



**Vidya Pratishthan's**

**Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133**

Approved by AICTE New Delhi and Govt. of Maharashtra, Affiliated to Savitribai Phule University

NAAC 'A' Grade



## Report on Internal Smart India Hackathon -2022

Submitted By

Dr. Vipin B. Gawande

SPOC-VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati.

### **About Institute**

Vidya Pratishthan's Kamalnayan Bajaj institute of Engineering and Technology is located in Baramati, Dist.-Pune, Maharashtra. The college is affiliated to Savitribai Phule University, Pune (SPPU) and has NAAC 'A' grade. The institute has more than 2000 students pursuing their UG and PG degree in Engineering courses. Our institute has excellent infrastructure, friendly clean environment, well-equipped Modern Laboratories, dedicated faculty and staff.

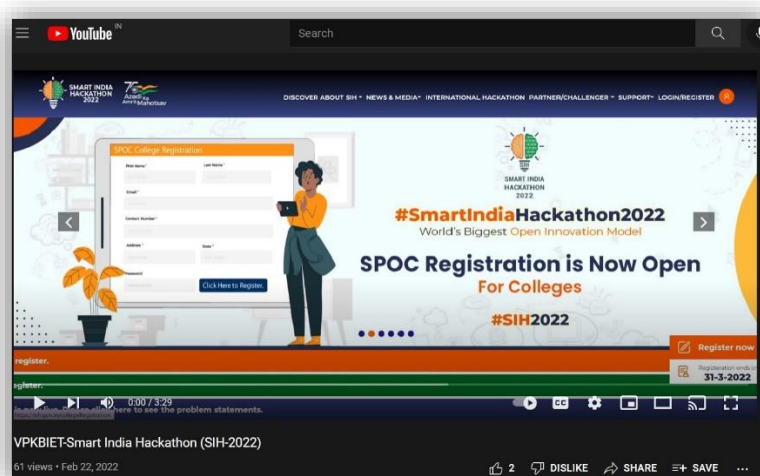
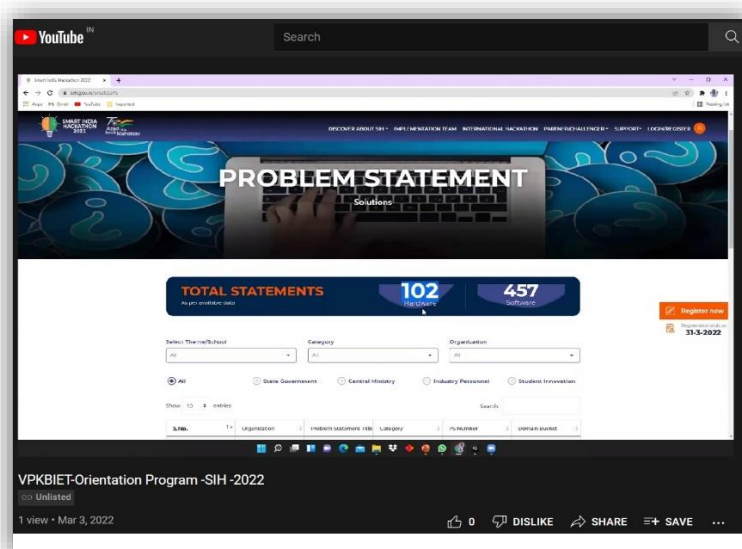


## Internal Smart India Hackathon-2022

### Orientation Session:

A video was initially prepared to provide information regarding the Smart India hackathon-2022 and was distributed among the students through social media and mails. The link for the video is: <https://www.youtube.com/watch?v=AT1KmIAvK28&t=48s>.

An orientation session was organised on 02 March 2022, to spread the awareness of Smart India Hackathon among the students. The session was coordinated by Dr. Vipin B. Gawande, SPOC for SIH-2022 from the institute. The students are guided for the process of participation in SIH-2022. The Session was followed by question-and-answer session. The you tube link for the orientation session is: <https://www.youtube.com/watch?v=RjXHC9fb4pM>.



The inaugural function of **Internal Smart India Hackathon-2022** was organized on 17<sup>th</sup> March 2022, Thursday in the Conference Hall no-13, main building of our institute between 11.00 a.m. to 05.00 p.m. The flyer of the event is given below.



**Vidya Pratishthan's**  
**Kamalnayan Bajaj Institute of Engineering and Technology, Baramati**



# Internal Smart India Hackathon-2022

**[Thursday, 17<sup>th</sup> March 2022]**  
**Venue- Conference Hall no-13, Main Building**  
**Time: 11.00 a.m to 05.00 p.m**  
**Visit-[www.sih.gov.in](http://www.sih.gov.in)**

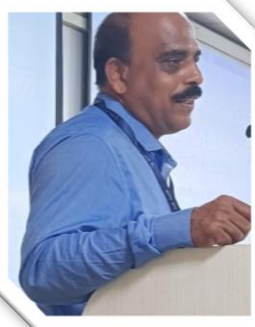

Register your team here



Contact us			
Dr. Vipin B. Gawande Faculty Coordinator Mo-9890659696	Mr. Rohit M. Gandhi Student Coordinator Mo- 8600003336	Mr. Akshay U. Budhabal Student Coordinator Mo-8317206248	Ms. Swarali S. Babar Student Coordinator Mo- 8530619709

Note: Scan the QR code, copy and paste the text in browser to open the Google Form.

Following are the dignitaries, who attended the inaugural function of the “Internal Smart India Hackathon-2022”.

	<p><b>Dr. Jagdish Rane,</b>  Principal Scientist and Head,  ICAR-National Institute of Abiotic Stress Management,  Baramati -413133.  Email Id: <a href="mailto:jagdish.rane@icar.gov.in">jagdish.rane@icar.gov.in</a>  Mobile: +91-9404684508</p>
	<p><b>Dr. R. S. Bichkar,</b>  Principal,  VP's Kamalnayan Bajaj Institute of Engineering and  Technology, Baramati-413133.  Email Id: <a href="mailto:principal@vpkbiet.org">principal@vpkbiet.org</a>  Mobile: +91-9637300101</p>





**Dr. Sudhir Lande,**

Vice-Principal,

VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133.

Email Id: [sudhir.lande@vpkbet.org](mailto:sudhir.lande@vpkbet.org)

Mobile: +91-8149793995



**Dr. Anil P. Hiwarekar,**

Dean Academics,

VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133.

Email Id: [dean.acad@vpkbiet.org](mailto:dean.acad@vpkbiet.org)

Mobile: +91-9420319075



**Dr. Rajveer Shastri,**

Dean Research and Development,

VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133.

Email Id: [dean.rnd@vpkbiet.org](mailto:dean.rnd@vpkbiet.org)

Mobile: +91-9975393409



**Dr. Jyoti Rangole,**

Head ED Cell and Convener IIC,

VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133.

Email Id: [jyoti.rangole@vpkbiet.org](mailto:jyoti.rangole@vpkbiet.org)

Mobile: +91-9767742224



**Dr. Vipin B. Gawande,**

**SPOC-SIH-2022,**

VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133.

Email Id: [vipin.gawande@vpkbiet.org](mailto:vipin.gawande@vpkbiet.org)

Mobile: +91-9890659696

The schedule of the inaugural function is attached herewith:

	
<b>Vidya Pratishthan's</b>	
<b>Kamalnayan Bajaj Institute of Engineering and Technology, Baramati</b>	
<b>“Internal Smart India Hackathon”</b>	
<b>(Under Institute Innovation Cell (IIC))</b>	
<b>Date: - Thursday- 17<sup>th</sup> March 2022</b>	
<b>&gt; Minute to Minute programme for Inaugural Function</b>	
12.00 noon :-	Arrival of Chief Guest, Principal, Vice-Principal and other dignitaries.
12.05 p.m.: -	Lamp Lighting Ceremony.
12.10 p.m.: -	Introduction and Felicitation of Chief Guest.
12.15 p.m.: -	Welcome address by Dr. Vipin B. Gawande, Faculty Coordinator-SIH-2022.
12.20 p.m.: -	Address by Honourable Principal and Vice-Principal Sir.
12.25 p.m.: -	Address by Honourable Chief Guest of the event - Dr. Jagdish Rane, Principal Scientist and Head, NIASM, Baramati.
12.30 p.m.: -	Vote of Thanks by Dr. Jyoti Rangole Madam.
12.35 p.m.: -	Visit to Event Location (Conference Hall-No-12)

**Dignitaries: -**

**Chief Guest of the Event: - Dr. Jagdish Rane, Principal Scientist and Head, ICAR-National Institute of Abiotic Stress Management, Baramati.**

Hon. Principal, Dr. R. S. Bichkar.                      Hon. Vice Principal, Dr. Sudhir Lande.

Dr. Anil P. Hiwarekar, Dean Academics.      Dr. Rajveer Shastri, Dean R&D.

Dr. Jyoti Rangole, Head ED cell and Convener IIC.

Dr. Vipin B. Gawande, Faculty Coordinator, SIH-2022.

A few glimpses of the Inaugural Function are shown below:



Light Lighting Ceremony



Felicitation of the Chief Guest, Dr. Jagdish Rane, Principal Scientist and Head, NIASM, Baramati



Welcome Address by Dr. Vipin B. Gawande, SPOC-SIH-2022



Address by Hon. Dr. R. S. Bichkar, Principal, VPKBIET, Baramati





Adress by Chief Guest, Dr. Jagdish Rane, Principal Scientist and Head, NIASM, Baramati



Vote of thanks by Dr. Jyoti Rangole, Head ED cell and Convener IIC, VPKBIET Baramati



Students and Faculty members attending the inaugural function



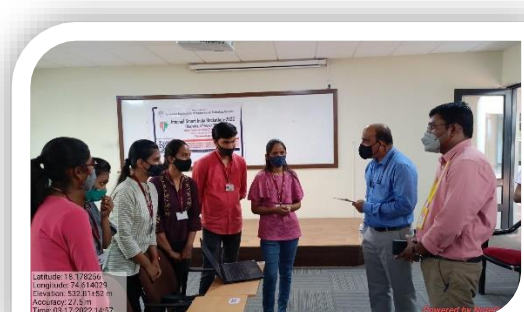
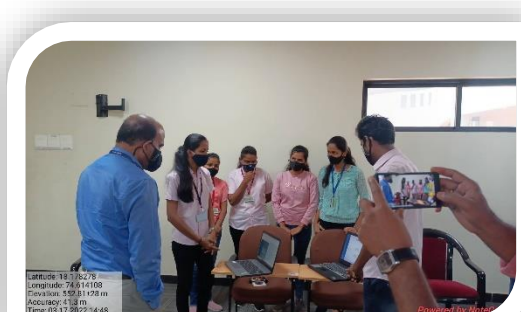
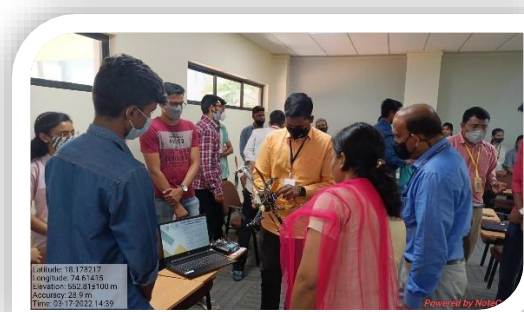
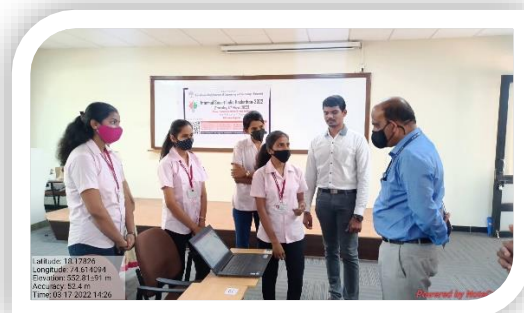
Total 16 teams [96 students] participated in “Internal Smart India Hackathon-2022”. List of participating teams are given below:

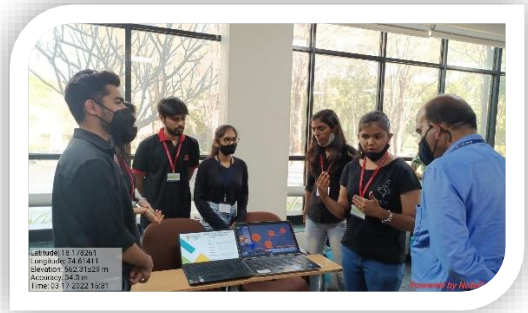
Group No.	Team Leader Name	Team Name	Problem Statement Title (as given on SIH website)	Category
1	Pol Rudrakshi Dattatray	Spark Mark	Use of digital technology or making physical prototype for micro irrigation system to improve Water Use Efficiency of Irrigation sector.	Hardware
2	Budhabal Akshay Uday	AR-CREATOR	Augmented Reality Classroom Programme	Software
3	Jadhav Ashish Sandeep	AR Robotics	Multipurpose robot for Medical, Agri and Health care.	Software
4	Taur Rekha Hanumant	Mind Spark	Detecting Covid-19 (using face recognition) suspects in crowd, at the school/office Building entrance along with their attendance and other alerts.	Software
5	Budhabal Akshay Uday	AREdu	Augmented Reality Search - Taking ETB's One Step Ahead	Software
6	Narale Ajay Bhagwat	Technopath	"Require Drones based surveillance of the Open border in Vulnerable Gaps and areas "	Hardware
7	Kulkarni Vedant Mahendra	Tech 6	Ecommerce for artisans	Software
8	Kadam Shreya Kishor	BYTE	Design of automatic sugarcane cutter with bud detection.	Hardware
9	Sapkal Kunal Nitin	Data warrior	Mechanism to help rural people to self-select for receiving benefit offered under Govt. scheme.	Software
10	Maid Gauri Satish	Runtime Innovators	Centralized platform for detailed information of colleges	Software
11	Bhong Shruti Navnath	Sparkles	Sustainable and No Contact Attendance System	Hardware
12	Sutar Shivam Ashok	The Garuda	Insufficient medical support system and remote villages in hill areas	Software
13	Deshmukh Punam Prabhakar	ELECTROMORPH	Non-invasive Human vein detection	Hardware
14	Chavan Rajgauri Sunil	Sparkwood	Smart garbage management	Hardware
15	Atole Payal Bajirao	DreamSparkwood	Disaster Management	Hardware
16	Sapkal Kunal Nitin	Data warrior	Using food waste as consumable organic resource	Software

**Jury members:**

	<p><b>Dr. Jagdish Rane,</b> Principal Scientist and Head, ICAR-National Institute of Abiotic Stress Management, Baramati -413133. Email Id: <a href="mailto:jagdish.rane@icar.gov.in">jagdish.rane@icar.gov.in</a> Mobile: +91-9404684508</p>
	<p><b>Dr. Jyoti Rangole,</b> Head ED Cell and Convener IIC, VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133. Email Id: <a href="mailto:jyoti.rangole@vpkbiet.org">jyoti.rangole@vpkbiet.org</a> Mobile: +91-9767742224</p>
	<p><b>Ms. Sonal Nikam,</b> Assistant Professor, ENTC Department, VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133. Email Id: <a href="mailto:sonal.nikam@vpkbiet.org">sonal.nikam@vpkbiet.org</a> Mobile: +91-9960533531</p>
	<p><b>Dr. Vinay Nagalkar,</b> Assistant Professor, ENTC Department, VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-413133. Email Id: <a href="mailto:vinay.nagalkar@vpkbiet.org">vinay.nagalkar@vpkbiet.org</a> Mobile: +91-8600377789</p>

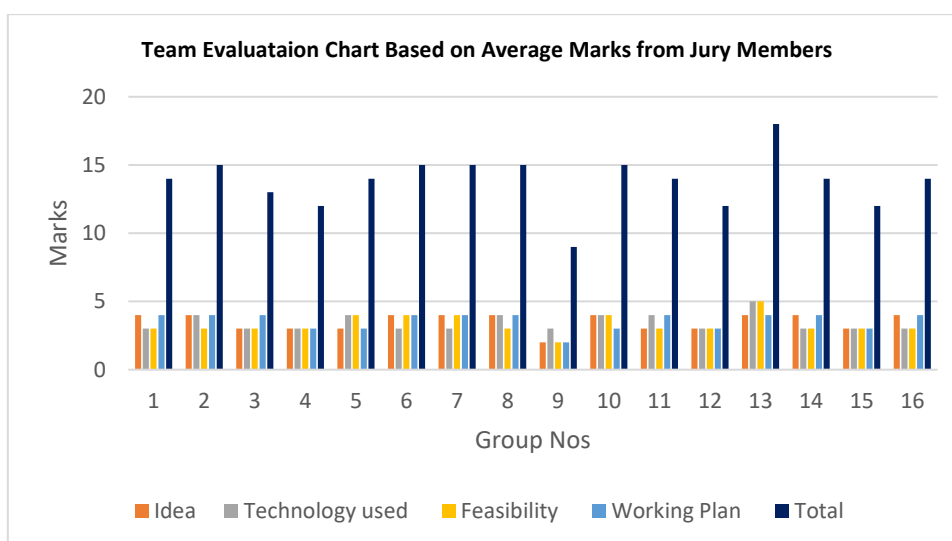
Few glimpses of the evaluation process are shown below:








List of selected teams is given below:



 <b>Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati</b> <b>Result for "Internal Smart India Hackathon -2022"</b> <b>Organized on 17/03/2022 Time: 11.00 a.m to 05.00 p.m</b>					
Group No.	Team Leader Name	Team Name	Problem Statement Title (as given on SIH website)	Category	Result
1	Pol Rudrakshi Dattatray	Spark Mark	Use of digital technology or making physical prototype for micro irrigation system to improve Water Use Efficiency of Irrigation sector.	Hardware	Shortlist
2	Budhabal Akshay Uday	AR-CREATOR	Augmented Reality Classroom Programme	Software	Shortlist
6	Narale Ajay Bhagwat	Technopath 2	Require Drones based surveillance of the Open border in Vulnerable Gaps and areas.	Hardware	Shortlist
7	Kulkarni Vedant Mahendra	Tech 6	Ecommerce for artisans	Software	Shortlist
8	Kadam Shreya Kishor	BYTE	Design of automatic sugarcane cutter with bud detection.	Hardware	Shortlist
10	Maid Gauri Satish	Runtime Innovators	Centralized platform for detailed information of colleges	Software	Shortlist
11	Bhong Shruti Navnath	Sparkles	Sustainable and No Contact Attendance System	Hardware	Shortlist
13	Deshmukh Punam Prabhakar	ELECTROMORPH	Non-invasive Human vein detection	Hardware	Shortlist
14	Chavan Rajgauri Sunil	Sparkwood	Smart garbage management	Hardware	Shortlist
16	Sapkal Kunal Nitin	Data warrior	Using food waste as consumable organic resource	Software	Shortlist
3	Jadhav Ashish Sandeep	AR Robotics	Multipurpose robot for Medical, Agri and Health care.	Software	Waitlist
4	Taur Rekha Hanumant	Mind Spark	Detecting Covid-19 (using face recognition) suspects in crowd, at the school/office Building entrance along with their attendance and other alerts.	Software	Waitlist
5	Budhabal Akshay Uday	AREdu	Augmented Reality Search - Taking ETB's One Step Ahead	Software	Waitlist
12	Sutar Shivam Ashok	The Garuda	Insufficient medical support system and remote villages in hill areas	Software	Waitlist
15	Atole Payal Bajirao	DreamSparkwood	Disaster Management	Hardware	Waitlist

**Social Media Links:**

<https://mobile.twitter.com/vpkbiet>

<https://www.facebook.com/vpkbiet2018>

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**List of groups participating for Smart India Hackathon 2019**

<b>Group</b>	<b>Students Name</b>	<b>Roll No</b>
<b>1</b>	<b>Pal Umeshkumar</b>	<b>1832160</b>
	<b>Mohite Aishwarya</b>	<b>1832104</b>
	<b>Patil Sampada</b>	<b>1832114</b>
	<b>Shinde Gauri</b>	<b>1832147</b>
	<b>Pawar Swapnali</b>	<b>1832124</b>
	<b>Shinde Shrutika</b>	<b>1832149</b>
<b>2</b>	<b>Deokate Sandip</b>	<b>1832026</b>
	<b>Daphal Shreya</b>	<b>1832025</b>
	<b>Giram Sanjay</b>	<b>1832045</b>
	<b>Bansode Amit</b>	<b>1832008</b>
<b>3</b>	<b>Pawar Poonam</b>	<b>1832120</b>
	<b>Vaishnavi Vidhate</b>	<b>1832163</b>
	<b>Neha Gupta</b>	<b>1832111</b>
	<b>Shraddha Raje</b>	<b>1832127</b>
	<b>Samta Survase</b>	<b>1832153</b>
	<b>Vaishnavi Pisal</b>	<b>1832125</b>
<b>4</b>	<b>Tejaswini Bagal</b>	<b>1832006</b>
	<b>Pratiksha Pawar</b>	<b>1832121</b>
	<b>Kulkarni Sonali</b>	<b>1832095</b>
	<b>Vaijnath Khomane</b>	<b>1832088</b>
	<b>Shreyas Kulkarni</b>	<b>1832094</b>
	<b>Mayur Shinde</b>	<b>1832084</b>
<b>5</b>	<b>Pranali Jadhav</b>	<b>1832060</b>
	<b>Amol Pawar</b>	<b>1832118</b>
	<b>Suraj More</b>	<b>1832105</b>
	<b>Ankita Hendre</b>	<b>1832053</b>
	<b>Asmita Hede</b>	<b>1832052</b>
	<b>Kalyankar Shraddha</b>	<b>1832074</b>

To,

Mr. /Ms. Vinay Jagdish Nagarkar & Team

UID Number 2019 IC1526

Project / Idea Extreme cold weather jackets with GPS and other trackers

Sub: Offer of 4 days all expenses paid training on Innovation Management at Nashik Engineering Cluster, C-10, MIDC Ambad, Nashik - 422010

Dear Mr. / Ms.

