUMO-SLEEP	1. Abhijit Dey	4 <sup>th</sup>	Dr. Sandip Bag
		2. Koumudi Bhattacharjee	4 <sup>th</sup>	
		3. Md. Wasim Hossain	4 <sup>th</sup>	
		4. Pradipta Maji	4 <sup>th</sup>	
		5. Sibaji Dey	3 <sup>rd</sup>	
		6. Debalina Bhaumik	3 <sup>rd</sup>	
BME04	MYO-AID	1. Shrestha Bardhan	4 <sup>th</sup>	Sayanti Guha
		2. Supriya Debnath	4 <sup>th</sup>	
		3. Satyajit Mahato	4 <sup>th</sup>	
		4. Shirsendu Hui	4 <sup>th</sup>	
		5. Sriya Sona Lenka	3 <sup>rd</sup>	
		6. Ipshita Dey	2 <sup>nd</sup>	

<b>Centre for Management Studies</b>		
<b>Event Type</b>	<b>JISTech2K19 Project</b>	
<b>Coordinator Name</b>	<b>Uttiya Kar</b>	
<b>No. of participated project</b>	<b>6</b>	
<b>First Position: ID CMS08</b>	<b>Second Position: ID CMS04</b>	<b>Third Position: ID CMS05</b>
<b>ANY-BOT</b>	<b>Mini Cooler</b>	<b>Taste from Waste</b>
<b>Objective:</b> In this project, we had made an advanced technology that will help to solve the problem like cleaning environment, bomb defusing, will help to entertain kids and last it is used for educational purposes.	<b>Objective:</b> Our main objective to help the people who cannot afford at high rates, it is also an eco-friendly product and with the use of solar panel consumer can also run without electricity.	<b>Objective:</b> 1. In this project, we converted waste product to edible food 2. Spreading awareness about biodegrade. 3. Creating self-help group
		
<b>Mentor: Anindya Guha</b>	<b>Mentor: Anindya Guha</b>	<b>Mentor: Uttiya Kar</b>
<b>Outcome:</b> Our project, main aim to produce at low cost as in market a robot price is very high. It is also easy to carry from one place to another as it is small in size and less weight. It has the ability to modify into more advanced technology.	<b>Outcome:</b> Our project, main outcome is to help the people lives in rural and backward areas who suffer during hot summer by providing cool air through mini cooler at a very low cost in the web.	<b>Outcome:</b> This project doesn't require huge investment for startup, environmental friendly; helping society from waste lemon we are making a lemon pickle.

## Centre for Management Studies

Project Id	Title	Name of the Student	Year	Name of the Supervisors
CMS01	Nusanash Wahsheteria	Ashmita Mukherjee	1 st	Uttiya Kar
		Sangita Chowdhury	1 st	
		Nupur Saha	1 st	
CMS03	Tailor Made	Kunal Samadder	1 st	Uttiya Kar
CMS04	Mini Cooler	Mamunoor Mallick	1 st	Dr. Anindya Guha
		Arpan Paul	1 st	
		Amanullah Mondal	1 st	
		Sohini Biswas	1 st	
CMS05	Taste From Waste	Riya Das	1 st	Uttiya Kar
		Puja Prasad	1 st	
CMS06	Farm To Market	Supriti Biswas	1 st	Dr. Anindya Guha
CMS07	Transformers	Surbhi Gour	3rd	Dr. Avik Sanyal
		Arijit Mukherjee	1 st	
CMS08	ANY-BOT	Mamunoor Mallick	1 st	Uttiya Kar

## Department of Civil Engineering

<b>Event Type</b>	<b>JISTech2K19 Project</b>	
<b>Coordinator Name</b>	Kaustav Das	
<b>No. of participated project</b>	06	
<b>First Position: ID CE04</b>	<b>Second Position: ID CE 03</b>	<b>Third Position: ID CE 02</b>
<b>Base Isolation</b>	<b>Plastic Brick</b>	<b>Geogrid an evolution in construction</b>
<b>Objective:</b> In this project, an effort has been made to develop a spring system (base isolation) in the sub structure of a building to mitigates the effect of an earthquake by essentially isolating the structure from potentially dangerous ground motion	<b>Objective:</b> In this project an effort has been made to recycle the plastic waste by using them into bricks those are polluting our environment each day.	<b>Objective:</b> This project can be used to evolutes construction working methods by using Geogrid as reinforcement to soil.
		
