

## PROJECTS SUPPORTED BY L J NEWGEN IEDC (2017-18)

Sr. No	Team/Project Description	Project status at beginning of the Year	Interventions made	Current status	Photographs
1	<b>ADVANCE DATA MONITORING SYSTEM</b>	1. have set up a network of 41 unites in various rooms of l,j campus and the entire data of AC usage is being recorded on the website. 2. students are working on the next version of this device which will be powered with WIFI system	allowed students to implement their IoT device in 50+ classrooms of L J.	Work is in progress to make this project on wifi so that the major problem of wiring modification is removed.	
2	<b>QUICKPICK</b>	1. students have developed the next version of this product and have brought down their manufacturing cost 2. a simple mechanism has been worked on	Through various mentoring sessions, the design of machine was modified to make it simple and cost effective	A new prototype has been manufactured and given for user testing	
3	<b>STAIR CLIMBING CART</b>	Developed two Market ready prototype. 1. one will be used for industrial weight lifter with stair climbing abilities. 2. Second one is dustbin with stair climbing abilities.	We connected them with various industries who can be their clients	They are ready with their prototypes. will now go for commercialization	
4	<b>DIGITAL WATER METER</b>	1. one prototype has been developed and deployed in a 2 inch pipe for continuous monitoring of water usage. 2. the group is now working to develop indigenous design of the water sensor	they are facing a lot of competition in the market in terms of product acceptance. so we have asked them to do a complete washroom automation instead of just working on a water meter	the prototype of washroom automation will be ready in a month.	

5	<b>INSTANT WATER COOLER</b>	1. Developed 2 working prototypes for trial and errors.	the major problem faced is the commercialization and aesthetic design of this product for which we are consulting design firms	the students have developed a working prototype	
		2. Working with the industrial mentors for better and efficient development			
6	<b>CUSTOMISED MOMENTO</b>	the team had the idea of making customized mementoe	continuous monitoring and improvements in design	Have developed more than 200 models of customised Momentos. And all of the designed momentos are market ready. 1. they have already started selling their products. 2. Their have also added various technologies and innovative ideas to their Products	
7	<b>DIVIDER PAINTING MACHINE</b>	1. An advance version of divider painting machine has been developed.	the team is facing issues in automation of machine and thus we connected them with 2-3 automation companies	they are working on automatic divider panting mechanism	
		2. it is a semi automatic machine which will be converted into automatic machine very soon			
8	<b>(ATTENDANCE USING FACE DETECTION)</b>	1. the group has achieved 90% accuracy in face detection.	getting accurate results was a major challenge and thus we connected them with relevant mentors.	they are now working on a neural network to optimize the performance of their system	
		<b>TRINETRAM</b>			
		2. the system has been deployed to mark attendance in L.J Campus for testing purpose.			
9	<b>BOTTLE FILLING PLANT</b>	1. The group has started final manufacturing of the plant.	1. The plant is complete and we have provided a platform to them for testing their machine.	The plant is currently under testing and will soon go for patent filing and commercialization.	
		2. the plant is expected to be completed by the end of april 2018	2.They were connected with an automation industry to work on their problems of cycle timing and production		

10	<b>AUTOMATIC TISSUE DISPENSER</b>	<p>1. The group is working on the final aesthetic design.</p> <p>2. the group has been provided exposure in the areas of marketing, finance, human resource for overall development as a start up.</p>	<p>the group is facing major challenges in proper aesthetic design of their mechanism.</p> <p>we connected them with 3 agencies but their cost of consultancy is high.</p>	<p>the students have order a similar product which has a problem of automatic cutting and are now working on it to arrive at their final design.</p>	
11	<b>ESM- a modified electric rickshaw</b>	<p>1. the students have built one prototype and are working on the design of their next prototype</p>	<p>1. we made them analyze the current indian EV market and then.</p> <p>2. we also sent them to delhi to make manufacturing contacts</p>	<p>the students have now made their own electric rickshaw which is more efficient.</p>	
12	<b>Garbage collector trolley</b>	<p>1. students have built a basic prototype.</p>	<p>we them made them to redesign their product by inputs</p>	<p>The prototype has been developed and is currently being used at I.j campus</p>	
13	<b>Gemini</b>	<p>1. students had an idea of building a web portal for mass registration for huge events</p>	<p>we connected them to various technical and business mentors</p>	<p>students have built a Mass registration system and their system is ready</p>	
14	<b>Surface Cleaning Machine</b>	<p>1. A multifunctional surface cleaning machine, which simultaneously does sweeping, mopping &amp; drying</p>	<p>focused mentoring and design thinking training helped them conclude with their final design for the product</p>	<p>they are now manufacturing their final prototype</p>	

15	<b>Glass Concrete</b>	they had the idea and a prototype of using glass powder in concrete for weight and cost saving.	initially they wanted to use it for structural member. upon mentoring they decided to use it only for non structural members	they have registered their firm and already have orders worth 5 lacs	
16	<b>Task Flow</b>	the students were working on an event management app	they received proper guidance on what are the current apps in the market.	they now have over 100 users and are working on automation of notes.	
17	<b>Smart Home</b>	the students had the idea of home automation and also had a prototype of the same	we helped them in doing a market survey on the types of home automation switches available. they were also provided guidance on ways to automate utilities inside any home	they are now working on automation modular switches which can be operated by voice command	
18	<b>Question paper generation</b>	they had the idea and a prototype of making a software for automatic question paper generation	mentoring was a key in finalizing the layout of their software	the software is now ready and is currently used at various institutes of L J	
19	<b>Bikes Clinic</b>	They had an idea of taking online bookings for vehicle service.	we then introduced them to various business mentors who guided them on the business model of such ventures	they now have a working business model and are currently working on having their own mobile garage van	

20	<b>Exhaust Oven</b>	They had made a prototype using an old vehicle	we then introduced them to a design mentor who guided them on the overall design of their prototype	they are currently working on their final design of the vehicle.	
21	<b>Blood Group Determination</b>	They had a raw prototype of identifying blood group. Using immobilization principle, they were able to check the blood group of patients	We connected them to various mentors and people from prathma blood bank. They have shown immense interest in taking this project ahead	They have now been able to identify blood groups with more than 95% accuracy. They are now setting a benchmark with the Jhonson & Jhonson kit.	

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