**Congratulations!!!** on being adjudged as one of the 10 most promising innovators / entrepreneurs for your idea "UID No \_\_\_\_\_" in NEC's Innovation Challenge -2019.

Taking the journey ahead, you are invited to attend a four days intensive Training cum mentoring program at Nashik Engineering Cluster, "Sahasrarashmi" C-10 MIDC Ambad, Nashik 422010 in the month of Jan 2020 (exact dates would be communicated to you soon).

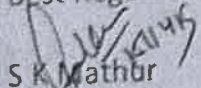
All your expenses including training and mentoring cost, fooding etc during the program would be borne by Nashik Engineering Cluster. For outstation teams, the boarding and lodging would also be arranged by us. The training sessions would provide you an opportunity to learn the structured process of Innovation Management and an opportunity to be mentored by Industry leaders

During the four day program you would be exposed to the world class product development, validation and testing infrastructure of NEC and you would be given an opportunity to fine tune your idea to face the real time market situations.

The ideas amongst the most promising 10 aligned to our domain focus, incubation policy and meeting our stringent criterion of commitment, focus and potential would be given an offer to become fulltime incubate at rvinc, Nashik for comprehensive 2 Years Incubation support by us.

Once again, congratulations on being selected as one of the most promising 10 Ideas/ Team. We look forward to meet you in Jan. 2020 at Nashik Engineering Cluster. In case you need any further information you can write to [incubation@nec.org.in](mailto:incubation@nec.org.in).

Best Regards

  
S K Mathur

CEO, rvinc & Nashik Engineering Cluster  
"Sahasrtra Rashmi" C-10, MIDC Ambad, Nashik, 422010  
to know latest updates click on the icons below







**SCIENCE AND TECHNOLOGY PARK, PUNE**  
Supported by NSTEDB, Dept. of Science and Technology, Govt. of India

is pleased to certify that

*Vaijnath Sanjay Khomane*

has successfully participated in the

**Entrepreneurship Awareness Camp**

(January 17-19, 2019)

sponsored by

National Science & Technology Entrepreneurship Development Board  
Department of Science & Technology, Government of India

organized at

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology  
Baramati

**Hardik Joshi**  
Programme In-charge

**Dr. Rajendra Jagdale**  
Director General and CEO



Mentor

# Certificate

This Certificate is awarded to

Vajinath Sanjay Khomane

of team Surgical Strike for participating in

'Smart India Hackathon, 2019'.



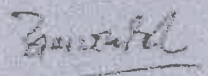
Shri R. Subramanyam  
Hon'ble Secretary, MHRD



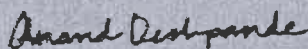
Dr. Abhay Jere  
CIO, MRC, MHRD  
Organizing Committee,  
Smart India Hackathon 2019




Dr. Anil D. Sahasrabudhe  
Chairman, AKTE  
Chairman, Organizing Committee,  
Smart India Hackathon 2019



Dr. Arun Jamkar  
President, IAC



Dr. Anand Deshpande  
Chairman and MD, Persistent Systems  
Co-Chairman, Organizing Committee,  
Smart India Hackathon 2019



Mr. Shirish Barwale  
Managing Director  
Manyco Grow



Dr. A.N.N. Murthy  
Vice Chancellor  
Dayananda Sagar University

# Mentor

## Certificate

This Certificate is awarded to

Vinay Nagalkar

for exceptional contribution as a Mentor in  
'Smart India Hackathon, 2019'.

HARDWARE EDITION

Grand Finale  
July 8-12,  
2019

Partners



Deloitte

DEVNET

cisco

KPIT

Communication  
Partners



*Dr. Arun Jamkar*

Dr. Arun Jamkar  
President, i4C

*Dr. Anil D. Sahasrabudhe*

Dr. Anil D. Sahasrabudhe  
Chairman, AICTE  
Chairman, Organizing Committee,  
Smart India Hackathon 2019

*Dr. Abhay Jere*

Dr. Abhay Jere  
CIO, MIC, MHRD  
Organizing Committee,  
Smart India Hackathon 2019

*Shri R. Subramanyam*

Shri R. Subramanyam  
Hon'ble Secretary, MHRD

*Dr. Anand Deshpande*

Dr. Anand Deshpande  
Chairman and MD, Persistent Systems  
Co-Chairman, Organizing Committee,  
Smart India Hackathon 2019



SMART INDIA  
HACKATHON

2019

Organizers



MIC



PERSISTENT

HARDWARE EDITION

Grand Finale  
July 8-12,  
2019

Partners



Deloitte.

alltel  
cisco DEVNET

KPI T

Communication  
Partners



# Mentor

# Certificate

This Certificate is awarded to

**Sonal Nikam**

for exceptional contribution as a Mentor in  
'Smart India Hackathon, 2019'.

**Shri R. Subramanyam**  
Hon'ble Secretary, MHRD

**Dr. Abhay Jere**  
CIO, MIC, MHRD  
Organizing Committee,  
Smart India Hackathon 2019

**Dr. Anil D. Sahasrabudhe**  
Chairman, AICTE  
Chairman, Organizing Committee,  
Smart India Hackathon 2019

**Dr. Arun Jamkar**  
President, i4C

**Dr. Anand Deshpande**  
Chairman and MD, Persistent Systems  
Co-Chairman, Organizing Committee,  
Smart India Hackathon 2019



**SMART INDIA  
HACKATHON  
2019**

Organizers





# Mentor

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Sonal Nikam

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HARDWARE EDITION

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Deloitte

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KPIT

Communication  
Partners



SMART INDIA  
HACKATHON

2019

Organizers



MIC



PERSISTENT

Shri R. Subramanyam  
Hon'ble Secretary, MHRD

Dr. Abhay Jere  
CIO, MIC, MHRD  
Organizing Committee,  
Smart India Hackathon 2019

Dr. Anil D. Sahasrabudhe  
Chairman, AICTE  
Chairman, Organizing Committee,  
Smart India Hackathon 2019

Dr. Arun Jamkar  
President, i4C

Dr. Anand Deshpande  
Chairman and MD, Persistent Systems  
Co-Chairman, Organizing Committee,  
Smart India Hackathon 2019





# IETE

## THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS

'Raghuraj' 62 Indiranagar, Erandwane, Pune-411004.

Phone no: (020) 25449762, Fax: (020)25410179, E-mail ID:-

ietepune5@gmail.com

PUNE CENTRE

# CERTIFICATE

This is to certify that,

Mr./Ms. sohel Akilgub shaikh

From VPKBIET, BARAMATI

Project Title Underwater Robot For Scientific data

Consolation Prize winner

Acquisition

Participated In "IETE-Innovation 2019 Project Competition" arranged by the Institution of Electronics and Telecommunication Engineers, Pune on 30<sup>th</sup> April 2019.

### VENUE

Department of Electronics and Telecommunication Engineering, JSPM's, Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune 412207.

**Dr. Y. S. Angal**  
Convener,  
Vice Chairman, IETE Pune Centre

**Dr. R. D. Kharadkar**  
Hon. Secretary,  
IETE Pune Centre

**Shri. K. R. Shende**  
Chairman  
IETE Pune Centre





# IETE

## THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS

'Raghuraj' 62 Indiranagar, Erandwane, Pune-411004.

Phone no: (020) 25449762, Fax: (020)25410179, E-mail ID:-

ietepune5@gmail.com

**PUNE CENTRE**

## CERTIFICATE

This is to certify that,

Mr./Ms. Kanchan Mulchand Rajguru

From Vidya pratishthan's Kamalnayan Bajaj IEGAT

Project Title Electricity Billing system

Participated In "IETE-Innovation 2019 Project Competition" arranged by the Institution of Electronics and Telecommunication Engineers, Pune on 30<sup>th</sup> April 2019.

### VENUE

Department of Electronics and Telecommunication Engineering, JSPM's, Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune 412207.

**Dr. Y. S. Angal**  
Convener,  
Vice Chairman, IETE Pune Centre

**Dr. R. D. Kharadkar**  
Hon. Secretary,  
IETE Pune Centre

**Shri. K. R. Shende**  
Chairman  
IETE Pune Centre

## List of Centers at VPKBIET in 2020-21

SN	Name of the CoE Coordinator	Name of the CoE	Department
1	Mr. Zende Dinesh Achyut	Center for Artificial Intelligence and Machine Learning	AI & DS
2	Mr. Padulkar Digambar M.	Salesforce Technologies	
3	Mr. Padulkar Digambar M.	Data Science and Statistical Methods	
4	Dr. C. B. Nayak	Center of Excellence for AR/VR	Civil Engineering
5	Dr. Samadhan G. Morkhade	Analysis & Design of Industrial Steel Structures	
6	Mr. Dilip Gulabrao Patil	Center for Town and Country planning	
7	Dr. Giridhar N.Narule	Center for Infrastructure health monitoring	
8	Mr. Prafulla Krishnant Pise	Research Center for Water Infrastructure Environmental Resilience (RC-WISER)	
9	Mr. Dhiraj Ahiwale	Center for Earthquake Engineering and Engineering Vibration (CEEEV)	
10	Mr. Rushikesh Khartode	Center for Design and Analysis of Civil Engineering Structures (DACES)	
11	Mr. Vyankatesh Rampurkar	Center of Excellence for C,C++,JAVA	Computer Engineering
12	Mr. Pradip M Paithane	REDHAT Academy	
13	Dr. Chaitanya Kulkarni	Center for AWS Cloud Computing	
14	Mrs. Gyankamal J. Chhajed	Center for Big data and Hadoop	
15	Mr. Prashant T. Raut	Center for Enhancement of Aptitude	
16	Dr. Dinesh Bhagwan Hanchate	Industrial and Product Design (Thinking)	
17	Mrs. Sushma S. Nandgaonkar	Python : Basic to Advanced	
18	Mr. Rajkumar V. Panchal	Center of Excellence for Animation	
19	Mr. Mukesh B. Rangdal	Center for Data Science	
20	Ms. Pallavi D. Jawalkar	Center for R Programming	
21	Dr. R. S. Bichkar & Dr. R. K.	Import Substitution	E&TC

	Shastri		Engineering
22	Dr. S.B.Lande	Smart Innovation Center	
23	Mr. Rohit S Piske	Center of competitive exams and career options	
24	Mrs. Varsha S. Surwase	VLSI DESIGN	
25	Mr. Shantanu Jagdale	Center for Advanced Network Communications	
26	Prof. Rajveer Shastri	Center for Agricultural Technology (CAT)	
27	Ms. Sonal Nikam	Center of excellence for IoT	
28	Mr. Shashank D. Biradar	MARVEL	
29	Dr. Balasaheb H. Patil	Digital Electronics Design	
30	Dr. Vinay J. Nagalkar	Center of Excellence for Biomedical Image Processing	
31	Mr. Premannad K. Kadbe	Digital System Design Center	
32	Mr. Devidas Kushnure	Center for Machine Vision	
33	Mr. Jadhav Madan Mohan	Antenna Design and Communication system	
34	Mr. Shrikrishna Ulhas Kolhar	Embedded System Design	
35	Mrs. More Monali U.	Electronics Technologies	
36	Mr. Dipak S. Yeole	Center for Switchgear and Protection (CSGP)	Electrical Engineering
37	Mr. N.C. Vaidya	Center for Electrical System Design	
38	Mr. Rohit Shankarrao Tarade	Battery Engineering and Electric Vehicle (C-BEEV)	
39	Mrs. Pooja Nitesh Jaiswal	Solar Photovoltaic Design and Installation	
40	Mrs. Shreemanti Rokade	PLC SCADA	
41	Mr. Hafiz Minhajuddin Shaikh	Center for Artificial Intelligence in Electrical Engineering	
42	Mrs. Jyoti sachin kulkarni	Power Electronics and it's Applications	
43	Mr. Shridhar G. Rakhonde	Battery Management system Cell (BMS)	General Science
44	Mr. Anil B Patil	Center for Enhancement of English and Foreign Languages (CEEFL)	



45	Mrs. Gauri Gajendra Bhoite	Srinivas Ramanujan Center for Enhancement of Mathematical Abilities (COEMA)	
46	Mrs. Supriya Ghadage	Modern Methods in mathematics	
47	Dr. Aparna Ganeshappa Sajjan	Plastic Waste Management	
48	Dr. A. P. Hiwarekar	Center for Enhancing Teaching and Learning	
49	Mr. Amol Suresh Jadhav	Applications of Mathematics in Engineering and Science	
50	Mr. Sonawane Deepak Sitaram	Mahalanobis Center for Statistical Computing	
51	Mr. Sonawane Deepak Sitaram & Ms. Sonal Nikam	Universal Human Values	
52	Dr. Nitin A. Jadhav	Center for Advanced Functional Nanomaterials and Nanotechnology	
53	Dr. Nitin T. Shelke	Center of Layered Nanomaterials for Optoelectronics	
54	Ms. Komal Subhash Jadhav	Oracle Academy	Information Technology
55	Ms. Komal Subhash Jadhav	Women Empowerment	
56	Mr. Keshav S Bhagwat	Center for software testing	
57	Mr. Avinash J. Kokare	Web and Mobile Application development	
58	Mr. Kare Santosh S	CoE for Interview Preparation (CoEIP)	
59	Mr. Santosh A. Shinde	Web Technologies	
60	Ms. Kanchan Bhale Mr. Shashank Biradar	Center for Cyber Security	
61	Mr. Pradeep Manikrao Patil	CoE for SQL and NoSQL Database	
62	Ms. Sakhare Yashoda N.	Center for Enhancing Programming Skills in "C"	
63	Dr. S. M. Bhosle	Manufacturing And Terotechnology (MAT)	Mechanical Engineering
64	Mr. Suraj Kumbhar	Center for Vibration Analysis	
65	Dr. Vipin Bhaskarrao Gawande	Research in Renewable Energy	
66	Dr. Manisha Lande	Centre of Industrial Engineering (CIE)	

67	Mr. Vishal B. Bhagwat	Center for Advances in Manufacturing Processes (CAMP)
68	Mr. Avinash Kolekar	Center for Energy and Environmental Development (CEED)
69	Dr. P.R.Chitragar	Center for Alternative Fuels and Ecology (CAFE)
70	Mr. Machindra S. Gaikwad	Center for Engineering Education Research (CEER)
71	Mr. Shrinivas Shelge	Center of Excellence in CAD CAE
72	Mr. Shrikant C Mahadik	Center in Industrial Robotics Simulation & Analysis (CIRSA).
73	Ms. Mona Yadav	Center for Research in Computational Fluid Dynamics
74	Mr. Dadasaheb Rupanwar	Center for Robotics and Automation
75	Mr.Hanumant Borate	Center for Industrial Drawing



**Vidya Pratishthan's  
KAMALNAYAN BAJAJ INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARAMATI**

विद्या प्रतिष्ठानचे, कमलनयन बजाज इंस्टिट्यूट ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजी, बारामती  
(Formerly Vidya Pratishthan's College of Engineering, Baramati)



Approved by AICTE & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University, Pune  
University Id.No. /PU/PN/Engg./152/2000 | DTE Code: 6284 | Accredited by NAAC with 'A' Grade

**OFFICE ORDER**

Ref No:-VPKBIET/2022/643-B

Date:- 13/08/2022

**CONSULTANCY CORE COMMITTEE**

The Principal, Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati has pleased to constitute following core committee members in Consultancy.

Sr. No.	Name	Designation
1	Dr. Rajankumar S. Bichkar, Principal	Chairman
2	Dr. Giridhar N. Narule Dept. of Civil Engineering	Head
3	Dr. Rajveer K. Shastri Dept. of Electronics & Telecommunication Engineering	Member
4	Mr. Shrikant N. Dhage Dept. of Computer Engineering	Member
5	Mrs. Priyanka N. Kokare Dept. of Information Technology	Member
6	Dr. Vipin B. Gawande Dept. of Mechanical Engineering	Member
7	Mr. Hafiz M. Shaikh Dept. of Electrical Engineering	Member
8	Mr. Pradip P. Ghorpade Dept. of Artificial Intelligence and Data Science	Member
9	Dr. Niteen A. Jadhav Dept. of First Year Engineering	Member



*R. S. Bichkar*

**Principal**  
Vidya Pratishthan's  
Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati  
Vidyanagari, Baramati-413133





Vidya Pratishthan's Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati



### Institution's Innovation Council (IIC)

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**Topic:** Motivational Session by a Start-up Founder

**Date:** 11 Feb 2022

**Time:** 4.00 pm-5.00 pm

**Mode:** Online

**Contents:** Why to be an entrepreneur, Challenges and opportunities for budding entrepreneurs, Skills and attitude of entrepreneurs, Managing finances

**Objectives:**

- To make the students aware of various aspects of entrepreneurship
- To motivate the students to opt entrepreneurship as a career option
- To make students aware of challenges and opportunities while selecting entrepreneurship as a career option

**Outcomes:**

1. Students will be able to understand importance of entrepreneurship and select entrepreneurship as career option
2. Students will be able to explore various recourses of exploring finance for their start-up


**Resource Person:** Mr. Bhupesh Kumbhar, Founder and MD Zencon Infotech Pvt. Ltd., Pune

**Participants:** Students and faculty members from HEIs

**Number of Participants:** 56

**YouTube link:** <https://www.youtube.com/watch?v=oTBReuJYgcs>






**INSTITUTION'S  
INNOVATION  
COUNCIL**

**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati**

**Entrepreneurship Development Cell**  
in association with  
**Institution's Innovation Council**



**Mr. Bhupesh Kumbhar**  
Founder and MD  
Zencon Infotech Pvt. Ltd.

**Presents a Motivational Session by a Startup Founder**

**Date: 11 Feb 2022    Time: 4.00pm**

**Registration:** <https://forms.gle/XtKakcnmoo9vPsyy5>


**Link for joining:** <https://forms.gle/XtKakcnmoo9vPsyy5>

**Meeting ID: 867 619 7907    Passcode: VPKBIET**

**Dr. Jyoti Rangole**  
Head ED Cell  
Convener IIC  
VPKBIET, Baramati

**Dr. R.S. Bichkar**  
Principal  
President, IIC  
VPKBIET, Baramati


Screen Shots:



**INSTITUTION'S  
INNOVATION  
COUNCIL**

**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati**

**Entrepreneurship Development Cell**  
in association with  
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**Link for joining:** <https://forms.gle/XtKakcnmoo9vPsyy5>

**Meeting ID: 867 619 7907    Passcode: VPKBIET**

**Dr. Jyoti Rangole**  
Head ED Cell  
Convener IIC  
VPKBIET, Baramati

**Dr. R.S. Bichkar**  
Principal  
President, IIC  
VPKBIET, Baramati



**INSTITUTION'S  
INNOVATION  
COUNCIL**

**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology**

**Entrepreneurship Development Cell**  
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**Mr. Bhupesh Kumbhar**  
Founder and MD  
Zencon Infotech Pvt. Ltd.

