

MECHANICAL ENGINEERING STUDENTS' ASSOCIATION



S.NO. 3/4, Kondhwa Bk, Pune-411048

Email - viitmesa@gmail.com

ACTIVITIES CONDUCTED BY MESA IN 2017-18

| Name of workshop/Event | | Class | Date |
|------------------------|---|------------|-------------------------|
| 1. | Visit to Panshet Hydro-Electric Power Plant | TE | 28-07-2017 |
| 2. | Corel Draw Workshop | SE, TE, BE | 29-07-2017 |
| 3. | Visit to Army Exhibition | SE, TE, BE | 12-08-2017 |
| 4. | 3D Printing Workshop | TE | 14-09-2017 & 15-09-2017 |
| 5. | Guest lecture on Recent Trends in CAD/CAM | SE, TE, BE | 15-09-2017 |
| 6. | Teachers Day and Engineers Day Celebration | SE, TE, BE | 15-09-2017 |
| 7. | Webinar-01 (Transformation in Manufacturing) | SE, TE, BE | 21-09-2017 |
| 8. | Visit to Global Industrial Expo | SE, TE, BE | 23-09-2017 |
| 9. | Webinar 02(3-D Printing) | SE, TE, BE | 28-09-2017 |
| 10. | Webinar-03 (Polymer Foaming Simulation) | SE, TE, BE | 05-10-2018 |
| 11. | Webinar -04(Smart Infrastructure and Smart Cities) | SE, TE, BE | 05-10-2017 |
| 12. | SE Mock Online 1 | SE, TE, BE | 08-11-2017 |
| 13. | Model United Nations | SE, TE, BE | 05-01-2018 |
| 14. | Electric Vehicle Workshop at MKSSS's Cummins College | SE, TE | 11-01-2018 & 12-01-2018 |
| 15. | Visit to Constro International Fair | SE, TE, BE | 20-01-2018 |
| 16. | Webinar -05(Mold Filling Technology Trends and Innovations) | SE, TE, BE | 24-01-2018 |
| 17. | Webinar-06 (IoT Features in New Product Design) | SE, TE, BE | 31-01-2018 |
| 18. | SE Mock Online 2 | SE | 03-02-2018 |
| 19. | Pressure Vessel Design workshop | BE | 14-04-2018 |
| 20. | Sports Week | SE, TE, BE | 09-02-2018 & 10-02-2018 |
| 21. | Vishwacon | SE, TE, BE | 23-02-2018 & 24-02-2018 |
| 22. | Mechmerize | SE, TE, BE | 17-03-2018 & 18-03-2018 |
| | A)Techtalk | | |
| | B)EVENTS: | | |
| | 1.Fiesta D Balloona | | |
| | 2.Technohunt | | |
| | 3.Auto-Mania | | |
| | 4.Wrap the Scrap | | |



3 D PRINTING WORKSHOP

A Two-day Workshop on 3D Printing was arranged by Mechanical Students Association for second and third year students on 14th and 15th September 2017. It was conducted by the director of 3 D Spectral Technologies Private Limited, Mr. Rohan Kadam with the Manager of 3 D Spectral Technology, Mr. Sambhaji Adawlae and Senior Engineer, Mr. Ankish Pal. On first day of workshop the inauguration ceremony began at 04:00 pm in the classroom. The workshop began at 04:30 pm with the introduction of 3D Printing and the history and evolution of Printing. Different strategies and concepts were explained during the workshop.



Introduction to the 3 D Printing was about the respondents of industry professional who invent, innovate and produce products using 3 D

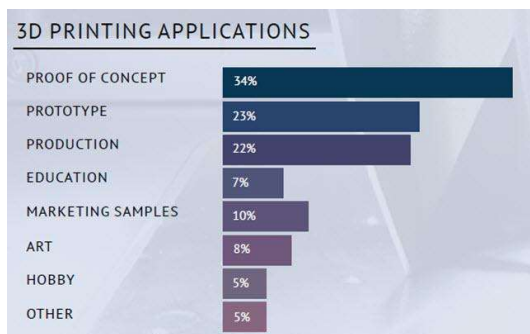


Printing. They also explained about the recent technologies which is mainly used to accelerate the product development, offer customized products and to increase product flexibility

The major key factors they told us about the proof of concept and prototyping together dominate 3 D Printing applications. 57% of all 3 D work done is in the first phase of new product development, underscoring 3D Printing's contribution to reducing time-to-market for new products.

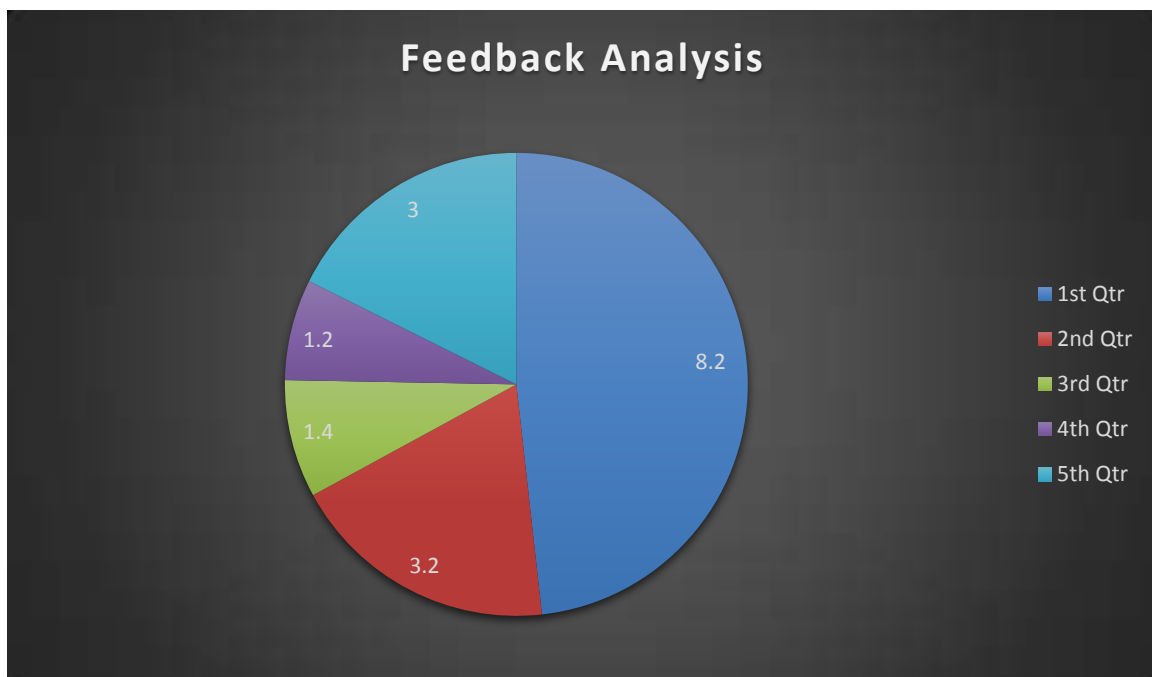
On the second day, 15th September 3 D printing session started at 09:00 am introducing all the commands used in the software to the students. Somewhat modelling knowledge was given for importing a file into the printing machine in some of the modelling software like CATIA, Solidworks & Hypermesh . All the features of software was nicely explained.

22% of respondents are relying on 3D Printing as part of their production processes. Americans use 3D Printing mainly for design and production (23% and 17% versus 18% and 14% for Europe), while Europe uses it mainly for R&D (26% versus 18%). On average, respondents from both Europe and America quote more than one main benefit they can see from 3D Printing.









1.Qtr Wheather the training was sufficient

2.Qtr Trainers were having sufficient knowledge of the subject

3.Qtr Wheather training is helpful for your future

4.Qtr How do you rate the training

5.Qtr Wheather such training should be conducted every year

swagsocial21@gmail.com



ABSTRACT

Web conferencing may be used as an umbrella term for various types of online collaborative services including web seminars ("webinars"), webcasts, and peer-level web meetings. It may also be used in a more narrow sense to refer only to the peer-level web meeting context, in an attempt to disambiguate it from the other types of collaborative sessions.[1] Terminology related to these technologies is inexact, and no generally agreed upon source or standards organization exists to provide an established usage reference

HP

[Course title]



TECH TALK 2017

(3-D PRINTING)

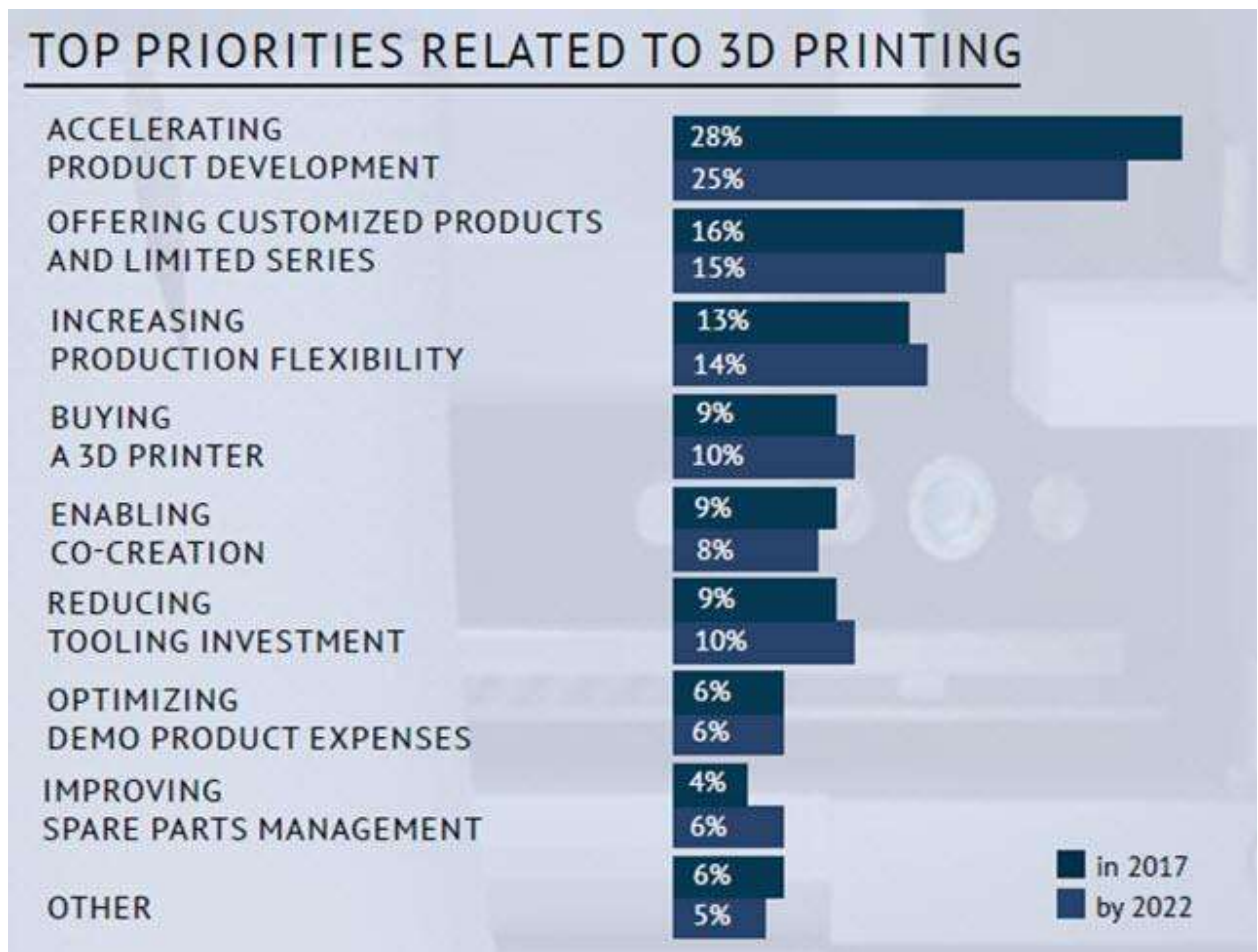
Webinar was arranged by Mechanical Students Association for students on the topic “3-D Printing” in association with Dassault System. The Webinar many focused on the recent technologies and trends in Manufacturing Process.

3D Printing, also known as **Additive Manufacturing (AM)**, refers to processes used to create a three-dimensional object in which layers of material are formed under computer control to create an object. Objects can be of almost any shape or geometry and typically are produced using digital model data from a 3D model or another electronic data source such as an Additive Manufacturing File(AMF) file. **STereoLithography (STL)** is one of the most common file types that 3D printers can read. Thus, unlike material removed from a stock in the conventional machining process, 3D printing or AM builds a three-dimensional object from computer-aided design (CAD) model or AMF file by successively adding material layer by layer.

The term "3D printing" originally referred to a process that deposits a binder material onto a powder bed with inkjet printer heads layer by layer. More recently, the term is being used in popular vernacular to encompass a wider variety of additive manufacturing techniques. United States and



global technical standards use the official term *additive manufacturing* for this broader sense.



Key takeaways from the study include the following:

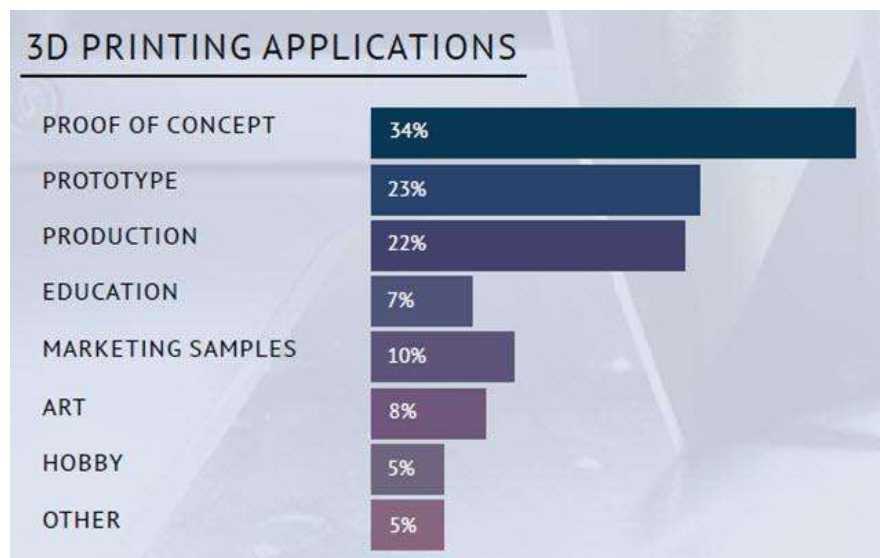


- **3D Printing technology is mainly used to accelerate product development (28%), offer customized products (16%) and to increase production flexibility (13%).** Additional uses include enabling co-creation with customers (9%), reducing tooling investment (9%), optimizing demo product expenses (6%) and improving spare parts management (4%). The following graphic compares top priorities for 3D Printing in 2017 versus the study's prediction in 2022.
- **Proof of concept (34%) and prototyping (23%) together dominate 3D Printing applications today.** 57% of all 3D Printing work done is in the first phases of new product development, underscoring 3D Printing's contribution to reducing time-to-market for new products. 22% of respondents are relying on 3D Printing as part of their production processes. Americans use 3D Printing mainly for design and production (23% and 17% versus 18% and 14% for Europe), while Europe uses it mainly for R&D (26% versus 18%). On average, respondents from both Europe and America quote more than one main benefit they can see from 3D Printing.
- **90% of companies using 3D Printing consider it a competitive advantage in their strategy.** 72% predict their spending on additive manufacturing will increase in



2018. These and other factors are leading to the average budget for 3D Printing increasing from \$6,132 in 2016 to \$9,504 in 2017 while the market shows signs of maturing.

- **95% of 3D Printing Power Users view the technology as a competitive advantage in their company's strategies.** They are also more likely to attain a positive ROI fo 3D Printing this year (47% to 57%). Also, 81% of Power Users believe that their competitors also use 3D Printing, versus 59 of total.
- **71% of Services firms attained a higher ROI this year compared to 2016, versus 47% of all respondents globally.** 78% of Services businesses expect to increase their spending in 2017 versus 72% of the total Offering customized products and limited series products (34%) are the highest priority for Services businesses in 2017.







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ORGANISING TECHNICAL SKILL DEVELOPMENT PROGRAM IN ASSOCIATION WITH
BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

AUTO-MANIA

The Auto Mania organized under MECHMERIZE'18 was held on 17th March, 2018 under the faculty in charge of Prof. Manikjade. The event was arranged for students of Mechanical department in order to test the knowledge of students in the field of automobile and hence increase their interest in the field of automobiles.

Various rounds and process identification of images, videos, rapid fire was intended to make sure that such a technical event can be made fun learning too. The preliminary rounds were taken to short list the candidates for the final round.

Before event:

On 13th Feb the preparations necessary for Auto-Mania like posters and the questionnaires were done. The arrangement of the class room was done on the same day. The whole preparations like videos, images and the print of questionnaires were done a day before the event. On 16th March messages regarding event were sent to every participant.

Event day:

The event room was allocated for each event. For Auto Mania, E405 was allocated. At 10.15 AM we began the final arrangement for the event. Participants started arriving at 10.25 AM and thereby registration started. All the 8 teams with their team members were settled in their given places. The first round started at 10.40 AM sharp. The event consisted of 4 rounds, after first round few teams were eliminated in order to shortlist the final teams.

ROUND 1 -General knowledge of automobiles

The participants were given a quick round and a questioner of mcq's regarding automobile. In total 8 teams were playing this round out of which 6 teams were qualified for next round.

ROUND 2 -Logo& component identification

The participants were shown few pictures on projector and they were asked to identify the logos of various automobiles .This was a buzzer round, after which only 3 teams were qualified for next round.

ROUND 3 -Connecting links

The participants were shown few pictures for their group and they were asked to connect the links between them and guess the complete name out of those pictures .3 teams were selected and qualified for this as well the next round.