<b>Mentor: Mr. Sajal Kumar Paul</b>	<b>Mentor: Mr. Subhojit Chattaraj</b>	<b>Mentor: Mr. Subhojit Chattaraj</b>
<b>Outcome:</b> Dramatic collapse of buildings has been observed after each disastrous earthquake, resulting in loss of life. To prevent such a loss Base isolation is used which enables a building to survive potentially devastating seismic impact by providing flexibility in to the connection between the building and the foundation.	<b>Outcome:</b> Out of 180 countries India stands at 177 <sup>th</sup> position in recycling waste products. And this one is eco friendly and also cost effective. Using this project a lot of waste plastic can be recycled and environmental pollution by waste plastic can be minimized.	<b>Outcome:</b> This would be the evolutionary step in construction procedure where the bearing capacity of the soil will increase by using this geogrid and it is an polysynthetic material having low amount of production.



## Department of Civil Engineering

Project Id	Title	Name of the Student	Year	Name of the Supervisors	
CE01	Tidal Electric Plant	Hydro Power	2 <sup>nd</sup>	Kaustav Das	Akash Roy
					Subhadeep Barai
					Ankan Biswas
					Pritam Bid
					Moutoshi Das
					Remon Roy
CE02	Geogrid		3 <sup>rd</sup>	Subhojit Chattaraj	Aditya Dasgupta
					Bikram Biswas
					Maneesha Roy
					Bhaskar Rao
					Arijit Mahato
					Anindita Chakraborty
CE03	Plastic Brick		3 <sup>rd</sup>	Subhojit Chattaraj	Subhasish Mahajan
					Bishal Ghosh
					Sudipta Debnath
					Chaitali Deb Kanuggo
					Subham Ghosh
					Subhrajit Deb
CE04	Base Isolation		3 <sup>rd</sup>	Sajal Kumar Paul	Kaushik Sarkar
					Subhra Pal
					Sajib Shukla Das
					Ranjita Ghosh
					Rimi Das
					Deepak Singha
CE05	Solar Panel Based JCB		2 <sup>nd</sup>	Kaustav Das	Aniruddha Chakraborty
					Aniket Dey
					Agniv Shaw
					Tuhin Mondal
					Abhinandan Ghosh
					Arindam Mondal
CE06	Room Cooling Technique By Inverted Earthen Pots		2 <sup>nd</sup>	Kaustav Das	Saptaswara Guha
					Subhadip Sengupta
					Subrata Dev
					Ranjit Acharjee
					Sourav Das
					Chowdhury Nahidur Rahaman



<b>Robotics Competition</b>			
<b>Event Name</b>			<b>Robotics</b>
<b>Coordinator Name</b>			<b>Dr. Indranath Sarkar, Mr. Anirban Ghosal</b>
<b>Position held</b>	<b>Event Name</b>	<b>Institute Name</b>	<b>Team Member</b>
1 <sup>st</sup>	SAND ROVER	RCCIT	Arijit Saha Snehasis Naskar Subjadeep Ghosh
2 <sup>nd</sup>		AOT	Arghyadeep Das Dipayan Bhowmick
3 <sup>rd</sup>		NIT	Sagar Patra Sandeep Kr Shaw Debrashan Saha
<b>Position held</b>	<b>Event Name</b>	<b>Institute Name</b>	<b>Team Member</b>
1st	ROBO SOCCER	AOT	Arghyadeep Das Dipayan Bhowmick
2nd		RCCIT	Arijit Saha Snehasis Naskar Subjadeep Ghosh
3rd		JISCE	Supriyo Sarkar Shubham Kumar Soumyadeep Saha Bivas Ranjan Dutta Subhodeep Sarkar
<b>Position held</b>	<b>Event Name</b>	<b>Institute Name</b>	<b>Team Member</b>
1st	DROID BLITZ	JISCE	Supriyo Sarkar Shubham Kumar Subhodeep Sarkar Soumyadip Saha Bibhas Ranjan Dutta
2nd		CIEM	Abhishek Charan Avishek Shaw Karan Mahato Abhishek Mukherjee Arnab Kumar Pati

## Robotics Competition

### Objective:

After the invention of microprocessor interest in automation circuits such as robotics are increasing. Students are getting scopes to participate in tech competitions to showcase their implements. Robotics event in general is organized to select the efficient robot in view of the specific job done within shortest time duration. In JISTech2K19 students committee members of Robotics event has prepared arena for SAND ROVER, ROBO SOCCER and DROID BLITZ.