**Presents a Motivational Session by a Startup Founder**

**Date: 11 Feb 2022 Time: 4.00pm**

Registration: <https://forms.gle/XtKakcnmo0vPyy5>  
Link for joining: <https://meet.google/jt-8576197907?pwd=265PYWVWV6Z1F53N1Gwmd21P4z09>  
Meeting ID: 867 619 7907 Passcode: VPKBIET

**Dr. Jyoti Rangole**  
Head ED Cell

**Dr. R. S. Bichkar**  
Principal

### Feedback Analysis:

Sr.no	Particulars	Responses				
		Strongly agree	Agree	Strongly Disagree	Disagree	
1	Whether objective of the session met	53.6%	46.4%	-	-	
2	The session was useful	51.8%	48.2%	-	-	
3	The presenter encouraged critical thinking and discussions	55.4%	42.9%	-	1.8%	
Rating out of 5 ( 5-Best, 1-Poor)		5	4	3	2	1
4	Overall rating of this session	50.0%	41.1%	5.4%	1.8%	1.8%









Vidya Pratishthan's Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati



### Institution's Innovation Council (IIC)

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**Topic:** Webinar on Skill, Attitude and Behavioral Development of Entrepreneurs

**Date:** 12 Feb 2022

**Time:** 2.30 pm-4.00 pm

**Mode:** Online

**Contents:** Top skills: Creativity, interpersonal communication, critical thinking, problem solving, customer service skills, teamwork. Importance of verbal and non verbal communication, positive attitude

**Outcomes: Students will be able to**

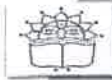
1. Understand importance of interpersonal communication
2. Understand effective way of communication including tone of voice, body language, eye contact, gesture, posture, facial expression
3. Importance of SWOT analysis

**Resource Person:** Ms. Pratibha More, Founder and Owner of PM Education and Business Solutions

**Participants:** Students and faculty members from HEIs

**Number of Participants:** 74





INSTITUTION'S  
INNOVATION  
COUNCIL  
Promotes all Education Institutions

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati



Ms. Pratibha More  
Founder and Owner  
PM Education and Business  
Solutions

Entrepreneurship Development Cell  
in association with  
Institution's Innovation Council

## Presents a Webinar on Skill, Attitude and Behavioral Development of Entrepreneurs

Date: 12 Feb 2022 Time: 2.30 pm to 4 pm

Registration: <https://forms.gle/3vZd1R8Fz4J1E4L3>

Link for joining: <https://www.zoom.us/j/9107729101?pwd=ZGZsc0p5VWl1ZUZuSk5kNTZlR0p1bDZkdz09>

Meeting ID: 867 619 7907 Passcode: VPKBIET

Dr. Jyoti Rangole  
IIC, Convener;  
VPKBIET, Baramati

Dr. R. S. Bichkar  
Principal, IIC, President  
VPKBIET, Baramati

Youtube Link: <https://www.youtube.com/watch?v=LBN-x9f8na4>

Screen Shots:

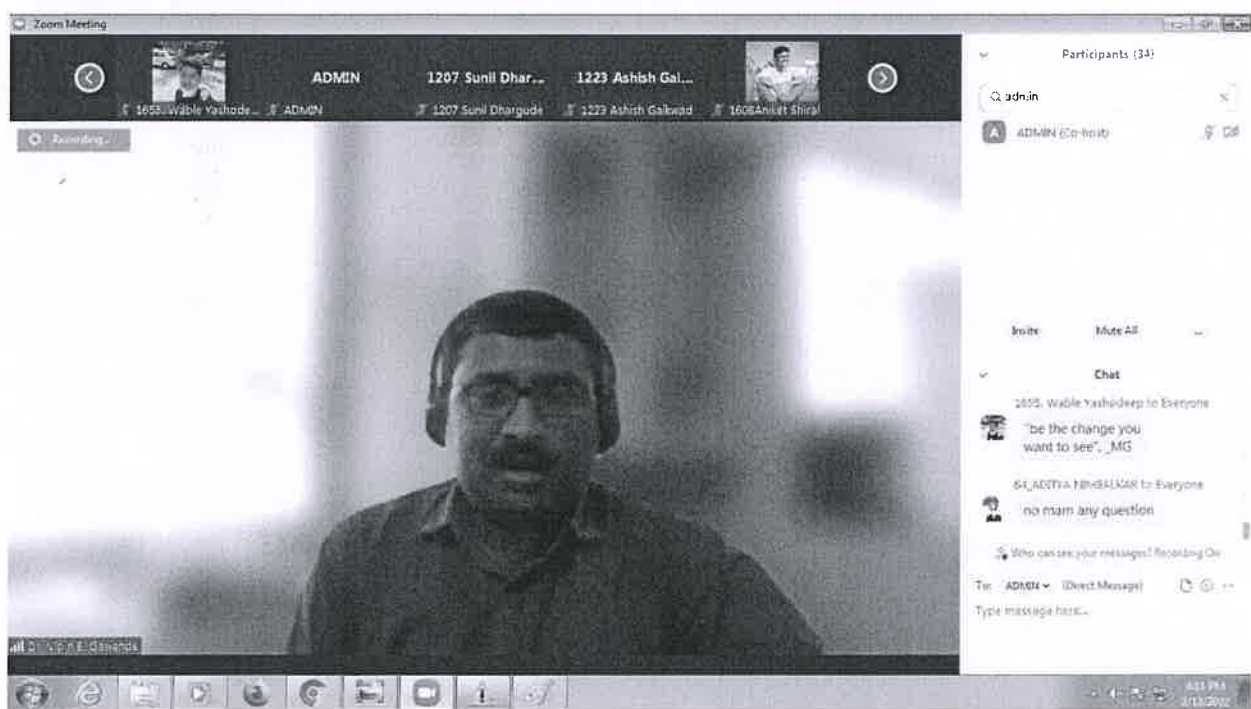
The screenshot shows a Zoom meeting interface. At the top, there are participant thumbnails for Vidya Pratishthan Baramati, Pratibha Galande-More, 1653. Wable Yathode, 1502 Siddhesh, and Deepak Sonawane. The main content area displays a presentation slide with the following text:

- The way you **think and feel** about someone or something .He has a **positive/negative** attitude about the changes.
- A **feeling** or way of thinking that affects a **person's behavior**. For eg. He has an aggressive attitude.
- An attitude describes an individual's **state of mind** with respect to a situation, person or thing.

Below the text is an image of a man in a suit pointing upwards, with the caption "Maintaining a Winner's Attitude". The Zoom interface includes a "Recording" button on the left and a toolbar at the bottom with various icons for chat, mute, video, etc. The bottom right corner shows the date and time as 2/12/2022 and 2:42:03.







### Feedback Analysis:

Sr.no	Particulars	Responses			
		Strongly agree	Agree	Strongly Disagree	Disagree
1	Whether objective of the session met	58.1%	41.9%	-	-
2	The session was useful	51.6%	48.4%	-	-
3	The presenter encouraged critical thinking and discussions	40.4%	59.6%	-	-
	Rating out of 5 ( 5-Best, 1-Poor)	5	4	3	
4	Overall rating of this session	51.1%	38.7%	3.2%	







Vidya Pratishthan's Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati



Institution's Innovation Council (IIC)

---

**Topic:** Webinar on Design Thinking and Critical Thinking

**Date:** 12 Feb 2022

**Time:** 11:00 am-12:30 pm

**Mode:** Online

**Contents:** Overview of innovation processes, phases of design thinking, finding new ways to innovate by reframing the challenge

**Objectives:**

- To describe the essential ingredients of the design thinking process
- To identify key terms and stages in the process
- To understand the unique advantages of design thinking
- To identify opportunities for applying design thinking

**Resource Person:** Mr. Jimmy Jain, Founder society of design thinking professionals

**Participants:** Students and faculty members from HEIs

**Number of Participants:** 130







Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati  
Entrepreneurship Development Cell  
in association with  
Institution's Innovation Council



Mr. Jimmy Jain  
Forbes Contributor  
Founder, Society of Design  
Thinking Professionals

## Presents a Webinar on Design Thinking and Critical Thinking

Date: 12 Feb 2022 Time: 11 am

Registration: <https://forms.gle/7hKGkRLJXWHN3mm8>

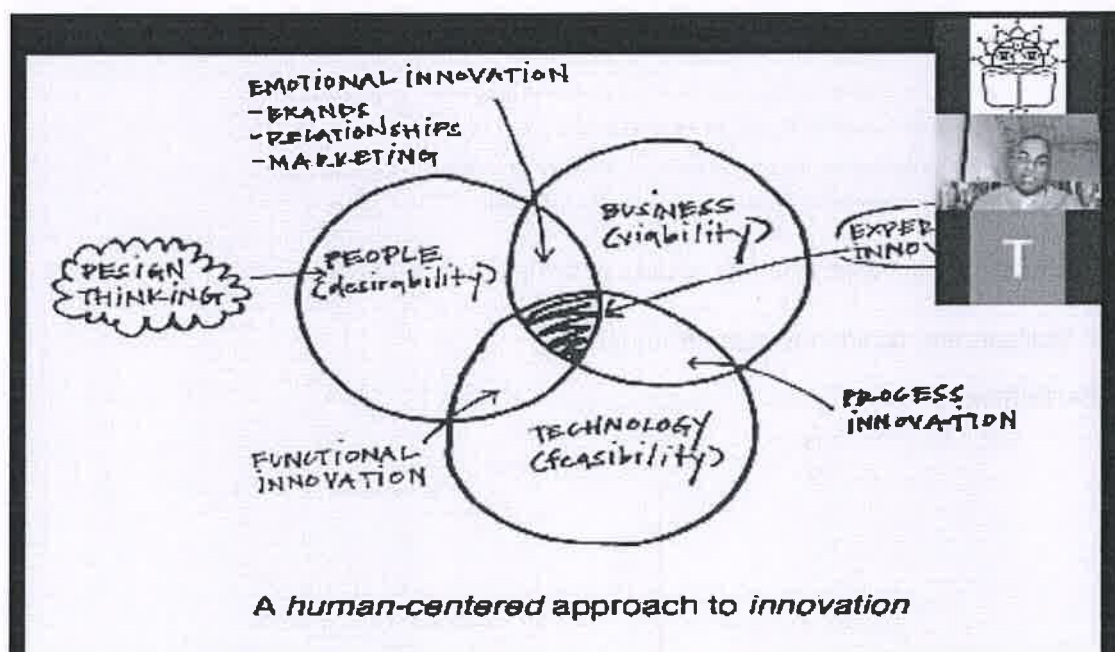
Join Zoom Meeting: <https://zoom.us/j/8676197907?pwd=ZG5PYWlXVHVhZkRSK3RlTGxmd21Pd009>

Dr. Jyoti Rangole  
Head ED Cell, IIC, Convener  
VPKBIET, Baramati

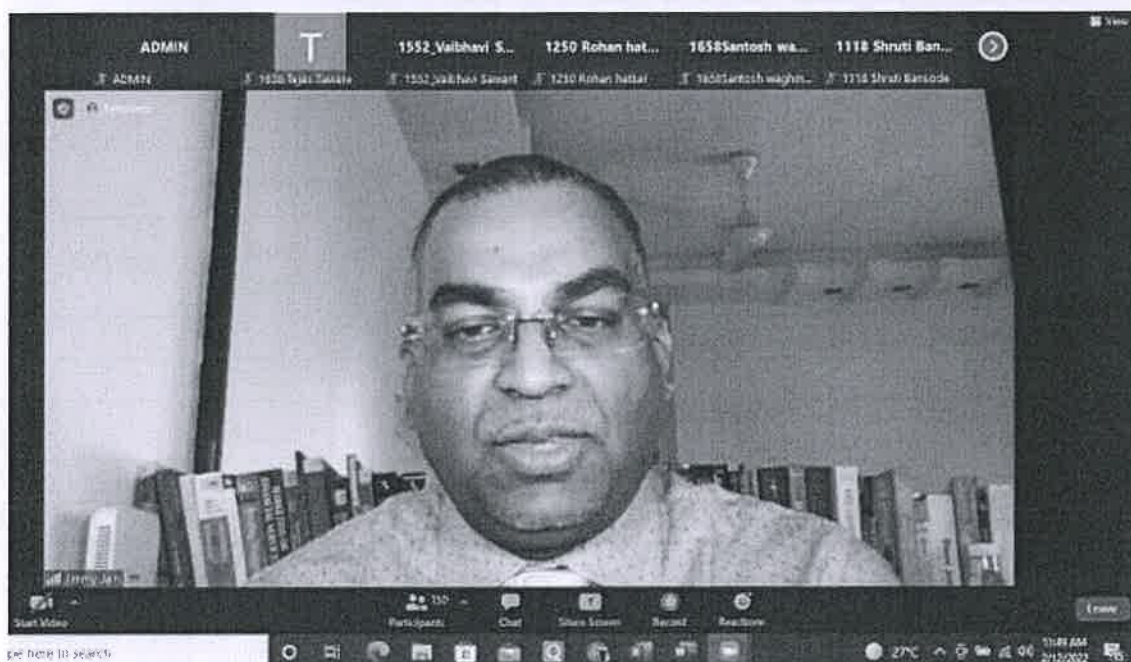
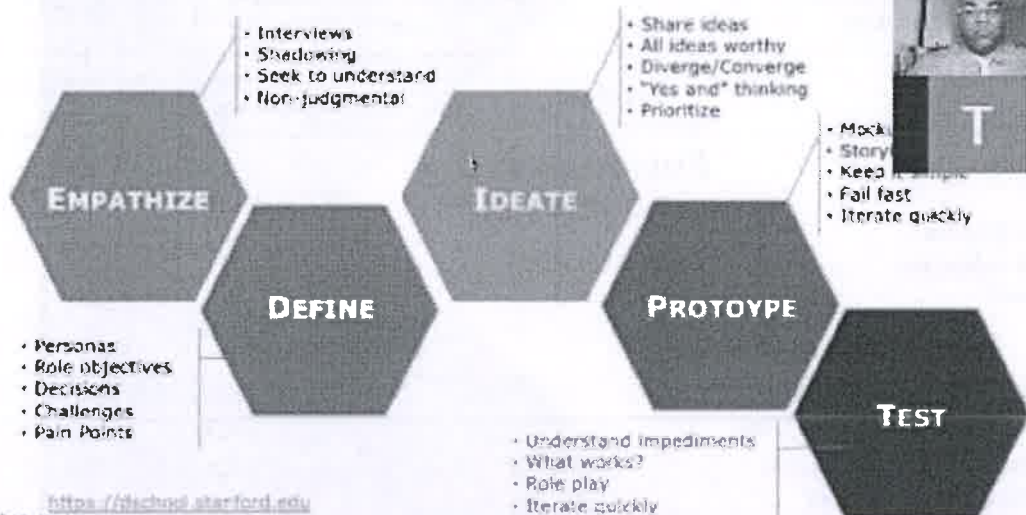
Dr. R.S. Biekar  
Principal, IIC, President  
VPKBIET, Baramati

Youtube link: <https://www.youtube.com/watch?v=9v20kPdIbKw>

Screen Shots:



# Stanford d.school Design Thinking Process



Identify a challenge.  
*ex. You can't eat ice-cream everywhere you want to*

Don't assume the answer in the question.  
*ex. How might we create a dripless ice cream cone?*

Be open enough for discovery, be specific enough for direction.  
*ex. How might we redesign ice-cream to be more portable?*

THE BRIEF

**Formulate**  
***"How Might We..."***  
**questions**

### Feedback Analysis:

Sr.no	Particulars	Responses				
		Strongly agree	Agree	Strongly Disagree	Disagree	
1	Whether objective of the session met	67.9%	32.1%	-	-	
2	The session was useful	71.6%	28.4%	-	-	
3	The presenter encouraged critical thinking and discussions	70.4%	29.6%	-	2%	
Rating out of 5 ( 5-Best, 1-Poor)		5	4	3	2	1
4	Overall rating of this session	75.3%	18.5%	3.7%	0%	2.5%







Vidya Pratishthan's Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati

Institution's Innovation Council



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

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Expert Talk Report

Topic: Expert Talk on IPR & Patent Drafting process

Date: 15th February 2022 Time: 4.00pm to 5.00pm

Contents of the program:

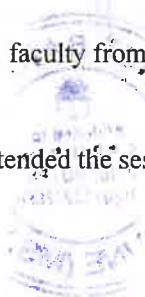
- a. Introduction to Intellectual Property Rights (IPR) including Geographical Indicator, Trade secrets Trademark, Copyright, Patents
- b. IP and its relevance in the scientific community
- c. Drafting of Patent
- d. Indian Patenting System
- e. Flow of Patent granting in India

Objective: To provide sound knowledge to the students and faculty about how to draft a patent and filing it.

Resource Person: Dr. Vinay Nagalkar, Assistant Professor, Department of ENTCT, VPKBIET.

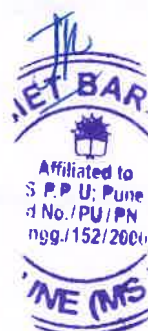
Participants: Students, faculty from the host institute and other institute.

No. of Participants Attended the session: 93



Feedback Analysis:

Sr. No.	Particulars	Response				
1	Learning objectives were clear	Strongly Agree 30%	Agree 59%	Strongly Disagree 4%	Disagree 2%	
2	Course content was organized and well planned	Strongly Agree 31%	Agree 57%	Strongly Disagree 5%	Disagree 2%	
3	Was the time for presentation enough?	Yes 94.7%	No 5.3%	-	-	
4	Are you willing to attend more sessions on IPR in Future?	Strongly Agree 42.1%	Agree 54.7%	Strongly Disagree 3.2%	-	
Sr. No.	Particulars	Response				
		Rating (5)	Rating (4)	Rating (3)	Rating (2)	Rating (1)
1	How would you rate the session on IPR & Patent Drafting Process?	51.6%	35.8%	5.3%	2.1%	5.3%
2	Is it going to help you in future for filing the Patents/ Copyright?	53.7%	31.6%	7.4%	4.2%	3.2%




Flyer of the program:

Vidya Pratishthan's Karmalnayan Bajaj Institute of Engineering & Technology, Baramati

Entrepreneurship Development Cell  
in association with  
Institution's Innovation Council  
Presents an Expert Talk on

**IPR & Patent Drafting Process**

Resource Person



Dr. Vinay Nagalkar  
Assistant Professor  
E&TC Department  
VPKBIET, Baramati

Date and Time

□ 15th February 2022  
□ Time - 4.00pm to 5.30pm

Zoom Meeting Link

<https://zoom.us/j/8676197907?pwd=ZG5PYWlXVHVzZkRSK3RITGxmd2lPdz09>

Details

Registration: <https://forms.gle/axySbgAuQtGwxhZ9>  
Contact: Dr. Jyoti Rangole and Mr. H. M. Shaikh  
E-CERTIFICATES will be awarded on successful completion.

Mr. Hafiz Shaikh  
Assistant Professor Dept. of Elect  
IPR Coordinator, IIC  
VPKBIET, Baramati

Dr. Jyoti Rangole  
Assistant Professor Dept. of E&Tc  
Head ED Cell and Convener, IIC  
VPKBIET, Baramati

Dr. R. S. Biekar  
Principal  
President, IIC  
VPKBIET, Baramati

Screenshots during the session:


Types of IPRs

Intellectual Property

Industrial Property

Copyrights and related rights

Industrial Designs Patents Trademarks Trade Secrets Geographical Indications Layout Designs of Semi Conductor ICs Plant varieties & Farmer's rights



VPKBIET, BARAMATI







## Flyer of the program

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati  
Entrepreneurship Development Cell  
in association with  
Institution's Innovation Council  
Presents an Awareness Program on



## National Pollution Day

Resource Person



**Dr. Priyadarshini Karve**  
Ph.D. Physics, University of Pune  
Director, Samuchit Enviro Tech.

Date and Time

☐ 18th February 2022

☐ Time - 11.00am to 12.00pm

Details

Zoom Meeting Link

<https://zoom.us/j/94740214296?pwd=SENKWThoeTQ2T2ZFOXRRlZUvL1BIUT09>

Registration: <https://forms.gle/QvKcqsrtGAnpYT8t5>

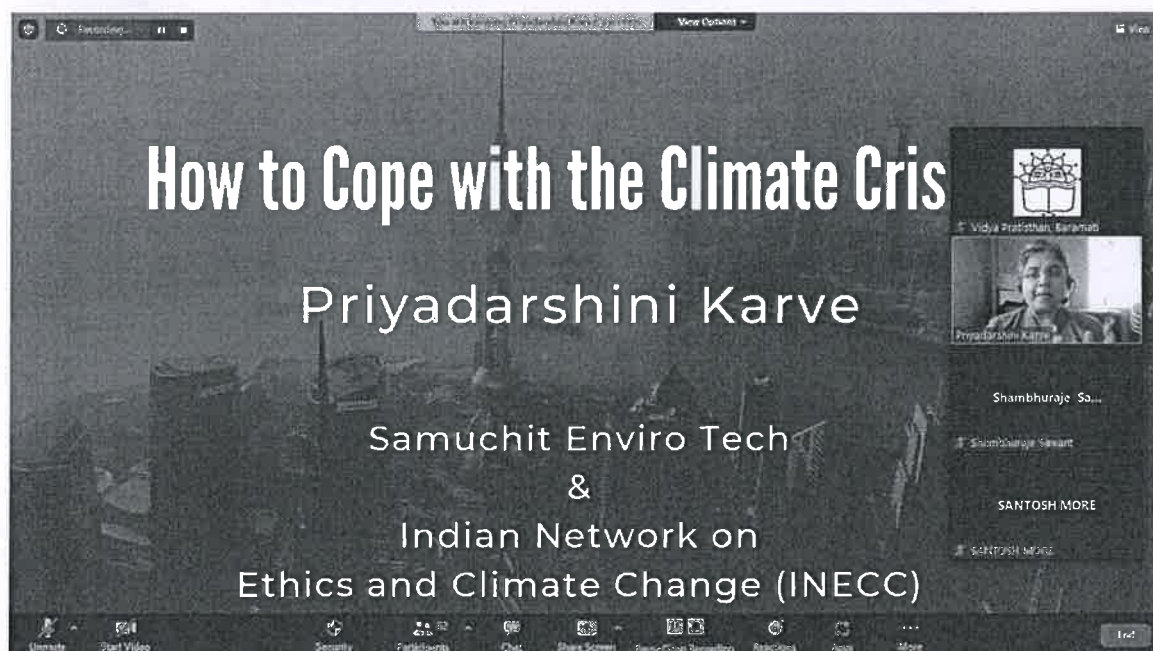
Contact: Dr. Jyoti Rangole, Mr. H. M. Shaikh & Mrs. Rupali Zargad

E-CERTIFICATES will be awarded on successful completion.