ROUND -Rapid fire

In this round, there were 2 sets, in the first place there was spell check and the second was rapid fire .Based on this, the winners were declared.

After event:

The certificates were given to 1st and 2nd winner of the competition with the winning amount of Rs.500 & Rs.300 respectively by A.P.Kulkarni sir, Salve sir & C.R.More sir.

Winners:

1. Shivani Sahane

Agneya Gawahle

Aditya Rudraksha

2 .Shrey Shekhar

Bhaves Ingale

Event Heads:

1.Shalaka Dasari

2.Omkar Jagtap

EVENT COORDINATORS:

1. Shrikant Garikipati

2. Apurva Bhosale

Budget details:

| | |
|-------------------------------------|--------|
| Total winning prize)Amount(| Rs.500 |
| Total runner up prize)Amount(| Rs.300 |
| Total required budget | Rs.500 |
| Amount spent on decoration material | Rs.70 |
| Amount spent for prints and pages | Rs.64 |







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MECHANICAL ENGINEERING
STUDENTS' ASSOCIATION
PRESENT



MECHMERIZE '18
18th-17th March
• "Future is here" •

NATIONAL LEVEL TECHNICAL SKILL DEVELOPMENT PROGRAM

Certificate



This is to certify that Mr./Ms. Agneys Gawahle
has participated/won in 1st Prize
in Auto - Mania event held on 16th Feb 2018 in
Mechmerize '18.

Mr. Mahesh Kamthe
General Secretary,
MESA

Prof. A. V. Salve
Faculty Advisor,
MESA,
VIT, Pune.

Dr. A. P. Kulkarni
Head Of Department
of Mechanical engg.,
VIT, Pune.

Dr. B. S. Karkare
Director,
VIT, Pune.



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MECHMERIZE '18
16th-17th March
• "Future is here" •

NATIONAL LEVEL TECHNICAL SKILL DEVELOPMENT PROGRAM

Certificate



This is to certify that Mr./Ms. Shivani Sahane
has participated/won in 1st Prize
in Auto - Mania event held on 16th Feb 2018 in
Mechmerize '18.

Mr. Mahesh Kamthe
General Secretary,
MESA

Prof. A.V. Salve
Faculty Advisor,
MESA,
VIIT, Pune.

Dr. A.P. Kulkarni
Head Of Department
of Mechanical engg.,
VIIT, Pune.

Dr. B.S. Karkare
Director,
VIIT, Pune.



BRCT's Vishwakarma Institute of Information Technology



MECHMERIZE '18

Auto-Mania Round 1

1. The first car manufactured in India is
 - A.) Ambassador
 - B.) Tata Indica
 - C.) Hindustan 10
 - D.) Maruti 800
2. Number of exhaust manifolds in a V-6 engine are
 - A.) 1
 - B.) 2
 - C.) 4
 - D.) 8
3. The function of antilock brake system (ABS) is that is
 - A.) reduces the stopping distance
 - B.) minimizes the brake fade
 - C.) maintains directional control during braking by preventing the wheel from locking
 - D.) prevents nose dives during braking and thereby postpones locking of the wheels

4. The rating of C.I. engine fuel (Diesel) is given by

- A.) octane number
- B.) performance number
- C.) cetane number
- D.) none of these

5. The compression ratio for Diesel engines usually lies in the range of

- A.) 6-10
- B.) 10-15
- C.) 15-25
- D.) 25-40

6. In the car WagonR. R refers to

- A.) Relaxation
- B.) Recreation
- C.) Rejuvenation
- D.) Remake

7. Full form of ESP

- A.) Electronic Speed Program
- B.) Electrical Suspension Pulse
- C.) Electronic Stability Program
- D.) Electrical Shock Pulse

8. In a petrol engine, the high voltage for spark plug is in the order of

- A.) 1000 volts
- B.) 2000 volts
- C.) 11 kilovolts
- D.) 22 kilovolts

9. The component in the radiator of an automobile that increases the boiling point of water is

- A.) Drain Plug
- B.) Water Jacket
- C.) Vacuum Valve
- D.) Pressure cap

10. TATA motors own which foreign company

- A.) General Motors
- B.) Jaguar
- C.) Benelli
- D.) Suzuki

11. The firing order for an opposed four cylinder I.C. engine is

- A.) 1-2-3-4
- B.) 1-3-4-2
- C.) 1-4-3-2
- D.) 1-3-2-4

12. The reconditioning process used to give cylinder bore surfaces a cross-hatch pattern, is known as

- A.) Honing
- B.) Porous Plating
- C.) Boring
- D.) Shot Peening

13. The cam shaft in an engine is always mounted

- A.) intersecting the crankshaft
- B.) perpendicular to the crankshaft
- C.) inclined to the crankshaft
- D.) none of these

14. The lower cylindrical portion of the piston which improves piston cooling performance is called

- A.) piston crown
- B.) connecting rod
- C.) piston pin boss
- D.) piston skirt

15. An under-inflated tyre will wear the tread most

- A.) near the centre
- B.) near the edges
- C.) in the lateral direction
- D.) in the cross direction

16. The lubrication oil flow in an engine is in the order as

- A.) oil strainer - oil pump - relief valve - oil filter - cylinder block - cylinder head - oil pan
- B.) oil pump - oil strainer - relief valve - oil filter - cylinder block - cylinder head - oil pan
- C.) oil strainer - oil filter - relief valve - oil pump - cylinder block - cylinder head - oil pan
- D.) oil strainer - oil pump - relief valve - oil filter - cylinder head - cylinder block - oil pan

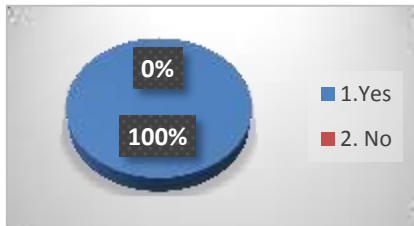
17. Who made the first Lamborghini?

- A.) Enzo Lamborghini
- B.) Ferrucci Lamborghini
- C.) Gilletto Lamborghini
- D.) Huracacan Lamborghini

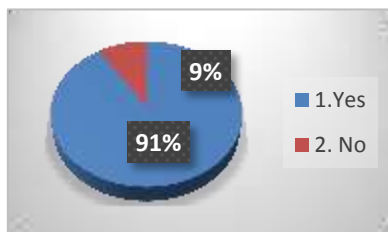
18. The most accurate ignition system of a spark ignition engine is

- A.) Magneto System
- B.) Battery System
- C.) Electronic Control Unit System
- D.) Magneto Electronic System

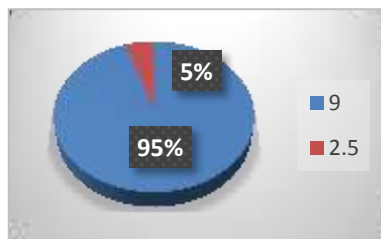
Feedback analysis:



Q. Was the Event well organised?



Q. Was this event helpful for your academics?



Q. How will you rate this Event on the count of 1-10?

19.



- A.) BMW
- B.) Audi
- C.) Jaguar
- D.) Bentley

20.



- A.) Need For Speed
- B.) Blur
- C.) Crew
- D.) Ground Zero



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MECHMERIZE'18

REGISTRATION LIST

| SR.NO. | NAME | DIVISION |
|--------|----------------------|----------|
| 1. | ROMA MEHENDALE | BE B |
| 2. | AKASH KIRPAN | SE B |
| 3. | ANISH YADAV | SE B |
| 4. | SHUBHAM CHAPPARGHARE | TE A |
| 5. | PARVEZ PATEL | TE A |
| 6. | DIPAK RAKSHE | TE A |
| 7. | SHAILESH SHAH | TE A |
| 8. | HARSHANAND KOLHE | TE A |
| 9. | SWAGATA SHINDE | SE A |
| 10. | YATHARTH MAURYA | SE A |
| 11. | ADITYA RUDRAKSH | SE A |
| 12. | AGNEYA GAWAHLE | SE A |
| 13. | SHIVANI SAHANE | SE A |
| 14. | DISHANT PAWAR | SE A |
| 15. | SHREY SHEKHAR | TE A |
| 16. | BHAVESH INGALE | TE A |
| 17. | SHIVAM MALKAR | SE A |

- | | | |
|-----|-------------------|------|
| 18. | MANOHAR KULAT | SE A |
| 19. | RUTURAJ CHAUDHARI | SE A |



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SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

A REPORT OF ONE DAY WORKSHOP ON CNC

HOST:

MR. GHULE V.R.

VENUE:

WORKSHOP VIIT, KONDWA

ORGANIZED & MANAGED BY:

MESA VIIT, KONDWA

GUIDE: PROF. A.V. SOMATKAR

EVENT HEAD: WADEKAR RAJESHRI D.

EVENT CO-ORDINATER: 1) SAURABH VASAIKAR

2) ABHIJIT PAWAR

DATE: 16 march 2018

TIME: 12.00pm to

2.00pm

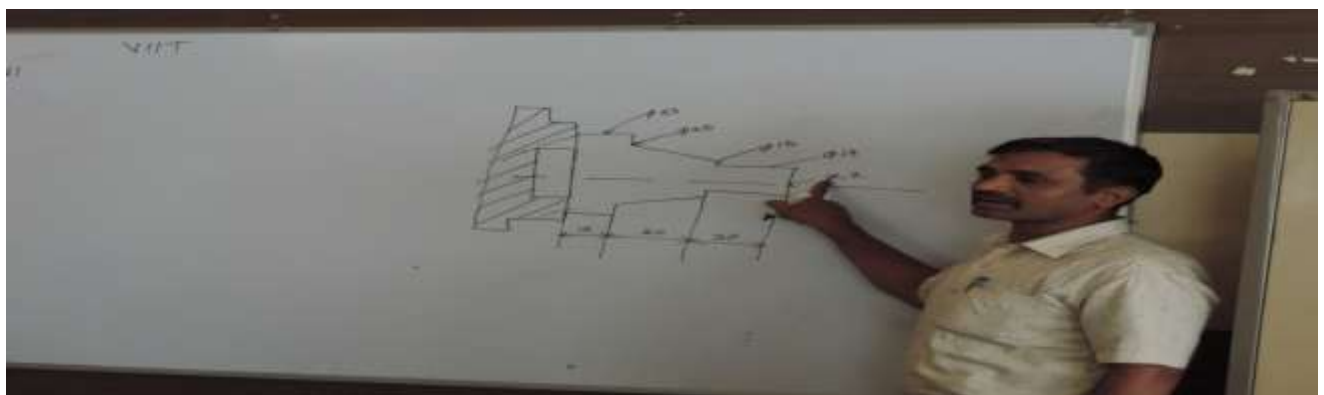
❖ Objective of Workshop on CNC programming

MESA , Department of Mechanical engineering arranged SKILL DEVELOPMENT WORKSHOP ON CNC programming for mechanical students. Now in a day's use of CNC machine in all industries is increase day by day so this course introduces the concept and capabilities of computer numerical control machine. Topic includes I Introduction about CNC technologies. Part programing, geometric dimensioning and tolerances.



❖ Highlights of 16th march 2018

Workshop CNC divides into 2 session. In first session all the students got knowledge about basic of CNC machine and programming .CNC programing based on the coding so all code system explained by Mr.Ghule sir. There are many difference of NC and CNC machine and its



More beneficial to work with CNC machine. In this session gives the demonstration of CNC as well as cncclassification, advantages, application and other factor related to CNC explained by Mr. Ghule sir.

After completion of first session in second session for cutting parameter, selection of tool and insert tool. For better understanding actual working and operation for that demo was taken by the respective teacher with the students. Various operations like loading – unloading of tool, turning, tool selection like operation performs by the students.



After the completion of all the process of CNC part programming and manufacturing certificate distribution is done by the HOD sir. All the students get certificate which is used in future to students for the job and workshop programming purpose. This way the workshop was conducted successfully.

ATTENDANCE LIST



Vishwakarma Institute of Information Technology

MECHANICAL ENGINEERING STUDENTS' ASSOCIATION



S.NO. 3/4, Kondhwa Bk, Pune-411048

Email - viitmesa@gmail.com

Shrikant Kanade

| Sr.No | Name | Year | Div | Contact Number | Sign |
|-------|-----------------------|------|-----|----------------|------|
| 1 | Shivani Sahane | SE | A | 9923660257 | |
| 2 | Shubham Chapparghare | TE | A | 9822919880 | |
| 3 | Akanksha Srivastava | TE | B | 8329941626 | |
| 4 | ADITYA SAWALKAR | TE | B | 7875517661 | |
| 5 | Avinash Sisodiya | TE | A | 7218047027 | |
| 6 | Mrutyunjay bandawane | SE | B | 9422085297 | |
| 7 | Parvez Patel | TE | A | 8007315986 | |
| 8 | Jayesh bhadale | TE | B | 9923807087 | |
| 9 | Pratik hingane | TE | B | 9881803551 | |
| 10 | Shrikant kanade | TE | B | 9028398752 | |
| 11 | Sushant londhe | TE | A | 7757942404 | |
| 12 | Sagar dahiphale | TE | A | 9960853022 | |
| 13 | Kshitija nagare | TE | B | 8275938019 | |
| 14 | Pratik Hingane | TE | A | 8149916992 | |
| 15 | Sanket salunkhe | TE | B | 7020786317 | |
| 16 | Atul Santosh Patankar | TE | A | 7038619912 | |
| 17 | Siddhant patil | TE | B | 9405685788 | |
| 18 | Rabin Rego | TE | A | 9762547008 | |
| 19 | Shreyas kulkarni | SE | B | 9930384731 | |
| 20 | Omkar jagtap | TE | B | 7276150911 | |
| 21 | Avinash sisodiya | TE | A | 7020995492 | |
| 22 | Prajakta dasgude | TE | A | 7887431533 | |
| 23 | Rajeshri wadekar | TE | B | 7083463179 | |
| 24 | Shreyas mithari | TE | A | 9527978597 | |
| 25 | Shubham irale | TE | B | 9130763836 | |
| 26 | shubham chaudhari | SE | B | 7248911650 | |
| 27 | Tejas Taradgaonkar | SE | A | 7038759602 | |
| 28 | Nitesh satpute | SE | B | 7276808126 | |
| 29 | Rushikesh jadhav | TE | A | 7757882443 | |
| 30 | Ketan lonkar | TE | A | 8788961067 | |
| 31 | Prashant garaje | TE | A | 7757882443 | |
| 32 | Shalaka dasari | TE | A | 9284736861 | |
| 33 | Pruthvi Nagarkar | TE | B | 8551874656 | |
| 34 | Vijay dukre | TE | A | 9960853022 | |
| 35 | Rakesh chavan | TE | A | 9960853022 | |
| 36 | Tejas Pandharpatte | SE | B | 9096330482 | |
| 37 | Saicharan Pothireddy | SE | B | 9764499683 | |

38 Prayakta Ajun TE A 9657059240 P O Ajun



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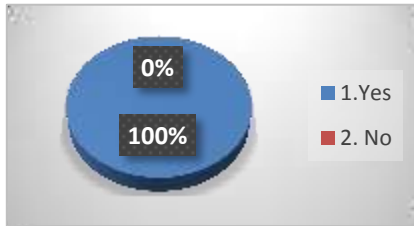


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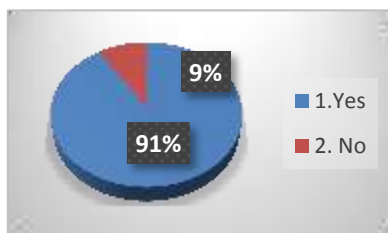
Email - viitmesa@gmail.com

| | | | | | |
|----|-----------------------|------|---|------------|-------------------|
| 38 | Jitendra Borase | SE | A | 7066641866 | <u>Borase</u> |
| 39 | Ruturaj chaudhari | SE | A | 7448068560 | |
| 40 | shrenik kole | SE | B | 9763566629 | <u>Breishko</u> |
| 41 | Abhishek mahajan | SE | B | 8888029176 | <u>Mahajan</u> |
| 42 | Sandip lanke | TE | A | 9765667868 | <u>Sandip</u> |
| 43 | Omkar Kolkar | TE | B | 9922026116 | <u>Omkar</u> |
| 44 | Shubham Gadale | TE | B | 7517095037 | <u>Shubham</u> |
| 45 | Sumedh Sakdel | TE | A | 8380024697 | <u>Sumedh</u> |
| 46 | Aditya Garde | TE | B | 8007508762 | <u>Garde</u> |
| 47 | Pravin Tadhar | SE | B | 9923020928 | <u>P. Tadhar</u> |
| 48 | Omair, Deshmukh | TE | A | 9404576119 | <u>Omair</u> |
| 49 | Omkar Ugale | TE | A | 9637223099 | <u>Omkar</u> |
| 50 | Shubham Bhakora | TE | A | 8888920633 | <u>Shubham</u> |
| 51 | Vinayak Gaurwood | TE | A | 9011777561 | <u>Vinayak</u> |
| 52 | Pranav dandekar | TE | A | 9360249468 | <u>Pranav</u> |
| 53 | Pradumn Pandey | SE | B | 7701907858 | <u>Pradumn</u> |
| 54 | Shubham pathak | SE | B | 7559220113 | <u>Shubham</u> |
| 55 | Ankit P. Lewate | TE | A | 9665535207 | <u>Ankit</u> |
| 56 | Kaustubh. RAD | SE | B | 8149828277 | <u>K. Rad</u> |
| 57 | Kishoreksh Narasimhan | SE | B | 9562418664 | <u>Kishoreksh</u> |
| 58 | Akshay Moni Jack | TE | B | 9022435798 | <u>Akshay</u> |
| 59 | Kevin Ferrao | TE | A | 9527877160 | <u>Kevin</u> |
| 60 | Harish Kawana | SE | B | 7063889472 | <u>Harish</u> |
| 61 | Naveen Margule | TE | A | 9087148117 | <u>Naveen</u> |
| 62 | SAUMYA SHALGAR | SE-A | | 8149390826 | <u>saumya</u> |
| 63 | Param Rokade | TE-A | | 9921493132 | <u>Param</u> |
| 64 | Prathmesh Tiwari | TE-A | | 9920073396 | <u>Prathmesh</u> |
| 65 | Rito Gangwade | SE-A | | 8978863121 | <u>Rito</u> |
| 66 | Gintiyasadawade | SE-A | | 9537624347 | <u>Gintiyas</u> |
| 67 | Aditya Khade | TE-A | | 7620661234 | <u>Aditya</u> |
| 68 | Yash Doshi | TE-B | | 7387141731 | <u>Yash</u> |
| 69 | Arhil Danole | TE-B | | 7020994693 | <u>Arhil</u> |
| 70 | Ashutosh Pilane | SE-A | | 9850787595 | <u>Ashutosh</u> |
| 71 | Swagata Shinde | SE-A | | 9604037729 | <u>Swagata</u> |
| 72 | Anirudh Gurram | TE-B | | 8888646565 | <u>Anirudh</u> |

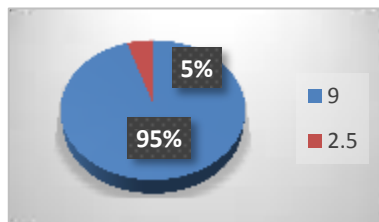
Feedback analysis:



Q. Was the Workshop well organised?



Q. Was this Workshop helpful for your academics?



Q. How will you rate this Workshop on the count of 1-10?



Constro 2018

INDUSTRIAL VISIT

(Constro 2018)

Industrial Visit was arranged by MESA for second and third year students at the three day exhibition Construction Machinery, Materials, Methods & Projects in Pune. This Exhibition has also been recognized by ITPO New Delhi, supported by reputed industry associations, academic institutes and participated by hundreds of companies from India and few from abroad.

