

# DEI SUCCEED

DEI Start Up Commencing Centre for Emerging Entrepreneurs of Dayalbagh

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Skill development and entrepreneurship has been an integral part in the Education system of DEI, since its inception in 1917. In accordance with the lofty goal of Government of India for promoting vocational skill education, DEI has started several vocational courses to participate in Nation building through skill education and eventually imparting impetus to entrepreneurship. The modern age tools of tinkering labs, living labs and mobile labs imbibe general awareness and induce interest among students at school level. The values of rich Indian culture are sowed in young children through school of Art and Culture, Music School and School of Languages.

Besides the conventional education system, students have opportunity to learn and promote their hobbies as skill through Modular Courses starting from class VII onwards. Centre for Applied Rural Technology and Deen Dayal Upadhyay Kaushal Kendra serve as skill infusing organizations. Even students with prior learning and basic school level qualifications can be benefitted by lateral and diagonal transitions possible from Modular Course level to Graduation level to PhD.

DEI took a quantum leap in entrepreneurship development benefitting masses from tribal belts to international level through well established Labs and skill parks namely Automotive workshops, Apparel and toy manufacturing association and Agro& Dairy business avenues. Community entrepreneurship and societal contribution are imbibed in values and teachings of Dayalbagh. Entrepreneurial avenues like agriculture, Dairy, Textile Manufacturing etc. has gained popularity in no time among students seeking skill development and entrepreneurial guidance. Unique schemes like earn while you learn are providing financial support while pursuing education to needy students and provides them better learning with concept of disposal of duties and shouldering responsibilities for self reliance. A super intelligent marketing network, connecting rural economic zones to state economic zones to international markets laid a sturdy foundation for deprived rural masses to sell their products, nationally and internationally. E-portals and business advisory clinics help in organized operation and establishment of entrepreneurial avenues for novices and young entrepreneurs. The Curriculum has Village Industries and Entrepreneurship, Agriculture Operations and Social Service as integral part and are compulsory core courses for students of all branches. The institute has already implemented schemes like Earn-while-you-learn,

EVIC-Entrepreneurship Virtual Incubation Cell. All these facts make the Institute a fertile ground for advanced entrepreneurial activities.

To enhance the effectiveness of above mentioned endeavors and to provide need specific support to those with entrepreneurial aspirations, DEE SUCCEED has been established as a pre-incubating startup cell. Through the Cell, it is intended to build a strong eco-system for nurturing innovation and entrepreneurship and thus contribute to sustainable economic growth and generate large scale employment opportunities.

**Vision Objective:**

*Augment entrepreneurial culture among the faculties and students of the institute and promote new ideas, innovations and subsequently to convert these innovative ideas/problems to feasible business models and possible entrepreneurial venture.*

**Specific Objectives:**

1. To develop a critical mass of motivated students & faculties with entrepreneurial orientation & skill
2. To build infrastructure support for innovation & early stage enterprise development and enabling access to resource & facilities at institute
3. To enhance in-house competency development to serve potential and early stage entrepreneurs and student innovators at the institute.
4. To provide platform for the budding entrepreneurs to interact with industrialists, professionals and alumni for motivation and guidance
5. To strengthen the inter department and inter-institutional linkage, incubators and other ecosystem enablers at different levels.

**Activities:**

For realizing the objectives following activities are planned

- 1) To develop a critical mass of motivated students & faculties with entrepreneurial orientation & skill
  - a) Sensitization of target groups by organizing ice breaking sessions, motivational talks, interaction sessions with Alumni and successful entrepreneurs