The aims of these competitions are many and varied, and include providing forums for enthusiasts, promoting scientific and technical education, marketing a particular make of robot, setting manufacturing challenges, etc. In this article, we have opted to categories the most influential competitions according to their objective.



### Outcome:

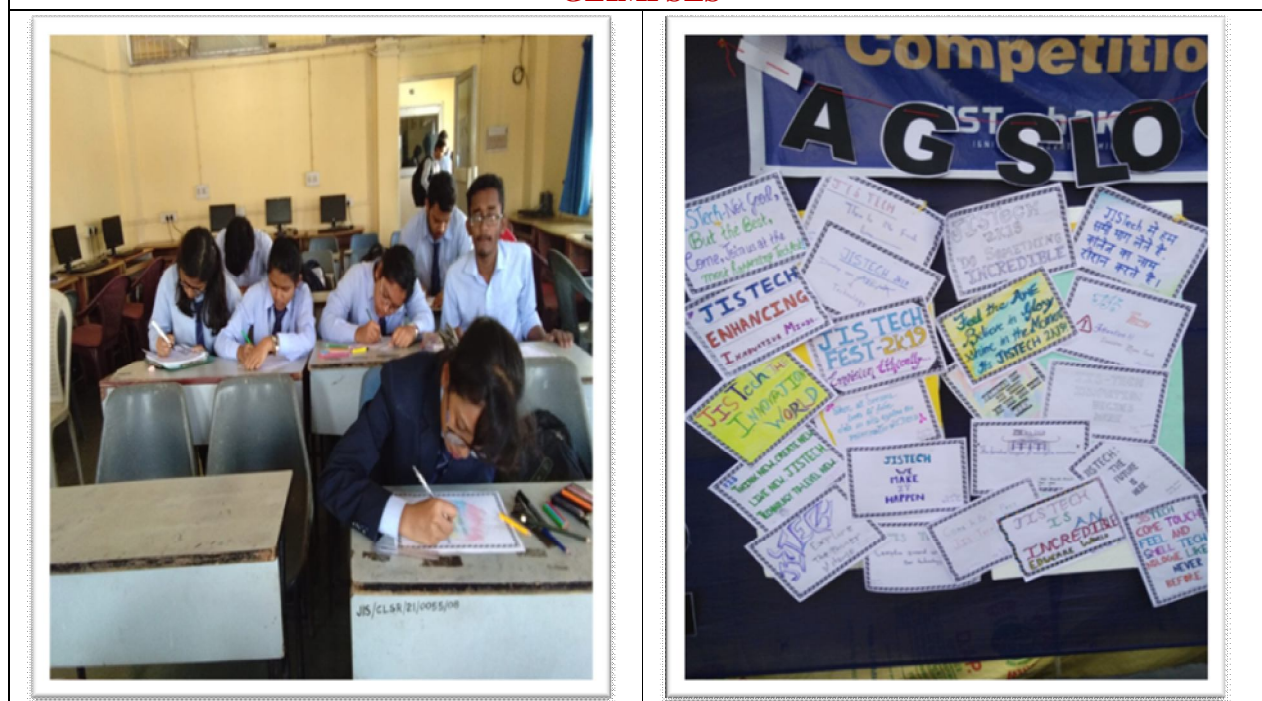
Within this event of Robotics, students learn to make self-learning/adaptive control systems for robots/intelligent systems. Using techniques drawn from nature such as, for example, artificial evolution or artificial neural network, create specific hardware and software that receive a simple form of artificial intelligence. Robotics and Intelligent Systems provides a comprehensive background in both software and hardware to work with the future of robotics and adaptive systems.