Where,

- ◆ 301+ Global Designing and Architecture solutions
- ◆ Complete Ministry support as well as Association support
- ◆ 9876+ buyers across the globe
- ◆ 1254 + Exhibitors since inception
- ◆ 940+ brands on display (products)
- ◆ 397+ Global Construction, Building, Engineering, Architecture and Designing solutions
- ◆ 9872+ buyers across the globe

Also it was highlighted by presence of 15,000 business delegates.





Some reputed brands participate in this edition include Ultratech Cement, Leica, Hitachi India, Anchor panasonic, Gandhi Automation Pvt.Ltd. , Cosmos, Finolex, Hyundai aluminium Co.Ltd., Hi-Tech Industries.

Students also saw some of the manufacturing processes and operation techniques like machine tools, Automation and Robotics, Hydraulic & Pneumatic system, Construction , Material handing equipment and Automotive Components parts.







BRACT'S
VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
ORGANISING TECHNICAL SKILL DEVELOPMENT PROGRAM IN ASSOCIATION WITH
BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

CONTRAPTION WORKSHOP

Workshop Report

A Contraption is a chain of different 'ENERGY CONVERSION' steps in which one steps trigger the next one leading to completion of final task. This event requires simple classroom ideas along with innovation that can make the solution as complicated and fascinating as possible.

Contraption is all about making most complicated solution to a simple problem. This contraption is designed to pull students away from conventional problem solving and push them into the endless chaos of imagination and intuitive thought. Instead of just "solving" the problem, teams have to make the solution as complicated and as convoluted as possible.

In contraption to complete the task different forms of energies are used such as mechanical energy, electrical energy, chemical energy, heat energy, magnetic energy, sound energy, light energy (radiant energy), elastic energy (potential energy), and wind energy.

WORKSHOP TIMING -

On 16th of March 2018 in the afternoon we allotted the timing for workshop for all participants who have registered for the workshop. Then we started our workshop with welcome and introduction of Rohankar, who is a student of final year of mechanical engineering. First he gave all information

about contraption , how it works , how energy transformation take place. Then he told us information about his contraption setup.

After that he started his demonstration, and that was actually a mindblowing. Student were pretty psyched about workshop and really enjoyed it. Then we take the feedback from student about workshop and feedback was very good. At 3.00 pm session ended.

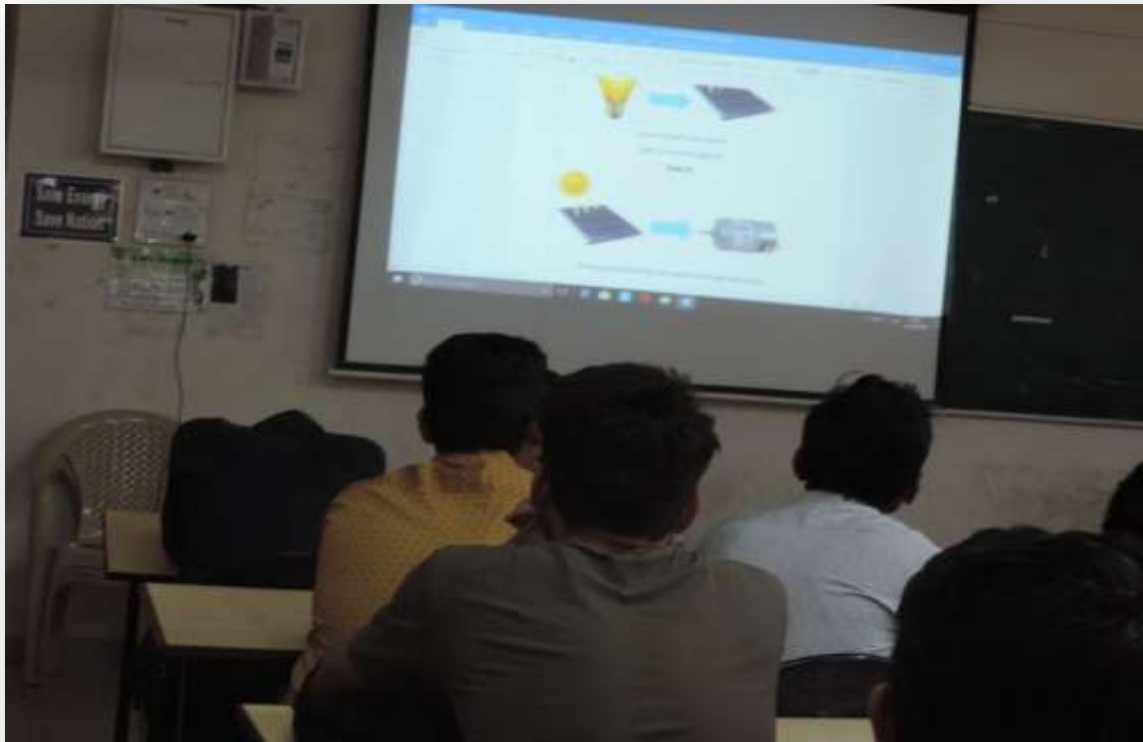
Event Coordinator—Pratik Thorat

Maresh Bhusnar

Budget details:

| | |
|-------------------|-----|
| Workshop budget | 500 |
| workshop expenses | 277 |



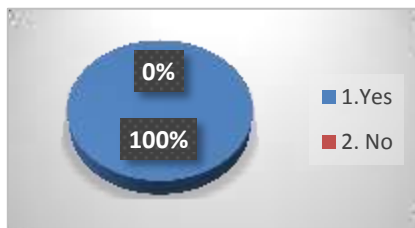


CONTRAPTION WORKSHOP ATTENDANCE LIST

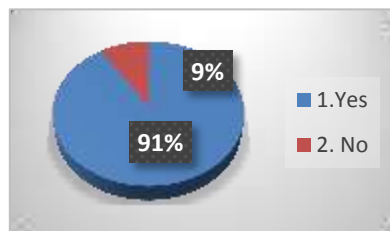
| Sr.No. | Name | Year &Div | Mob No |
|--------|----------------------|-----------|------------|
| 1. | Arun Dhokate | SE – B | 9420735034 |
| 2. | Rohit Rajput | BE – B | 9604441075 |
| 3. | Apporv Keskar | SE - B | 7588765244 |
| 4. | Shubham Chivate | SE -B | 8308765136 |
| 5. | Manohar Kulat | SE – A | 8605531401 |
| 6. | Shriniwas Kadam | SE -B | 8275997114 |
| 7. | Shubham Ingole | SE – B | 9921022364 |
| 8. | Swapnil Gaikwad | SE- B | 9158491372 |
| 9. | Manish Shetty | TE – A | 9969368658 |
| 10. | Ajinkya Jadhav | SE – B | 8378080325 |
| 11. | Samrudhi Kedari | SE – A | 8275865173 |
| 12. | Pushkar Niyayadhis | SE – B | 7741819617 |
| 13. | Hrishikesh Narnaware | SE – B | 9552418664 |
| 14. | Rutuja Shinde | SE – A | 9767134536 |
| 15. | Swagata Shinde | SE - A | 9604037729 |
| 16. | Nikhil Choudary | SE – A | 8793546491 |
| 17. | Ajay Mali | SE – B | 9422002289 |
| 18. | Abhinav Paliwal | BE – B | 9604441075 |
| 19. | Shivam Kulkarni | TE – A | 8605263196 |
| 20. | Shreyas Mithari | TE – A | 9527978597 |
| 21. | Ashutosh Gothwal | TE – A | 8483895139 |
| 22. | Pratik Thorat | TE – A | 8237888521 |
| 23. | Mahesh Bhusnar | SE – B | 9175292608 |
| 24 | Sammey Deshmukh | TE-- A | 9404576117 |

| | | | |
|----|---------------------|--------|------------|
| 25 | Naeem Mulani | SE --B | 8237259617 |
| 26 | Robin rego | TE-A | 9762547008 |
| 27 | Atulpatankar | TE-A | 7038619912 |
| 28 | Dishantpawar | SE-A | 7276873566 |
| 29 | Rohitvgarudkar | SE-B | 9561764478 |
| 30 | Sammedtalandage | SE-B | 9665899930 |
| 31 | Daideepbothara | TE-A | 8421219852 |
| 32 | Nishantjadhav | SE-B | 8975126723 |
| 33 | Rahul jadhav | SE-A | 9665411641 |
| 34 | shoibpathan | SE-A | 7776048604 |
| 35 | Ajitshinde | SE-B | 8390056595 |
| 36 | Shubhampawar | SE-B | 7038552869 |
| 37 | Shreyaskulkarni | SE-B | 9930384731 |
| 38 | Niteshsatpute | SE-B | 7276808126 |
| 39 | Mrutyunjaybandawane | SE-B | 9422095291 |
| 40 | Rushikeshkshirsath | SE-A | 8888911033 |
| 41 | Sohamkulkarni | TE-B | 9423877901 |

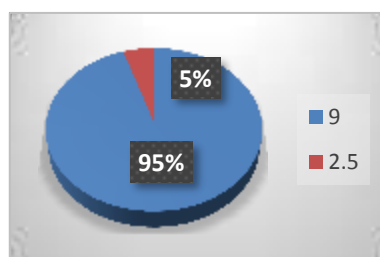
Feedback analysis:



Q. Was the Workshop well organised?



Q. Was this Workshop helpful for your academics?



Q. How will you rate this Workshop on the count of 1-10?



ABSTRACT

Dr. A. A. Bhosale Head, Mech. Engg.
Dept, MKSSS's Cummins College of
Engineering for Women, Pune

ELECTRIC VEHICLES WORKSHOP

A Two-day Workshop on Electric Vehicles was arranged by Mechanical Engineering Students' Association for second and third year students on 11th and 12th January, 2018. It was conducted by the MKSSS's Cummins College Of Engineering , Pune. On first day of workshop the inauguration ceremony began at 10:00 am in the Auditorium. The workshop began at 11:00 am with the video conferencing of **Ms. Angelica Pathak** who is an alumna of MKSSS's Cummins COE and currently working in Tesla Motors, California. This was followed by Lecture of Prof. Prabeer Barpanda, IISc Bangalore, Prof. Sagar Mitra, IIT Bombay , Prof. Venkatasailanathan Ramadesigan, IITB , Dr. Omprakash Kulkarni, Scientist.



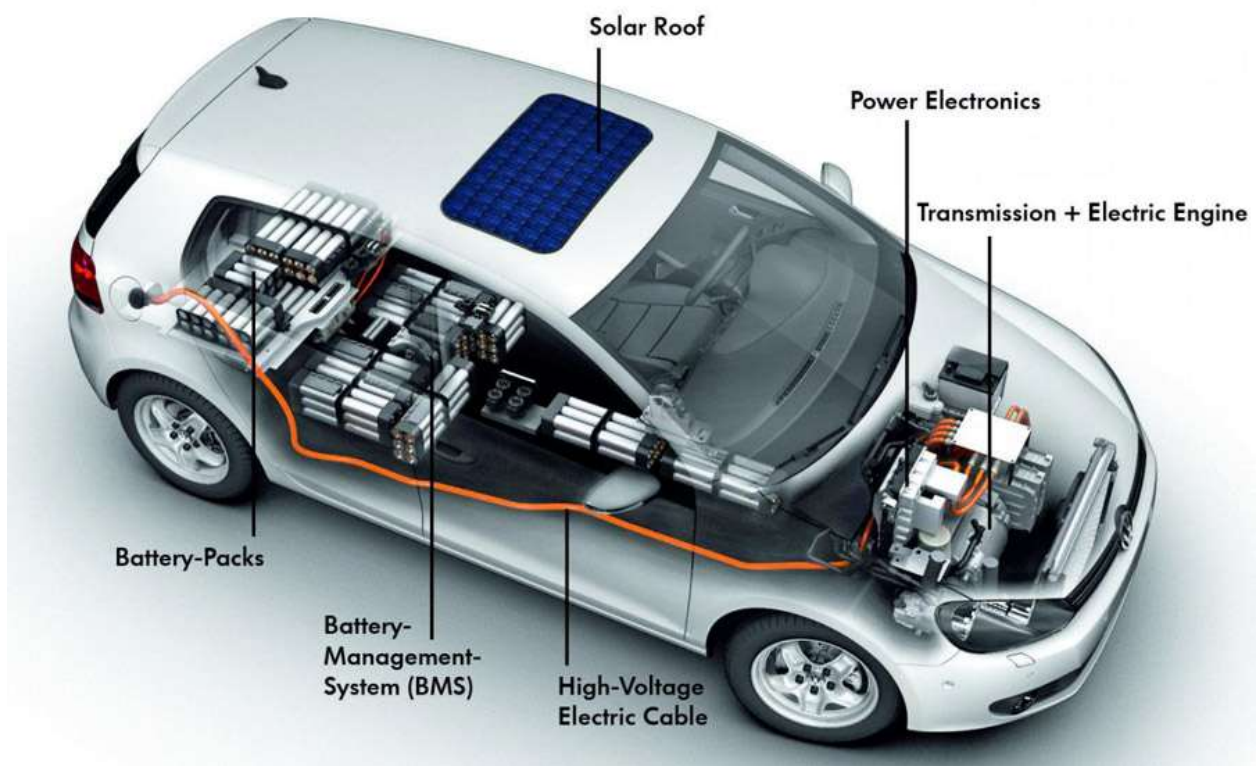
The major key concepts and points of the workshop were Electric and Hybrid vehicles are the transportation systems of the future. There are

tremendous opportunities for academicians and researches to contribute in it.

The prime aim of the workshop was to disseminate the state of the art in EVs to all the stake holders and motivate them to undertake challenges with a focus on Indian conditions. Through the knowledge exchange with those active in development, application and teaching; the workshop provided a way out to the current problems with realistic solutions and highlight the challenges that lie ahead to engage the industry professionals, academicians, researchers and the student engineers for concerted action.

Objectives of the Workshop:

1. To disseminate knowledge of opportunities and challenges in electric vehicles among the students and young researchers.
2. To discuss recent developments in electric vehicle and battery technologies all over the globe and state of the art in India.
3. To initiate a platform for researchers, industry professionals, academicians and students working in EV/HEV field to share their ideas and findings.
4. To provide a meeting point for investigators in India to collaborate and to form research groups.
5. To discuss policy, regulations and standards of EVs in India and abroad and create a broad policy framework for Indian conditions





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VISHWAKARMA INSTITUTE OF INFORMATION
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WITH BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

FIESTA D BALLOONA

The event Fiesta D Balloona organized under Mechmerize'18 was held on 17th March 2018 under the faculty in charge of N. H. Ambhore. The event was of dropping the egg as well as weight lifting using the balloons.

Before Event:

First the required materials i.e. cello tape, cutters, threads, thermocol that were the necessity of the event was to be ordered. After the questions were finalized the materials were ordered.

The material was arrived 2 days before the event. The designs were made and finalized under the guidance of N. H. Ambhore Sir. A sample piece was made 1 day before the event so as for reference or demonstrating to participants. On 16th February the final participants list was handed to us. The messages regarding event details were sent to every participant.

Event Day:

The event room's arrangement was done. At 9.30 a.m. the participants start arriving and at sharp 10.00 a.m. the first round started with the 8 groups each contained 3 participants in classroom E407. The first round was about to lift and weight an egg using balloons. The total duration for first round was of 60 min. After that second round started with 4 groups which are qualified from first round. Second round was about to make mechanism in such a way that weight should be lifted using balloons. The total duration for second round was of 90 min. At the end results were evaluated by N. H. Ambhore Sir and respective event heads. The results were evaluated on the basis of

1. Job completion.
2. Time taken.

3. Number of broken/unbroken eggs.

After some discussion the best 2 mechanisms were finalized as 1st and 2nd position of the event FIESTA D BALLOONA.

After Event:

The certificates were given to participants securing first and second positions amount Rs. 500 and Rs. 300 respectively by More Sir, Kulkarni Sir and Salve Sir.

Winner: 1. Mrutyunjay Bandawane

2. Rajashri Wadekar

3. Tejas Tarajgoankar.

Runner up: 1. Ankit Lewate.