- b) Conduct General Entrepreneurial Tendency Test for students and staff for identification of dreamers and Dreamer Mentors
  - c) To organize Workshops on Design Innovation/ Problem Identification/ Rapid Prototyping / Idea generation hackathons and encourage students to participate
  - d) To encourage students and faculty to pursue and earn e-learning certificates on Entrepreneurship and Innovation
  - e) To arrange for interested students to undertake internship in Start-ups
- 2) To build infrastructure support for innovation & early stage enterprise development and enabling access to resource & facilities at institute
- a) To prepare and display Service Chart for Students to avail services
  - b) Design and Print Promotion Material for Start-up Cell
  - c) To start Idea Club, Innovation Club and Start-up Club, establish organizational hierarchy in each of these and organize activities through these student clubs
  - d) Create provision for seed money support for major and minor projects of the students
  - e) To provide seed money support to projects for student competitions
- 3) To enhance in-house competency development to serve potential and early stage entrepreneurs and student innovators at the institute.
- a) Conduct Mentor Training/FDP/EDP /capacity development Programs
  - b) Provide trainings to in-house Experts
  - c) Reward outstanding mentors, student members for their contributions
  - d) Encourage faculty to carry out research on Entrepreneurship
- 4) To provide platform for the budding entrepreneurs to interact with industrialists, professionals and alumni for motivation and guidance
- a) To arrange for alumni meet at campus
  - b) To arrange for interaction sessions with local entrepreneurs
  - c) Organize Tech-fest, competitions, hackathons
  - d) To organize visits, training to other institutions
- 5) To strengthen the inter department and inter-institutional linkage, incubators and other ecosystem enablers at different levels.

- a) Conduct GETT for student and faculty of other departments of the Institute to extend the base of the Cell
- b) Conduct Inter-Department Interaction Sessions to identify Current Industry & Societal problem & Entrepreneurship opportunity
- c) Encourage Students to team up with Inter disciplinary representation to develop the Proof of Concepts (POC) for the proposed Solutions.
- d) Encourage Students to participate and present their Ideas/Start-up models in various B-Plan Competitions/Events/ Workshops organized by other Lead institutes.

#### Events Planned

- 1. Conducting General Entrepreneurial Tendency Test for students, Staff for identification of dreamers and Dreamer Mentors
- 2. Organizing ice breaking sessions, motivational talks, interaction sessions with Alumni and successful entrepreneurs for students
- 3. To organize Workshops on Design Innovation, Problem Identification, Rapid Prototyping, Idea generation hackathons and encourage students to participate
- 4. Conducting activities through Idea Club, Innovation Club and Start-up Club
- 5. Conduct Mentor Training/FDP/EDP /capacity development Programs
- 6. Conduct GETT for student and faculty of other departments of the Institute to extend the base of the Cell
- 7. Conduct Inter-Department Interaction Sessions to identify Current Industry & Societal problem & Entrepreneurship opportunity

# Report of activities of DEI SUCCEED

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1. Startup Cell is formed and core team is constituted.

Team Members	Designation	Discipline	Role	Email	Contact
Dr. G.S. Sailesh Babu	Associate Professor	Electrical Engineering	Coordinator	<a href="mailto:babu.sailesh@gmail.com">babu.sailesh@gmail.com</a>	7060185804
Dr. Ashok Yadav	Assistant Professor	Mechanical Engineering	Member	ashokyadavaca@gmail.com	9412893447
Anurag Gupta	Assistant Professor	Mechanical Engineering	Member	deianuraggupta@gmail.com	8979555250
K. Pritam Satsangi	Assistant Professor	Electrical Engineering	Member	pritamsk@gmail.com	9412159166
Prof. Praveen Saxena	Professor	Accountancy & Law	Member	<a href="mailto:pravinsaxenadei@yahoo.co.in">pravinsaxenadei@yahoo.co.in</a>	9897136483

2. General Entrepreneurship Tendency Test (GETT) was conducted for about 400 B.Tech. students and about 50 dreamers were identified. Detailed List of dreamers is attached as Annexure 1.
3. Four Motivational Lectures and Technical Lectures were organized

#### **Motivational Lectures Organized:**

- 1) Lecture-cum-Interaction Session organized a on 28th November, 2017 on "Career Opportunities for Engineering Students: is Entrepreneurship a Viable Option?" by **Drs. Ajay Sharma, CEO at ASR Ventures & President Rotary International Hague, Netherlands**
- 2) Student Interaction Session organized a on 8th December, 2017 on "Internship, Choices, Career", **Rajendra S Pawar, Chairman & Managing Director, NIIT**

#### **Lecture-cum-interaction sessions Organized:**

- 1) Lecture-cum-Interaction Session organized a on 7th December, 2017 on "Jugaad Innovation" by **Navi Rajdou, Author, Jugaad Innovation**
- 2) Lecture-cum-Interaction Session organized a on 1st January, 2018 on " Self-powered and ultra-low-power circuits and system " by **Prof. Aatmesh Shrivastava, Department of Electrical and Computer Engineering, Northeastern University in Boston, MA, USA.**

Details are attached as Annexure 2.