**Mr. Hafiz Shaikh**  
Assistant Professor Dept. of Elect  
IPR Coordinator, IIC  
VPKBIET, Baramati

**Dr. Jyoti Rangole**  
Assistant Professor Dept. of E&Tc  
Head ED Cell and Convener, IIC  
VPKBIET, Baramati

**Dr. R. S. Bichkar**  
Principal  
President, IIC  
VPKBIET, Baramati



### CURRENT

Per Capita Global CF  
~ 5 ton CO<sub>2</sub> eq  
2100 Projection  
~ 3 deg C warmer world



### GOAL

Per Capita Global CF  
<2 ton CO<sub>2</sub> eq  
2100 Projection  
~ 1.5 deg C warmer world

## Before Industrialisation

CO<sub>2</sub> in Atmosphere: ~ 250 ppm  
Avg Temp of Earth: ~ 13.7 deg C

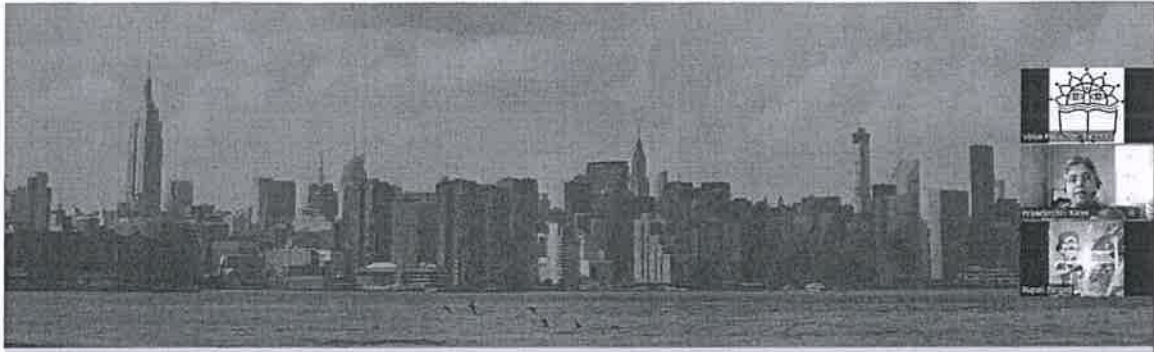


## At Present (2020s)

CO<sub>2</sub> in Atmosphere: ~ 410 ppm  
Avg Temp of Earth: ~ 14.5 deg C







**Thank you!**

**Priyadarshini Karve (pkarve@samuchit.com)**

Visit: [samuchit.com](http://samuchit.com) & [inecc.net](http://inecc.net)

Find 'Citizens of Sustainable City' on all Social Media Platforms







Vidya Pratishthan's Kamalnayan Bajaj Institute of  
Engineering & Technology, Baramati



### Institution's Innovation Council (IIC)

---

Topic: Webinar on "Innovation and Entrepreneurship as Career option"

Date: 26<sup>th</sup> February 2022

Total Duration: 11am-12 pm

Contents of the program:

- Challenges of Human life
- Science and Technology, Global and Indian Scenario
- Training and mentoring of scenario
- Innovation for global welfare and self reliant India
- Humanities top ten challenges for the next 50 years
- Qualities of Researchers
- Invention, innovation and discovery

Objective: To introduce participants the Innovation and Entrepreneurship as Career option

Resource person: Dr. Rajaram Sakharam Mane, Sr. Professor and Director, Innovation, Incubation and Linkages, SRTM, University, Nanded, India

Participants: Students, faculty from the host institute

Number of Participants: 74

Name of activity Coordinator: -Mrs. G.J. Chhajed







GMT20220226-053023\_Recording\_1760:900

## Research

Is an honest, scientific investigation undertaken for the purpose of discovering new facts or establishing new relationships among facts already known which will contribute to the present body of knowledge and can lead to an effective solution of existing problems.

**Researchers:**

*"Professionals engaged in the conception or creation of new knowledge, products, processes and methods and systems, and in the management of the projects concerned."*

**Your Research can change the world too**



Research is elitist, exclusive, discriminatory and at the highest levels of outstanding quality. Excellence in research is like high altitude climbing or marathon running. It is not meant for all.

12:17 PM  
3/2/2022

GMT20220226-053023\_Recording\_1760:900

## Humanities Top Ten Challenges for The Next 50 Years

1. ENERGY
2. WATER
3. FOOD
4. ENVIRONMENT
5. POVERTY
6. TERRORISM & WAR
7. DISEASE
8. EDUCATION
9. DEMOCRACY      2003   6.3 Billion People
10. POPULATION    2050   8-10 Billion People

12:18 PM  
3/2/2022



GMT20220225-053823\_Recording\_1760-900



# SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	SUSTAINABLE DEVELOPMENT GOALS

Universal Digital Access

Going to be forever.....

12:18 PM 3/2/2022

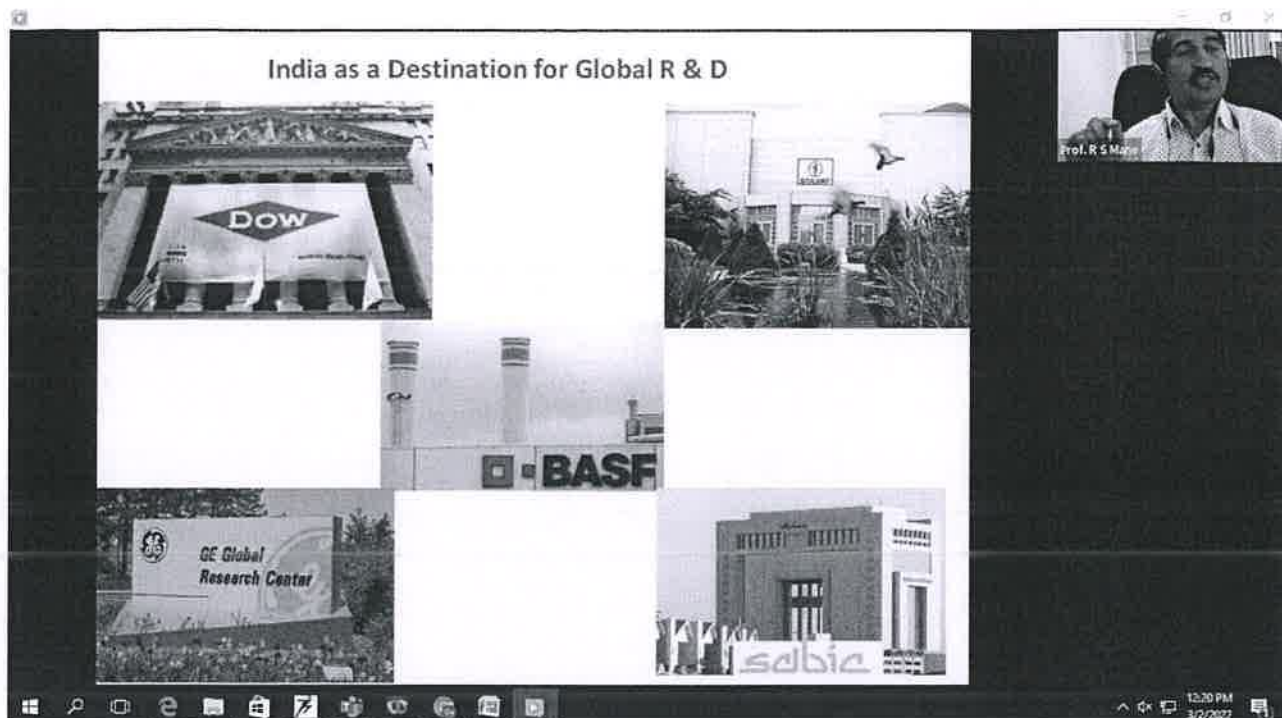
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## Qualities of a researcher

Curiosity	Imagination	Enthusiasm	Patience
Youth	Persistence	Faith	Courage
Common sense	Honesty	Modesty	

12:19 PM 3/2/2022





#### Feedback analysis:

Sr.no	Particulars	Responses		
		Excellent	Very good	Satisfactory
1	Whether session was informative ?	39%	51%	8%
2	Whether it is in-line to Topic of Webinar	46%	46%	8%

Sr.no	Particulars	Strongly agree	Agree	Neutral
1	Skills and responsiveness of the Presenter	36%	59%	2%
2	Webinar content [Learning objectives were clear]	25%	50%	9%
3	Webinar content [Webinar content was organized and well planned]	35%	45%	8%

Sr.no	Particulars	Yes	No
1	Whether your knowledge upgraded ?	100%	0









# Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

Institution's Innovation Council



## Webinar Report

Topic: Webinar on Role of Incubation centre in nurturing start up

Date: 25th July 2022 Time: 4.00pm to 5.00pm

Contents of the program:

- Relevant terminologies like: Start up, Incubators, Accelerators, Angel Investors, Unicorn, Venture capitalists.
- Start up: Innovation, Entrepreneurship
- Role of Innovation Ecosystem.
- Researcher and Entrepreneur.
- Genesis of start up

Objective: To make students aware about Incubation centre and start up.

Resource Person: CEng. Nikhil L. Kulkarni, Director, NETRARIT Foundation, Sangli Incubation Manager, KCIL Jalgaon

Participants: Students, faculty from the host institute.

No. of Participants Attended the session: 72



### Feedback Analysis:

Sr. No.	Particulars	Response				
1	Learning objectives were clear	Strongly Agree 31.6%	Agree 62.1%	Strongly Disagree 6.8%	Disagree 1.24%	
2	Course organized to allow all students to participate fully	Strongly Agree 37.26%	Agree 56.52%	Strongly Disagree 6.8%	Disagree 1.24%	
3	Course organized to allow all students to participate fully	Strongly Agree 36.02%	Agree 62.11%	Strongly Disagree 2.4%	Disagree 1.24%	
4	Are you willing to attend more sessions on Incubation centre and start up?	Yes 98.13%	No 1.24%	-	-	
Sr. No.	Particulars	Response				
		Rating (5)	Rating (4)	Rating (3)	Rating (2)	Rating (1)
1	How would you rate the session on Start up?	50.31%	39.13%	1.24%	2.48%	3.10%
2	Is it going to help you in future for start up?	44.09%	40.99%	9.31%	2.48%	3.72%

### Flyer of the webinar

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

**Entrepreneurship Development Cell**

in association with

**Institution's Innovation Council**

Presents Webinar on

**Role of Incubation center in nurturing start up**

**Resource Person**



**CEng. Nikhil L. Kulkarni**  
Director, NETRARIT Foundation, Sangli  
Incubation Manager, KCIL, Jalgaon

**Date and Time**

☐ 25th July 2022  
☐ Time - 4.00pm to 5.00pm

**Zoom Meeting Link**

<https://zoom.us/j/98264054545?pwd=R2w0aDAyVDJFbEYvT1kzWHVzMjVOUT09>

**Details**

Registration: <https://forms.gle/etbHeddwBAirb62a9>  
Contact: Dr. Jyoti Rangole and Mr. H. M. Shaikh

E-CERTIFICATES will be awarded on successful completion.

Mr. Hafiz Shaikh  
Assistant Professor Dept. of Elect  
IPR Coordinator, IIC  
VPKBLET, Baramati

Dr. Jyoti Rangole  
Assistant Professor Dept. of E&T  
Head I.D Cell and Convener, IIC  
VPKBLET, Baramati

Dr. R. S. Bichkar  
Principal  
President, IIC  
VPKBLET, Baramati



CEng. Nikhil Chhaya Lilakar Kulkarni

Director - NETRARIT, Foundation  
(DIN: 09642078)

Incubation Manager, KCILL, Jalgaon



**KBCNMU Centre for Innovation, Incubation and Linkages**

As a publication Center issued by Kiyomi R. Robinson, Cleveland North Main Branch University, Akron

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Website: <http://www.hkpa.org.hk>; E-mail: [hkpa@hkpa.org.hk](mailto:hkpa@hkpa.org.hk); Tel: 0137235760



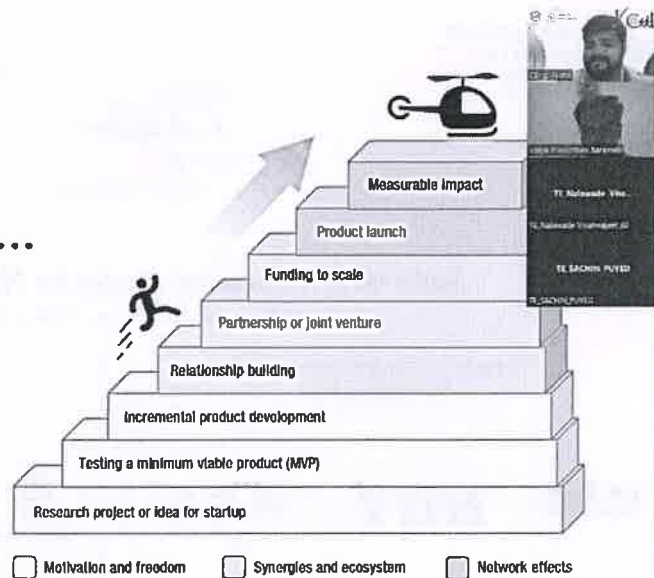
## DARK SIDE of Future भविष्याची काळी बाजू

- The **50%** of today's occupations will no longer exist by 2025
- Only **~18 %** engineers actually get a job

Where,  
Innovation ecosystem can help us



## Journey of startup ...



Incubator facilitates startups

Guide for entrepreneurs in Academia - Manual Startup, April 2019







# Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

Institution's Innovation Council



## Webinar Report

Topic: IPR & IP Management for Start up

Date: 27th July 2022 Time: 4.30pm to 5.30pm

Contents of the program:

- a. Introduction to IPR
- b. Nature of IP
- c. Classification of IP
- d. Patent
- e. Trademark
- f. Copyright

Objective: To make students aware about IPR and give knowledge about patent, trademark & copyright.

Resource Person: Dr. V. C. Oak, Assistant Professor, Law Department, VP Law College, Baramati

Participants: Students, faculty from the host institute.

No. of Participants Attended the session: 69



### Feedback Analysis:

Sr. No.	Particulars	Response				
1	Learning Objective of the session was fulfilled	Strongly Agree 11	Agree 8	Strongly Disagree 0	Disagree 1	
2	Course content was organized and well planned	Strongly Agree 11	Agree 9	Strongly Disagree 0	Disagree 0	
3	Was the timing for presentation enough?	Yes 100%	No 0%	-	-	
4	Are you willing to attend more sessions on IPR in future?	Yes 50%	No 50%	-	-	
Sr. No.	Particulars	Response				
		Rating (5)	Rating (4)	Rating (3)	Rating (2)	Rating (1)
1	How would you rate the session on IPR?	45%	35%	15%	0%	5%
2	Is it going to help you in future for protecting your product from infringement?	55%	25%	15%	0%	5%

### Flyer of the webinar

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

**Entrepreneurship Development Cell**

in association with

**Institution's Innovation Council**

Presents a Workshop on

## IPR & IP Management for Start up

**Resource Person**



**Dr. V. C. Oak**  
Assistant Professor  
Law Department  
VP Law College, Baramati

**Date and Time**

☐ 27th July 2022  
☐ Time - 4.30pm to 5.30pm

**Details**

**Zoom Meeting**

<https://zoom.us/j/98534332542?pwd=NXJzZWxaeDVlUUVtMDE5TmNSZGQzdz09>

Registration: <https://forms.gle/Xwx4zzEyV3TwE8L27>

Contact: Dr. Jyoti Rangole and Mr. H. M. Shaikh

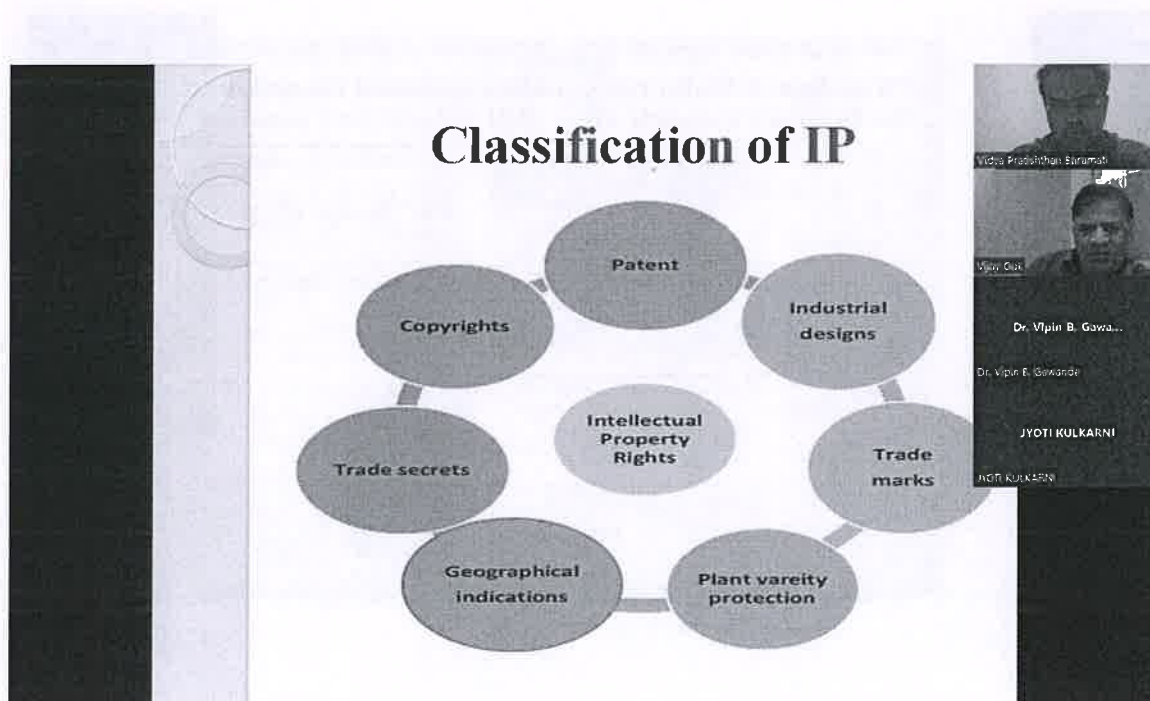
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Mr. Hafiz Shaikh  
Assistant Professor Dept. of Elect  
IPR Coordinator, IIC  
VPKBIET, Baramati

Dr. Jyoti Rangole  
Assistant Professor Dept. of Elect  
Head ED Cell and Coordinator, IIC  
VPKBIET, Baramati

Dr. R. S. Bichkar  
Principal  
President, IIC  
VPKBIET, Baramati





# Essentials of Patent Grant

Novelty

Utility

Non obviousness



Dr. Vipin B. Gawa

Dr. Vipin B. Gawa

JYOTI KULKARNI

JYOTI KULKARNI

## Chandigarh University makes national record in the field of research, files 500 patents in 7 years

Chandigarh University makes national record in the field of research, files 500 patents in 7 years. The university, which is a private institution, has achieved this feat by filing 500 patents in 7 years. The university has a strong focus on research and innovation, and this record is a testament to its commitment to these values.



### PATENTS FILED IN INDIA IN 2018-19



TOP 5 UNIVERSITY DEPARTMENTS OF CHANDIGARH UNIVERSITY IN TERMS OF NUMBER OF PATENTS FILED

Department	Number of Patents Filed
Engineering	175
Electronics and Communication Engineering	95
Electrical Engineering	60
Computer Science Engineering	44
University Center for Research and Development	30

### CUCET PHASE-2 NATIONAL ENTRANCE TEST

The fourth phase of the CUCET Phase-2 National Entrance Test was held on 10th April 2019. The test was held in two shifts, one in the morning and one in the afternoon. The test was held in a hall at the university. The test was held in a hall at the university. The test was held in a hall at the university.



Safety belt developed by Chandigarh University student

Vidya Pratishthan...

Vidya Pratishthan Barmani



Sonawala Deepak (Artem)

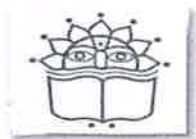
Tejas Pawar BE (M...)

Tejas Pawar BE (Mechanical)

Source: Hindustan Times







Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering &  
Technology, Baramati

Institution's Innovation Council



### Webinar Report

Topic: Webinar on Prototype Design and Development

Date: 28th July 2022 Time: 3.00pm to 4.00pm

Contents of the program: Innovation, PDLC, what is prototype, types and forms of prototype, examples, how to develop prototype, tips to follow while creating prototype

Objective: To make students aware of Product Development Life Cycle (PDLC)

Resource Person: Ms. Nidhi Agrawal, Co-Founder PathtoIPLLP, Indian Patent Agent

Participants: Students, faculty from the host institute.

