



Young Inventors Innovating for billions

Annual Report

2019-2020

<https://engg.kkwagh.edu.in/redx/>

REDX Platform

REDX Team

REDX brings together technical experts, innovators, researching institutions, implementation partners and corporate partners that will allow us to solve the most pressing challenges within our communities.

REDX labs and clubs

REDX labs and clubs serve as gateways to the energy and creativity of innovators who are creating solutions to satisfy significant social needs.

REDX Collaboration

In collaboration with experts from several research centers, bright young innovators from all regions around the world have the opportunity to work closely with corporate executives, academics from institutions of higher learning, government officials and experienced mentors to imagine and develop solutions to solve major problems affecting citizens in resource-constrained areas and situations.

REDX scale

There are REDX Labs and Clubs on almost every continent around the world.

Words By Head of Department

The REDX club was formed in March, 2018 at K. K. Wagh institute of engineering education and research, Nashik with an idea of making creative minds come together to present their creations to the society we live in. This perhaps the only club in the North Maharashtra region to motivate students to develop innovative solutions. The club is run by the students and for the students of our Institution. It is indeed a pleasure to share the annual report of the creations released so far and activities organized for students to learn and develop interest to Identify the problem Statement, Design its Solution Canvas and Execute it. I am happy to invite interested students and be a part of the club to further grow with.

Best wishes to the REDX club for their upcoming planned activities ahead.

Regards,

Prof. Dr. S. S. Sane.

MENTOR



Prof. Dr. Ramesh Raskar
Associate Professor,
MIT Media Lab-USA

SENIOR BOARD MEMBERS



Mr. Girish Pagare
Chartered Engineer, Senior
Manager (EMS) at Graphite
India Ltd.



Prof. Dr. Shirish Sane
Vice Principal, Head, Dept of
Computer Engg at K K Wagh
Institute of Engg Education &
Research.



Dr. Uday Wad
Associate Vice President at
Datamatics Global Services Limited.



Ms. Dipti Kulkarni
Vice President at Bank of
America.



Mr. Sandeep Karkhanis
Chairman of CSI Nashik
Chapter.



Mr. Prathamesh Karmalkar
Senior Data Scientist &
Solutions Architect.

Meet The Team



Prof.Dr. Snehal Kamalapur
Advisor
Professor,
Department of Computer Engineering,
K.K.W.I.E.E.R. Nashik



Mr.K.P. Birla
Faculty Member
Department of Computer Engineering,
K.K.W.I.E.E.R. Nashik



Miss. Akshada Shitole
Project-lead
Department of Computer Engineering,
K.K.W.I.E.E.R



Miss. Harshada Dhanwat
Student coordinator
Department of Computer Engineering,
K.K.W.I.E.E.R



Miss. Deepali Joshi
Treasurer
Department of Computer Engineering,
K.K.W.I.E.E.R



Miss. Saloni Wani
Co-Treasurer
Department of Information Technology,
K.K.W.I.E.E.R



Miss. Kavita Ranjave
Web Master
Department of Computer Engineering,
K.K.W.I.E.E.R

PREVIOUS COMMITTEE MEMBERS



Mr. Monish Karwal
Project-lead
KKWIEER



Mr. Rahul Nagpure
Webmaster
KKWIEER



Mr. Mayur Nandanwar
Student Coordinator
KKWIEER



Mr. Sandesh Lekhwani
Treasurer
KKWIEER

Objectives:

1. To serve as gateways to the energy and creativity of innovators who are creating solutions to satisfy significant social needs.
2. To bring together technical experts, innovators, researching institutions, implementation partners and corporate partners that will allow us to solve the most pressing challenges within our communities.
3. To empowers innovators to imagine and develop solutions that can solve major problems affecting citizens in resource-constrained areas and situations.
4. To enable problem based learning.

Plan of activities:

Week	Week's Event/activity as per REDX guidelines
1	Enrollment, registration, committee formation and orientation of the club.
2	Orientation to Spot-Probe method, Goal selection.
3	Resource Mapping session for each of your 'Actionable Goal' statement, (During the week: field visit, meet stakeholders and experts)
4	Field visit for Problem validation
5	Meeting with Senior Board and Stakeholders
6	Problem Canvas and initial Solution Canvas
7	Solution Canvas
8	Meeting with Senior Board and Stakeholders
9	Findings Plot and Validation Session with Stakeholders and Experts
10	Final Presentations. Release well articulated problem statements; apply few projects to get featured on parent REDx.io website.