This event will maintain and develop scientific curiosity and convey respect for scientific values such as openness, precision, reliability and the importance of distinguishing between knowledge and opinions. Students should at the close of the study be able to reflect on the central, ethical, philosophical and scientific issues in relation to their own and others' work.

## Tag-Slogan Competition

Event Name	Tag-Slogan
<b>Objective:</b> The objective of the event was to hone the students' artistic style of writing and their creativity.	<b>Outcome:</b> The students came up with innovative ideas and participated with great zeal and enthusiasm. They decorated the simple paper with their serious concerns and very creatively wrote different messages using different calligraphic styles.
<b>Coordinator Name</b>	Ms. Adrija Guha, Ms. Ananya Chatterjee Mr. Partha Das
<b>No. of participants</b>	23
<b>Organized by</b>	Art and Literature Society
<b>Topic</b>	JISTECH
<b>First Position : Sneha Shaw</b>	
<b>Department</b>	CSE 1 <sup>st</sup> Year (JISCE)
<b>Second Position : Dwaipayan Saha</b>	
<b>Department</b>	CSE 1 <sup>st</sup> Year (JISCE)
<b>Third Position : Abantika Paul Choudhury</b>	
<b>Department</b>	BCA 1 <sup>st</sup> Year (JISCE)

### GLIMPSES



## Poetry Competition

<b>Event Name</b>	<b>Poetry Competition(Kavyayan)</b>
<b>Objective:</b> The aim of this event was to excite the students' love for various languages, to help them appreciate the beauty of any language as the rhythm of poetry helps to acquire the natural speech rhythm.	<b>Outcome:</b> It laid the foundation for the appreciation of the beauty of poetry from a variety of cultures and languages. It developed their aesthetic sense as well.
<b>Coordinator Name</b>	Adrija Guha, Ananya Chatterjee, Rupashri Barik, Tanmoy Dutta
<b>No. of participants</b>	78
<b>Organized by</b>	Art and Literature Society
<b>First Position : Sudeshna Barat</b>	
<b>Title of the poem: Dharmabhet</b>	Name of the Institution: Kanchrapara Indian Girls' High School
<b>Second Position Shreeshree Sengupta</b>	
<b>Title of the poem: Ablaze Bone</b>	Name of the Institution: JISCE (EE Dept.)
<b>Third Position : Sukhwant Kumar</b>	
<b>Title of the poem: Main Kalyugi Ravan</b>	Name of the Institution: JISCE (ME Dept.)
<b>Special Award : Subham Ghosh</b>	
<b>Title of the poem: Tumi Sudhui Bhumika</b>	Name of the Institution: JISCE (ECE Dept.)
<b>Special Award : Debalina Bhaumik</b>	
<b>Title of the poem: Chondoheen</b>	Name of the Institution: JISCE (BME Dept.)

### GLIMPSES





## Code Fluenza Competition

<b>Event Name</b>	<b>Code Fluenza</b>
<b>Objective:</b> To engage Engineering Students in Deep Learning through this Coding Competition. To encourage students delivering their best in a cross-college platform.	<b>Outcome:</b> Students get inspiration to be able to find own coding capability. Get exposure to compete against students from different colleges in a healthy way.
<b>Coordinator Name</b>	Aniruddha Biswas & Sumit Das
<b>First Position :</b> Amit Nandi, JIS College of Engineering	
<b>Second Position :</b> Ravi Raj Bandhu, JIS College of Engineering	
<b>Third Position :</b> Prasanna Thapa, MAKAUT	

### GLIMPSES



## Wall Magazine Competition

<b>Event Name</b>	Wall Magazine
<b>Objective:</b> To express student's creativity, thoughts, innovative representation on theme.	<b>Outcome:</b> Increase interaction between students by having regular communication through team work and showcase their creative thoughts.
<b>Coordinator Name</b>	Tanusree Saha, Adrija Guha
<b>No. of Wall Magazine</b>	32