2. Vishwajit Solanke.

3. Samay Deshmukh.

Event Head:

- Daideep Bothara
- Ashutosh Gothwal.

Event Co-ordinators:

- Kaustubh Patankar.
- Suraj Yewale.

Budget Details:

| | |
|-----------------------------------|------|
| Total Winning prize (Amount) | 500 |
| Total Runner up prize (Amount) | 250 |
| Total required budget | 2000 |
| Total amounts spent for the event | 900 |





Registration Sheet

| Group No | Name | Year &Div | Mob.No | |
|----------|--|-----------|------------|---------|
| 1. | AkashKirpon TejasPandharpatte Kaustubh Kad | SE-B | 7183660780 | |
| 2. | Mengal Ramesh balu Umesh Apurva Keskar | SE-B | 7057845104 | present |
| 3. | SiddhnatKolkar Ajay Mali DhairyasheelKare | SE-B | 9890279670 | |
| 4. | Shailesh Kumar Shah Shreyas shekhar Parvez Patel | TE-B | 9860044237 | |
| 5. | Aparna Sarade Savita Vetat Shreyas Kulkarni | SE-B | 9146656419 | present |

| | | | | |
|----|---|--------------|--------------------------|---------|
| 6. | RajeshriWadekar SidhhantPatil SanketSalunke | TE-B | 7083463179 | |
| 7. | Alim Shaikh VishwajeetSolanke Gaurav Nandankar | TE-A | 8237876833 | |
| 8. | Ketan Lonakar Prashant Garje RushikeshJadhav | TE-A | 9657367175 | |
| 9 | Manish Shetty Pratik Thorat ShubhamIndulkar | TE-A | 9969368658 8237888521 | present |
| 10 | Rohit Rajput Abhinav Paliwal Pranav | BE-B | 9604441075 | present |
| 11 | MrutunjayBandawane Rajashreewadekar TejasTarajgaonkar | SE-B TE-B | 9422085297 | present |
| 12 | Rita gangurdav Sintiya Chaityanya | SE-A | 8378863121 | |
| 13 | Pradumn Pandey Sambodhi D. Saurabh Bhosale | SE-B | 7721907858 | present |
| 14 | Harsh Kaurva Shubham Chaudhari SagarJadhav | SE-B | 7083889472 | |
| 15 | Mahesh bhusanar Naeem Mulani | SE-B | 9175292608 | present |
| 16 | Shubham Ingole | SE-B | 9890070325 | present |

| | | | | |
|----|-------------------|------|-----------|---------|
| | Atharva sohoni | | | |
| | Zaman mohammad | | | |
| 17 | Ankit lewate | TE-A | 966555227 | present |
| | Samaydeshmukh | | | |
| | Vishwajeetsolanke | | | |



BOARD OF STUDENTS' WELFARE, SPPU
DEPARTMENT OF MECHANICAL ENGINEERING
MECHANICAL ENGINEERING
STUDENTS' ASSOCIATION
PRESENT



MECHMERIZE '18
16th-17th
March

• "Future is here" •

NATIONAL LEVEL TECHNICAL SKILL DEVELOPMENT PROGRAM

Certificate



This is to certify that Mr./Ms. Savita Vetal
has participated/worked in Fiesta D
Balloona event held on 16th Feb 2018 in
Mechmerize '18.

Mr. Mahesh Kamthe
General Secretary,
MESA

Prof. A.V. Salve
Faculty Advisor,
MESA,
VIIT, Pune.

Dr. A.P. Kulkarni
Head Of Department
of Mechanical engg.,
VIIT, Pune.

Dr. B.S. Karkare
Director,
VIIT, Pune.



BOARD OF STUDENTS' WELFARE, SPPU
DEPARTMENT OF MECHANICAL ENGINEERING
MECHANICAL ENGINEERING
STUDENTS' ASSOCIATION
PRESENT



S.P.P.U.



MECHMERIZE '18

16th-17th
March

• "Future is here" •

NATIONAL LEVEL TECHNICAL SKILL DEVELOPMENT PROGRAM

Certificate



This is to certify that Mr./Ms. Aparna Sarode
has participated/won in Fiesta D
Balloona event held on 16th Feb 2018 in
Mechmerize '18.

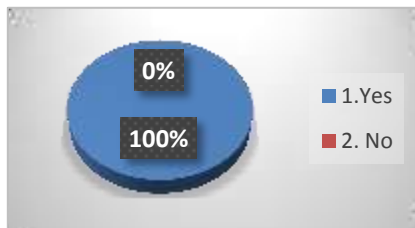
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MESA

Prof. A.V. Salve
Faculty Advisor,
MESA,
VIIT, Pune.

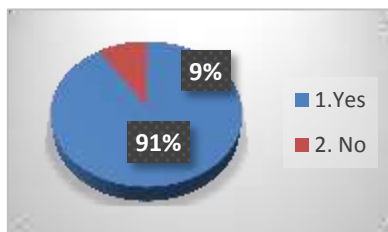
Dr. A.P. Kulkarni
Head Of Department
of Mechanical engg.,
VIIT, Pune.

Dr. B.S. Karkare
Director,
VIIT, Pune.

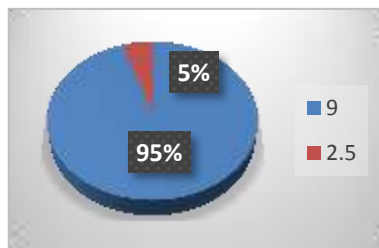
Feedback analysis:



Q. Was the Event well organised?



Q. Was this event helpful for your academics?



Q. How will you rate this Event on the count of 1-10?





INDUSTRIAL VISIT

(GLOBAL INDUSTRIAL EXPO 2017)

Industrial Visit was arranged by MESA for second and third year students at the three day exhibition on industrial products at the Auto Cluster Exhibition Center, Pimpri, Pune under the aegis of Global Media Communication & IBK Media LLP, in association with SME Chamber of India.

The exhibition was aimed at promoting manufacturing and industrial growth in the state. Over 10,000 industrialists were expected to visit the expo displaying Technologies, designing, engineering, equipment, suppliers and support services. It also serves as an ideal studio for entrepreneurs, who wish to showcase their latent and enhance their capabilities. It also facilitates a direct interaction between participants and visitors.





Some reputed brands participate in this edition include Tsunami Precision Engineering India Pvt Ltd. Cotmac Electronics Pvt Ltd. Keyence India Pvt Ltd. Autonics Automation India Pvt Ltd, Crisil and many other premium brands of national and international repute.

They also showed some of the manufacturing processes and operation techniques like machine tools, Automation and Robotics, Hydraulic & Pneumatic system, Electrical and electronics , Switchgears, Material handing equipment, IT products and services and Automotive Components parts.







ABSTRACT

Hydropower Plant

HP



T.E INDUSTRIAL VISIT

Industrial Visit was arranged by MESA for third year students at Panshet Hydroelectric Power Plant on 28th July 2017. Students gained specific knowledge about the working of hydro power plant which consumes significance in the scenario of energy crisis. The plant was approximately 50 km from Pune city. Prof D.B.Nalawde and Prof M V Karvinkappa accompanied students on the visit. It was knowledgeable experience for the third year students.







ABSTRACT

Web conferencing may be used as an umbrella term for various types of online collaborative services including web seminars ("webinars"), webcasts, and peer-level web meetings. It may also be used in a more narrow sense to refer only to the peer-level web meeting context, in an attempt to disambiguate it from the other types of collaborative sessions.[1] Terminology related to these technologies is inexact, and no generally agreed upon source or standards organization exists to provide an established usage reference

HP



Webinar was arranged by Mechanical Engineering Students' Association for students on the topic "Mold Filling Technology Trends and Innovations" in association with Moldex 3D. It was conducted on 24th January 2018. The Webinar mainly focused on the recent technologies and trends in Manufacturing Process.

Changes are sweeping the world of manufacturing. Advanced materials and innovative production technologies are maturing. With a recent push towards smart manufacturing, injection molding manufacturers are on a relentless pursuit of the latest technology and innovations to increase manufacturing speed and efficiency, accelerating the time of meeting customer demands. The webinar was to review the latest trends and recent innovations in mold filling simulation technology. So it mainly helped us to learn how to make our organization and team more productive, efficient and agile by adopting new simulation approaches to make Design-for-Manufacturing more easier and attainable. We got to know the insights in mold filling technology and how to implement the new and novel mold filling solutions.



Mold filling simulation was only applied to the diagnosis of plastic part design to solve production problems. Currently, it has evolved into a tool that is massively used on early design, verification, and optimization of part and mold development and plays an essential role in design and manufacturing processes in most enterprises. During the process of this evolution, the widespread application of full-3D CAD software for part and mold design contributes the most, but it can never be successful without the automatic

mesh generator. In the early days, it usually required analysts to spend hours, even days, on



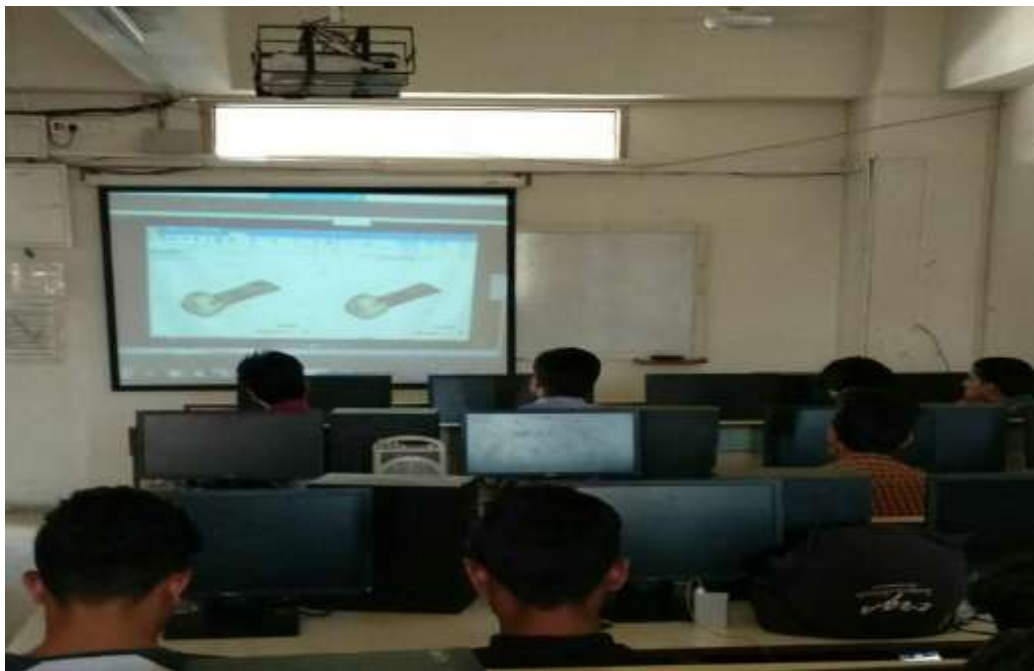
modeling and meshing before analyzing. Now, with the fully automatic eDesign and Boundary Layer Mesh (BLM) mesh generator, meshing can be done with only one click and the mesh can be updated synchronously with part modification. Therefore, the task of standard mold filling analysis has gradually shifted from the professional CAE analyst to the mold designer, even to the product designer at the upper stream. Product and mold designers are used to relying on the analysis software to determine the position of sprue, balance the runner design, optimize the cooling channel deployment, solve warpage, etc. Moreover, many companies have started to embed the core of mold filling analysis in their internal design guide platforms to realize the design quality management ideal in which every part is processed by mold filling analysis to automatically inspect the upper limit of injection pressure, shrinkage, and warpage. Meanwhile, by working with a parallel computing cluster on the private cloud, the computing time can be significantly reduced, and the response speed is improved.

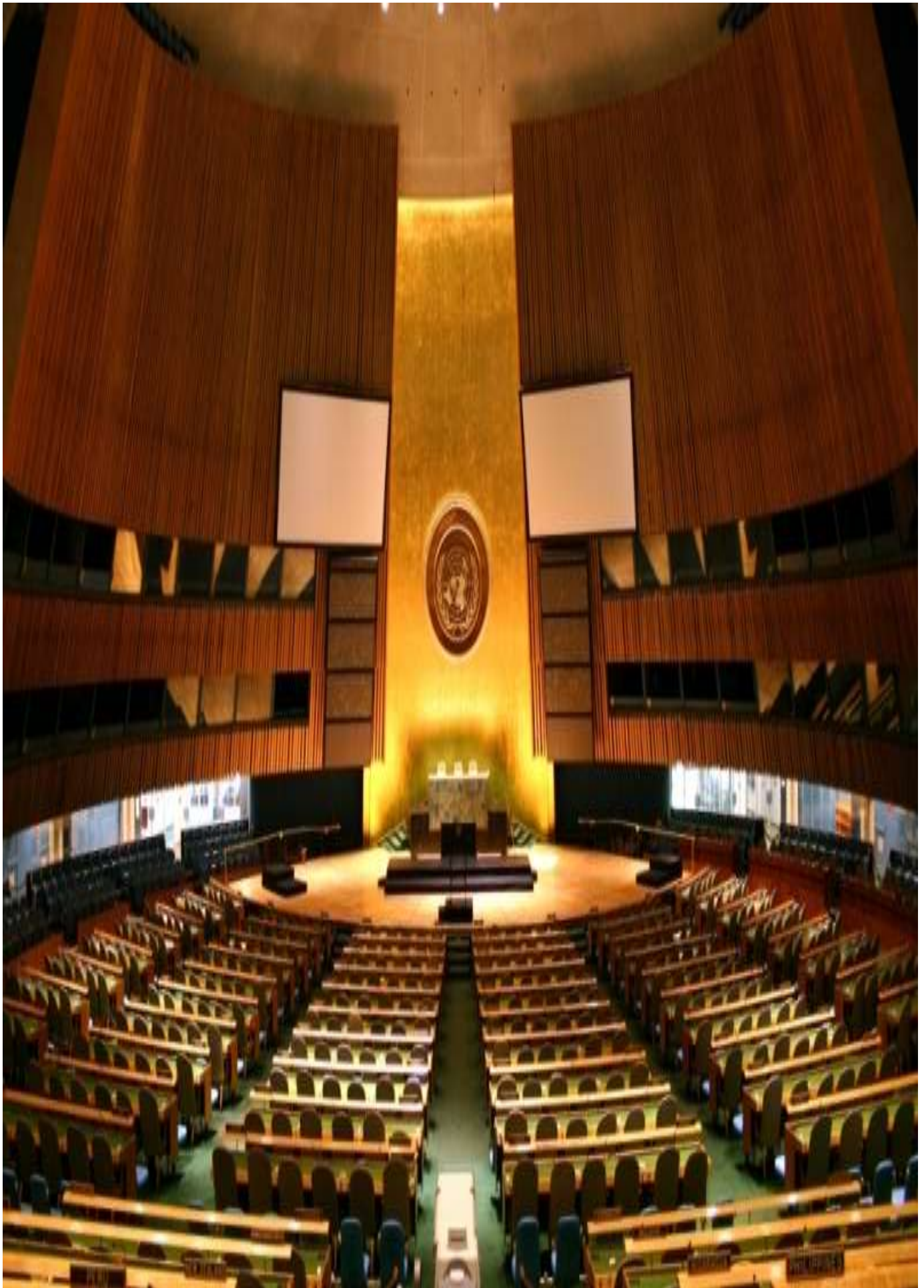
Under the spectrum of multiple component injection technologies are the sandwich technologies. Sandwich technologies comprise co-injection, mono-sandwich, gas injection technique (GIT) and water injection technique (WIT). In the co-injection method, two melts are injected into

the machine's cavity through one gate, one after the other. In mono-sandwich method, two materials are injected with one injection unit via one passage into the cavity. In GIT, the gas used is mostly nitrogen, which is injected into the part to replace the melt in the core and create a hollow space. GIT enables production of parts with high wall-thicknesses and/or material accumulations. It provides increased strength and stiffness at lower or equal part weight. It enables reduction of weight up to 50% and decreasing of the material costs. Likewise it enables reduction of the cooling/cycle time up to 50%, lowers clamp force and machine costs. Modern day injection moulding machines are controlled by a built-in computer. The computer controls all the actions of the machine based on sensor fed information, thereby ensuring consistent output and shot to shot quality.

More than 20 students attended the webinar. It proves useful for the mechanical students as the webinar depicted deep understanding on the current trends of the mold filling technology in the manufacturing field.









MUN'18 Report

Benchmarking the legacy, the dawn of year 2018 witnessed the 2nd Edition of the Vishwakarma Institute of Information Technology's Model United Nations (MUN'18). Mechanical Engineering Students' Association (MESA) organized Model United Nations aiming towards polishing socio-cultural, oratory and critical analytical skills of an individual. This was facilitated by the team of experts who chaired this event. Despite of the unhealthy situations in some parts of the state, over 123 students from all 5 departments of the college came together to become a part of the legacy. Committees that were addressed during the proceedings of the event were –

- UNGA – United Nations General Assembly.
- UNHRC – United Nations Human Rights Council.
- UNCND – United Nations Committee on Narcotics and Drugs.
- UNCTC – United Nations Counter Terrorism Committee.

Date: 5th January, 2018.

Venue: Seminar Hall, E-414, E-415, E-405, E-409.

Time: 8:00 am - 6:00pm.