4. A two day workshop on Matlab and Simulink in Engineering Education was organized for B.Tech. students on 27-28 March, 2018 and experts from Industry delivered lectures. Details are attached as Annexure 3.
5. A Campus Hackathon titled "**#buildwithDEI**" was organized from April 6 to April 8, 2018 to explore and address Societal problems. Details are provided as Annexure 4.

# Annexure 1: Student Dreamers Identified

Number of students who scored 40 and above in General Entrepreneurial Tendencies Test : 54

S.No	Roll No.	Name	Sem	Branch	Score	e-mail			Contact
1.	154061	Aashi Gupta	6	ELECTRICAL	49	shyamsuhane@gmail.com	GN	F	9410832218
2.	126188	Devashish Chauhan	8	ELECTRICAL	47		GN	M	7983436218
3.	144101	Rupal Mittal	8	ELECTRICAL	47	rupalmittal01@gmail.com	GN	F	9359288589
4.	154172	Shubhra Tyagi	6	MECHANICAL	47	mohitjain86@gmail.com	GN	F	9410003676
5.	154175	Stuti Agarwal	6	ELECTRICAL	47	agarwalstuti27@gmail.com	GN	F	8791411592
6.	154156	Pratyush Priyadarshi	6	MECHANICAL	46	maya_pramod14@yahoo.com	GN	M	7417631661
7.	164016	Divya Gupta	4	CIVIL	46	divyagupta9045@gmail.com	GN	F	9412750283
8.	144079	Manasvi Pourush	8	ELECTRICAL	45	ppourush@yahoo.co.in	GN	M	9412850139
9.	144034	Prateek Jain	8	ELECTRICAL	44	prateekjain003@gmail.com	GN	M	9897766136
10.	146459	Shivani Sharma	6	MECHANICAL	44	rajech022sharma@gmail.com	GN	F	9458283650
11.	154065	Amit Kumar	6	ELECTRICAL	44	amitkumar23996@gmail.com	SC	M	9927719025
12.	154173	Shuchita Mahajan	6	MECHANICAL	44	mahajan1manish@rediffmail.com	GN	F	9997184284
13.	1700845	Aman Agarwal	2	MECHANICAL	44	amanagarwal1999agra@gmail.com	GN	M	8410755787
14.	144085	Mehar Verma	8	ELECTRICAL	43	meharverma97@gmail.com	GN	F	9319053512
15.	154081	Isha Saxena	6	ELECTRICAL	43	kuldeep.saxena@sbi.co.in	GN	F	9720041666
16.	154177	Sumiran Barnwal	6	MECHANICAL	43	barnwalsumiran@gmail.com	BC	F	08235357527
17.	164045	Sanket Upman	4	CIVIL	43	sanketupman1@gmail.com	GN	M	7500112282
18.	164113	Nitish Singh	4	ELECTRICAL	43	nitishstark@gmail.com	SC	M	9411964642
19.	144026	Mohit Rajput	8	CIVIL	42	RAJPUT.MARUNYA16@GMAIL.COM	BC	M	9758191055
20.	144072	Komalchitt Juneja	8	ELECTRICAL	42	sheetaldamyanti@gmail.com	GN	F	8954808447
21.	144114	Vasim Ali	8	ELECTRICAL	42	vasim.ali10@gmail.com	BC	M	9926335955
22.	144191	Ankit Yadav	8	FOOTWEAR	42	BINDASS.SUNNY@GAMIL.COM	BC	M	
23.	154150	Netrapal Singh	6	MECHANICAL	42	likenetra13@gmail.com	GN	M	7037315375
24.	154167	Sarita Rawat	6	MECHANICAL	42	saritabyzy@gmail.com	ST	F	9412256434
25.	164074	Aditi Chaturvedi	4	ELECTRICAL	42	n.chaturvedi111@rediffmail.com	GN	F	9451074561
26.	164080	Ambika Bhardwaj	4	ELECTRICAL	42	ambika0599@gmail.com	GN	F	8439588085
27.	164096	Ishita Saraswat	4	ELECTRICAL	42	vk.saraswat@gmail.com	GN	F	9410251040
28.	164111	Mohit Kumar	4	ELECTRICAL	42	kmohitkumar298@gmail.com	SC	M	8650269007
29.	1700897	Shivesh Vikramaditya	2	MECHANICAL	42	shiveshvikramaditya1999@gmail.com	GN	M	8279557250
30.	1700900	Shubhangi	2	MECHANICAL	42	guptavinodk1689@gmail.com	GN	F	9412169979
31.	136021	Kirti Mishra	8	CIVIL	41	mkirti389@gmail.com	GN	F	9528828916
32.	144032	Prakher Gupta	8	CIVIL	41	alokkr.gupta1966@gmail.com	BC	M	9927094591
33.	144103	Sankalp Rai Bhalla	8	ELECTRICAL	41	sankalp.r.bhalla@gmail.com	GN	M	9997980777
34.	154014	Dishani Singhal	6	CIVIL	41	dishanisinghal@gmail.com	GN	F	9358509899
35.	154092	Mamta Khimyani	6	ELECTRICAL	41	mkhimyani@gmail.com	GN	F	8445923069
36.	154157	Punarvasu Sharma	6	MECHANICAL	41	vasusharma443@gmail.com	GN	M	8889025385
37.	164078	Aman Singhal	4	ELECTRICAL	41	singhal509@gmail.com	GN	M	9897248233
38.	1700644	Kapil Srivastava	2	CIVIL	41	hsrivastava.90@gmail.com	GN	M	9540063650
39.	1700737	Rishabh Singhal	2	ELECTRICAL	41	r.singhal.com@gmail.com	GN	M	9719290305
40.	1700854	Bhanu Pratap Saini	2	MECHANICAL	41	bhanusaini046@gmail.com	BC	M	9456635351