More detailed information about the REDX KKWIEER club: <http://engg.kkwagh.edu.in/redx/>

25TH JANUARY 2020

Activity 1: Interaction with Mr. Rushabh, Mr. Subhash

Interaction of Mr. Rushabh, Mr. Subhash and REDX-club Teams was arranged at DISQ, Nashik. Here we have decided the plan & strategies to conduct activities for the students. Also prepare a timeline of various events.



7TH FEBRUARY 2020

Approximate No. of Students Attended:132

Activity 2: Brainstorming Session

Brainstorming Session conducted by Mr. Rushabh Rambhia for FE Students. Core Committee members mentoring students. Brainstorming is a group creativity technique by which efforts are made to find a conclusion for a specific problem by gathering a list of ideas spontaneously contributed by its members.



14TH FEBRUARY 2020

Approximate No. of Students Attended:125

Activity 3: Expert Talk on defining actionable goal statements.

By Mr. Uday Kumar , the founder of 8th sense technology interacted with FE Students and help them to form their Actionable goal statements.



PBL-REDX Student Activities

FE C:

Group Number	Roll Number	Name of Students	Title
1	6	Badgujar Samruddhi Sudhir	Driver Safety and Accident Prevention
	10	Bhange Atharva Nitin	
	20	Dharkar Shravan Mahesh	
	21	Dhindsa Gagandeep Singh	
	25	Gangurde Shreyas Balasaheb	
	52	Rebello Evangeline Santan	

2	35	Singh M Sanathoi	To analyse the growth & quality of Grapes and provide appropriate suggestions on it.
	24	Gamne Chetan bhagwan	
	36	Marke Nandini Dipak	
	34	Kulkarni Anagha Girish	
	46	Patil Ankita Nandkumar	
	14	Borse Krushna Chandrakant	

3	15	Chaturvedi Suyam Sanjeev	Library management, Efficient Bus and Train tracking, Medical management, Accident prevention, etc.
	31	Kahane Ruchika Ajay	
	37	Mavatkar Suhas Umesh	
	45	Pardeshi Sameer Abhay	
	58	Sonawane Kranti Prakash	
	61	Sujgure Prathamesh Dinkar	

4	4	Sharayu Chandrakant Avhad	Difficulties faced by doctors related to patient history
	5	Tushar Dnyaneshwar Avhad	
	7	Dotesb Bendale	
	28	Sumat Mahavir Jain	
	66	Yash Chirmade	
	18	Sakshi Chavan	

5	17	Chaudhary Mihir Sunil	Making Soil Testing More Convenient
	12	Bhavsar Kamlesh Vijay	
	8	Bhalerao Abhishek Sunil	
	50	Pawar Vishal Nitin	
	2	Ahire Kalpesh Bapurao	

6	48	patil rushikesh sanjay	How to dispose waste effectively?
	22	gaikwad rushikesh arun	
	65	wagh rakesh chandrabhan	
	1	aher pranjal Rajendra	

7	39	Swaraj More	What if farmers have online agriculture marketing?
	38	Prathamesh Moharkar	
	64	Pankaj Valvi	
	19	Sneha Chopde	
	56	Sanjana Shelke	
	41	Yashashree Navander	

8	57	Tejas Nilesh Sonar	How to provide quick medical support after an accident?
	40	Chaitali Rajendra Narayane	
	27	Rutuja Prakash Jagtap	
	9	Amod Sameer Bhalerao	
	53	Laukik Sachin Samsher	
	29	Yash Mahavir Jain	

9	11	Samruddhi Dilip Bhansali	Emergency Vehicle Management
	32	Vaishnavi Umesh Kapse	
	43	Sakshi Pavan Pandit	
	44	Dev Anil Panjwani	
	54	Vedanti Anil Sarwade	
	55	Salas Sujit Shah	
	63	Pushkaraj Anil Thorat	
	23	Shivam Vilas Gaikwad	

10	13	Tejashree Swapnil Binaykiya	To Develop A Cost Effective Diagnostic Machine
	47	Anuja Kiran Patil	
	30	Neha Nitin Kadam	
	26	Janhavi Shyam Jadhav	
	33	Hargun Singh Deepinder Singh Kochhar	
	3	Aniket Andhale	

11	42	Pagare Prem Amit	Boosting Economic Status Of the City
	62	Tajanpure Gaurav Sunil	
	59	Sonawane Pranita Chandrakant	
	49	Pawar Gauri Yuvraj	
	60	Sonawane Rahul Bhausaheb	
	51	Rajput Bhushan Yogendra	

FE D:

1	45	Chaitanya Pawar	How can we provide safety for womens in lonely places at odd times?
	16	Gaurav Gatwe	
	28	Ganesh Koli	
	1	Aditya Agrawal	
	64	Swaroop Thombare	
	61	Siddhant Sonawane	