**First Position : ONEIRATAXIA from Civil Engineering Dept.**

**Second Position : Finding Roots from Information Technology Dept.**

**Third Position : Med-Tech Bridging from Bio Medical Engineering Dept.**

### GLIMPSES





## DIG-CAD Competition

<b>Event Name</b>	DIG-CAD
<b>Objective:</b> This competition was held so that participating students would get familiarized with drawing of engineering components in both 2D and 3D, in AUTOCAD. This would enable them to deepen knowledge and skills in relevant area. This competition would hopefully inculcate a sense of time management, accuracy and a strong hold of the software.	<b>Outcome:</b> An unbiased healthy competition ensured enhancement of skills and knowledge about AUTOCAD amongst the students.
<b>Coordinators</b>	Arnab Kundu Dr. Sandip Ghosh
<b>Total Participants</b>	106

**First Position : Sayan Basak**

**Second Position: Sumit Prasad**

**Third Position: Snehasish Mukherjee**

### GLIMPSES



## Event App-E-Teaser

<b>Event Type</b>	Event App-E-Teaser
<b>Coordinator Name</b>	Annwasha Banerjee
<b>No. of participated project</b>	07(groups) 24 participants
<b>First Position Project ID AET7</b>	
<b>Project Name: E Commerce Platform</b>	
<b>Objective:</b> The main objective is to develop a mobile application for providing open platform for all kind of products from garments to books.	<b>Outcome:</b> They have developed the intended apps. As there is currently any kind of that app is not available which can provide all kind of product under a single tag, like say Amazon is good for books but not for all kind of product.

### Photos of project/model



## Event App-E-Teaser

**Second Position Project ID AET06**

**Project Name: Augmented Reality**

**Objective:** The objective of the app is to create an virtual environment for providing guidance and idea regarding different path and objects

**Outcome:** They have prepared an app that will show a 3D virtual entity, like suppose a child is learning A for apple then the Apple object will be displayed in 3d shape.

### Photos of project/model



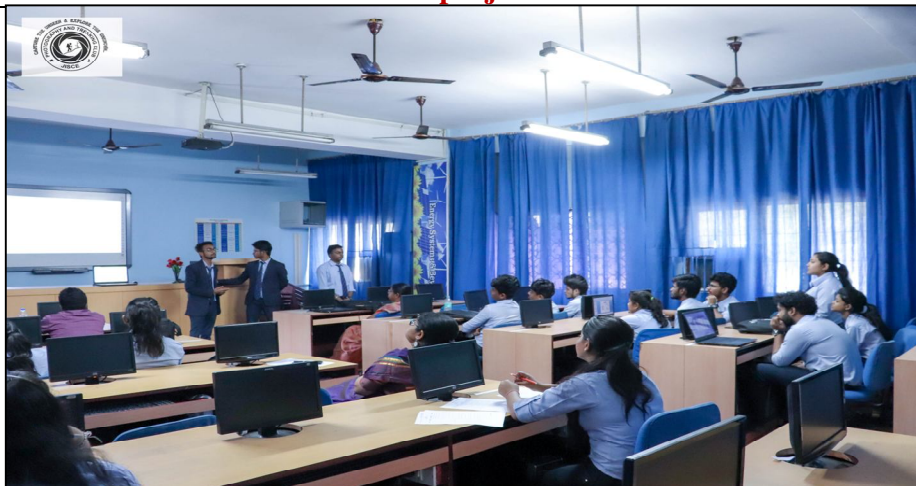
**Third Position Project ID AET 01**

**Project Name: Educational App**

**Objective:** The objective of the project is proving assistance for education form primary to higher education

**Outcome:** They have developed an app that provides all kind of educational help form materials to video, questions etc. from primary to technology study.

### Photos of project/model





## Debate Competition

<b>Event Type</b>	<b>Debate</b>
<b>Objective:</b> The primary objective of debate competition was for students to generate effective critical thinking into primary issues in the given topics.	<b>Outcome:</b> Participants share their views in excellent way with their critical thinking in the given topics.
<b>Coordinator Name</b>	Rupasree Barik , Sonalı Bhattacharyya, Dr. Rimi Ghosh
<b>No. of participants</b>	25
<b>First Position</b> Jeeta Makhal, ECE Dept.	
<b>Second Position</b> Prasenjeet Kumar Singh, IT Dept.	
<b>Third Position</b> Akash Prasad Gupta, BME Dept.	