S.No	Roll No.	Name	Sem	Branch	Score	e-mail			Contact
41.	144031	Poornima Mathur	8	CIVIL	40	poorima.mathur@yahoo.com	GN	F	9927058269
42.	144050	Suyash Goyal	8	CIVIL	40	SUYASHGOYAL.K@GMAIL.COM	GN	M	9045871198
43.	144074	Kunal Kumar	8	ELECTRICAL	40	kunalcharu@gmail.com	SC	M	8439259209
44.	144095	Prateek Badhautia	8	ELECTRICAL	40	sbadhautia@gmail.com	BC	M	9536075818
45.	146757	Rajiv Kumar	6	MECHANICAL	40	rajeevsharma.rs1008@gmail.com	BC	M	8979738641
46.	154110	Shivam Khandelwal	6	ELECTRICAL	40	shivamkhandelwal0106@gmail.com	GN	M	8650701033
47.	154131	Arvind Singh	6	MECHANICAL	40	arvindsingh2024@gmail.com	SC	M	9045659512
48.	154178	Tarun Agarwal	6	ELECTRICAL	40	agrawaltarun1997@gmail.com	GN	M	9897001167
49.	156421	Sachin Yadav	4	MECHANICAL	40	sachin012yadav@gmail.com	BC	M	9639954962
50.	164089	Bharat Dubey	4	ELECTRICAL	40	bharat1999dubey@gmail.com	GN	M	9411963363
51.	164231	Kamal Kishor	4	MECHANICAL	40	kamalkishor30081997@gmail.com	BC	M	8744972287
52.	1700741	Sanmukh Sinha	2	ELECTRICAL	40	ashok.sinha@federalmogul.com	GN	M	919718997901
53.	1700817	Sumit Kumar	2	FOOTWEAR	40	sumitkumar@gmail.com	ST	M	8630402977
54.	1700901	Siddharth Jain	2	MECHANICAL	40	sidjainsci@gmail.com	GN	M	9837026708