No. of Participants Attended the session: 78

Flyer of the webinar

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering &  
Technology, Baramati  
Entrepreneurship Development Cell  
in association with  
MITSC and Institution's Innovation Council

**Presents a Webinar on**  
**Prototype Design and Development**

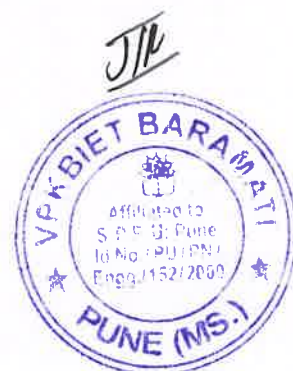
Date: 28 July 2022 Time: 3 pm to 4 pm

Zoom link : <https://zoom.us/j/96484800270?pwd=WVpxcVpjUHZ3dFhhREhKNKhuzjXdz09>

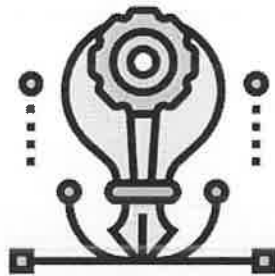
Ms. Nidhi Agrawal  
Co-Founder PathtoIP LLP  
Indian Patent Agent

Dr. Jyoti Rangole  
Head ED Cell, IIC, Convener  
VPKBIET, Baramati

Dr. R.S. Bichkar  
Principal, IIC, President  
VPKBIET, Baramati



## Screenshots of the webinar

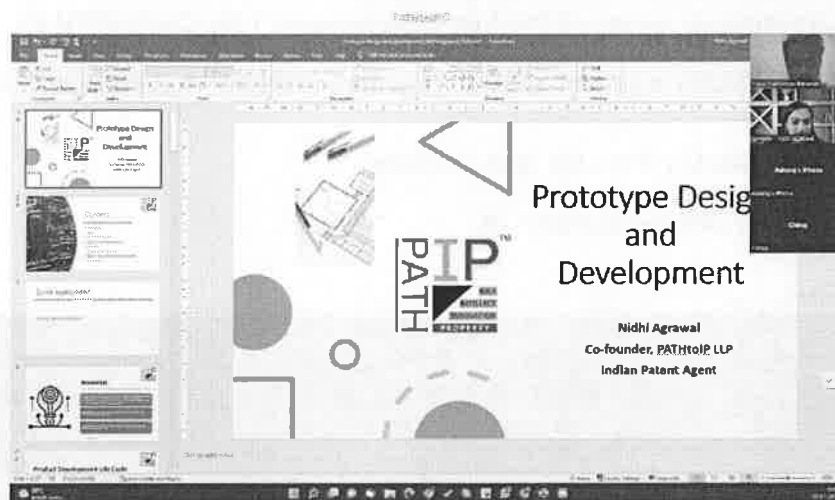


### Innovation:

An innovation is an idea that has been transformed into practical. For a business, this is a product, process, or business concept, or combinations that have been activated in the marketplace and provide new profits and growth for the organization.

Innovation is not only creating something new but also improving something that already exists.

Innovation is the process of turning a new concept into commercial success or widespread use.



### Conclusion



Creating and testing a product prototype brings you one step closer to launching your product on the market.



Saves time, reduce effective cost and efforts



Make sure to prepare for that in advance.



You can build an online presence for your business, starting with a website.

**PATHtoIP**  
NEW INTELLECTUAL PROPERTY AGENTS

PATHtoIP LLP



Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering &  
Technology, Baramati

Institution's Innovation Council



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Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering &  
Technology, Baramati  
Entrepreneurship Development Cell  
in association with  
MITSC and Institution's Innovation Council

INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

Presents a Webinar on  
**Prototype Design and Development**

Date: 28 July 2022 Time: 3 pm to 4 pm

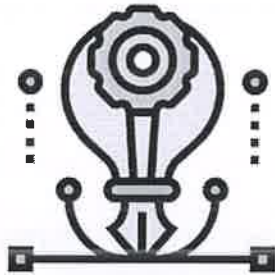
Ms. Nidhi Agrawal  
Co-Founder PathtoIP LLP  
Indian Patent Agent

Zoom link : <https://zoom.us/j/96484800270?pwd=WVpxcVpjUHZ3dFhhREhKNKhbzjXdz09>

Dr. Jyoti Rangole  
Head ED Cell, IIC, Convener  
VPKBIET, Baramati

Dr. R.S. Bichkar  
Principal, IIC, President  
VPKBIET, Baramati

## Screenshots of the webinar

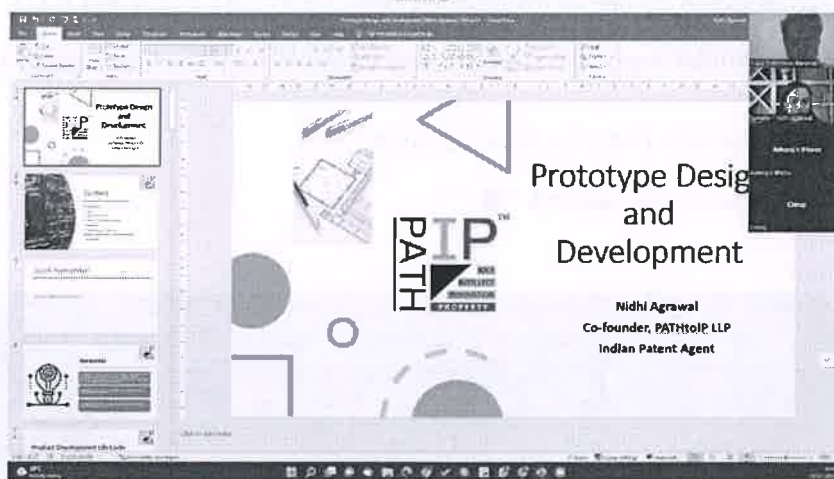


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## 9.6 Entrepreneurship Cell (5)

- Entrepreneurship cell is established at VPKBIET, Baramati in Dec 2018. Various events were organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur.
- EDC has conducted various activities for the college students creating and promoting entrepreneurship awareness at the campus.
- The goal of EDC is to assist students, entrepreneurs, including faculty, with pre-venture, start-up or existing business with financial management, marketing, technology and product development and commercialization issues.
- The students are given latest inputs about the industry, the changes happening and the expectations just to make them understand the employability options and opportunities to control unemployment and create better opportunities for youngsters.
- EDC creates an environment for self-employment; promote innovation, incubation and Entrepreneurship development through formal and non-formal programs.
- The Institute has a tie-up with Bharatiya Yuva Shakti Trust (BYST), AIC, ADT Baramati, MCED Pune, Venture Center, Pune and several training programs are conducted for students and faculty.
- **Vision**  
To develop successful entrepreneurs with integrity, innovation and leadership qualities to serve the society

### Mission

- To inculcate entrepreneurial culture and spirit among the students by providing guidance and mentoring through various programs
- To identify the potential entrepreneurs and facilitate them the support from ideation, IPR filing to startup establishment

### Short Term Goals

- To build a sustainable ecosystem for promoting entrepreneurship culture in young minds
- To impart entrepreneurial skills among the students by organizing workshops and seminars
- To develop a network of set of resources including students, faculties, mentors, angel investors, venture capitalists through startup/technology fares, expert talks and competitions

### Long Term Goal

To establish a sustainable technology business incubator

#### Activity Details:

Sr. No	Activity Details	Date	Venue	Audience
1	Faculty Development Programme on Entrepreneurship Development	3-12-2018 To 14-12-2018	VPKBIET, Baramati	Science and engineering faculty
2	Entrepreneurship Awareness Camp	10 -01-2019 To 12-01-2019	VPKBIET, Baramati	79 students of final year engg. participated
3	Entrepreneurship Awareness camp	17-01-2019 To 19-01-2019	VPKBIET, Baramati	100 students from final year and pre-final year engg. participated
4	A talk and mentoring clinic on Science and Technology Entrepreneurship and Funding Opportunities	05-02-2020	VPKBIET, Baramati	200+ students from S&T background of five VP institutes
5	Two day Mentor Development Programme	14-02-2020 To 15-02-2020	VPKBIET, Baramati	28 faculty Members from VPKBIET
6	Two day Mentor Development Programme	28-02-2020 To 29-02-2020	VPKBIET, Baramati	28 faculty Members from VPKBIET
7	Lecture Series on Entrepreneurship Development	26-10-2020 To 29-10-2020	VPKBIET, Baramati Online mode	Science and Technology students
8	BYST's Entrepreneur Online Learning (EOL) Programme	27-01-2021 To 28-01-2021	VPKBIET, Baramati Online mode	68 students of final year engg. Participated
9	Expert Talk on Journey from Ideas to Start-Up	20-08-2021	VPKBIET, Baramati Online mode	Faculty Members and students from VPKBIET
10	An expert talk on Funding Opportunities for Entrepreneurs	3-09-2021	VPKBIET, Baramati Online mode	Faculty Members from VPKBIET

Sr. No	Activity Details	Date	Venue	Audience
11	Building Start-up Eco-system at Campus	27-12-2021	VPKBIET, Baramati Online mode	277 students from VPKBIET Baramati
12	Motivational session by Start-up founder	11-02-2022	VPKBIET, Baramati Online mode	56 students from VPKBIET
13	Webinar on Skill, Attitude and Behavioral Development of Entrepreneurs	12-02-2022	VPKBIET, Baramati Online mode	74 students from VPKBIET
14	Webinar on Design Thinking and Critical Thinking	12-02-2022	VPKBIET, Baramati Online mode	130 students from VPKBIET
15	Expert Talk on IPR & Patent Drafting process	15-02-2022	VPKBIET, Baramati Online mode	93 students from VPKBIET
16	Webinar on Role of Incubation centre in nurturing start up	25-07-2022	VPKBIET, Baramati Online mode	72 students from VPKBIET
17	IPR & IP Management for Start up	27-07-2022	VPKBIET, Baramati Online mode	69 students from VPKBIET
18	Webinar on Prototype Design and Development	28-07-2022	VPKBIET, Baramati Online mode	78 students from VPKBIET
19	Entrepreneurship Awareness Camp	25-08-2022	VPKBIET, Baramati	55 students from VPKBIET Baramati

**Participation of Students and Faculty Members in Innovation and Startup Competitions**

Sr.No	Name of Competition	Name of Group Leader	Department	Name of Guide	Project Title
1	Ignited Innovators of India 2019	Mr.Akshay Nalawade	Mechanical Engineering	Dr.V.B.Gawande	Pesticide Flow Repellent Helmet for Farmers
2		Mr.Kumbhar Vasant	Electrical Engineering	Mr. Deepak Yeole	Self Power Infrastructure of Gym Building
3		Mr.Kumbhar Vasant	Electrical Engineering	Mr. Deepak Yeole	Smart Irrigation: An Approach Towards Better Agricultural Development in A India
4		Ms.Pranali Kadam	Electrical Engineering	Ms. Srimanti Rokade	Generation of Sustainable Energy at Bus Stand Using Piezoelectric Material
5		Ms.Ashwini Kolekar	Electrical Engineering	Mr.Pavan Upadhye	Adaptive Headlight System for Accident Prevention
6		Mr.Kiran Sonkamble	Electrical Engineering	Dr.N.B.Wagh	Electrifying Roadway
7		Mr.Kiran Sonkamble	Electrical Engineering	Dr.N.B.Wagh	New Form of Energy for Electrical Vehicles
8		Mr.Paigambar Shaikh	E&TC	Mrs. Jyoti Rangole	Multipurpose Egg Hatcher Machine
9		Ms.Aditi Ingale.	Computer Engineering	Mr.A.S.Disle	Biodegradable Plastic
10		Mr.Mansuke Daskar	Civil Engineering	Dr.S.G.Morkhade	Dynamic Analysis of Steel Castellated Beams
11		Mr.Vivek Jadhav	Civil	Ms.	Comparative



			Engineering	S.R.Deshmukh	Analysis of Water Distribution network by Epanet and Watergems for Jalochiarea
12	Nashik Engineering Cluster Innovation Challenge 2019	Ms.Shivpriya Yadav.	E&TC	Dr.V.J.Nagalkar	Smart Jacket
13	Smart India Hackathon 2019	Mr.Rushikesh Kale.	E&TC	Dr.V.J.Nagalkar Ms.Sonal Nikam	Cotton plucking machine
14	AICTE, DST and Texas Instruments India Innovation Challenge Design Contest 2019	Mr.Paigambar Shaikh	E&TC	Mrs.Jyoti Rangole	Multipurpose Egg Hatcher Machine
15	IETE, Pune Centre Innovation 2019 Project Competition	Mr.Sohel Shaikh	E&TC		Underwater Robot for Scientific Data Acquisition
16	IETE,Pune Centre Innovation 2019 Project Competition	Mr.Kanchan Rajguru	E&TC		Smart Energy Meter
17	eYIC 2019	Mr.Sohel Shaikh	E&TC		Underwater Robot for Scientific Data Acquisition
18	Krushik 2020 Expo	Ms.Aishwarya Fulari, Mr.Paigambar Shaikh	E&TC		Multipurpose Egg Hatcher Machine
19	Navonmesh 2020	Mr.Paigambar Shaikh	E&TC		Multipurpose Egg Hatcher Machine
20	Navonmesh 2020	Ms.Aishwarya Fulari	E&TC		Sugarcane bud detection and cutting machine

#### MOUs Signed

Sr. No	Name of Organization	Date
1	AIC, ADT, Baramati	13 Jan 2020
2	MCED, Pune	28 Dec 2018

### Company Registrations by Students

Sr. No.	Name of Startup	Name of Student/Faculty	Product
1	Aeronics Pvt. Ltd. Year of registration 2019	Ms.Aishwarya Phulari	Automatic sugarcane bud detection and cutting machine
2	Hatchlogic Electrosolutions Pvt. Ltd. Year of registration 2019	Mr.Paigambar Shaikh	Multipurpose egg hatcher
3	Innovatic Pvt. Ltd.	Mr.Mosam Bhong	Sanitization systems
4	Byte Electronics Year of registration 2019	Mr.Alok Babar	PCB Design, Electronics product design and development
5	Clover Year of registration 2021	Mr.Akshay Bujbal Mr.Swarali Babar Dr.Vipin Gawande	3D Printer and CNC machine
6	Renu Udyog Samuh Year of registration 2017	Mr.Vaibhav Nagargoje	Electrical services, Media & Digital Marketing, Financial bank, Spices Manufacturing

### Funding Proposals Submitted

Sr. No.	Scheme	Funding Agency	Year of application	Remark
1	NewGen IEDC	DST	13 July 2019	Result Awaited
2	NIDHI PRAYAS	DST	2020	Student proposals submission in process ( Mech: 2 EnTc:1)
3	NIDHI EIR	DST	2020	Student proposals submission in process (EnTc: 2)

### Details of NIDHI PRAYAS Proposal Submission (Aug 2020)

Sr. No.	Name of Student	Department	Name of Mentor
1	Rohit Mahavir Gandhi	Mechanical	Prof. Keshav Jadhav
2	Akshay Uday Budhabal	Mechanical	Dr. Vipin Gawande
3	Tushar Hajare	EnTc	Jyoti Rangole

**Details of NIDHI EIR Proposal Submission (Aug 2020)**

Sr. No.	Name of Student	Department	Name of Mentor
1	Paigambar Shaikh	EnTc	Jyoti Rangole
2	Aishwarya Phulari	EnTc	

**Faculty and Students' Achievements**

Sr. No.	Name of Competitions / Project	Name of Syudents	Name of Faculty	Remark
1	Nashik Engineering Cluster Innovation Challenge 2019	Ms.Shivpriya Yadav Ms.Payal Yadav Mr.Swanand Khaladkar Mr.Vaijnath Khomane	Dr.Vinay Nagalkar	Won 3rd Prize and got seed funding for the patented project.
2	Smart India Hackathon 2019 held at DSU Bangalore Nodal Center	Mr.Rushikesh Kale Mr.Nivrutti Kadam Ms.Samata Surwase Ms.Shraddha Raje Ms.Vaishnavi Vidhate Ms Poonam Pawar Mr.Vaijnath Khomane	Dr.Vinay Nagalkar  Ms.Sonal Nikam	Received incubation and cash prize of Rs. 50000/- from Mahyco MNC
3	Automatic Sugarcane Bud Detection and Cutting System	Ms.Aishwarya Fulari	Dr.Sudhir Lande, Mrs. Jyoti Rangole  Dr.Vinay Nagalkar	Received incubation from Atal Incubation Centre at Agricultural Development Trust Baramati 2020
4	Sugarcane Bud Detection and Cutting Machine	Ms.Aishwarya Fulari, Mr.Anuj Fulari	Mrs.Jyoti Rangole Dr. Vinay Nagalkar	Won Second Prize at Navember 2020, organized by, Atal Incubation Center, ADT, and Baramati
5	Underwater robot for scientific data acquisition at IETE, Pune Centre Innovation 2019	Mr.Sohel Shaikh, Ms.Bhupali Nagane, Mr.Suraj More	Mrs. Jyoti Rangole	Received consolation prize 2019

Sr. No.	Name of Competitions / Project	Name of Students	Name of Faculty	Remark
6	Underwater Robot for Scientific Data Acquisition	Mr.Sohel Shaikh Mr.Shubham Kumbhar Ms.Bhupali Nagne Ms.Komal Nagawade	Mrs.Jyoti Rangole	Shortlisted among top 21 teams from all over India in eYIC 2019 competition, organized by IIT, Bombay on 5 <sup>th</sup> and 6 <sup>th</sup> April 2019
7	Agriculture products Krushik 2020	Students of E&TC	Mrs.Jyoti Rangole	Presentation to Hon. CM and Deputy CM, Maharashtra state
8	Automatic Hand Sanitization Machine	Mr.Mosam Bhong	Mrs.Jyoti Rangole	Installed in Vidya Pratishthan's Campus
9	India Start-up Week	-	Dr.Jyoti Rangole, Dr.Sudhir Lande Dr.vinay Nagalkar	Selected for presentation of the product at India Startup week Jan 2022

#### Projects Selected/Received Incubation

Sr. No.	Title of Project	Incubation Center	Remark
1	Smart Helmet	Bhau Cell COEP	Received 10 Lakhs funding under NIDHI PRAYAS scheme
2	Image Processing based Detection of Ripening of Custard Apple 2021	Bhau Cell COEP	Received 3.5 Lakhs under NIDHI EIR scheme
3	Automatic Sugarcane Bud Detection and Cutting Machine 2021	Ministry of Education Innovation Cell, MHRD	Received 2.15 Lakhs funding from Ministry of Education, Innovation Cell, MHRD. Selected for product presentation at India Startup Week 2022





## Product Development Stories

### 1.Mr. Paigambar Rashid Shaikh

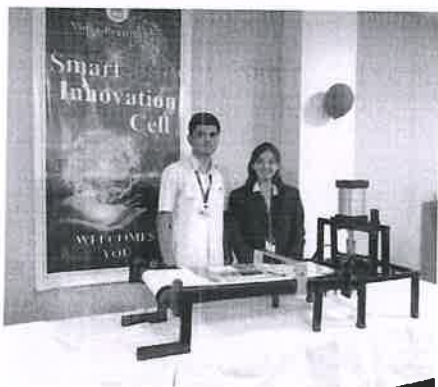


Mr. Paigambar Rashid Shaikh graduated in Electronics and Telecommunication Engineering from VPKBIET, Baramati in 2020. He launched his start-up in September 2020. At present, he is working as the director of Hatchlogic Electrosolutions Company.

He started his journey with an academic mini-project in the third year of engineering. The project was based on designing a low-cost multipurpose egg hatchery machine to improve the rural economy. He presented the system at various state and national level innovation and start-up competitions. His efforts were appreciated at AICTE, DST & Texas Instruments India Innovation Challenge Design Contest 2019, "NAVONMESH BOOT CAMP" organized by AIC ADT Baramati. His patent on the said technology got published in March 2021.

With the support from the ED cell of the institute, he was connected with BYST Pune, who helped him in raising the seed funds to initiate the start-up.

### 2.Ms.Aishwarya Fulari



Ms. Aishwarya Fulari, postgraduate in Electronics- Digital System from VPKBIET, Baramati, in 2020. Her product development journey started with an academic project which aimed at the design of automatic sugarcane cutter with bud detection. The system is a blend of Artificial Intelligence, cutting-edge technology and mechatronics. The system will help the farmers to a greater extent by ensuring 100% plantation. This could result in increased sugarcane yield and improve the agriculture economy. She presented the system at state and National level innovation and start-up competitions such as Avishkar, Novonmesh 2020 at AIC-ADT, Baramati. The patent filed on this technology is now published. Institute helped her at every stage of product research and development.



### 3. Mr.Akshay Uday Budhabal and Ms. Swarali Sunil Babar



Mr. Akshay Uday Budhabal, a student from second year Mechanical Engineering and Ms. Swarali Sunil Babar, a student of second year Electronics and Telecommunication Engineering, from VP's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati, has started their own Start -Up called "CLOVER", a 3D printer manufacturing firm.

During a pandemic situation, these two students work on the idea to develop an innovative and cost-effective 3D Printer. They shared their ideas with their faculty member, Dr. Vipin B. Gawande, Assistant Professor, from the Department of Mechanical Engineering and as a team they work together to develop their own 3D Printer. The printer has various features like low noise, easy handling, efficient and cost effective.

A 3D printer is based on additive manufacturing and print three dimensional (3D) parts with ease. This technology has a vast application in the field of automobile, manufacturing industry, aerospace, space, education etc. The 3D printer developed by this team is now available in the institute to develop various 3D objects and products as a part of academic projects. At the same time, under the shelter of Institute Entrepreneurship Cell, the team CLOVER is working on the expansion of their startup. Recently, they have presented their product in the KRUSHAK-2021, agricultural exhibition organized by Krushi by Krushi Vidnyan Kendra, Baramati.



### 4. Mr. Alok Chandrashekhar Babar



Mr. Alok Chandrashekhhar Babar, studying in Final Year (Electronics and Telecommunication) Engineering, at VPKBIET, Baramati, launched his start-up in November 2020. He is working as a director of BYTE ELECTRONICS Company which is particularly involved in PCB design and manufacturing. He is also keen on designing electronics automation systems for the healthcare and agriculture sector. In covid 19 pandemic, he worked on designing sanitization systems including a hand sanitizing machine, UV disinfection box, and medical oxygen saving system. He participated in various workshops, webinars, guest lectures organized by the Entrepreneurship Development Cell (ED Cell) of VPKBIET, Baramati, which motivated him to choose entrepreneurship as the career option.