<b>Gaming - Gametrek</b>	
<b>Event Type</b>	<b>Gaming - Gametrek</b>
<b>Department</b>	<b>All</b>
<b>Coordinator Name</b>	<b>Jit Chakraborty Avik Sanyal Apurba Paul Samiran Roy</b>
<b>Total no. of participants</b>	<b>550</b>
<b>Game Name: PUBG Mobile</b>	
<p><b>Objective:</b> The main aim of this game is to survive and be the one to get the Chicken Dinner. Player Unknown's Battlegrounds (PUBG) is an online multiplayer battle royal game developed and published by PUBG Corporation, a subsidiary of South Korean video game company Tencent games.</p> <p><b>Outcome:</b> The winner/squad gets “Chicken Dinner” at the end of the game. The winners were felicitated with trophies, certificates and cash prizes.</p>	
<b>Winners – Team Psycho Killers</b>	
<b>Game Name: Counter Strike GO</b>	
<p><b>Objective:</b> It is a first person shooter in which players attempt to accomplish the objective of the game mode by killing enemy players, planting bombs, or getting kills with a succession of weapons. In round-based game modes, players begin each round by purchasing equipment with money earned in previous rounds. Various weapons are available to players and the various maps have different routes the players can use to reach the objectives.</p> <p><b>Outcome:</b> The winners were felicitated with trophies, certificates and cash prizes.</p>	
<b>Winners – Team PTA</b>	
<b>Game Name: Fifa</b>	
<p><b>Objective:</b> It is a one to one computer game where the opponent has to score more number of goals than the other.</p> <p><b>Outcome:</b> The winners were felicitated with trophies, certificates and cash prizes.</p>	
<b>Winner – Partha Sarathi Chakraborty</b>	

## B-Plan

<b>Event Type</b>	B-Plan, IDEA, JISTech2K19
<b>Coordinator Name</b>	Swati Pal Abhishek Dhar
<b>No. of participated project</b>	08

B-Plan, Idea Development for Entrepreneurial Applications, IDEA, 2K19, is being organized since the inception of JISTech Symposium. B-Plan-IDEA competition provides a common platform to ignite and articulate the entrepreneurial ideas of future entrepreneurs. The B-Plan IDEA aims to bring forth the innovative ideas that can be nurtured and given shape into real business having positive social impact. This time B-Plan IDEA was a grand success as it received two sponsorships; one from Enterprise Development Institute, EDI, Kolkata and another from LegalSalah.

EDI offered sponsorship of Rupees 3000, Rupees 2000, and Rupees 1000 to top three winners and Legal Salah offered cash vouchers worth Rupees 20,000, Rupees 1000 to the winners.

Mr. Basudeb Banerjee, Sr. Coordinator, EDI, Kolkata and Mr. Sujit Kr. Jha, CEO, LegalSalah graced the event with their presence. They extended their valuable time to judge and identify the three most promising Business Plans from the lot.

### BRIEF ABOUT WINNERS AND THEIR PLANS

**First Position:**      **Sibaji Dey (3rd Year).**      **Department - Biomedical Engineering.**

**Title:** Farming Using No Soil and 90% less water.

**Abstract:** In 21st Century, Technology has shown its impact on all sector of society else than our Agriculture sector. As urban populations of India continues to rise, we need to looking beyond traditional farming as a way to feed everyone while having less impact on our land and water resources. Our Traditional farming got many drawbacks starting from absurd using of our most valuable natural resource Water, degrading the quality of soil by the usage of Pesticides and fertilizers, destruction of crops by rodents and many more. Vertical farming is one solution that can be implemented to tackle down that problem. Vertical farming would use no Soil, no Sunlight for growing crops. Sound like a dream right ? No, Vertical Farming uses the principle of Hydroponics and LED of particular Wavelength for farming. Since the population of India is estimated to grow up to 1.4 Billion by 2025, Vertical Farming is surely one of the Business plan which can see be seen growing.