# Annexure 2: Lectures/talks Organized

## Details of Lectures organized

1	<p>Motivational Lecture-cum-Interaction Session organized a on 28<sup>th</sup> November, 2017 on <b>“Career Opportunities for Engineering Students: is Entrepreneurship a Viable Option?”</b></p> <p><i>Drs. Ajay Sharma</i> <i>CEO at ASR Ventures &amp; President Rotary International</i> <i>Hague, Netherlands</i></p>  <p>Ajay is accomplished Board member, international speaker, social entrepreneur, Impact investor and executive for business development in European, Asian and Middle-East markets. Before becoming independent investor and consultant, he worked in corporations like TechMahinda, Huawei, Alcatel-Lucent and Escotel. He studied Diploma in Electrical Engineering in 1993 in DEI. Ajay now holds Engineering, MBA and LLM and studied at universities like Harvard Business School, University-Liverpool, University-of-Bradford and DEI. Ajay speaks at multiple international forums and universities in technologies BLOCKCHAIN and Cyber security and entrepreneurship.</p> <p>Ajay holds following positions and delivers values in world.</p> <ul style="list-style-type: none"><li>CEO and Founder ASR Ventures – Invest in impact innovations</li><li>Chief Regulatory and investments officer – TOBLOCKCHAIN (BLOCKCHAIN Powerhouse)</li><li>President – Rotary Club The Hague Metropolitan (First English international club of Netherlands with 20 plus nationalities)</li><li>Global Advisor and director– Sampoorna Global (Social enterprise- Augmenting menstrual hygiene for young girls)</li><li>European Director– E2Labs– Critical Infrastructure Cybersecurity Solutions.</li><li>Partner– Exasun (Innovative Solar panels)</li><li>Partner– BSS Holland (Defense Security Solutions)</li><li>Mentor in World Startup Factory</li></ul> <p>A Lecture-cum-Interaction Session was organized a on 28<sup>th</sup> November, 2017 on <b>“Career Opportunities for Engineering Students: is Entrepreneurship a Viable Option?”</b></p> <p>During the interaction, Mr. Ajay explained the importance of balanced outlook towards career opportunities that includes conventional Jobs as well as entrepreneurial opportunities. He cited his own experience and growth as an example to lay emphasis on the view that- jobs provide level growth but more security. On the other hand, entrepreneurial activities provide more growth opportunities although involve more risk factors.</p> <p>He explained that the best compromise of the two options has to be person specific and each individual must take his call on the basis of his comfort level. He also stressed on introducing guarded entrepreneurial opportunities in educational institutions to inculcate suitable mindset in the students without actually exposing them to the risk factors.</p> <p>Students were motivated by speaker and hand fruitful interaction and an impromptu session on innovations that they want to convert into a Start-up.</p>
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Motivational lecture and Interaction Session organized a on  
8<sup>th</sup> December, 2017 on

**“Internship, Choices, Career”**

*Rajendra S Pawar*

*Chairman & Managing Director*



Rajendra S Pawar is the Chairman and Co-Founder of NIIT Group that encompasses NIIT Limited, a leading Global Talent Development Corporation, and NIIT Technologies Limited, the software and services arm. As a co-founder of the NIIT Group, Pawar has not only revolutionized the IT training industry, but is also recognized as a global technology thought leader.

As the Chairman of India’s IT industry body- National Association of Software and Service Companies (NASSCOM), Pawar has led several ICT industry initiatives, giving voice to the sector’s aspirations and goals. Earlier during 1990-92, as President of MAIT (Manufacturers’ Association for Information Technology), Pawar integrated MAIT’s activities with other leading industry associations in India.

A Fellow member of the Computer Society of India (CSI) and the Institution of Electronic and Telecommunication Engineers (IETE), Pawar was awarded an Honorary Doctoral Degree by Rajiv Gandhi Technical University (MP) in 2005.