MUN AGENDA

| <i>SR.NO</i> | <i>TIME</i> | <i>ACTIVITY</i> | <i>VENUE</i> |
|--------------|------------------------|--|--|
| 1. | 08:00 am – 08:30 am | Reporting of Delegates | E-Building Lawn |
| 2. | 08:30am- 09:00am | Arrival of Chief Guest and National Anthem | E building lawn |
| 3. | 09:00 am – 10:00 am | Inauguration Ceremony | VIIT Seminar Hall |
| 4. | 10:00 am – 11:00 am | Break | - |
| 5. | 11:00 am – 02:00 pm | First session | E405,E409,E414&E415 |
| 6. | 02:00 pm - 02:45 pm | Lunch | E-Building Car Parking(for Delegates) |
| 7. | 02:45 pm - 05:00 pm | Second session | E405,E409,E414&E415 |
| 8. | 05:30 pm – 06:00 pm | Closing Ceremony | VIIT Seminar Hall |

Inauguration Ceremony

On 5th January, 2018 at 8:00am, all the participants as delegates of various countries arrived punctually and gathered with full enthusiasm for the inaugural function. Each one of them dressed formally which raised the decorum to a whole new level. This ceremony was initiated with Flag Hoisting. All the dignitaries, staff members, delegates and the organizing MESA team gathered in front of the E-building with hearts full of patriotism. Ms.Nishtha Shedolkar (SE Mech) anchored this Flag Hoisting ceremony. Our Chief Guest Mrs.Trupti Dhodmise-Navatre did the honors by hoisting the flag followed by Indian National Anthem. National Anthem has always been a source of inspiration, joy, pleasure, dedication and motivation to all. In the seminar hall, the function was anchored by Mr.Omkar Jagtap(TE Mech) and Mr.Yatharth Maurya(SE Mech). Dignitaries lighted lamp and paid homage to the goddess of knowledge Saraswati.

Our Chief Guest – Mrs. Trupti Dodmise-Navatre inspired all the people in the seminar hall with her concise yet humorous speech. She was felicitated by Dr.Atul Kulkarni(HOD MECH). Convener of the VIIT MUN'18, Ms.Sayali Yesane(BE Mech) introduced the chairpersons for the 4 committees. It was a proud moment for MESA and VIIT Pune to have the event judged by such brilliant panel of Chairpersons. Thereafter, Prof. Aniket Salve(Faculty Incharge of MESA) briefly explained the work of MESA. Finally Dr.Atul Kulkarni(HOD MECH) expressed his views on importance of such events which help in the development of personality, knowledge and critical thinking ability of an individual. He concluded the session thanking everyone to be a part of the legacy...

Chief Guest:-

Mrs. Trupti Dhodmise-Navatre.



Mrs.Trupti Dhodmise-Navatre, is currently working as Assistant Commissioner-State taxes at GST Bhavan located at Yerwada, Pune. She completed her B.Tech in Production Engineering from COEP in the year 2010. She is alumnus of Sadhana Education Group from where she completed her schooling.

She also worked as a Production Supervisor at L&T for 4 years. From a very young age she had an ambition of being a part of Indian Bureaucracy. She appeared for UPSC exam twice and also reached the interview stage once. She was selected from MPSC, 2013. She enjoys reading autobiographies and novels. She is young and dynamic officer who is very ambitious and envisions a modern, educated, hi-tech India.

She expressed a need of all citizens of India to unite against common enemies like poverty, lack of education, lack of consumerism etc. that haunt our country. Immense need of unity,

may it be for a country or for the cause of global peace is necessity of today's world.

Her views on MUN were put in a pragmatic way. She entwined her speech with the merits of MUNing, personality development which are made available through such platforms. We were lucky to have her as Chief Guest at VIIT MUN'18.



Chairperson



Ms. Rhea Samyal
Chair-UNCTC



Ms. Roma Rudra
Chair-UNCND



Mr. Rohan Phatale
Chair-UNHRC

Ms. Dolly Samyal
Chair-UNGA

Executive Board

United Nations General Assembly (UNGA)

Agenda: Concerns with Chinese Aggression and Korean Armament
-Tension over Asian Continent and Suppression of Island Nations.

Chair: Ms. Dolly Samyal



Rapporteur: Ms. Nishtha Shedolkar

Meeting coverage:

After establishing the agenda to discuss the topic of “Korean armaments” and “Chinese aggression”, all the delegates presented their opening statements as per the recognition list allotted by the chair. Being recognized by the chair Bangladesh strongly opposed the Korean nuclear activities also, it came up with the Doklam issue showing its discontent about the Chinese actions. Following and supporting the same issues, USA, Nepal,

UK came up with the same discontent about the Korea's nuclear testing and how it denies to talk in the UN. Malaysia strongly supported the above discussion by adding a fact that Korea recently tested a missile and dropped it in its own land. On the contrary, having good trade and commercial relations with China, Columbia and Greece were in favour of China and supported what it was doing.

France came up with the saying that a word with North Korea would resolve the issue. India and Qatar were in favor with the countries against the Korean activities and Chinese trades. Distinguishing all the acquisitions China spoke about an ancient article according to which the Doklam region originally belonged to China. Meanwhile, some moderated caucus were raised by many countries of which some were passed by the chair for more flexible interaction between the delegates. One of the chairs from another committee came up with being a delegate of North Korea. The main motive behind his entry was to spice up the discussion and know what exactly the delegates would react to the Korean attitudes. The discussion busted after he came in. The delegates came up with more enthusiasm and began speaking against Korea. Though Korea denied to take any of the blaming on it and came up clean saying it takes the pride in whatever it is doing. After a long debate many countries came up in favor of having transparency and all countries being on one side against North Korea and have bilateral talks with China as well as North Korea.

During an hour-long unmoderated caucus following the opening speeches, Representatives met in their geographical blocks. The next half hour was spent building consensus and combining the drafts into a single resolution.

Decisions:

The chair held it upon the delegates to create working papers to the specific problems. Examining all the facts, discussion, solutions and the peace amongst all the nations, the chair passed a resolution which included: 1. Transparency between individual nations between Asian countries, 2. Not

completely cutting off the trades with North Korea as it might anger the already existing situation and could have severe repercussions, 3. Thought not completely cutting off trades with North Korea, encourage the Korean embassies to interact as a request to the dictators session with UN in future.

Student reflections:

The student representatives had some clear understanding of the importance to have peace amongst all the nations and not causing any country to come up with any war as it will harm the world. Most of the students agreed with the resolution, while some had their different opinions about the agendas and their solutions being discussed. In the end every student agreed with the flexible discussions and decision making process.





United Nations Human Rights Council (UNHRC)

Agenda: Enhanced Rehabilitation Efforts towards conflict States.

Chair: Mr. Rohan Phatale



Rapporteur: Mr. Ashutosh Gothwal

Meeting coverage:

After briefing the agenda, the chair recognized the delegates and the delegates therefore presented their opening statements. The discussion began with the delegate of Egypt presenting the country's agenda. Sharing its supportive stand, Japan drew up saying that it could provide financial support to the immigrants but won't assure them the refugee. Being an economically developing country, Peru strongly resisted Japan's financial support to the immigrants. Discussion restructured when Hungary raised its voice and Enlightened the topic of human trafficking. Japan came up with some astonishing solutions for human trafficking which brought chair the attention.

An unmoderated caucus was raised by the delegates after which, the house got divided in two groups. The discussion went on with all the delegates of countries commenting on each other's policies. After the chair's review on the current situation in the house, the delegates began a diplomatic trading of their land and resources to embark on the settlement of refugees. Meanwhile, many moderates caucus were raised, of which, some were passed while some

were called off due to lesser voting's. Following the caucus, opening speeches, the chair passed the format for preparation of working papers from all the delegates.

Two papers were proposed before the chair. The next hour was spent focusing on positive points from both the papers and then drafting them into one single resolution.

Decision:

After examining all the facts and knowing the urge to get the perfect solution for the problems, the chair passed a resolution which included: 1. Education and rehabilitation centres for women and children in order to avoid human trafficking, 2. Political and civil rights to migrants, 3. New policies for the refugees entering into countries due to terrorism.

Student reflections:

Students conveyed their opinions in the most positive way. The urge to have world peace and the necessity clear understanding between nations about the current problems reflected from their content projections. Mostly every one of them agreed with the passed resolution. In the end, everyone was satisfied with the decision-making process and the flexibility in the discussions.



*United Nations Counter Terrorism
Committee(UNCTC)*

Agenda: Threat posed by ISIL(Da'esh) to International Peace and Security and the range of United Nations' efforts in support of member states in countering the threat.

Chair: Ms. Rhea Samyal



Rapporteur: Ms. Sae Patil

Meeting coverage:

After establishing the agenda to discuss the topic of Threat posed by ISIL(Da'esh) to international peace and security and the range of United Nations effort in support of member states in countering their threats, representatives presented their opening statements as per the general list allotted by the chair.

Syria believed that extremism is an act in which people were being killed due to some ideology. Kuwait talked about countering victim terrorism. Bangladesh raised Shaikh Haseena matter and Dhaka attack in which 22 foreigners were killed. Later on Germany passed a motion related to Border threats. Germany mentioned that they are helping Iraq and Syria to strengthen their borders. Bangladesh spoke about finance for ISIS suggesting that their funding should be reduced. Germany supported USA stating they help Syria. According to France, collaborative framework should be done as no country can counter extremism alone. France stressed on developing special intelligence unit for countering extremism. Afghanistan collaborated with France stating proper education can surrender extremism from all sides.

Afghanistan supported concept of educating people and making education foundation strong. Kuwait believes that 'war kills extremist and education kills' extremism'. France mentioned that rather than asking P5 countries for help, they should strengthen their own localities.

Moderated caucus following the topic based on reasons for extremism. Malaysia believes that unemployment is one of the reason for a person to enter extremism. Later on Germany stressed on self-training lessons and security in ones' nation. Bangladesh suggested alternative of US Peace force. Afghanistan spoke of improving relations with neighbour countries to maintain peace.

Decisions-

The chair had call upon the delegates to create specific solutions to the specific problems. keeping this in mind, UNCTC made a collaborative decision which included 1) cutting of finance for ISIL,2) proper education and training for people,3) strengthening borders,4) helping the refugees,5) introducing common currency system,6) taking help of WHO and other NGOs,6) justice for criminals.

Student Reflections:

All the committee members came up with unique and exemplary ideas. The problem could be resolved with peace was believed by some where as some had extremist ideals. A perfect blend of both sides of coin is what the committee came to a conclusion of.



United Nations Commission on Narcotics and Drugs (UNCND)

Agenda: Policy transformation from Drug Prohibition to Drug Control, a battle lost.

Chair: Ms. Roma Rudra



Rapporteur: Ms. Prajakta Arjun

Meeting coverage:

Once the briefings were done, the chair addressed the delegates about the recognition process. After being recognized, the chair allotted the delegates the general speakers list. According to the list, Mexico was the first country to speak about the harmful drugs in the world. Mexico being the country that leads in the highest drug addicts from around the globe. The delegate of Mexico put forth its stand by stating the effects of harmful drugs that are affecting the human life in Mexico as whole of a country. Showing up its support to what Mexico spoke, USA, UAE, Iran and Brazil pulled the cards about the policies their country holds on drug consumption. Hungary came up with a sensitive point about the infections and diseases caused due to such harmful drugs. In the stand supportive to this, Spain, Canada and Turkey revealed about the cent population that has been already affected reducing its literacy as well as economic rate.

Meanwhile, when many moderated caucus were raised, one that drew most attention was about the illegal flow of drugs from and around the world. The discussion drenched after, when the chair made some serious questions to the countries claiming about various drug policies adopted. USA, Brazil, Canada and Hungary motioned their antidrug policies in the house, while Mexico resembled its content by asking the house for help in order to reduce the spread of drugs not only in its country but through the world. The motion

about 'ZERO HIV' made some greater appeal to the chair. Canada sought for help as it leads the globe by having 56%-74% HIV infected population. An unmoderated caucus was passed by the chair in which, the delegates were asked to prepare the working papers for the resolution.

Sr.No. Name

Year COUNTRY

Decision:

After scrutinizing the problems, facts and the solutions to them, the chair passed a resolution which included: 1. Legalization of drugs in special cases and specific amount, 2. Antidrug policies to be established in every country, 3. Awareness programs and limitations on every harmful drug that reaches out to the population.

Students reflection:

In the midst of a serious discussion, the students were seen developing a concern about the sensitivity of the drug circulation. The importance to have a healthy world was being reflected from every point that the students made. Each one of them agreed with the resolution that passed and seemed quite amazed with the working of the chair and the house. In the end, everyone possessed positive vibes about the discussion.



Participants

| | | | |
|----|-----------------------------|-----------|---------------------|
| 1 | <i>Nitish galat</i> | <i>FE</i> | <i>PERU</i> |
| 2 | <i>Shantanu</i> | <i>FE</i> | <i>GERMANY</i> |
| 3 | <i>Shreyas sangar</i> | <i>FE</i> | <i>PAKISTAN</i> |
| 4 | <i>Ameya Mhaske</i> | <i>FE</i> | <i>KAZAKHISTAN</i> |
| 5 | <i>Shravan Shetty</i> | <i>FE</i> | <i>BELGIUM</i> |
| 6 | <i>Gamini Ladke</i> | <i>FE</i> | <i>LIBYA</i> |
| 7 | <i>Nivedita Todkar</i> | <i>TE</i> | <i>CANADA</i> |
| 8 | <i>Rishabh Chadha</i> | <i>BE</i> | <i>BANGLADESH</i> |
| 9 | <i>Bhavesb Ingale</i> | <i>TE</i> | <i>SWEDEN</i> |
| 10 | <i>Sourabh Chinchane</i> | <i>FE</i> | <i>NETHERLANDS</i> |
| 11 | <i>Aniruddh Gurram</i> | <i>TE</i> | <i>CHINA</i> |
| 12 | <i>Anuja Hiwale</i> | <i>FE</i> | <i>RUSSIA</i> |
| 13 | <i>Mayuraysh Tilekar</i> | <i>BE</i> | <i>AUSTRALIA</i> |
| 14 | <i>Manohar Kulat</i> | <i>SE</i> | <i>JAPAN</i> |
| 15 | <i>Radhika Bhoj</i> | <i>FE</i> | <i>UK</i> |
| 16 | <i>Tushar Dolas</i> | <i>TE</i> | <i>MALAYSIA</i> |
| 17 | <i>Yash Garje</i> | <i>BE</i> | <i>SYRIA</i> |
| 18 | <i>Prasad Nangre</i> | <i>SE</i> | <i>TURKEY</i> |
| 19 | <i>Manavendra Mehendale</i> | <i>TE</i> | <i>QUWAIT</i> |
| 20 | <i>Ankita patil</i> | <i>FE</i> | <i>USA</i> |
| 21 | <i>Swaroop Chavan</i> | <i>TE</i> | <i>FRANCE</i> |
| 22 | <i>Darshana Pande</i> | <i>FE</i> | <i>SAUDI ARABIA</i> |
| 23 | <i>Apurva Datkhile</i> | <i>SE</i> | <i>ITALY</i> |
| 24 | <i>Yugandhara Jadhav</i> | <i>SE</i> | <i>CHINA</i> |
| 25 | <i>Pratik Dhande</i> | <i>FE</i> | <i>AFGHANISTAN</i> |
| 26 | <i>Mustafa alshamaa</i> | <i>SE</i> | <i>YEMEN</i> |
| 27 | <i>Hamza saif</i> | <i>BE</i> | <i>IRAQ</i> |
| 28 | <i>Siddhi Sachin Katta</i> | <i>SE</i> | <i>INDONESIA</i> |
| 29 | <i>Harshal bhairavkar</i> | <i>TE</i> | <i>UKRAINE</i> |

Committee:-UNCTC

Committee:-UNHRC

| <i>Sr.No.</i> | <i>Name</i> | <i>Year</i> | <i>COUNTRY</i> |
|---------------|-----------------------|-------------|----------------|
| <i>1</i> | <i>Rohan Bhandari</i> | <i>FE</i> | <i>NIGERIA</i> |
| <i>2</i> | <i>Sakshi Khode</i> | <i>FE</i> | <i>CUBA</i> |
| <i>3</i> | <i>Ajinkya Punjal</i> | <i>FE</i> | <i>GERMANY</i> |

| | | | |
|----|----------------------------|-----------|---------------------|
| 4 | <i>Yogesh Choudhary</i> | <i>SE</i> | <i>SPAIN</i> |
| 5 | <i>Aaditya</i> | <i>FE</i> | <i>BELGIUM</i> |
| 6 | <i>Jahanvi Singh</i> | <i>FE</i> | <i>USA</i> |
| 7 | <i>Omkar Kadam</i> | <i>FE</i> | <i>MEXICO</i> |
| 8 | <i>Sanika Shriram Gham</i> | <i>BE</i> | <i>EGYPT</i> |
| 9 | <i>Chaitrali Londhe</i> | <i>TE</i> | <i>JAPAN</i> |
| 10 | <i>Achyut Ratkanthiwar</i> | <i>TE</i> | <i>CHINA</i> |
| 11 | <i>Sayli Kamthe</i> | <i>TE</i> | <i>UK</i> |
| 12 | <i>Priyanka Birajdar</i> | <i>TE</i> | <i>UKRAINE</i> |
| 13 | <i>Vaibhavi Deo</i> | <i>TE</i> | <i>UAE</i> |
| 14 | <i>Ankita Yerudkar</i> | <i>BE</i> | <i>AFGHANISTAN</i> |
| 15 | <i>Parjanya Deshmukh</i> | <i>FE</i> | <i>KENYA</i> |
| 16 | <i>Avni Nayak</i> | <i>BE</i> | <i>RUSSIA</i> |
| 17 | <i>Laxmi Patil</i> | <i>FE</i> | <i>SLOVAKIA</i> |
| 18 | <i>Aarj Jain</i> | <i>TE</i> | <i>SOUTH AFRICA</i> |
| 19 | <i>Divyanash Khare</i> | <i>BE</i> | <i>PERU</i> |
| 20 | <i>Mrunmai Vetal</i> | <i>SE</i> | <i>SAUDI ARABIA</i> |
| 21 | <i>Sakshi Chordia</i> | <i>FE</i> | <i>BRAZIL</i> |
| 22 | <i>Rohita Patil</i> | <i>FE</i> | <i>SWITZERLAND</i> |
| 23 | <i>pranav burli</i> | <i>TE</i> | <i>HUNGARY</i> |
| 24 | <i>Devesh Sawant</i> | <i>BE</i> | <i>IRAQ</i> |
| 25 | <i>Shubham shetiya</i> | <i>TE</i> | <i>QATAR</i> |
| 26 | <i>Yogesh Patil</i> | <i>SE</i> | <i>FRANCE</i> |
| 27 | <i>Abhishek Nirgun</i> | <i>BE</i> | <i>NEPAL</i> |
| 28 | <i>Samta Ingle</i> | <i>FE</i> | <i>PAKISTAN</i> |
| 29 | <i>sanskar kumar singh</i> | <i>TE</i> | <i>AUSTRALIA</i> |
| 30 | <i>Mrunal Amle</i> | <i>SE</i> | <i>VENEZUELA</i> |