**Objective:** to use the principle of Hydroponics and LED of particular Wavelength for farming.

**Outcome:** Vertical farming would use no Soil, no water, no Sunlight for growing crops leading to less impact on our land and water resources.





## B-Plan

**Second Position: Surbhi Gour, Shubhajit Chakraborty & Ankita Prajapati (3<sup>rd</sup> Year)**

Department – Department of Business Administration

**Title: Transformers- Transformation of plastic into bricks and petrol.**

**Abstract:** The process involves modular platform that is portable and designed to run on gas or electric. This machine does not even need plastic to sort/ wash. It just compresses plastic scraps directly into bricks. The non- toxic production process reduces 95% lower green house gas emission compared to country blocks.

**Objective:** Setting up a firm that will reduce pollution by mud bricks and transform world’s biggest concern into useful product.

**Outcome:** Eco-friendly and fuel efficient pollution free production. No coal and agricultural soil are used. A business plan with less land requirement, low investment and environment friendly product by using non-biodegradable wastes and produces 20K-30K of bricks per day



**Third Position: Imran Roshan(First Year)**

Department: Department of ECE

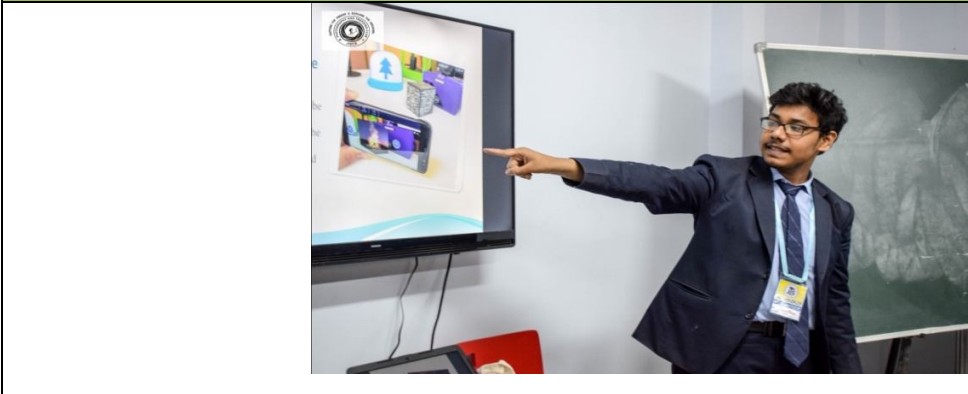
**Title: Artificial Intelligence And Augmented Reality In Medical Rehabilitation**

**Abstract:** We plan to infield a character acting as a personal health monitoring device and advisor. A pictorial idea of the character of maybe a cartoon character. An input tracker connected via Bluetooth to your fitband specially designed as an extension to the health cube which transfers heart rate levels, steps walked, calories burnt and other important aspects as possible in recording.

**Objective:** Bringing the components of the digital world into the real existence for a person in real life by means of real world display by the integration of intriguing sensations making it the part of the residing environment and thus a lasting impact on the user. Creating an immersive mixed reality platform.

**Outcome:** This method of rehabilitation using the concepts of computer ethics and machine learning including social computing is proved to have a 17 percent effectiveness rate than traditional rehabilitation procedures providing a speedy and properly managed rehabilitation process. The rehabilitation involvement of human beings in form of a doctor checkup is also included by this method.

**B-Plan**



**Few more moments**





## I like my JISTech

<b>Event Type</b>	<b>“I like my JISTech”</b>
<b>Coordinator Name</b>	<b>Jit Chakraborty Tanusree Saha</b>
<b>No. of Students Participated</b>	<b>62</b>

In the event “I like my JISTech”, total 62 nos. of students were participated for the competition. They share the pictures of previous years Tech-Fest photography on their Face book wall with #i like my JISTech to promote this prestigious event. On the basis of likes and shares obtained, points had been calculated as follows: 1 Like = 1 point , 1 Share = 5 points.

Minimum 100 points obtained from the post was considered as eligibility criteria for evaluation.