**Awards and Accomplishments**

- Acknowledging his contribution to the IT industry in India, Pawar has been awarded the country’s prestigious civilian honour, **Padma Bhushan** by the President of India in 2011
- Pawar is a member of the Prime Minister’s National Council on Skill Development and has served the Prime Minister’s National Task Force (1998) commissioned to develop India into an IT Superpower
- An advisor to the Hunan Province of China, he has also been a member of PIAC (Presidential International Advisory Council) of the Government of South Africa for IT
- As a founding member of the International Business Council of the World Economic Forum, Pawar is deeply engaged in addressing issues of global significance
- Global Business Intelligence firm, Ernst & Young conferred Pawar with its prestigious “Master Entrepreneur of the Year” award, in 1999. He has also been named as the “IT Man of the Year” by IT industry journal, Dataquest
- Pawar has been awarded ‘The Global India Splendor Award’ on the occasion of the 60th year of Indian independence, for his work in developing human resource potential
- He has received ‘Distinguished Alumnus Award’ from IIT Delhi in 1995 and ‘Madhav Award’ from The Scindia School
- Pawar has also been honoured with the prestigious ‘Nayudamma Award’ in 2012, for his continued contribution to the IT industry in India

Mr. Pawar referred to historical developments in human society and how they resulted in agrarian, scientific, industrial and information revolutions. He said that the current century is the period of knowledge revolution. The industrial revolution was driven by innovations that reduce, and if possible remove, human intervention, where as the knowledge revolution is driven by products having human being as the centre of the theme. This resulted in decline of conventional job careers and germination of altogether new paradigms of jobs, entrepreneurial objectives and innovations.

He also explained that the current generation professionals has better opportunities to explore and take risks as their typical career is spanned over 70 – 80 years. He urged the students to take a

plunge in whatever endeavour they deem suitable without worry as they have ample time to switch. The session ended with a prolonged interaction with students. The impromptu session was highly appreciated and enjoyed by the students.



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Lecture-cum-Interaction Session organized on 7<sup>th</sup> December, 2017 on  
**“Jugaad Innovation”**

*Navi Rajdou*

*Author, Jugaad Innovation*

Radjou was born in India with French-American dual citizenship. He earned a diploma in technical studies (DEST) from the National Conservatory of Arts and Crafts (CNAM) in Paris, France and an MS degree in information systems from Ecole Centrale Paris. He started his career with IBM at its Toronto Software

Lab and eventually served as Vice President and Principal Analyst at Forrester Research, a US-based technology research and consulting firm. Till 2011, he served as the Executive Director of the Centre for India & Global Business at Judge Business School, University of Cambridge. Radjou is a Fellow at Judge Business School and a World Economic Forum (WEF) faculty member. He is a member of WEF's Global Future Council on Innovation & Entrepreneurship. For several consecutive years, he has served on the international panel of judges for The Economist's Innovation Awards. Navi also served as a judge for Fast Company's 2017 World Changing Ideas Awards.



Mr Radjou presented the idea that with tighter budgets and dwindling natural resources, along with new technologies and environmentally conscious consumers, innovation with lesser inputs and greater impact the effective way is added as a new paradigm to business and social organizational models. With an estimated trillion-dollar global market for frugal products and potentially huge cost savings to be gained, frugal innovation is revolutionizing business and reshaping management thinking. He explained that amalgamation of disruptive technologies and innovation will result in to phenomenal results. His talk was appreciated by the audience.

Lecture-cum-Interaction Session organized a on 1<sup>st</sup> January, 2018 on  
“ **Self-powered and ultra-low-power circuits and system** ”

*Prof. Aatmesh Shrivastava*

*Department of Electrical and Computer Engineering,  
Northeastern University in Boston, MA, USA.*



Atmesh Srivastava did is BS in Electronics and Communications Engineering, Birla Institute of Technology, India in 2006 and PhD in Electrical Engineering, University of Virginia, Charlottesville in 2014. He is an expert on Self-powered and ultra-low-power circuits and system; energy-harvesting and power-first system/computer architecture; internet-of-things; ultra-low power bio-medical and neural circuits and systems; exascale computing; high-reliability system design.

Atmesh delivered a talk on Self-powered and ultra-low-power circuits and system in which he discussed about technologies employed to reduce power requirements of circuits. He explained about issues that will crop up at ultra low powers and possible remedies that can be employed. He advised students about opportunities for pursuing higher studies abroad. He also encouraged the students for trying for Research Assistance in the US universities. The talk was well appreciated by all.