Committee:-UNGA

| <i>Sr.No.</i> | <i>Name</i> | <i>Year</i> | <i>COUNTRY</i> |
|---------------|------------------------------|-------------|----------------|
| 1 | Pranav kardale | FE | EGYPT |
| 2 | Jay Gandhi | FE | BELGIUM |
| 3 | Dhiraj bhurewar | FE | BRAZIL |
| 4 | Aadesh Bakliwal | FE | INDIA |
| 5 | Vinay Bang | TE | AUSTRALIA |
| 6 | Abdul kadir malpurwala | FE | AFGHANISTAN |
| 7 | Anurag Saihari Rachamalla | SE | MALYSIA |
| 8 | Omkar Jagtap | TE | FRANCE |
| 9 | Onkar Maindalkar | FE | COLUMBIA |
| 10 | Yatharth Maurya | SE | GERMANY |
| 11 | Shubham Chivate | SE | PAKISTAN |
| 12 | Swagata Shinde | SE | USA |
| 13 | Mohit Ahuja | FE | NEW ZEALAND |
| 14 | Manish Avare | TE | HUNGARY |
| 15 | Pooja dheknane | TE | YEMAN |
| 16 | Alifiya shaikh | TE | CHINA |
| 17 | Roma R. Mahandale | BE | ITALY |
| 18 | Sushant Joshi | BE | BANGLADESH |
| 19 | shreyas botke | TE | THAILAND |
| 20 | shraddha mohite | TE | SAUDI ARABIA |

| | | | |
|----|----------------------------|-----------|---------------------|
| 21 | <i>Madhu Pimprikar</i> | <i>FE</i> | <i>IRAN</i> |
| 22 | <i>Amey Nandgaonkar</i> | <i>SE</i> | <i>SOUTH AFRICA</i> |
| 23 | <i>Amogh Patil</i> | <i>TE</i> | <i>AUSTRIA</i> |
| 24 | <i>Prajakta Pikale</i> | <i>FE</i> | <i>ARGENTINA</i> |
| 25 | <i>Shah Ali Raza Zaidi</i> | <i>TE</i> | <i>QUATAR</i> |
| 26 | <i>Neha Chaure</i> | <i>SE</i> | <i>UK</i> |
| 27 | <i>Rhea John</i> | <i>TE</i> | <i>NEPAL</i> |
| 28 | <i>Shubham Jha</i> | <i>TE</i> | <i>JAPAN</i> |
| 29 | <i>Onkar Kumbhar</i> | <i>SE</i> | <i>SINGAPORE</i> |
| 30 | <i>Samarth Patil</i> | <i>FE</i> | <i>BHUTAN</i> |
| 31 | <i>Makrand S Bhujbal</i> | <i>TE</i> | <i>CANADA</i> |
| 32 | <i>Dishant Pawar</i> | <i>SE</i> | <i>GREECE</i> |
| 33 | <i>Aastha Kansal</i> | <i>TE</i> | <i>RUSSIA</i> |

Committee:-UNCND

| <i>Sr.No.</i> | <i>Name</i> | <i>Year</i> | <i>country</i> |
|---------------|----------------------------|-------------|------------------|
| 1 | <i>Yash Kolhe</i> | <i>FE</i> | <i>IRAQ</i> |
| 2 | <i>Kevin</i> | <i>TE</i> | <i>GERMANY</i> |
| 3 | <i>Aakanksha Tashildar</i> | <i>SE</i> | <i>HUNGARY</i> |
| 4 | <i>Rutika kadu</i> | <i>FE</i> | <i>AUSTRALIA</i> |
| 5 | <i>Sayali Bhat</i> | <i>TE</i> | <i>SPAIN</i> |
| 6 | <i>Arsalan Ahmed</i> | <i>BE</i> | <i>CANADA</i> |
| 7 | <i>Abhishek Kulkarni</i> | <i>FE</i> | <i>RUSSIA</i> |
| 8 | <i>Devendra Vinod Aher</i> | <i>BE</i> | <i>ITALY</i> |

| | | | |
|----|----------------------------|-----------|---------------------|
| 9 | <i>Shubham sasane</i> | <i>FE</i> | <i>FRANCE</i> |
| 10 | <i>Shivani Mohod</i> | <i>BE</i> | <i>BELGIUM</i> |
| 11 | <i>Shivani Sahane</i> | <i>SE</i> | <i>IRAN</i> |
| 12 | <i>Tahani Telha</i> | <i>FE</i> | <i>UAE</i> |
| 13 | <i>Tanmay Desai</i> | <i>FE</i> | <i>CHINA</i> |
| 14 | <i>Manav Nibjiya</i> | <i>FE</i> | <i>USA</i> |
| 15 | <i>Pruthviraj Deshmukh</i> | <i>FE</i> | <i>AFGHANISTAN</i> |
| 16 | <i>Ashutosh</i> | <i>FE</i> | <i>JAPAN</i> |
| 17 | <i>Manthan agrawal</i> | <i>FE</i> | <i>ARGENTINA</i> |
| 18 | <i>Harjyot Singh Sethi</i> | <i>FE</i> | <i>UK</i> |
| 19 | <i>Neeraj Mangrule</i> | <i>TE</i> | <i>BRAZIL</i> |
| 20 | <i>Vishakha</i> | <i>TE</i> | <i>MEXICO</i> |
| 21 | <i>Vaishnavi Patil</i> | <i>SE</i> | <i>INDIA</i> |
| 22 | <i>Omkar Kulkarni</i> | <i>FE</i> | <i>TURKEY</i> |
| 23 | <i>Pooja Durkar</i> | <i>TE</i> | <i>MALAYSIA</i> |
| 24 | <i>Suraj Borate</i> | <i>FE</i> | <i>SOUTH AFRICA</i> |
| 25 | <i>Daideep Bothara</i> | <i>TE</i> | <i>PERU</i> |
| 26 | <i>Ankita Sanke</i> | <i>TE</i> | <i>THAILAND</i> |
| 27 | <i>Aditya Patil</i> | <i>TE</i> | <i>NIGERIA</i> |
| 28 | <i>Nishant Jadhav</i> | <i>SE</i> | <i>QUWAIT</i> |
| 29 | <i>Nikhil Butada</i> | <i>TE</i> | <i>BRAZIL</i> |
| 30 | <i>Apurva Bhosale</i> | <i>TE</i> | <i>SLOVAKIA</i> |
| 31 | <i>Ketan Lonkar</i> | <i>TE</i> | <i>PAKISTAN</i> |

Conclusion Ceremony

At the end of this wonderful day, everyone gathered in the seminar hall as per agenda of the event. The chairpersons were surprised to have witnessed such enthusiasm, excellent critical thinking capabilities, and ample research from the delegates MUNing for the very first time. Every heart was racing and skipped a beat. Because it was the moment when the best delegates (finalists) from the four committees were to be announced. Chairpersons announced the names of the four best delegates and the four best resolutions that were drafted. It was accompanied by a just clarification as well. They were awarded with trophies and certificates.

It was tough for the chairpersons to come to a conclusion that who would be the final winner, so they came up with a brilliant idea. They assigned the four best delegates four personalities who play a crucial role in the world politics today.

1. American President – Donald Trump.
2. North Korean Dictator – Kim Jong-un.
3. Russian President – Vladimir Putin.
4. Chinese Prime Minister – Xi Jinping.

And asked them to depict these characters with wit and humor given the situation of South China Sea dispute. The speeches of the finalists were very witty and the direct allegations were humorous yet they effectively conveyed the level of enmity between these powers which could threaten our peace in the near future. After a fair evaluation on all aspects the final result was declared. The winner was presented with the MUN'18 shining Trophy by the dignitaries for his exceptional performance. All the participants were given the certificates.

Best Delegate From Each Committee:



*MR. Anurag Rachamalla
(UNGA Committee)*

Country :- Malaysia



*Mr. Arsalan Ahmed
(UNCND Committee)*

Country :- Canada



*Mr. Yogesh Patil
(UNHRC Committee)*

Country :- Hungary



*Mr. Rishabh Chadha
(UNCTC Committee)*

Country :- Bangladesh

Best Resolution From Each Committee:



Mr. Shushant Joshi
(UNGA Committee)

Country :- Bangladesh



Ms. Tahani Telha
(UNCND Committee)

Country :- UAE



Mr. Divyansh Khare
(UNHRC Committee)

Country :-Peru



Mr. Shantanu
(UNCTC Committee)

Country :-Germany

Over All Best Delegate :-

Mr. Arsalan Ahmed was selected as the best delegate. He was presented with the rolling trophy. Thus, Department of Computer Science got the trophy of the 2nd edition of VIIT-MUN.



Mr. Arsalan Ahmed

Organizers were praised for organizing everything wonderfully by the guests. A positive feedback was received from participants. They expressed MUN was all about developing skills (technical qualities) and soft skills (interaction with others) and merge the two of them.

MUN is a platform where you actually need to “Think”.

MUN'18 COMMITTEE

Convenors:-



Mr. Mahesh Kamthe
General Secretary



MS. Sayali Yesane
Convenor MUN'18



Mr. Rohit Chitodkar
Convenor MUN'18



MR. Shantanu Kale
Finance Head

Working Committee:-

| <i>Sr.No</i> | <i>Name</i> | <i>Post</i> |
|--------------|---------------------------|--------------------------------------|
| 1 | <i>Mañesh Kamthe</i> | <i>General Secretary</i> |
| 2 | <i>Tejas Jaju</i> | <i>Techno-Cultural In-Charge</i> |
| 3 | <i>Sayali Yesane</i> | <i>Convener</i> |
| 4 | <i>Rohit Chitodkar</i> | <i>Convener</i> |
| 5 | <i>Shantanu Kale</i> | <i>Director of Finance</i> |
| 6 | <i>Saurabh Deshmukh</i> | <i>Event head</i> |
| 7 | <i>Vedant Jagtap</i> | <i>Event head</i> |
| 8 | <i>Suyog Gore</i> | <i>Event head</i> |
| 9 | <i>Omkar Jagtap</i> | <i>Director of Documentation</i> |
| 10 | <i>Daideep Bothara</i> | <i>Director of Logistics</i> |
| 11 | <i>Shreyash Mithari</i> | <i>Director of Photography</i> |
| 12 | <i>Shalaka Dasari</i> | <i>Director of Anchoring</i> |
| 13 | <i>Yatharth Maurya</i> | <i>Assistant Anchoring</i> |
| 14 | <i>Shubham Indulkar</i> | <i>Committee In-charge(UNCTC)</i> |
| 15 | <i>Pushkar Patil</i> | <i>Assistant Committee In-charge</i> |
| 16 | <i>Saee Patil</i> | <i>Rapporteur</i> |
| 17 | <i>Shivam Kulkarni</i> | <i>Committee In-charge(UNHRC)</i> |
| 18 | <i>Saurabh Vasaikar</i> | <i>Associate Committee In-charge</i> |
| 19 | <i>Ashutosh Gothwal</i> | <i>Rapporteur</i> |
| 20 | <i>Pratik Thorat</i> | <i>Committee In-charge(UNCND)</i> |
| 21 | <i>Sinthiya Sadavarte</i> | <i>Assistant Committee In-charge</i> |
| 22 | <i>Prajakta Arjun</i> | <i>Rapporteur</i> |
| 23 | <i>Manish Shetty</i> | <i>Committee In-charge(UNGA)</i> |
| 24 | <i>Samruddhi Kedare</i> | <i>Assistant Committee In-charge</i> |
| 25 | <i>Nishtha Shidolkar</i> | <i>Rapporteur</i> |
| 26 | <i>Rajeshri Wadekar</i> | <i>Director of Creative</i> |

| | | |
|----|------------------------------|-----------------------------|
| 27 | <i>Vinayak Kurane</i> | <i>Director of Creative</i> |
| 28 | <i>Sanket Salunke</i> | <i>Creative team</i> |
| 29 | <i>Premraj Koli</i> | <i>Creative team</i> |
| 30 | <i>Sammed Tulandage</i> | <i>Creative team</i> |
| 31 | <i>Shoaib Pathan</i> | <i>Creative team</i> |
| 32 | <i>Suraj Yewale</i> | <i>Creative team</i> |
| 33 | <i>Mrunal Deshpande</i> | <i>Creative team</i> |
| 34 | <i>Sagar Dahiphale</i> | <i>Special Force</i> |
| 35 | <i>Sandip Lanke</i> | <i>Special Force</i> |
| 36 | <i>Dishant Pawar</i> | <i>Special Force</i> |
| 37 | <i>Nishant Jadhav</i> | <i>Refreshment Team</i> |
| 38 | <i>Vinayak Dhanawade</i> | <i>Refreshment Team</i> |
| 39 | <i>Prathmesh Rathí</i> | <i>Refreshment Team</i> |
| 40 | <i>Abhijit Pawar</i> | <i>Registration Team</i> |
| 41 | <i>Rutuja Shinde</i> | <i>Registration Team</i> |
| 42 | <i>Swagata Shinde</i> | <i>Registration Team</i> |

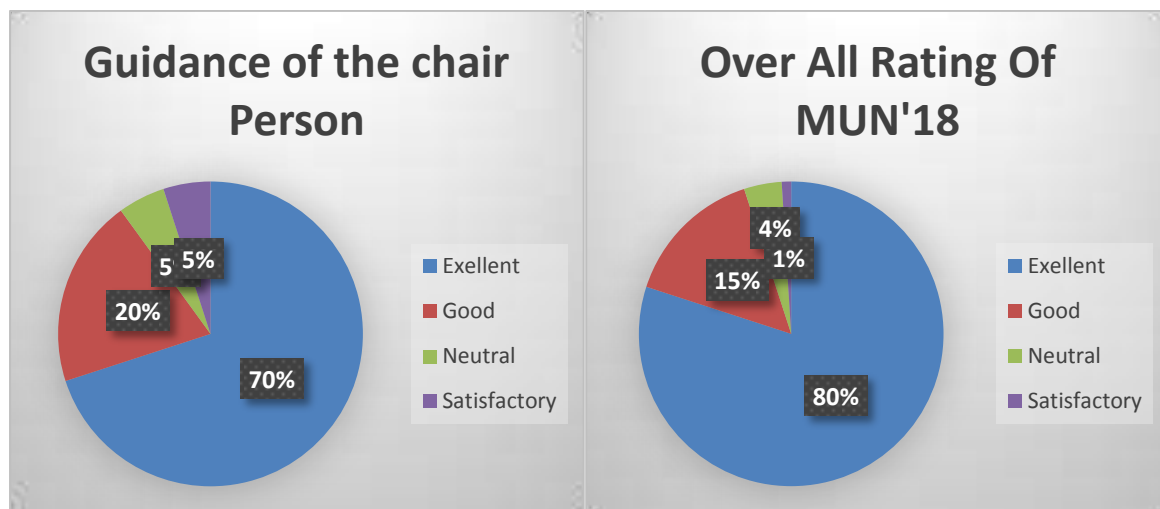
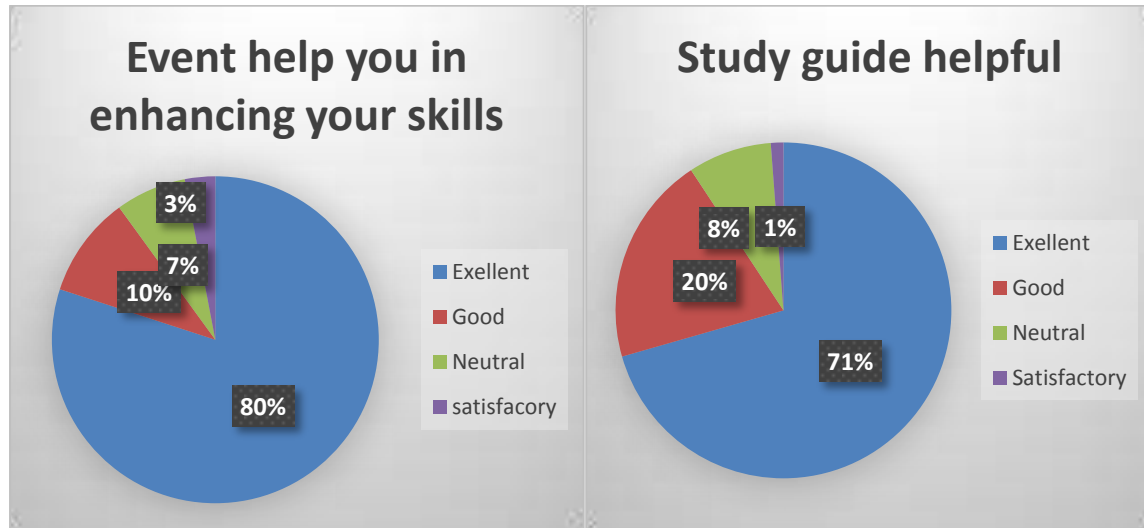