### Winners of this event are:

- Winner:** Koyel Rudra Paul, BME Dept.  
**1st Runner Up:** Manjeer Bhattacharya, BME Dept.  
**2<sup>nd</sup> Runner Up:** Amit Das, CSE



## School Pavilion

<b>Event Name</b>	<b>School Pavilion</b>
<b>No. of School</b>	<b>13</b>
<b>First Position : Hooghly Collegiate School</b> Project → SAVE (Safety & Alert for Vulnerable Emergency),	
<b>Second Position (joint): St. Lawrence school - Kolkata &amp; St. Mary's secondary school-Chakdaha</b> Project → Brake Before You Break & Sewage Treatment Plant	
<b>Third Position : Chandernagore Kanailal Vidyamandir</b> Project → Internet Devices For Our Safety,	

### GLIMPSES





## JISTech2K19- 5<sup>th</sup> International Technical Symposium 2019

Zone	Name of School	Project Name
Chakdaha	1. St. Mary's Secondary School	PROJECT : Sewage Treatment Plant  PROJECT : Working model of a Wind Turbine
	2.Sahishpur Kiranbala Vidyamandir- Chowgacha	PROJECT: Smart House
Kanchrapara	3. Indian Girls High School	PROJECT: Don't refuse- its Re-use
Halisahar	4. Halisahar Adarsha Vidyapith	PROJECT: An ideal eco-friendly village –Our future destiny
		PROJECT: A Working model of Submarine
		PROJECT: Miniaturized Power Generator
Kalyani	5. Springdale High School	PROJECT: Cell Division: Mitosis & Meosis  PROJECT: Inverter  PROJECT: Air Conditioner
	6. Experimental High School	PROJECT: Hydraulic Bridge  PROJECT: Vacuum Cleaner or Blower
Kolkata	7. St. Lawrence School-Kolkata	PROJECT: Brake before you Break
Ranaghat	8. Nasherkuli Netaji Vidyalaya	PROJECT: Water Recycling & Power Generating
	9. Uzirpukuria High School, Uzirpukuria-Nadia	PROJECT: Eco-friendly House
Chandan-nagar	10. Chandernagore Kanailal VidyaMandir	PROJECT: Protect your lungs against pollutants
		PROJECT: Internet Devices for our safety
Kanchrapara	11. Kanchrapara Harnett High School	PROJECT: Mini Earthquake Indicator
Chinsurah	12. Hooghly Collegiate School	PROJECT: SAVE (Safety & Alert for Vulnerable Emergency)
Memari	13. Memari Rasiklal Smriti Balika Vidyalaya	PROJECT: Drill without Dust

## College Pavilion

Event Name	College Pavilion
No. of participated colleges	09
No. of projects submitted	14

### FIRST POSITION

**Student:** Tanmoy Pal, Mahesh Singh, Sourav Laha, Awadhesh Prajapati, Avinash Prajapati, Subham Shah, and Arijit Naskar.

**Project:** 'LPG Leakage Detector with GSM Mobile'

**College:** Regent Institute of Science and Technology

### SECOND POSITION

**Student:** Soumya Subhra Biswas, Tathagata Das, Sukanys Dasgupta

**Project:** Scimitar

**College:** Narula Institute of Technology

### THIRD POSITION

**Student:** Arijit Das and Souradeep Das.

**Project:** Spark Smart Personal Assistance

**College:** Narula Institute of Technology



## College Pavilion

### Name of the institutions participated in JISTECH2K19:

1. Narula Institute Technology
2. JIS School of Polytechnique
3. Abacus Institute of Engineering and Management
4. Regent Institute of Science and technology
5. Dr. Sudhir Chandra Sur Degree Engineering College
6. Guru Nanak Institute of Technology
7. Swami Vivekananda Institute of Science and Technology
8. Camellia Institute of Polytechnic
9. Asutosh College

### Projects name:

'Vehicle Informative Spectacle', 'Energy Generator', 'Smart Vehicle Safety System', 'Humidity Sensor', 'SpyDro: Done Over Internet', 'RF-ID Based Attendance System', 'Occupancy Sensor', 'Smart Street Light Control', 'Home Automation Using Arduino', 'Bio-Safe ATM', 'Paper Cutting Machine', 'IOT BASEd Home Automation', 'Paper Generation from Speed Breaker', 'Sensor Based Security System'



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