# Annexure 3: Two day Workshop on MATLAB & Simulink in Engineering Education

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Speakers:

1. Dheeraj Pandey ( B.tech , M.tech from IIT Bombay ) Math Works MATLAB
2. Akhilesh kumar ( M.tech from MMM Gaziabad ,B.tech from IMS Gaziabad) Design TechSystems .

Total Number Of 2nd Year Students -45 & Final Year -30





# Annexure 4: Hackathon- #buildwithDEI

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**Dates: April 6 - April 8, 2018 Total Students: 30 Teams: 7**

<b><i>Team Name</i></b>	<b><i>Team Members</i></b>	<b><i>Faculty</i></b>
Hackers	Divya Gupta Ayushi Pandey Anami Prasad Agam Singhal Priyanka Chauhan	Faculty of Engineering
Masterminds	Apar Singhal Akash Baranwal Tamanna Srivastava	Faculty of Engineering
Spartans	Shashank Shekhar Upadhyay Vikas Gaur Rohit Upadhyay Rishabh Singhal	Faculty of Engineering
Prohackers	Mukul Kaushik Shivam Singh Rahul Sharma Avinash Govind Kushwah	Faculty of Science
Freelancers	Shweta Kumari Khushboo Singh Divya Singh Kritika Gupta Shruti Jain	Faculty of Engineering
Badlaav	Aaditya Sharma Akhil Goel Chhavi Nagpal Ambika Bhardwaj Akanksha Agarwal	Faculty of Engineering
IOTians	Antas Jain Mohit Gautam Arpit Yadav	Faculty of Engineering

**Expert** Ms. Niti Prasad

- B.Sc. in Computer Science and minor in finance from **Michigan State University**.
- Assistant Vice President of IT Strategy at Synchray Financial.
- Teacher with Girls who Code.
- Member of Society of women Engineers.

**Teacher Coordinator**

Mr. Amol Gupta, Assistant Professor, Faculty of Engineering, DEI.

**Judge** Dr. G.S. Sailesh Babu, Associate Professor, Faculty of Engineering, DEI.

**Student Coordinator**

Ms. D. Arti, Final Year, B.Tech. in Electrical Engineering with specialization in Electronics.

## Problem Statements



To resolve Exam paper leaking we rely on the honesty and judgment of individual people to disseminate the question papers and that in itself bears the key to the problem

The Education Board wants a solution where using technology this problem can be resolved

- QR code based encoding
- Mobile monitoring and verification system
- Enhanced security solutions
- Crowd-sourced whistle-blower solutions
- The solution needs to be practical and easy to implement in a national scale.

91% of the girls aged 10-18 years have experienced sexual harassment. Studies show that due to social oppression and fear of retaliation the reported number is far less than the real number.

We need a solution where victims of sexual harassment can safely report the crimes committed against them.

- Ensure personal safety
- Connects women to safety networks
- Crowd sourced complain system
- Awareness for violence against women

Non-communicable diseases include heart disease, stroke, most cancers, asthma, diabetes, chronic kidney disease and more. They are the leading cause of death in the world, representing over 60% of all deaths.

- Awareness Solutions
- Health Awareness Apps
- Fitness Apps and tools
- NCD Risk Tracking

Corruption is rampant in public procurement, in tax and customs collection and in regulatory authorities. Awards of public and private tenders are frequently marred by corruption allegations.

- Crowd-sourced solutions
- Beyond the scope of whistle blowing
- Can bring in the culprits under proper inspection
- Solutions that provide information related to corruption-prone transaction
- Make the public aware of the pitfalls

Overloaded or un-roadworthy vehicles, worsening road condition, blind contortions, lack of awareness of safe road use, poor traffic management and poor driver training are among many reasons for the high levels of road traffic accidents.

- Traffic safety awareness
- GPS enabled accident reporting app
- Black-spot mapping
- Crowd-sourced complain app against bad drivers
- personal accident safety apps
- Black-spot alarm
- Route declaration app



Students participating in Hackathon