#### 5. Mr.Mosam Bhong



Mr.Mosam Bhong, a student of Electronics and Telecommunication Engineering, at VPKBIET, Baramati, in 2021 worked on the design and development of sanitization systems. In covid 19 pandemic, he worked on designing sanitization systems including a hand sanitization machine, sanitization tunnel.

#### 6.Mr.Vaibhav Nagargoje



Vaibhav Nagargoje Started his journey from VPKBIET BARAMATI as a student of Electrical Engineering. He joined Renu Udyog Samuh as Co-owner in January 2021 with his partner Mr. Pranit Munde. Both of them proceed with Manufacturing ( 150+ products ) to wholesale ( many companies Agency ) and retail business in combination of Electrical



business ( Wiring , Solar and Wholesale).Within just 6 months they are distributing in 4 districts namely Beed , Aurangabad , Pune , Mumbai.





- **Dr. Vinay Nagalkar**

He won First Prize for the Best Ph. D research in Medicine and Pharmacy discipline at Intra-University Student Research Festival Avishkar 2018. It was held at S.G.B. Amravati University in Amravati. He was felicitated by Honorable Dr. Vijay Bhatkar (Architect of Indian Super Computer).



Dr. Vinay Nagalkar is felicitated by Dr. Vijay Bhatkar

**GUEST LECTURES DELIVERED IN FDP OR CONFERENCES OR SEMINARS ATTENDED**

- **Dr. Vinay Nagalkar**

He delivered an expert lecture on the topic *Marketing Management and Marketing Support* as resource person for Faculty Development Program on National Science and Entrepreneurship Development. This program was conducted during 3 to 13 December 2018. The program was organised by Science and Technology Park, Pune in association with Department of Science and Technology, Central Government of India.



Dr. Vinay Nagalkar during the Faculty Development Program



e-Newsletter

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## • Mr. Vaijnath Khomane and Mr. Swanand Khaladkar

They received Incubation for their project from AIC-AARTECH. The project was guided and mentored by Prof. Vinay Nagalkar.



## • TOPPERS IN NPTEL COURSES

Two students appeared for NPTEL Examination and received Gold Certificates in the Examination which was conducted in October 2018.



Anuj Fulari      Rahul Hasule

Sr. No	Name	Course	Score	Certificate Type
1	Fulari Anuj Namdeo	Discrete Mathematics	96	Elite+Gold
2	Fulari Anuj Namdeo	Programming in C++	90	Elite+Gold
3	Hasule Rahul Sunil	The Joy of Computing using Python	99	Elite+Gold





**e-Newsletter**

**JANUARY**  
**2019**

• **Four students from Department of Electronics and Telecommunication Engineering** participated in a National Level Project Competition which was conducted by Government of India and College of Engineering, Pune for Engineering students. The Integrated Technologies (In-Tech) Olympiad 2019 was a National Level Project Competition.

This event was designed to bridge the gap between industry and academia through live projects. In the first round 25 students got selected and in the second round following four third year students got selected for the National level.



**Mr. Kalpesh Shah   Ashish Kulkarni   Bhupali Nagne   Shubham Temkar**

• **Four students from Department of Electronics and Telecommunication Engineering** participated in a Technical Exhibition Mindspark at College of Engineering in Pune. They won the Prize of Rs. 25000 in this Competition. These students were: Kalpesh Shah, Rushab Patni, Vajinath Khomane and Amol Pawar.



Students during the Mindspark Exhibition at COE, Pune

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- **Students' Achievements in Hackathon and Project Competitions**

Four students were shortlisted for Hackathon 2018 which was organised by IIT, Hyderabad. Hackathon was organised on 27 and 28 October 2018. Students shortlisted in this project were Amit Sawant, Rohan Tanwar, Rushikesh Shirawale and Akash Sawant.



VPKBIET Students and other participants during the Competition

- Four students from Department of Electronics and Telecommunication Engineering participated in a Technical Exhibition, Mindspark at College of Engineering in Pune. They won the Prize of Rs. 25000 in this Competition. These students were: Kalpesh Shah, Rushab Patni, Vajinath Khomane and Amol Pawar.



Students during the Mindspark Exhibition at CoE, Pune





## e-Newsletter

APRIL  
2019

I TEACH BECAUSE  
I'M STILL INSPIRED  
BY A GREAT TEACHER  
I HAD WHEN I WAS A  
KID. SO, I GET THAT  
WHAT WE DO  
EVERY SINGLE DAY  
TRULY MATTERS.

• Sigma Systems is one of the reputed software companies. It organized “Talent Concalve-2019” competition during 18 December to 4 January 2019. Third Year students from Computer Engineering Department: Anjali Barge and Apurva Bhoite participated in the competition. Their paper on “*Innovative Use of AI and IoT to Define Smart City Service*” was awarded the First Prize. Dr. Chaitanya Kulkarni guided these students.



Anjali Barge and Apurva Bhoite during the Competition

• Third Year Students of Electronics and Telecommunication Engineering Department participated in National Finale of eYIC Competition. It was organised by IIT, Bombay on 5 and 6 April 2019. During panel discussion, students got opportunity to interact with Dr. Jaya Goyal from British Council, Mr. Gurindersingh Malik, Senior Consultant, MHRD, Govt. of India, Mr. Kour from Mahindra CEI and Prof. Kavi Aarya, Principal Investigator of eYantra, IIT, Bombay. Our students demonstrated their project on “Underwater Robot for Scientific Data Acquisition” and received the Merit Certificate. This Project was selected from 362 entries from all over India. Ms. Jyoti Rangole guided students for this project. Mr. Malik assured them that he will guide them to get connected with the concerned experts from national institutes like NIOT Chennai and NPOL, Kochi for further development of the project.



Students during the e-YIC Competition



## e-Newsletter

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- A Second Year student from Department of Electrical Engineering namely, Shyam Dange won the 2<sup>nd</sup> Prize in *Brain Wave 2019* in Techno Quiz. It was a State Level Competition organised by VIIT in Baramati on 18 January 2019.



Shyam Dange receives the Certificate during Competition

- A Third Year student from Department of Information Technology namely, Abhishek Mankar was selected in National Youth Parliament Festival 2019. He attended Prime Minister of India, Narendra Modi's Interaction with Students at Delhi.



Mr. Abhishek Mankar during the Program





## e-Newsletter

APRIL  
2019

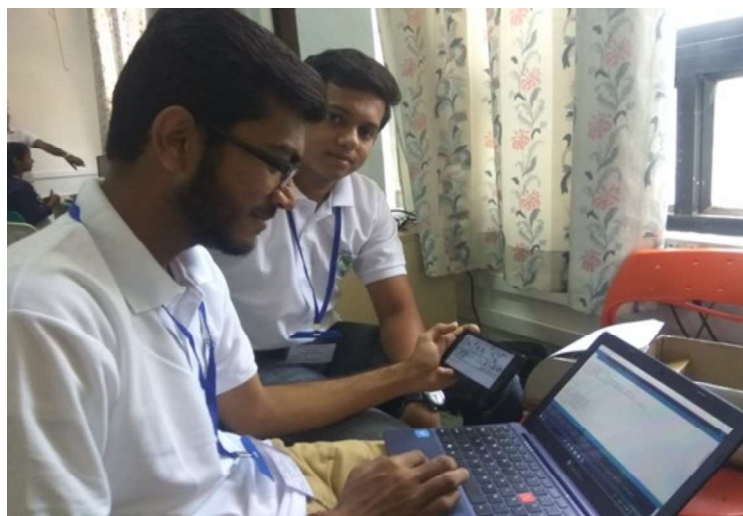
Education's  
purpose is to  
replace an empty  
mind with an  
open one. - Malcolm  
Forbes

• BE students from Department of Mechanical Engineering participated in “DIPEX-2019” Project Competition-cum-Exhibition during 2 to 5 March 2019. It was organised by SGGSIET in Nanded. These students were: Dhananjay Kshirsagar, Mayur Babar and Anmol Pawar. They presented their project entitled “Vibration Control by using Particle Damper”. They were guided by Mr. S H Kumbhar.



Students appreciated by Hon. Principal and Faculty members at VPKBIET

• Third Year students from Department of Mechanical Engineering participated in “RIT Hackathon 2019” Project Competition. It was organised by RIT, Islampur during 29 and 30 March, 2019. These students were: Anoop Rode, Mohit Pingale and Mayur Barhate. The students presented their project model entitled “Godown Dehumidifying System”. They were guided by Mr. S H Kumbhar.



Students during the Project Competition

• BE students from Department of Mechanical Engineering presented their paper in the National Conference on Recent Trends and Innovations in Engineering, Science and Technology. It was organised by Sinhgad Institute of Technology and Science at Narhe in Pune. The students were: Aniket Owai, Mayank Singh, Saurabh Nadgire and Avdhoot Changune. Their paper was entitled “Value Stream Mapping in Weld Shop”. It was a SPPU sponsored Conference and was organised on 14 and 15 February 2019. They were guided by Dr. M S Lande.



**e-Newsletter**

**APRIL**  
**2019**

**Vidya Pratishthan's  
Kamalnayan Bajaj  
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Vidyanagari  
Baramati**



Students were appreciated by Faculty members and Hon. Principal at VPKBIET

- BE students from Department of Mechanical Engineering presented their paper in the National Conference on Recent Trends and Innovations in Engineering, Science and Technology. It was organised by Sinhgad Institute of Technology and Science at Narhe in Pune. The students were: Amar Deolalikar, Mahendrakumar Gandhale and Dipak Chikane. Their paper was entitled "Zero defect strategies at system level for multistage manufacturing in paint shop". It was a SPPU sponsored Conference and was organised on 14 and 15 February 2019. They were guided by Dr. S C Bali.



Students during their paper presentation in the Conference

### **Felicitation of Toppers by All Departments**

- The Institute felicitated and appreciated the University Examination Toppers from First year to Final Year in each Department. The purpose was to motivate the students and develop their confidence to perform better in upcoming examinations. 300 different prizes were given to students in the categories of subject toppers, class toppers and Department toppers in the presence of Hon. Principal, Dean Academics, HoDs and faculty members.



Hon. Principal, Dr. R S Bichkar, Dr. Rajveer Shastri, Faculty Members and Students during the Program

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**e-Newsletter**

**AUGUST**

**2019**

• **Ms. Komal Jadhav and Ms. Shridevi Swami**



They attended a Faculty Development Program on "Programming with PL/SQL" during 6 to 10 May 2019.

The Program was organised at Modern Education Society's College of Engineering in Pune in coordination with ICT

Academy and Oracle Academy.

**Dr. Vipin Gawade**

He was appointed as a Session Chairperson for the event "**MECHPGCON-2019**" which was organized by Department of Mechanical Engineering at Amrutwahini College of Engineering in Sangamner. The program was organised under the aegis of Board of Studies of Mechanical Engineering, Savitribai Phule Pune University during 21 to 22 June 2019.



Dr. Vipin Gawade during the program

**WORKSHOPS/FDPs/SEMINARS/CONFERENCES ORGANISED**

**Mr. Dinesh Zende**



He organized a One-Week Faculty Development Program on "Introduction to Artificial Intelligence". This program was conducted at Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology in Baramati in association with NITTTR Kolkata during 6 to 10 May 2019. 23 Faculty members participated in this Faculty Development Program and the program proved useful for them.



- **Mr. Avinash Kokare**

He organized a One-Week Summer Internship Program on 'React JS' at Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology in Baramati during 10 to 15 June 2019.

**Department of Civil Engineering** organized a One-Day workshop on "Advanced Building Materials" on 23 August 2019. It was organised in collaboration with Ultra Tech Cement Pvt. Ltd. under ISTE chapter. Masons, contractors, builders around Baramati, faculty members and students of Second Year participated in this workshop. The workshop proved useful for all the participants.



Faculty members and students during the Workshop

**Department of Electrical Engineering** organised various competitions like group discussion and personal interviews for students on 22 July 2019. These Competitions were organised on the occasion of birthday of Hon. Trustee, Mr. Ajitdada Pawar. All SE, TE and BE students participated in the competitions. Prize winners were felicitated. Ms. Siddhi Popade won First Prize for Elocution competition.



Students during group discussion and presentations



The Institute provided One-Week Training during 10 to 15 June 2019. The trainers were provided by Zensar Technologies. It was a Employability Skills Development Program on “Core Java and Soft Skills” for shortlisted BE IT students. 27 students benefitted from this program and the program proved useful for them. The names of trainers were: Mr. Vijay Pradeep, Mr. Pradip Kakde, Mr. Rahul Mhaske and Mr. Vinayak Ghawale.



Students during the training program

**Faculty members from Mechanical Engineering Department**, namely Dr. Purushottam Chitragar Mr. Pravin Dhandore, Mr. Suraj Kumbhar, Mr. Akshay Bhapkar and Mr. Prasad Galande were deputed for in-plant training at Bharat Forge in Baramati during 8 to 13 May 2019. They underwent the training to update their knowledge about latest technology adoption in industry. During the above period, they studied current technological advances and underwent shop-floor process training.



Dr. Purushottam Chitragar and other faculty members during the training





• Smart India Hackathon is an initiative by Ministry of HRD, AICTE, Persistent Systems, i4c and Rambhau Mhalgi Prabodhini. They jointly organized Smart India Hackathon 2019 which is National Level Project Competition. Seven students from Department of Electronics and Telecommunication Engineering were shortlisted in Hackathon which was organised during 8 to 12 July 2019. Students shortlisted for Project were Shraddha Raje, Poonam Pawar, Vajinath Khomane, Samata Survase, Nivrutti Kadam, Rushikesh Kale and Vaishnavi Vidhate. They represented their Team namely, "Surgical Strike". In First round, 500 teams were shortlisted. In the Second Round, 200 teams were shortlisted. Finally in Third Round, these six students got selected for the National Level. Team "Surgical Strike" solved the problem statement given by Mahyco Company and won the First Prize in the Hackathon 2019. Mr. Vinay Nagalkar and Ms. Sonal Nikam guided these students for the Competition.



Students and Faculty Members during SIH 2019 Competition

**B.E students from Mechanical Engineering Department**, namely Sachin Bichitkar, Prasad Buddiyal, Siddhant Chavan and Ajinkya Kulkarni presented their research paper entitled "CFD analysis of wind turbine with different flange angles" in international Conference on Applied Mechanical Engineering Research (IC-AMER2019). It was organised by National Institute of Technology (N.I.T) Warangal during 2 to 4 May 2019. Dr. Vipin Gawande guided the students during their projects.





**e-Newsletter**

**AUGUST  
2019**

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## STUDENTS' ACHIEVEMENTS



Students during paper presentation

**ME students from Department of Civil Engineering** presented their papers on project work in International Conference on "Rehabilitation and Retrofitting of Structures". It was organised by DAE Center Anushakti Nagar in Mumbai during 24 to 25 June 2019. One of the papers of Kamalkishor Sharma was selected as Book Chapter for book on Rehabilitation and Retrofitting of Structures. Jayshree Khatal presented her paper on "Evaluation of strength of concrete by using self-healing bacteria". Ashwini Bhosale presented her paper on "Reinforced concrete slab strengthened with carbon fibers experimental test result". Kamalkishor Sharma presented his paper on "Experimental study on confinement effectiveness of circular concrete filled steel tubular column with variable thickness under axial compression" and Dhyananeshwar Nikam presented his paper on Design mix for high strength concrete using VSI sand".



Resource person, faculty and students during the Conference

**e-Newsletter****OCTOBER****2019**

**Vidya Pratishthan's  
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Baramati**

- **Aishwarya Phulari, Anuj Fulari  
Shubham Kumbhar and Amol Pawa**

Four students from our Institute presented the project titled, "Automatic Sugarcane Bud Detection and Cutting System" at Navonmesh Competition organized by Atal Incubation Centre At Agricultural Development Trust Baramati. They received the second prize worth Rs.7000 and Trophy. These students are Aishwarya Phulari, Anuj Fulari, Shubham Kumbhar and Amol Pawar.



Students and their Guides during Competitions

- **Paigambar Shaikh and Aishwarya Fulari**

**Two projects from E and TC Engineering Department** received incubation from Atal Incubation Centre at Agricultural Development Trust in Baramati. The projects are: Multipurpose Egg Hatching Machine. The student is Paigambar Shaikh and he is guided by Mrs. Jyoti Rangole. The second project is Automatic Sugarcane Bud Detection and Cutting System is by student Aishwarya Fulari and she is guided by Dr. Sudhir Lande, Mrs. Jyoti Rangole, Mr. Vinay Nagalkar.



Students and guides receiving the prize for the incubation centre

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**e-Newsletter**

**JANUARY**

**2020**

"A true teacher admits what he or she does not know and then helps students to find the answer."

## **FACULTY'S ACHIEVEMENTS**

- **Dr. Sudhir Lande, Dr. Vinay Nagalkar  
Mr. Balasaheb Patil and Mrs. Jyoti Rangole**



These faculty members from Electronics and Telecommunication Engineering Department have filed 9 patents along with students' groups. Some of the projects include the titles like 'Design of Automatic Sugarcane cutter with Bud Detection' and 'Multipurpose Egg Hatching Machine'. These patents were filed in November 2019. Two projects of these faculty members have received incubation from Atal Incubation Centre at Agricultural Development Trust in Baramati. There are many students involved in these projects. Their photo is given below.



Faculty and Students involved in the Projects of Patents

- **Mr. Anil Patil**



He attended a National Level Symposium on 'The Role of Mass Media in Teaching Languages' on 5 October 2019. It was organised by Vivekananda College of Arts, Sciences and Commerce in Kolhapur. He presented his paper on *Significance of Mass Media in Learning English as a Second Language*.

## **DEPARTMENTAL EVENTS AND WORKSHOPS ORGANISED**

- **Department of Electrical Engineering** inaugurated the Centre in PLC SCADA. It was inaugurated in the presence of Hon. Principal Dr. R S Bhickar and Head of Department Dr. N B Wagh. The purpose of the centre is to provide various opportunities to students in the field of PLC SCADA.

## STUDENTS' ACHIEVEMENTS



**e-Newsletter**

**JANUARY**

**2020**

• **Students of E and TC Department** participated in SIH 2019 Surgical Strike. The team won First prize in Smart India Hackathon 2019. It was held at DSU Bangalore Nodal Center. The team received incubation and cash prize of Rs. 50000 from Mahyco MNC. During SIH 2019 students interacted with ISRO Scientists and Directors of MNC and got exposure about current cutting edge technologies. Dr. Vinay Nagalkar guided the team. The students in the team include Rushikesh Kale, Nivrutti Kadam, Samata Surwase, Shraddha Raje, Vaishnavi Vidhate, Vaijanath Khomane and Poonam Pawar.



Faculty and Students during the Competition

• **Students from E and TC Engineering** participated in Nashik Engineering cluster It is Start-Up Idea pitching competition. Top 50 Projects from all over India were selected for 2<sup>nd</sup> round. Two teams from ENTC department were selected among the top 50 teams. One of these students' team representing smart heating jacket for military persons was selected among top 10 teams and they got 2<sup>nd</sup> runner up prize money of Rs. 10000 and incubation from NEC for the development of the product. During competition they also got offer from Poland based MNC of rupees 10 core. Students participated in this project were Vaijnath s Khomane, Shivpriya Yadav, Payal Yadav and Swanand Khaladkar. The team was guided by Dr. Vinay Nagalkar.



Faculty and Students during the Competition





**e-Newsletter****JANUARY****2020**

• **Students from E and TC Engineering** participated in NAVONMESH. It is the competition organized by AIC-ADT, Baramati. Through this competition AIC-ADT provides incubation and seed funding to the projects which help the farmers to improve their farming by means of technology. First round of this competition was conducted online. In these competition, two projects were selected for the Second round for pitching their idea among top 20 projects in India. The projects were: Agroforestry by students--Vajinath Khoman, Shivpriya Yadav and Payal Yadav. They were guided by Dr. Vinay Nagalkar and Dr. Sudhir Lande.



Faculty and Students during the Competition

**NSS SPECIAL CAMP ORGANISED**

• The NSS Unit of our Institute organised a Seven-Day Special Camp for students. It was organised at Lakadi village. 225 NSS volunteers from Vidya Pratishthan's KBIET and other two colleges of Vidya Pratishthan participated in the camp. 7 groups of students were formed for planning everyday activities. The students cleaned the major part of the village and planted saplings. Awareness programs on Alcohol and Drugs were conducted. Various cultural programs, morning rally, street-plays and environmental awareness were organised for the students and people in the village.



Faculty and Students during the NSS Special Camp

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• **Department of Electrical Engineering** organised the Technical Event VOLTZ-FEST 2K20 on 13 and 14 January 2020. It was organised under ELESa and ISTE. Various competitions were organised during this program. Circuit implementation event provided a practical learning of electrical circuits for students. Exposure of technical and non-technical events for the students encouraged them to improve their career skills. Various competitions included poster presentation, extempore, debate, photography, idea presentation and mini-project competition.