2	50	Parth Raundal	How to detect College Dropout Beforehand
	43	Ketan Patil	
	15	Vaishnavi Garghate	
	57	Siddhi Shimpi	
	66	Pranav Vispute	
	31	Yash Labhshetwar	
	46	Eishita Pawar	

3	49	Himanshu Rathore	How to detect pneumonia using machine learning?
	52	Prateek Shahabatkari	
	53	Mufaddal Shakir	
	2	Priti Aher	
	3	Shantanu Aher	
	68	Sarthak Wagh	

	19	Shivani Jadhav	
--	----	----------------	--

4	12	Kushal Dogra	What if farmers use modern technologies to cultivate crops?
	11	Shubham Dhanwat	
	32	Shreyash Lanjewar	
	36	Atharva More	
	42	siddesh Patankar	
	4	Dipali Bhabad	
	34	Tejal Malode	

5	26	Rushikesh Khaire	How can we reduce accidents using Artificial Intelligence?
	25	Atharva Khaire	
	9	Heramb Chaugoankar	
	6	Aniket Borase	
	21	Surabhi Kadam	
	58	Girija Shinde	
	22	Vaishnavi Kale	

6	48	Swapnil Pawar	How to monitor crop health and provide real time action advice to farmers?
	10	Gayatri Deshmukh	
	7	Tejal Chalase	
	40	Atharva Pandharikar	
	65	Pranav Varpe	
	55	Param Shelar	

7	5	Bhamare Yashank Sanjay	how to detect the rate of heart attack in adults?
	14	Gargade Yash Prashant	
	47	Pawar Shubham Kailas	
	54	Shelar Omkar Devidas	
	56	Shewale Komal Jibhau	
	60	Sonawane Harshada Tukaram	
	62	Suryawanshi Nandita Vivek	

8	41	samiksha patade	how to reduce crop damage
	35	manitdip kaur	
	24	kavita devi	
	44	sai patil	
	59	shreya Shinde	
	63	pratiksha Tambe	
	29	gauri korade	
	39	neha pagare	

9	8	rupesh chavan	How can we provide updated practical knowledge according to the market needed?///lack of farming tools in agriculture
	38	tanay nikam	
	13	abhishek gangurde	
	23	swapnil kamble	
	51	pradip sanap	
	27	yogesh kharat	
	18	hrushikesh ingole	

10	33	chinmay mahajan	How can we help blind people in easy navigationn?
	37	shivam nikam	
	67	mohit wadekar	
	69	waghmare pushpak	
	20	pratik jain	
	30	onkar Kulkarni	

Testimonials:

Thinking, Designing, Execution are the key terms of Innovation. By conducting Brainstorming sessions, By designing Solution Canvas and by presenting to the experts this platform provided an opportunity to students to learn new things. It was an Great Experience which consists of mind blowing variety of ideas. I am very much thanking to all our Senior board members and advisors for giving this wonderful opportunity. Hopes the upcoming committee of coming year can excel this more.

- **Akshada Shitole**
(Project Lead, REDX Club, KKWIEER)

Curiosity about new things led me to be a part of the REDX Club. In the academic year of 2019-20, we as a team managed various activities for first-year engineering students under Project-based Learning subject. Being a student co-ordinator at REDX Club helped me to improve my communication skills as well as management skills. Thanks to Prof. Birla for trusting us with this responsibility. It was an enriching experience working with REDX Club, KKWIEER. Best wishes to the new committee members!!

- **Harshada Dhanwat**
(Student Co-ordinator, REDX Club, KKWIEER)

Being a member of REDX Club I would like to say that this platform does a really good job. I'm glad to be a part of this platform as a Web Master. It was really a great learning experience of handling the club website & it helped me alot to enhance my skills.

- **Kavita Ranjave**
(WebMaster, REDX Club, KKWIEER)

Innovation in education helps students to explore, research, implement something new. RedX club is great opportunity for students who are passionate about innovation and discovering new opportunities. As a part of this club we have helped students of first year to boost their creative thinking and to find different solutions to the problems faced in society. It was a great experience working with RedX club and want to thank RedX for giving this opportunity. I invite all my juniors to be a part of this wonderful club.

- **Deepali Joshi**
- **(Treasurer, REDX Club, KKWIEER)**

As a part of the REDX club, I came to know many innovative as well as basic concepts. REDX channel us to the energy and provide us right guidance. I got the right direction through this club. As a co-treasurer of this club, I got many exciting opportunities and various types of responsibilities. It was a gripping experience where we enhance our communication, leadership, management, and many more skills. It was incredible journey with REDX club. Grab this opportunity and exploit it juniors!!!

- **Saloni Wani**
- **(Co-Treasurer, REDX Club, KKWIEER)**