Faculty and students during the program



School student during the presentation

• **EESA Committee from Department of Electronics and Telecommunication Engineering** organised a Guest Lecture on 'Life and Career Opportunities in Defence Services'. It was organised on 31 January 2020. The event was especially organized for students willing to join defence sections. Major Rishikesh Kadam was the expert speaker. Hon. Principal, Dr. R S Bichkar felicitated the guest. The program proved beneficial for the students. Mrs. Sonal Nikam coordinated the program.



Major Rishikesh Kadam during the interaction with students



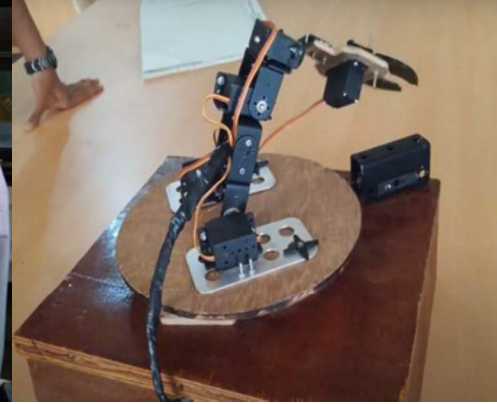


• Smart Innovation Center was inaugurated by Hon. Mrs. Sunetra Pawar, in the presence of trustees of Vidya Pratishthan Baramati including Hon. Shri. Dattatray Unde, Hon. Shri. Shrikant Sikachi, Hon. Adv. Neelima Gujar, Hon. Shri. Rajiv Shah and Registrar Shri. Shrish Kamboj on 18 February 2020. Faculty of Electronics and Telecommunication Engineering Department: Dr. Sudhir Lande, Dr. Vinay Nagalkar, Mrs. Jyoti Rangole and Mr. Balasaheb Patil filed 12 patents along with 15 students in the Department. The Department has a credit of filing 8 patents in one day. Hon. Sunetra Pawar appreciated their efforts and achievements students and faculty during the program.



Hon. Sunetra Pawar, Trustees, Principal, Vice-Principal, Faculty and Students during the Program

**Our Institute** organised an Industry-Institute interaction Summit in association with Baramati Industrial Manufacturers Association (BIMA) on 7 February 2020 at our campus. The program included exhibition of new innovative ideas from students who participated in Smart India Hackathon and innovative final year projects. 30 groups of students participated in this industry summit and displayed their innovative projects. Students from Department of Mechanical Engineering presented their project in this program. Their project was to build Trainable Motion Follower Robotic Arm which follows the desired path. The robotic arm was controlled with the help of the android-based application designed by the team. The industry persons visited the project and appreciated the team. The project team included final year students: Akshay Patil, Anoop Rode, Mayur Barhate and Mohit Pingale. Mr. Vishal Bhagwat guided the students for this project.



Student demonstrating their project during the program

• **Ms. Sarika Darade**

She is a Third Year student from Electrical Engineering Department. Sarika along with her family cycled 4080 kms. from Jammu and Kashmir to Kanyakumari. Their achievement has been recorded in Limca Book of World Record for Cycling. They decided to complete the venture on the occasion of birthday of Hon. Shri Sharadchandraji Pawar, with noble message of 'Beti Bachao Beti Padhao' and 'National Unity'. They started their journey from Jammu and Kashmir on 12<sup>th</sup> December 2019 and completed it on 9<sup>th</sup> January 2020. They travelled through 8 states of India viz. Jammu and Kashmir, Panjab, Hariyana, Rajasthan, Gujrat, Maharashtra, Karnataka and Tamilnadu. Her sister, parents and four other people participated in this journey. They cycled around 150 km. during the day and stayed overnight. They had memorable experiences throughout the journey.



Ms. Sarika Jadhav during the Journey



Ms. Sarika Jadhav, her family and other participants during the journey

**Mr. Mosam Bhong**

He prepared the Automatic Hand Sanitization Machine. He started his own Startup Innovatics Pvt. Ltd. He demonstrated the functioning of the machine to Hon. Shri. Ajitdada Pawar and Hon. Trustees of Vidya Pratishthan Sanstha. Mrs. Jyoti Rangole guided the student for the project.





**e-Newsletter**

**APRIL  
2020**



Hon. Trustees of Vidya Pratishthan Santha, Mrs. Jyoti Rangole and Mr. Mosam Bhong during installation of Sanitizer Machine

- **Anoop Rode, Mohit Pingale**
- **Mayur Barhate and Akshay Patil**

A group of students from Mechanical Engineering Department: Anoop Rode, Mohit Pingale, Mayur Barhate and Akshay Patil participated in National Competition which was held on 27 and 28 February 2020 at MAEER's MCRER in Barshi. They presented their research paper as well as project model. Their project group secured 2<sup>nd</sup> position in Project Model.



Organising Dignitaries and Students during the program



**e-Newsletter**

**APRIL**  
**2020**

• Atal Incubation Center, ADT in Baramati organised Navonmesh 2020. Two groups of students from our Institute presented their projects. These projects include 'Multipurpose Egg Hatching Machine' and 'Automatic Sugarcane Bud Detection and Cutting System'. These students were Paigambar Shaikh, Aishwarya Fulari and Anuj Fulari. The project 'Sugarcane Bud Detection and Cutting Machine' won the 2<sup>nd</sup> Prize at Navonmesh 2020. Faculty from E and TC Engineering Department: Dr. Vinay Nagalkar and Mrs. Jyoti Rangole guided these students.



Students and Faculty receiving the Award during the Competition

### **Mr. Ashish Kulkarni**



He is a student from Department of Electronics and Telecommunication Engineering. He filed a patent on 'Smart Unique ID Security System for Next Generation Using IRIS Biometrics' on 31 January 2020 at IPR office Mumbai. Dr. Sudhir Lande and Dr. Vinay Nagalkar guided him for the project.

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- **Dr. Vinay Nagalkar**

He received 'Young Scientist Award' from VDGOD Professional Association. He also received the Best Mentor Certificate from MHRD for the exceptional contribution given in Smart India Hackathon 2019. He also won the First Prize for the Best Research at AVISHKAR-2020 Research Convention organised at S.G.B.A. University Amravati under Medicine and Pharmacy Research category. He was felicitated by Hon. Dr. Vijay Bhatkar for being the best research scholar in Amravati University.



Dr. Vijay Bhatkar felicitates Dr. Vinay Nagalkar during the Program

- **Dr. Vipin Gawande**



He presented his paper in an International Conference on 'Advances in Mechanical Engineering'. It was organized by NIT Warangal. The paper is published in 'Lecture noted in Mechanical Engineering' book series, indexed by SCOPUS and published by springer.

- **Mr. Suraj Kumbhar**



He presented his paper 'A Review on Damping Characteristics of Aluminium (Al) Matrix Composites' in National E-Conference on Research and Development in Mechanical Engineering-2020 by G. H. Raisoni College of Engineering and Management in Pune. It was organised on 26 and 27 June 2020.



## STUDENTS' ACHIEVEMENTS



**e-Newsletter**

**JULY**  
**2020**

**Students' group from Mechanical Engineering Department:** Anoop Rode, Mohit Pingale, Mayur Barhate, Akshay Patil participated in the National level Competition. It was held on 27 and 28 February 2020 at MAEER'S MCRER, BARSHI. They participated in research paper presentation and project model presentation. Trainable Motion Follower Robotic Arm (TMFRA) is an articulated manipulator. TMF Robotic arm is capable to perform certain tasks like pick and place operation in repetitive manner with constant accuracy and precision. The way in which the tasks can be assigned to TMF Robotic Arm makes it more convenient to operate and eliminates the skilled labour requirement in the industry. The total participants were 47 out of which 17 were from Mechanical Engineering. The chief guests Prof. Shivanand Mali, Dr. V. A. Suryawanshi, Dr. A. Venkatesan evaluated the prepared model. This student's project group secured the 2<sup>nd</sup> position in Project Model Presentation.



Mayur Barhate, Mr. Prof. Shivanand Mali (Co-convener), Dr. V. A. Suryawanshi (Convener), Dr. A. Venkatesan (Principal), Mr. Anoop Rode, Mr. Mohit Pingale along with Mr. Akshay Patil

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**e-Newsletter**

**JANUARY**

**2021**



The Institute organised a National Level Webinar on 'How do we build Atmanirbhar Bharat with Atmavishwas?'. The speaker for the webinar was the well-known scientist, Dr. Raghunathji Mashelkar. The webinar was arranged on 30 October 2020. Dr. Raghunath Mashelkar guided the audience about how the Indians should focus more on 'Make in India' and become Atmanirbhar Bharat. He also emphasised that the graduates of today should focus more on entrepreneurship. He guided the audience about how they can set up their start-ups and business by making funds available through various funding agencies and also with minimum investment.

**Vidya Pratishthan, Baramati**  
On the Auspicious Occasion of VP's Foundation Day,  
We Invite you to Join a Live Webinar on  
**How Do We Build Atmanirbhar Bharat with Atmavishwas?**  
Key Note Speaker  
Dr. Raghunath A. Mashelkar

**30th October 2020, 11 a.m.**

*Dr. R. A. Mashelkar, National Research Professor, has been the Director General of Council of Scientific and Industrial Research, Chairman of National Innovation Foundation as also the President of Indian National Science Academy, Global Research Alliance and Institute of Chemical Engineers (UK).*

*In recognition of his pioneering research contributions in polymer science & Engineering, he has been honoured as a Fellow of Royal Society, Foreign Fellow of US National Academy of Science as also Engineering, Foreign Associate of American Academy of Arts and Science & Fellow of US National Academy of Inventor.*

**Organised by**  
**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati.**

Hon. Vice-President of Vidya Pratishthan, Adv. Ashok Prabhune Sir presented the Foreword of the program. Other Hon. Management Committee Members were also present for the session. Hon. Principal, Dr. R S Bichkar Sir, Heads of Departments, Faculty and Students from various branches of our Institutes and also from all over Maharashtra and India attended the program. 1402 participants were present for the online Webinar. Prof. Dinesh Hanchate coordinated the program. The program on Atmanirbhar Bharat proved extremely beneficial for all the faculty, staff and students.

**Mr. Dinesh Zende and Mrs. Kanchan Bhale**

Department of Information Technology organized a webinar on 'Importance of Palo Alto Network Certification' for the students from Information Technology, Computer Engineering and Electronics and Telecommunication Engineering. This activity was conducted under the Center for Palo Alto Cyber Security in collaboration with ICT Academy. Mr. Ravichandrian A. (Manager, IT Training & Research Department, ICT Academy) was the resource person for the program. 120 students benefitted from this program. Mrs. K. M. Bhale and Mr. D. A. Zende worked as the coordinators of the program.

**Dr. Shirish Bali** completed an AICTE Training And Learning (ATAL) Academy Online FDP on 'Blended Learning and Flipped Classroom'. It was a one-week Faculty Development Program specially organised for teaching faculty. The program was organised by Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat.

**Mr. Dilip Patil**

He participated in a National Level One-Day Workshop on 'Outcome Based Education and Accreditation'. It was organized by G H Raisoni Institute of Engineering and Technology, Nagpur.

**Ms. Shruti Y Tambe**

She completed One-Week Online Faculty Development Programme On 'Research Opportunities in Environmental Engineering'. It was organised by Department of Civil Engineering, Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune in association with Department of Civil Engineering Shahajirao Patil Vikas Pratishthan's S. B. Patil College of Engineering, Indapur

- **Ms. K. M. Bhale**



She attended a Faculty Development Program on 'Next Generation Firewall'. It was conducted by ICT Academy. The program provided an outline of certification courses available under Palo Alto Network. Palo Alto Networks certifications provide assurance about an individual's knowledge of cyber security, network security and ability to deploy and operate the Palo Alto Networks Security operating platform. The program proved useful to her.

**Ms. Snehal Deshmukh**

Ms. Snehal Deshmukh participated in a two-day Online Training Course on 'Evolving the Hydraulic Design of Reservoir and Appurtenant Structures using Physical and Numerical Modelling'. The program was conducted during 12-13 January 2021 by CWPRS, Pune. Organized a student induction program from 21 to 25 January 2021 SE, TE and BE students. She also attended a webinar on 'Social Development for Sustainable Development'. She also attended a webinar on 'Skill Development of Effective Waste-Management Practices in Environment'. The program was organised by SPPU Pune.

**STUDENTS' ACHIEVEMENTS****Students' Project on 3D Printing Machine**

The Start-Up Team of Department of Mechanical Engineering 'Clover-3D Printer and CNC Machines' participated in the annual Agriculture Fest *Krushik-2021*. The Agriculture Fest was organized by Agricultural Development Trust (ADT) and Krushi Vigyan Kendra Baramati during 18 to 24 January 2021. The team included two students Mr. Akshay Budhabal (S.E. Mech. Engg.) and Ms. Swarali Babar (S.E E and TC Engg.) and a faculty mentor, Dr. Vipin Gawande, Assistant Professor from Department of Mechanical Engineering. The team has shown a wide variety of 3D printed products useful for agriculture such as fruit pickers, corn shellers, sprinkler connections, drip irrigation joints etc. Distinguished guests, industry persons and farmers praised the efforts of the students and received words of appreciation for the start up. The work was admired by Mr. Rohit Pawar (MLA-Karjat and Jamkhed Constituency).







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## **FACULTY'S ACHIEVEMENTS**

### **Paper Presented by BE Students**

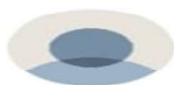
Students of our Institute Adesh Pawar, Sanket Pawal and Shreyash Kulthe presented technical paper in National Level Technical Paper presentation conference on 7 Feb 2021 by ASME VITI. These are last year students and Dr. S C Bali guided these students for writing the research paper and during the competition.



### **Mr. Rohit Chaudhari**



Mr. Rohit Chaudhari has completed a considerable number of courses from NPTEL. It is an online Certification Platform which offers courses in a number of disciplines. Mr. Rohit completed these courses and the learning from NPTEL Courses helped him get a job and make career. He shared his success story with NPTEL Forum and it was published on the NPTEL Website. Mr. Rohit belongs to the 2019-20 Batch and his success story was published on NPTEL, IIT Madras LinkedIn page on 12 February 2021.



**NPTEL IIT Madras • 1st**

Education Initiative by 7 IITs and IISc Bengaluru...  
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Read more about Mr. Rohit Shivaji Chaudhari's success story with NPTEL at <https://lnkd.in/g-Jp-Ci>

**“**  
I am immensely grateful to NPTEL for choosing to disseminate knowledge in a very efficient way to students across the country and also giving them access to high-quality education. The video lectures have been of great use to me in grasping concepts easily. Also, the assignments, slides, and transcripts came in handy for the exam preparation. My passion for NPTEL courses have also helped me become an NPTEL star. The Technical English for Engineers and English Language for Competitive Exams helped me in job interviews while communicating my thoughts and answers during the interview rounds. I highly recommend NPTEL courses for self-development and to prepare for job interviews, in addition to equipping skills to become technically strong.

**- Mr. Rohit Shivaji Chaudhari**





**e-Newsletter****JULY**  
**2021**

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**Department of First Year Engineering** organised a Technical Event for the First Year students. The event was organised under the title 'EPITOME (Idea/Topic/Concept Presentation competition)'. These activities covered a large number of topics such as follows. 1. Robotics and Automation, 2. Internet of Things, 3. Embedded Systems, 4. Renewable Energy- A Need of Hour, 5. Power System, 6. Electric Vehicles, 7. Cyber Security New Challenges, 8. Cloud Computing, 9. Artificial Intelligence, 10. Python Libraries, 11. Global Warming, 12. Systems In Automobile, 13. Nano Technology, 14. Rain Water Harvesting, 15. Public Transport, 16. Fly Ash As A Construction Material, 18. Laws In Science And Engineering and 19. Role Of Engineers During Natural Calamities e.g. Flood/Earthquake/ Covid Pandemic

390 students participated in the technical activity in round-I, out of which 175 students were promoted to the round-II and from round-II, 41 students were promoted to round-III. Teacher-mentors guided the students and finally, the winner students were awarded the prizes based on their performance in the competition. The prizes of Rs. 10000 were distributed among the students. Dr. Vinod Todkari coordinated the program.

**Ms. Pallavi Bokey**



Department of Civil Engineering organized a Training Session on 'ARC GIS: Introduction and Application' on 15 June 2021 through virtual platform. Ms. Pallavi Bokey coordinate the program. Ms. Pratibha Singh, Senior Project Associate - Sustainable Cities and Amp; Transport, WRI, India was the resource person for the program. The major topics covered in the program were: Introduction of GIS, Applications of GIS in Civil Engineering and Demonstration of ARC GIS software.

### **STUDENTS' ACHIEVEMENTS**

- Pratiksha Katap (SE IT) completed Coursera course on 'SQL for Data Science'.
- Utkarsh Galande (BE IT) completed the training provided by GTT Foundation. The training was provided on Corporate Readiness.
- Utkarsh Galande (BE IT) completed a Coursera online course on 'Machine Learning for All'. The course proved beneficial to him to develop insights about various aspects of machine learning.
- Pooja Patil (BE IT) completed the training provided by GTT Foundation. The training was provided on Corporate Readiness.
- Niraj Fegade (TE IT) completed a course on 'Build Face recognition application using Python'. The course was offered by Guvi Geek Network Private Limited (GUVI).
- 67 Students participated in Machine Learning-Linear Regression online course. They completed the course offered by NASSCOM and FutureSkills Prime. They also participated in the HackFest.
- **Mr. Abhishek Sutar (SE-AI and DS)** secured **Second State Rank at the Hackathon -HackFest**. It was organized by NASSCOM and FutureSkills Prime.
- 69 students participated in IBM Edunet Skill Development Program. The students from the Department of Artificial Intelligence and Data Science completed online internship programs.

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**e-Newsletter**

**JANUARY  
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## **STUDENTS' ACHIEVEMENTS**

### • **Mr. Ajinkya Borawake**



He is the third year Mechanical Engineering student. He completed a one-month internship in Human Resources Group. The internship was organised by Aashman Foundation during 18 August to 18 November 2021. He was associated with Aashman Foundation during this period in the capacity of intern and completed internship with three star performance.

### • **Mr. Omkar Adhav**



He is the second year Mechanical Engineering student. He completed the internship on '30-Day Renewable Energy Master Class'. This course was conducted at Pantech e-Learning Pvt. Ltd. Chennai through online mode during 17 October to 16 November 2021.

- **Mr. Rohit Gandhi** from BE-Mechanical won the First Prize in the 7<sup>th</sup> edition of the four-day India International Science Festival (IISF) held in Panaji, Goa. The Festival was organised during 10 to 14 December 2021. The theme of the Festival was 'Celebrating Creativity in Science, Technology and Innovation for Prosperous India'. The Goa-based National Centre for Polar and Ocean Research (NCPOR), under the Ministry of Earth Sciences, is the nodal agency to organize IISF 2021. The festival was organized jointly with Departments of Atomic Energy (DAE), Science and Technology (DST), Biotechnology (DBT), Space (DoS) and the Council for Scientific and Industrial Research (CSIR).



The Expert, Faculty and Mr. Rohit during the Competition



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## **STUDENTS' ACHIEVEMENTS**

- **Mr. Amit Kharade**



He is a BE-Mechanical Engineering student. He qualified GATE-2022 in ME and achieved 482 All India Rank.

- **Mr. Chetan Bankar**



He is a BE-Mechanical Engineering student. He qualified GATE-2022 in ME and XE with 4739 and 1048 All India Rank respectively.

- **Mechanical Engineering Students: Mr. Sahil Borate, Ms. Shivangini Kokate, Mr. Shubham Patil, Ms. Payal Pawar (BE-Mechanical) and Dr. P. R Chitragar** jointly published a paper entitled 'Design, Analysis and Performance of Teflon (PTFE, PEEK) Bearings' in Mukta Shabd Journal, Vol. XI, Issue III, March 2022.
- 42 Students from Department of Information Technology got selected for Zensor Employability Skills Development Program. The Third Year students received the training and it proved beneficial for them.

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• **Mr. Pushkar Zende**



Mr. Pushkar Zende is a BE Student from Electrical Engineering Department. He is the Captain of College Volleyball Team. He secured the 4<sup>th</sup> position at All Maharashtra Inter Engineering Championships held at Zeal Engineering College, Pune which was organised during 13, 14 and 15 May 2022.

• **BE Students from Electrical Engineering: Ganesh Khawale, Ramdas Khadake, and Vishal Khandagale** presented 'Design and Implementation of Dynamic Wireless Charger for Electric Vehicle' project at Project Presentation Competition organized by ELESA at VPKBIET, Baramati on 14 May 2022. They secured the secured position in the Competition.

• **90 Third Year Students from Department of Electrical Engineering** completed the Internship of 4 as well as 6 weeks in various industries in offline and online mode.

• **52 Second Year Students from the Department of Artificial Intelligence and Data Science** completed the Spoken Tutorial Course on Java Programming with certification from IIT Bombay after qualifying the online examination. This activity was planned and coordinated by Mr. Sahil Shah during January to April 2022.

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## Internal Quality Improvement Program

3 March 2020

"FE Internal Quality Improvement Program" was organized under the guidance of Hon. Principal Dr. R.S. Bichkar for First Year Faculty on 3rd March 2020. This program was organized by First Year Department with co-ordination by Dr. A.P. Hiwrekar and Mrs. G. G. Bhoite.

Aim of program is to improve quality of all activities conducted during academic year and gets better results and outputs.

FE HOD Dr. A. P. Hiwrekar and all FE Faculty were present for this program.

### First session: Presentation of FE HOD

Dr. A.P. Hiwrekar, FE HOD briefed faculty about the program. In his talk he discussed the importance and need of quality improvement. He mentioned importance of study material like video lectures, PPTs, notes and assignments. Also he gave many suggestions to improve attendance and performance of students. In his talk he emphasized on the role of mentor and focused on how to involve students in learning process.

**Felicitation of faculty:** FE faculty whose Sem- I University result was best among six divisions were felicitating by FE HOD Dr. A.P. Hiwrekar and Academic Co-ordinators Dr. A.G. Sajjan and Mr. A.S. Disale for all subject.

### Presentation of Activity Co-ordinators:

After felicitation program, all activity Co-ordinators gave presentation on respective activity and discussed improvements in various aspects of it. The following faculty gave presentation in this program.

Sr.No	Name of faculty	Academic Activities
1	Mr.A.S.Disale	Term work break up, Remedial actions for attendance Defaulter and Fail students in Sem -I
2	Dr.N.T. Shelake	Attendance Monitoring System
3	Dr.N.A. Jadhav	NBA Activity
4	Mrs.J.S.Kulkarni	Best Class and Journal Checking
5	Mrs.G.G.Bhoite	Internal Exam

There was discussion session after each presentation. It was very interactive and faculty participated enthusiastically.

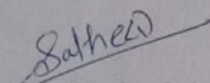
### Presentation of Subject Co-ordinators:

All subject Co-ordinators also gave presentation on plan to improve performance of students and achieve good result. FE Hod gave

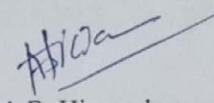
Sr.No	Name of faculty	Subject
1	Mrs. Bhoite G.G.	Engineering Mathematics-II
2	Mr.P.V.Upadhe	Basic Electrical Engineering
3	Mr.P.T. Raut	PPS
4	Mr.A.W.Bhagat	Basic Electronics Enginnering
5	Dr.V.B.Gawande	Engineering Graphics

This program was very interactive and faculty participated enthusiastically. FE HoD provided guidelines for all activities.

The program got over with vote of Thanks by Dr. A.P. Hiwarekar.

  
Mrs. Bhoite G.G.

Co-ordinator of Program

  
Dr. A.P. Hiwarekar

HOD FE



# Report

## Internal Quality Improvement Program

Day and Date: Saturday 11th December 2021

**Internal Quality Improvement Program** was organized under the guidance of Hon. Principal Dr. R.S. Bichkar for First Year Faculty on 11<sup>th</sup> December 2021. This program was organized by the General Science Department with guidance of dean academic Dr. A. P. Hiwarekar sir and FE HoD Dr. A. G. Sajjan coordinated by Ms. S. S. Ghadage and Mrs. G. G. Bhoite.

Aim of the program is to improve the quality of all activities conducted during the academic year and get better results. Dean Academic Dr. A. P. Hiwarekar, assistant dean Mr. A. H. Kolekar, FE HOD Dr. A. G. Sajjan, all FE Faculty, was present for this program.

### First session:

Dr. A. G. Sajjan, FE HOD briefed faculty about the program. In her talk she has discussed the importance and need of quality improvement.

Mr. K. S. Bhagwat ERP Co-ordinator, gives details of ERP system and demonstrates about how to fill attendance and generate various types of reports. Assistant dean Academic Mr. A. H. Kolekar sir talks about course file, documentation regarding NAAC and NBA. He has suggested planning activities for students which are helpful to attain program outcomes.

Dean Academic Dr. A.P. Hiwarekar addressed the meeting. In his talk he emphasized on the role of teacher and focused on how to involve students in the learning process, also he discussed academic activities. He suggests faculty to prepare e- content of your subject and use modern tools.

### The second session: Presentation by faculty and discussion.

In the second session faculty made presentations on academic activities and discussed improvements in various aspects of it. The following faculty gave presentations on given topics.

In the beginning of program Mr. A.S. Jadhav displayed a list of co-ordinator, class teacher, subject co-ordinator and mentor and briefed about their role. After that Mrs. J.S. Kulkarni explained the concept of best students and best class award and discussed parameters for evaluation.

Mr. D.S. Sonawane gave importance to the need for an induction program for students. He discussed schedule of induction program and activities. After that Dr. Anil Disale gave information about Google Classroom and its applications for learning management systems. Also he informs that there will be subject wise google classroom audit and rubrics for audit.

Mrs. G. G. Bhoite discussed academic calendar and plan of internal exams. Also she explained the role of PAC members in academic activities and briefed about internal audits. After that Mr. M. S. Gaikwad gave information about the exam question paper that was mapped with CO and PO which is very helpful from an NBA point of view.

Dr. N. A. Jadhav discusses NBA related activity and suggests finding a gap between syllabus and plan activities according to it and maintain files or documents regarding the activity. After that Ms. S.S.Ghadage discusses the virtual lab activity and suggests maintaining the record of the session. Also take feedback of each session that is useful in the NBA.

FE HoD Dr. A. G. Sajjan gave concluding remarks on all presentations and she also discussed assignment of portfolios for FE activities. The program got over with a vote of thanks.

There was a discussion session after each presentation. It was very interactive and the faculty participated enthusiastically. The program was really very beneficial for all the FE teachers.

### Details about topics and speakers

Sr.no	Name of topic	Name of faculty
1	Importance and need of program	Dr. A. P. Hiwarekar
2	Documentation of all activities for NBA, NACC	Dr. A.H. Kolekar
3	ERP Attendance system and Attendance monitoring	Mr. K. S. Bhagwat
4	Time Table and Mentoring system	Mr. A. S. Jadhav
5	Best Class and Best Students	Mrs. J.S. Kulkarni
6	Induction Program Display of Time table and Activities	Mr. D. S. Sonawane
7	Google Classroom, Term Work and Final Submission	Dr. A. S. Disale
8	Academic Calendar, Internal Examination	Mrs. G.G. Bhoite
9	NBA Related Activity	Dr. N.A. Jadhav
10	Virtual Lab	Mrs. S. S. Ghadage
11	Concluding Remark	Dr. A. G. Sajjan

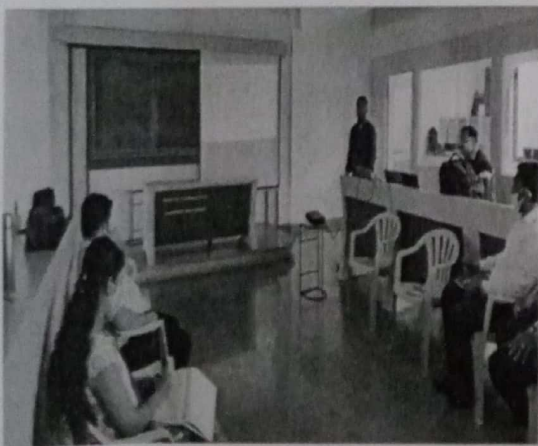




Presentation by Dr. A.P.Hiwarekar



Presentation by Mr. A.H. Kolekar



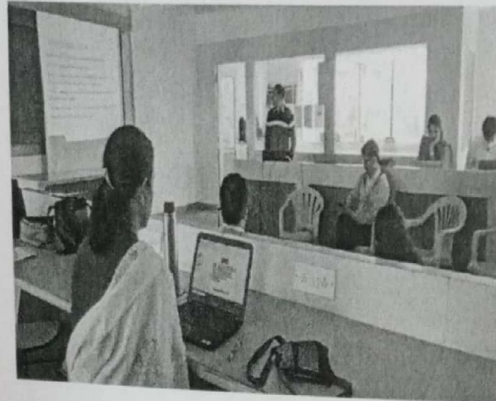
Presentation by Mr. A.S. Jadhav



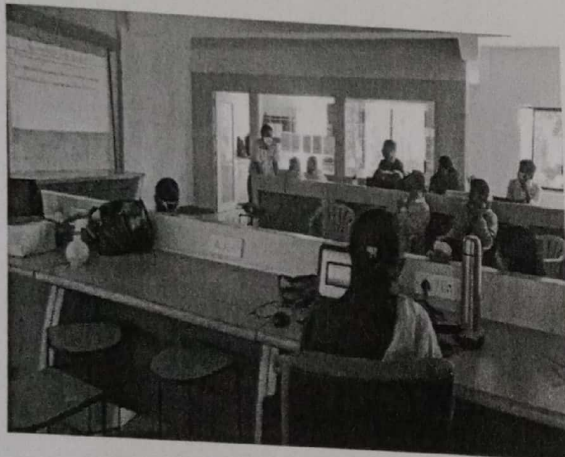
Presentation by Mrs. G.G.Bhoite



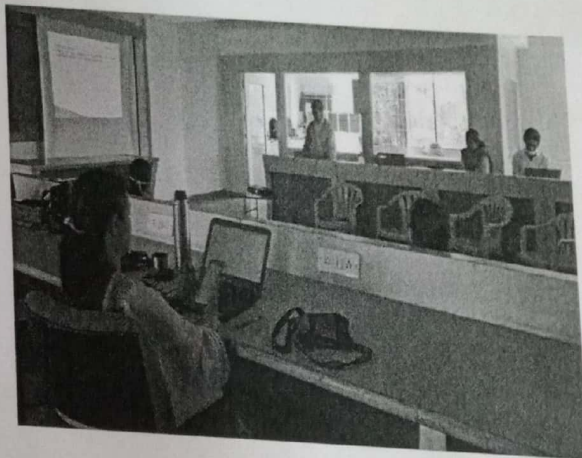
Presentation by Mrs. J.S. Kulkarni



Presentation by Mr. D. S. Sonawane

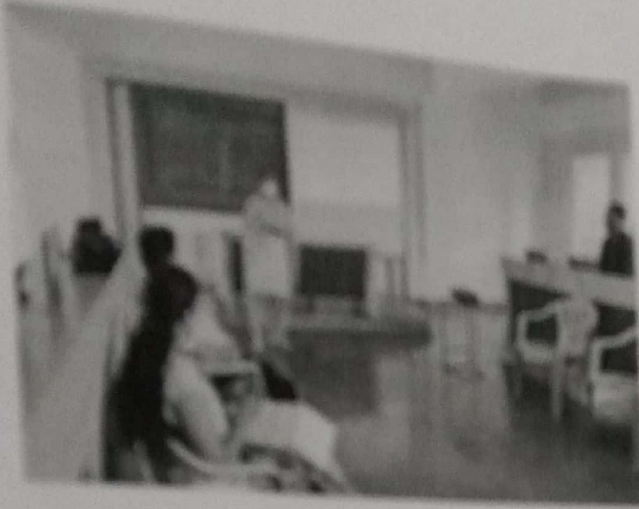


Presentation by Dr. N.A. Jadhav



Presentation by Dr. A.S. Disale





Concluding remark by Dr. A.G. Sajjan



Presentation by Ms. S. S. Ghadage

Sajjan  
Mr. Bhoite A.K.

## FE Internal Quality Improvement Programme Report

“Internal Quality Improvement Programme” was organized for First Year Engineering Faculty on 17th October 2022. This program was organized by General Sciences Department under the guidance of Dean academics Dr. A. P. Hiwarekar, Head First Year Engineering Department Dr. A. G. Sajjan and was co-ordinated by Mrs. G. G. Bhoite.

Aim of the program is to improve the quality of activities to be conducted during upcoming academic year and also to improve the academic performances of students.

At start of the program, dean Academics, Dr. A.P. Hiwarekar briefed about the program. He discussed the importance and need of the quality improvement. In his talk he elaborated various aspects of overall development of students. He gave more emphasis on developing good work culture and positive approach and teamwork. He focused on the role of teacher in increasing the student's involvement in learning process.

In the next sessions, faculty made presentations on academic activities and discussed improvements in various aspects of it. The following faculty gave presentations on the topics enlisted.

Sr. No	Topic	Speakers
1	Importance and need of program. Innovative Practices.	Dr. A. P. Hiwarekar
2	Time Table, NAAC activities and Mentoring system	Mr. A. S. Jadhav
3	Academic Calendar, Attendance Monitoring, Academics Activity and regular audits.	Mrs. G. G. Bhoite
4	Term Work - Final Submission and Academic Discipline.	Dr. A. S. Disale
5	Plan for Autonomy activities, Internal Exams, scholarships and Google classroom.	Dr. N.T. Shelke
6	Research Paper publishing, use of Turnitin software and NBA Related Activities.	Dr. N. A. Jadhav
7	Induction Program - Time table with Activities planned and FE Results.	Mr. D. S. Sonawane
8	Plan for I-Card Activity and Remedial Action for weak Students	Mrs. J. S. Kulkarni
9	Plan for Virtual Lab -Educational Technologies and Best Class Award	Dr. V. C. Todkari
10	Plan for In-Sem Exams and Sports Activities.	Mr. V. B. Bhagwat
11	Concluding Remarks.	Dr. A. G. Sajjan



There was discussion session after each presentation. It was very interactive and faculty participated enthusiastically.

In the beginning of presentation Mr. A. S. Jadhav gave details about FE time table and presented a list of class teacher, subject co-ordinators and mentor and briefed about their roles. After that, Mrs. G. G. Bhoite discussed about academic calendar and plan of academic activities for students. She explained FE systems like attendance monitoring, internal Audits and Communication with parents.

Dr. A. S. Disale explained Term Work distribution. He discussed code of conduct for students and staff. He also suggested that students should write required experimental details in Journals. Then, in the next session, Dr. N. T. Shelke gave information about Maha-Dbt and private scholarships. He explained about the plans and patterns of internal Examinations in the Academic year 2022-23.

After that Mrs. J.S. Kulkarni explained plans for remedial actions for weak students. Also, she suggested to maintain all the records of retest and other remedial actions. Dr. N. A. Jadhav discussed NBA related activity and calculation of CO-PO attainments. He suggested that we will include assignments marks to calculate CO attainments. Also, he demonstrated list of required documents and files for NBA. Mr. D. S. Sonawane demonstrated various types of FE result analysis. After that he explained planning of FE student's induction program (SIP) for the academic year 2022-23. He discussed need, vision and mission of SIP.

Mr. V.B. Bhagwat briefed about the plans of In-sem examinations and sports activities for students. He planned indoor sports after the in-sem Exams. Later, Dr. V.C. Todkari elaborated rubrics for Best Class Awards. He also explained about utilization of virtual Labs for FE students.

The program got over with the concluding remarks by First Year HoD, Dr. A. G. Sajjan. She informed faculty to maintain all Data related to NBA and NAAC. Also, she emphasized on the points how to work with harmony and co-operation and the importance of team work.

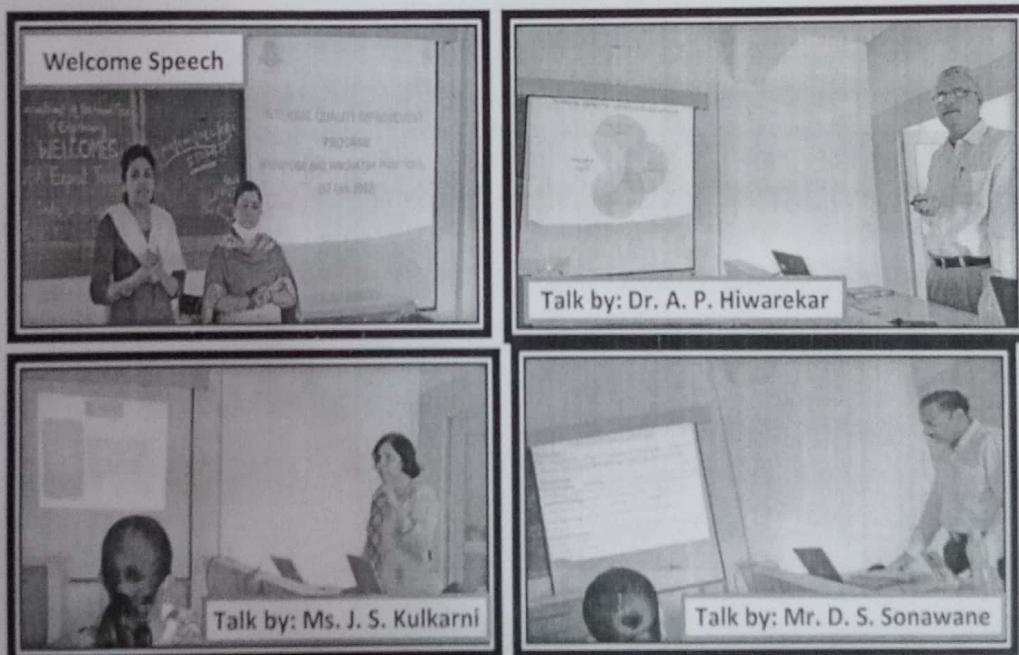
The program was really very beneficial for all the FE teachers and the suggestions made during the programme are enlisted below.

Following suggestions were received from the faculty during the discussion of IQIP

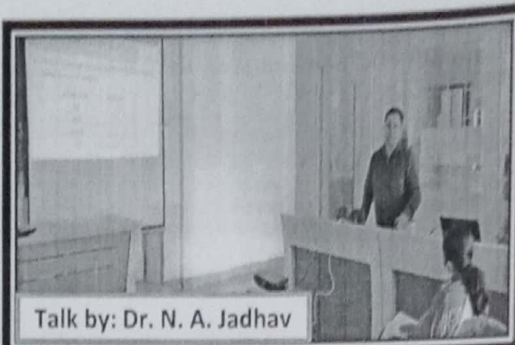
1. Enter theory attendance in the ERP system and maintain an excel sheet for practicals or tutorials.
2. Mentor will take follow up of attendance biweekly and inform parents of defaulter students.
3. All mentors have to conduct meeting with students biweekly and maintain records of meetings and all types of communications.

4. Collect undertaking from students regarding attendance at the beginning of the Academic Year.
5. Form parent's WhatsApp groups and inform attendance, and performance of students from time to time.
6. Assign unit-wise assignments and mention CO and BT level for each question and maintain a record of assignments.
7. Maintain a continuous assessment sheet and keep a recording of signs along with the date of checking. Give the index page at the beginning.
8. Assign separate assignments for weak and bright students.
9. Plan to conduct makeup classes and maintain register for the same.
10. Give journal and stationery requirements in advance.
11. Arrange parents meet in each semester after first internal exams to discuss the performances of students for improvements.
12. Contents of the Class teacher's and mentor's files must be provided at the beginning to all the concerned.
13. Test answer sheets must have printed table for question wise marks entry.
14. I-Card photo session for students on college uniform must be conducted during the SIP.
15. Best class pointer scale must be changed to 1000-point format instead of 100.
16. Counselling sessions must be conducted for students on every working Saturday to eradicate the psychological stress and to overcome home sickness.

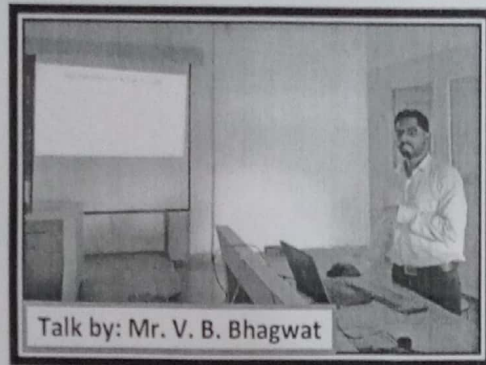
*Glimpses of the Programme:*



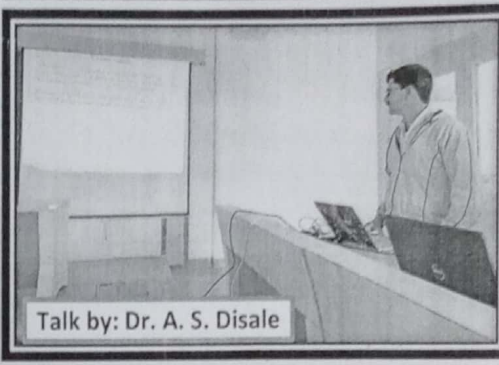




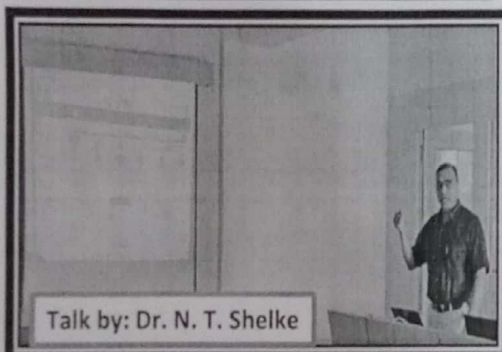
Talk by: Dr. N. A. Jadhav



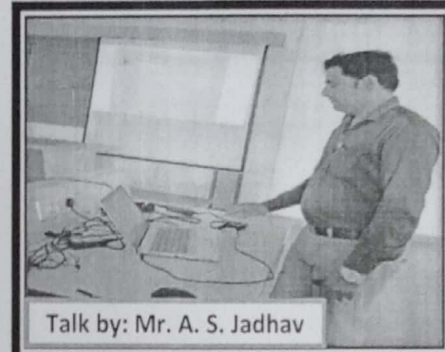
Talk by: Mr. V. B. Bhagwat



Talk by: Dr. A. S. Disale



Talk by: Dr. N. T. Shelke



Talk by: Mr. A. S. Jadhav



Talk by: Ms. G. G. Bhoite

*Sathya*  
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