PHOTOGALLERY



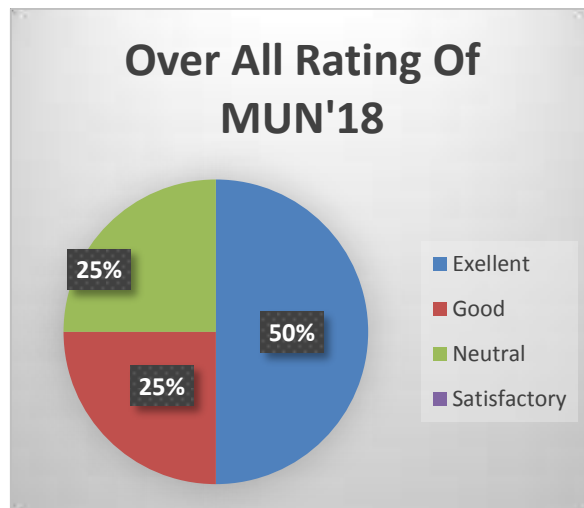
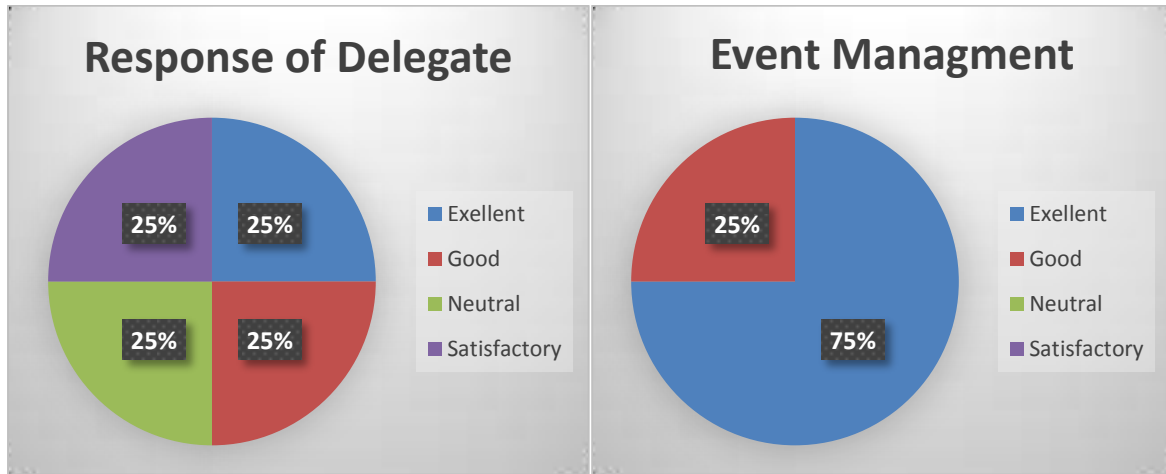
FEEDBACK ANALYSIS

(By Delegates)



FEEDBACK ANALYSIS

(By Chairperson)



Prepared by: -

1. Ashutosh Gothwal (TE)

2. *Omkar Jagtap (TE)*

3. *Nishtha Shedolkar (SE)*

4. *Saee Patil (SE)*



ABSTRACT

PLOYMER FOAMING
[Course title]



Polymer Foaming Simulation Solutions

Webinar was arranged by Mechanical Students Association for students on the topic “Polymer Foaming Simulation” on 5th October 2017. The Webinar many focused on the recent technologies and trends in Polymer Simulation. A numerical simulation for polymeric foaming extrusion processes was conducted. Combining classical nucleation rate and bubble growth models with a non-Newtonian fluid model of a flow, a simultaneous bubble nucleation and growth behavior in a flow field was simulated. Simulation results were compared with the experimental data obtained by visual observations at a foaming extruder, where a polypropylene resin was physically foamed. The effects of physical parameters in foaming model on bubble size and number density calculation were intensively examined by sensitivity analysis.

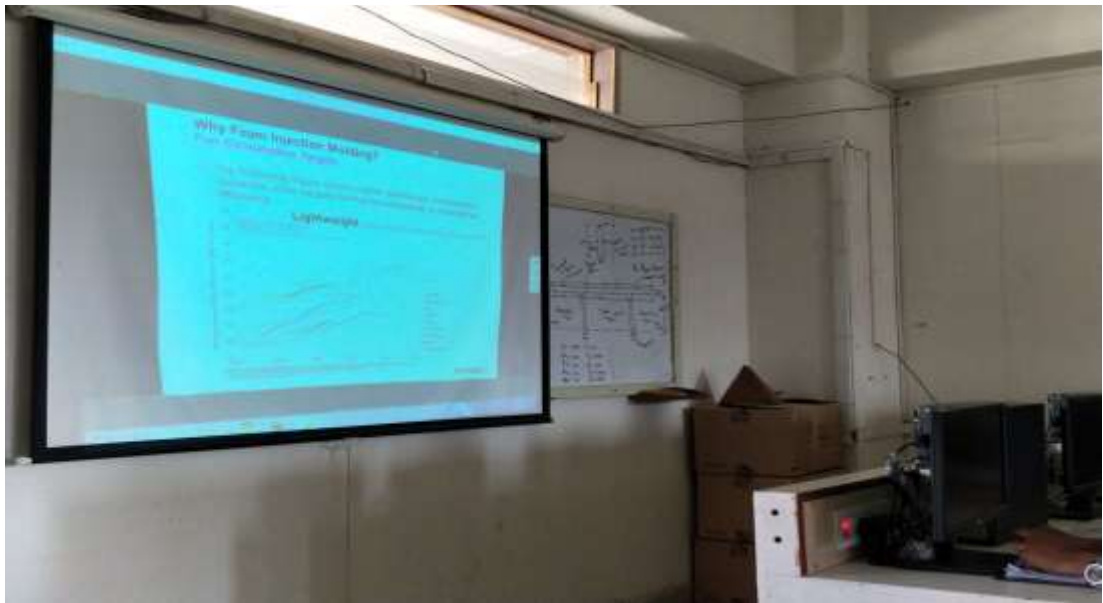
The method of foaming polymer resins can be roughly divided into two categories; physical and chemical. In physical foaming processes, dissolving a gas into polymer as a physical blowing agent at a specified temperature and pressure creates foams: Once the dissolution is completed, either the pressure is reduced or the temperature is increased so as to liberate the dissolved gas. In chemical foaming processes, foams are created by decomposing a chemical blowing agent (CBA) that has been incorporated into a polymer. At a certain temperature and pressure, a chemical reaction releases the foaming gas, such as nitrogen and carbon dioxide. In either method, the nucleation and subsequent bubble growth creates a cellular structure in the polymer. Basic understanding of the cause-and-effect relationships among polymer properties,



processing condition and the cellular structure is important to produce high quality foamed products, like a micro-cellular foams.

The foaming simulation has attracted a great deal of attention of many researchers. They wanted to understand the cause-and-effect relationships, and to find the optimal foaming conditions as well as optimal polymer properties for realizing the desired cellular structure. One of the pioneering works on modeling was done in 1971 by Street et al. [1]. They developed a framework for modeling the growth of a single gas bubble in a polymer. The concept of a finite influence volume around each bubble was introduced in their paper. After this work, numerous numbers of extensions have been published. Recently, extending the influence volume approach, Shafi et al. developed a model for free expansion polymer foaming, which includes simultaneous nucleation and bubble growth.

However, most of the polymeric foaming models that have been proposed were for batch foaming processes not for continuous foaming processes such as extrusion foaming and injection foaming. In continuous foaming, the bubble nucleation and growth occur in a flow field. The major difficulty in simulating continuous foaming processes is the fact that there are still many uncertainties in nucleation as well as bubble growth mechanisms. For example, several nucleation mechanisms have been proposed, such as a flow-induced nucleation, shear-induced nucleation, nucleation by thermal fluctuation and nucleation by cavitation.





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ORGANISING TECHNICAL SKILL DEVELOPMENT PROGRAM IN ASSOCIATION WITH
BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

RAC WORKSHOP

Refrigeration is a process of removing heat from a low-temperature reservoir and transferring it to a high-temperature reservoir. The work of heat transfer is traditionally driven by mechanical means, but can also be driven by heat, magnetism, electricity, laser, or other means. Refrigeration has many applications, including, but not limited to: household refrigerators, industrial freezers, cryogenics, and air conditioning.

Cold storage is just that: a way of storing things that keeps them cold. Most chemical reactions occur more slowly in the cold, so if the thing that you wish to store is subject to chemical decomposition, it will last longer when it's cold.

Cold storage can refer to anything from a refrigerator to being kept submerged in liquid nitrogen. The colder it is, the longer it will last, though you also have to consider that the cooling process can do damage of its own: lettuce doesn't do well in the freezer because of the mechanical action of ice on the cells.

"Cold storage" could be something as small as a walk-in cooler or freezer (defined by CA as 2,000 sq.ft or less) or a 200,000 sq.ft warehouse. It could also be mobile such as a refer trailer (refrigerated semi-trailer) or cargo container to go on ships.

"Cold storage" usually refers to freezing temperatures or below but can also apply to cooler temperatures (~40F to 45F)

WORKSHOP TIMING:

On 16th of March 2018 in the afternoon slot we allot the timing for workshop at 2.00 pm . We started the workshop with welcome and introduction of Mr. Mayur Ghule senior engineer.

Workshop basically consisted of the demonstration about cold storages. He taught students about the designing techniques of cold storages, various types of insulation techniques as well as the analytical methods of designing the cold storage.

Workshop ended with thank you speech and Dr.Kale sir felicitated Mayur Ghule sir







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MECHMERIZE'18

REGISTRATION SHEET

EVENT: RAC WORKSHOP

DATE: 16/ 03/2018

| SR.NO | NAME | YEAR | MOBILE |
|-------|-------------------|------|------------|
| 1. | SHREYAS MITHARI | TE A | 9527978597 |
| 2. | SUSHANT LONDHE | TE A | 7757942404 |
| 3. | SAGAR DAHIPHALE | TE A | 9960853022 |
| 4. | SHRIKANT KANADE | TE B | 9028398752 |
| 5. | ASHUTOSH GOTHWAI | TE A | 8483895189 |
| 6. | SHALAKA DESARI | TE A | 9284736861 |
| 7. | MEGHANA JOSHI | TE B | 7743871051 |
| 8. | YOGESH GAIKWAD | SE B | 8605807201 |
| 9. | TEJASHREE GOLE | SE B | 9673240692 |
| 10. | ANKITA MULEY | SE B | 8087724585 |
| 11. | ANISH YADAV | SE B | 7875620155 |
| 12. | SIDDHANT KOLKAR | SEB | 9890279670 |
| 13. | AJAY MALI | SE B | 9890279670 |
| 14. | DHAIRYASHEEL KARE | SE B | 9890279670 |

| | | | |
|-----|--------------------|------|------------|
| 15. | SHUBHAM CHAPPARKAR | TE A | 9822919880 |
| 16. | CHAITANYA RANE | SE A | 9767343650 |
| 17. | ARUN DHOKATE | SE B | 9420735034 |
| 18. | ALIM SHAIKH | TE A | 9837876833 |
| 19. | VIKAS AADE | TE B | 9764506231 |
| 20. | BHARAT PUNJAL | TE B | 9764506231 |
| 21. | HARSHADA KOLHE | TE A | 9271826946 |



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| | | | |
|-----|---------------------|------|------------|
| 22. | JAYESH BAHADALE | TE B | 9923807087 |
| 23. | SURAJ JAJAN | TE B | 8149957554 |
| 24. | SAAHIL SHINDE | TE B | 8421779461 |
| 25. | SAURABH BOTHIKAR | TE B | 8087868319 |
| 26. | APARNA SARADE | SE B | 9146656419 |
| 27. | NITIN YELMANTE | TE B | 8600749877 |
| 28. | RITA GANGURDAE | SE A | 8378863121 |
| 29. | PRADUMN PANDEY | SE B | 7721907858 |
| 30. | SAMBODHI DAHIWALE | SE B | 8308923500 |
| 31. | HARSH KOURVA | SE B | 7083889472 |
| 32. | SOURABH BHOSALE | SE B | 9822525530 |
| 33. | PRAVIN JADHAV | SE B | 9923020928 |
| 34. | SAVITA VETAL | SE B | 7387512535 |
| 35. | SHUBHAM CHAUDHARY | SE B | 7248911650 |
| 36. | KIRAN KUSGAL | TE B | 8149957554 |
| 37. | PRATHAMESH NEWADKAR | TE B | 8149957554 |
| 38. | NILESH THORAT | TE B | 9284743510 |
| 39. | SINTIA SADAWARTE | SE A | 9527624347 |
| 40. | NAYAN MANE | TE B | 8237146294 |

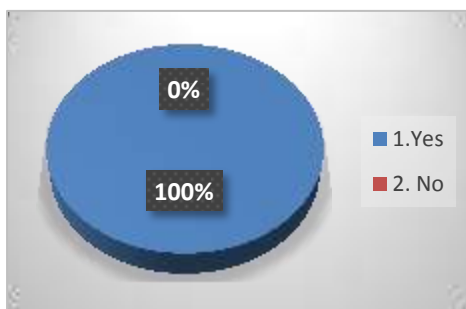
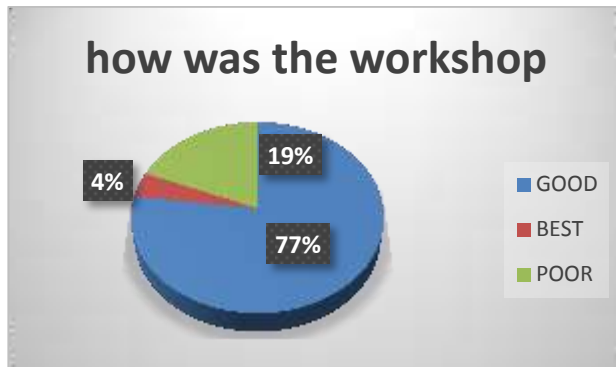
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| 41. | CHINMAY BUTEE | SE B | 7588284227 |
|-----|---------------|------|------------|



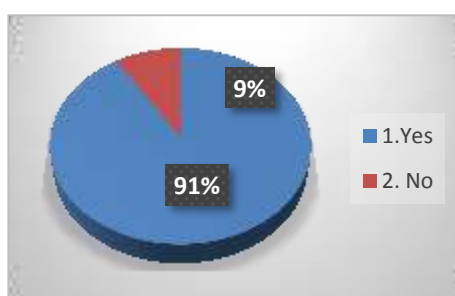
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| | | | |
|-----|--------------------|------|------------|
| 42. | SAURABH MURMURE | TE B | 9850014162 |
| 43. | GURINDER SINGH | TE B | 8879098418 |
| 44. | KAUSTUBH KAD | SE B | 8149828277 |
| 45. | PRASAD NAGARE | SE B | 7350749377 |
| 46. | SHREYAS DASARI | SE B | 8237802355 |
| 47. | MAYUR SARTAPE | TE B | 7757999933 |
| 48. | KAUSHAL MANDVEKAR | SE A | 9923807312 |
| 49. | AKSHAY MAGGO | SE A | 8888654527 |
| 50. | PRATHAMESH SURVASE | SE B | 9405423791 |
| 51. | AKASH KIRPAN | SE B | 7083660780 |
| 52. | LOHAKARE UMESH | SE B | 7798062016 |
| 53. | VAIDEHI BODAS | TE B | 7447722923 |
| 54. | ABHIJEET PAEAR | SE A | 7218847053 |
| 55. | TEJAS PANDHARPATTE | SE B | 9096330482 |
| 56. | SWAPNILGAIKWAD | SE B | 9158491372 |
| 57. | ANKITA SANHE | TE A | 9011941460 |
| 58. | SUDHIR KHAMGAL | SE B | 8888490152 |
| 59. | NITIN FUNDE | TE B | 9970762254 |

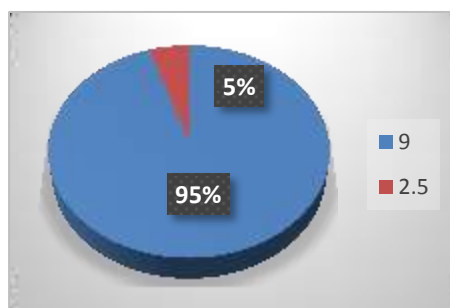
Feedback analysis:



Q. Was the Workshop well organised?



Q. Was this Workshop helpful for your academics?



Q. How will you rate this Workshop on the count of 1-10?



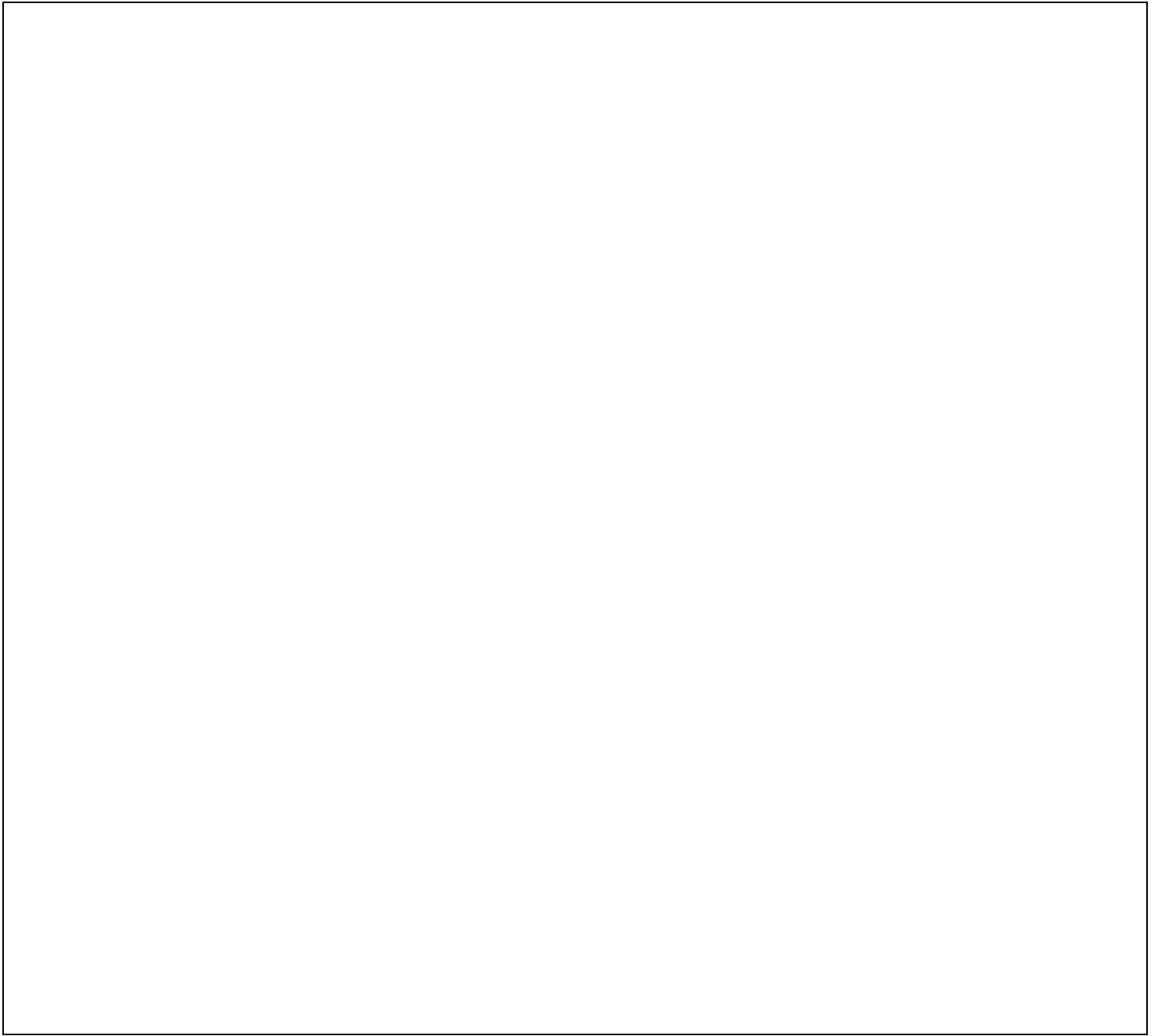
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SE(B) MOCK ONLINE RESULT

| Roll No. | Name | MS | MP I | SOM | M III | Thermo |
|----------|----------------------|-------|--------|--------|--------|---------|
| 252001 | Atharva Sohoni | - | - | - | - | 12.0/50 |
| 252002 | Harsh Kaurava | - | 18/50 | - | - | - |
| 252003 | Shriniwas Kadam | - | 13/50 | - | - | - |
| 252004 | Mrutyunjay Bandawane | - | - | - | - | - |
| 252005 | Pradumn Pandey | - | 19/50 | 30/50 | - | 22/50 |
| 252006 | Prathamesh Rathi | - | - | - | - | - |
| 252007 | Rahul Thakur | - | - | - | - | - |
| 252008 | Sagar Jadhav | - | - | - | - | - |
| 252011 | Sourabh Mulik | - | - | - | - | - |
| 252013 | Sourabh Bhosale | - | 15/50 | 8.0/50 | - | 12.0/50 |
| 252014 | Chinmay Butee | - | 16/50 | 13/50 | - | - |
| 252015 | Shubham Chaudhari | 0/50 | 0/50 | 0/50 | - | 0/50 |
| 252016 | Shubham Chivate | - | 24/50 | 23/50 | - | - |
| 252017 | Sambodhi Dahiwal | - | 4.0/50 | - | - | - |
| 252018 | Shreyas Dasari | 26/50 | - | 20/50 | 20/50 | 10.0/50 |
| 252019 | Arun Dhokate | - | - | - | - | - |
| 252020 | Swapnil Gaikwad | - | - | - | - | - |
| 252021 | Kartik Gawali | - | - | - | - | - |
| 252022 | Tejashree Gole | - | 29/50 | - | - | - |
| 252023 | Dhaval Inamdar | - | - | - | - | - |
| 252024 | Shubham Ingole | - | 21/50 | - | - | - |
| 252025 | Ajinkya Jadhav | - | - | - | - | - |
| 252026 | Pravin Jadhav | - | - | - | - | - |
| 252027 | Rutuja Jadhav | - | - | - | - | - |
| 252028 | Kaustubh Kad | - | - | - | - | - |
| 252029 | Dhairyasheel Kare | - | - | 17/50 | 4.0/50 | - |
| 252030 | Apoorv Keskar | - | 28/50 | 23/50 | - | 31/50 |
| 252031 | Sudhir Khamgal | - | 28/50 | - | - | 26/50 |

| | | | | | | |
|--------|----------------------|-------|---------|--------|--------|--------|
| 252032 | Aakash Kirpan | - | - | - | - | - |
| 252033 | Shrenik Kole | - | - | - | - | - |
| 252034 | Siddhant Kolkar | - | - | - | - | - |
| 252035 | Shreyas Kulkarni | - | 14/50 | 19/50 | - | 23/50 |
| 252036 | Abhinay Mahajan | - | - | - | - | - |
| 252037 | Abhishek Mahajan | - | - | - | - | - |
| 252038 | Ajay Mali | - | - | - | - | - |
| 252039 | Ankita Mulay | - | - | - | - | - |
| 252040 | Prasad Nangre | - | 19/50 | - | - | - |
| 252041 | Hrishikesh Narnaware | 27/50 | 44/50 | - | - | 6.0/50 |
| 252042 | Pushkar Nyayadhish | - | - | - | - | - |
| 252043 | Tejas Pandharpotte | - | 34/50 | - | - | - |
| 252044 | Kaustubh Patankar | - | 15/50 | 1.0/50 | - | - |
| 252045 | Shubham Pathak | - | - | - | - | - |
| 252046 | Shubham Pawar | - | - | - | - | - |
| 252047 | Abhishek Phalke | - | - | - | - | - |
| 252048 | Saicharan Pothireddy | 36/50 | 48/50 | 31/50 | | 37/50 |
| 252050 | Nitesh Satpute | - | - | - | - | - |
| 252051 | Akshay Sawant | - | - | - | - | - |
| 252052 | Sara Shaikh | - | - | - | - | - |
| 252053 | Prathamesh Surwase | - | 32/50 | - | - | - |
| 252054 | Anish Yadav | - | 30/50 | - | - | - |
| 252055 | Yogesh Gaikwad | - | - | - | - | - |
| 252056 | Ajit Shinde | 37/50 | 50/50 | - | - | - |
| 252057 | Mrunal Deshpande | 47/50 | - | - | - | - |
| 252058 | Sammed Talandage | 47/50 | 46/50 | - | - | - |
| 252059 | Aparna Sarade | - | 29/50 | - | - | - |
| 252060 | Nishant Jadhav | 28/50 | 25/50 | 18/50 | - | 23/50 |
| 252061 | Shoaibkhan Pathan | 44/50 | - | 22/50 | - | 25/50 |
| 252062 | Suraj Yewale | 46/50 | 12.0/50 | - | 9.0/50 | 15/50 |
| 252063 | Nishtha Shedolkar | 30/50 | 48/50 | 38/50 | 19/50 | 30/50 |
| 252064 | Pushkar Patil | 24/50 | 29/50 | 31/50 | 25/50 | 22/50 |
| 252065 | Savita Vetral | - | - | - | - | - |
| 252066 | Mahesh Bhusnar | - | 46/50 | - | - | - |
| 252067 | Vaishnavi Kasab | 32/50 | 33/50 | 23/50 | 21/50 | 32/50 |
| 252068 | Rupesh Patil | 36/50 | 30/50 | 31/50 | 7.0/50 | - |
| 252069 | Naeem Mulani | 28/50 | 37/50 | - | - | 35/50 |
| 252070 | Rohit Garudkar | 32/50 | 50/50 | - | - | - |
| 252071 | Umesh Rohidas | - | - | - | - | - |
| 252072 | Ramesh Mengal | - | - | - | - | - |





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SE (A) MOCK ONLINE EXAM RESULT

| Roll No. | Name | MS | MP I | SOM | M III | Thermo |
|----------|---------------------|---------|-------|--------|-------|--------|
| 251002 | Abhishek Mahajan | - | - | - | - | - |
| 251003 | Aditya Rudraksha | - | - | - | - | - |
| 251004 | Chaitanya Athawle | - | - | - | - | - |
| 251005 | Chandrabhan Chawda | - | - | - | - | - |
| 251006 | Rahul Raina | - | - | - | - | - |
| 251007 | Shivam Malkar | - | - | 2.0/50 | - | - |
| 251008 | Shubham Agwan | - | - | - | - | - |
| 251010 | Nikhil Bankar | - | - | - | - | - |
| 251011 | Pranav Bhavsar | - | - | - | - | 23/50 |
| 251012 | Apurva Bhosale | - | - | - | - | - |
| 251013 | Arya Bhujun | 25/50 | - | - | - | 17/50 |
| 251014 | Chaitanya Chaudhar | 31/50 | 17/50 | 23/50 | - | - |
| 251015 | Yogesh Chhanwal | - | - | - | - | - |
| 251016 | Yogesh Choudhary | - | - | - | - | - |
| 251017 | Aditya Darkunde | - | 41/50 | - | - | - |
| 251019 | Yash Deshpande | 12.0/50 | - | - | - | 28/50 |
| 251020 | Rita Gangurde | - | - | 25/50 | - | 27/50 |
| 251021 | Shrikant Garikipati | - | - | - | - | 17/50 |
| 251022 | Agneya Gawhale | - | - | - | - | - |
| 251023 | Akash Jadhav | - | 30/50 | - | - | 22/50 |
| 251024 | Rahul Jadhav | 35/50 | 31/50 | 27/50 | 18/50 | 24/50 |
| 251025 | Siddhi Katta | - | - | - | - | - |
| 251026 | Shubham Khairnar | - | 29/50 | - | - | - |
| 251027 | Arbaaz Khan | - | 43/50 | - | - | - |
| 251028 | Manohar Kulat | - | - | - | - | - |
| 251029 | Abhishek Kulkarni | - | - | - | - | - |
| 251030 | Lima Jose Minin | 36/50 | 41/50 | - | 29/50 | 19/50 |
| 251031 | Dhaval Madiwale | - | - | - | - | - |
| 251032 | Manohar Kulat | - | - | - | - | - |
| 251033 | Kaushal Mandvekar | - | 33/50 | - | - | - |

| Roll No. | Name | MS | MP I | SOM | M III | Thermo |
|----------|----------------------|-------|-------|-------|---------|--------|
| 251035 | Abhishek Misal | - | - | - | - | - |
| 251036 | Mohammad Sayeeduz | - | - | - | - | - |
| 251037 | Prathamesh Nachankar | - | 38/50 | - | - | - |
| 251038 | Pratik Nikam | - | - | - | - | - |
| 251040 | Karan Oswal | 45/50 | 31/50 | - | - | - |
| 251041 | Lokesh Patil | - | - | - | - | - |
| 251042 | Preshit Patil | - | - | - | - | 24/50 |
| 251043 | Sai Patil | - | - | - | - | - |
| 251044 | Soham Patil | - | 41/50 | 25/50 | - | 26/50 |
| 251045 | Abhijeet Pawar | - | - | 15/50 | - | - |
| 251046 | Akash Pawar | - | - | - | - | - |
| 251047 | Dishant Pawar | - | - | - | - | - |
| 251048 | Ashutosh Pilane | - | - | - | - | - |
| 251049 | Chaitanya Rane | - | - | - | - | - |
| 251050 | Sintiya Sadawarte | - | - | - | - | - |
| 251051 | Shivani Sahane | 33/50 | 49/50 | 43/50 | - | - |
| 251053 | Poorva Satav | - | - | - | 14/50 | - |
| 251054 | Purvang Shah | - | - | - | - | - |
| 251055 | Salman Shaikh | - | - | - | - | - |
| 251056 | Saumya Shalgar | - | - | - | - | - |
| 251057 | Swagata Shinde | - | - | - | - | - |
| 251058 | Rushikesh Shirsath | - | 24/50 | 24/50 | 26/50 | 29/50 |
| 251059 | Shrinath Takekar | - | - | - | - | - |
| 251060 | Tejas Taradgaonkar | - | - | - | - | - |
| 251062 | Saurabh Vasaikar | 36/50 | 38/50 | - | - | - |
| 251063 | Abhinav Kale | - | 43/50 | - | - | - |
| 251064 | Aniket Pabale | - | - | - | - | - |
| 251065 | Ruturaj Chaudhari | - | - | - | - | - |
| 251066 | Pritish Katariya | - | - | - | - | - |
| 251067 | Samrudhi Kedari | 17/50 | 46/50 | 44/50 | - | - |
| 251068 | Premraj Koli | - | 24/50 | - | - | - |
| 251069 | Piraji Parase | - | - | - | - | - |
| 251070 | Aboli Dange | - | - | - | - | - |
| 251071 | Sachin Avhale | 18/50 | 27/50 | - | 10.0/50 | 17/50 |
| 251072 | Vinayak Dhanawade | - | 43/50 | 33/50 | - | - |
| 251073 | Nikhil Choudhary | 29/50 | 30/50 | 23/50 | 31/50 | 28/50 |
| 251074 | Rutuja Shinde | - | - | - | - | - |
| 251075 | Nilkanth Ramraje | 20/50 | 29/50 | - | 9.0/50 | - |
| 251076 | Manasi Khadake | - | - | - | - | - |
| 251077 | Jitendra Borase | 20/50 | 24/50 | - | - | 5.0/50 |
| 251078 | Pintu Das | 32/50 | 28/50 | 36/50 | 17/50 | 24/50 |



ABSTRACT

SMART CITIES INFRASTRUCTURE
[Course title]



SMART CITIES INFRASTRUCTURE

Webinar was arranged by Mechanical Students Association for students on the topic “Smart Infrastructure and Smart Cities” on 5 October 2017. The Webinar many focused on the recent technologies and trends in Smart Infrastructure in the metro cities.

Smart and Sustainable City embraces a wide spectrum of urban components that supports livability of its citizen. Depending upon the level of city development, its inherent contexts, willingness to change and reform, resources and aspirations of the city residents a Smart and Sustainable City can have a combination of the following :

- Relies on City wide and Area based development.
- Smart and sustainable public realm,
- Integrated infrastructure,
- Smart transportation,
- Smart physical safety and security,
- Smart health-care,
- Smart education,
- Smart knowledge shares and awareness,
- Sustainable buildings with smart gadgets and appliances,
- Sustainable and user monitored energy and water consumption,
- Sustainable, clean and green environment – with monitored Air Quality, solid and liquid waste management,
- User interfaced ‘smart’ solutions to make infrastructure and services better,
- Smarter transaction mostly digital based,
- Green economics,
- Renewable energy.



Key aspects of Voyants providing smart and sustainable city solutions:

- **Community Involvement:** Integration of smart infrastructure management systems combined with citizen participation & collaboration through multi-channels of media.
- **Information sharing Platforms:** Convergence of physical infrastructure with digital (ICT) infrastructures (IoT, USN). With real time information (via ICT infra), the city can gain an insight on the problem and take pro-active actions.
- **System integration:** Based on interdependencies of various issues across the urban components that supports livability of its citizen.
- **Innovative idea generation:** Purposeful collaboration with diversified stakeholders from varied background generates ideas that changes or enhances the business as usual systems.
- **Implementable way forward:** Provide way forward with physical visions, cost, financial analyses and implementation mechanism.

Smart Cities Features.

Some typical features of comprehensive development in Smart Cities are described below.

1. Promoting mixed land use in area based developments—planning for ‘unplanned areas’ containing a range of compatible activities and land uses close to one another in order to make land use more efficient. The States will enable some flexibility in land use and building bye-laws to adapt to change;
2. Housing and inclusiveness - expand housing opportunities for all;

3. Creating walkable localities –reduce congestion, air pollution and resource depletion, boost local economy, promote interactions and ensure security. The road network is created or refurbished not only



for vehicles and public transport, but also for pedestrians and cyclists, and necessary administrative services are offered within walking or cycling distance;

4. Preserving and developing open spaces - parks, playgrounds, and recreational spaces in order to enhance the quality of life of citizens, reduce the urban heat effects in Areas and generally promote eco-balance;
5. Promoting a variety of transport options - Transit Oriented Development (TOD), public transport and last mile para-transport connectivity;
6. Making governance citizen-friendly and cost effective - increasingly rely on online services to bring about accountability and transparency, especially using mobiles to reduce cost of services and providing services without having to go to municipal offices. Forming e-groups to listen to people and obtain feedback and use online monitoring of programs and activities with the aid of cyber tour of worksites;
7. Giving an identity to the city - based on its main economic activity, such as local cuisine, health, education, arts and craft, culture, sports goods, furniture, hosiery, textile, dairy, etc;
8. Applying Smart Solutions to infrastructure and services in area-based development in order to make them better. For example, making Areas less vulnerable to disasters, using fewer resources, and providing cheaper services.





[Date]

18

BSTARCT:

The sports week were held by mesa on 10th and 11th of February 2018. Some sports were held like cricket, chess, table tennis and carrom. It was held only for the mechanical students only. The chess,table tennise and carrom were held in the sports room and cricket were held on college ground.

RESULT OF SPORTS WEEK'18

| Sr.no: | Sports Name | Total no of participants | Winner name |
|--------|--------------|--------------------------|---|
| 1. | Cricket | 5(team) | a)BE-A |
| 2. | Carrom | 24 | a)Shubham Saundarkar(BE) b)Shubham Indulkar(TE) c)Sandip lanke (TE) |
| 3. | Table Tennis | 16 | a)Chandrabhan Chawda(SE) b)Aditya Gandhi (BE) c)Mrutunjay Bandawane(SE) |
| 4. | Chess | 18 | a)Allim Shekh(TE) b)Kaushal Mandevkar(SE) c)Suyog Gore(TE) |

teacher's day celebration

15TH SEPTEMBER 2017

5PM ONWARDS

MESA committee celebrated the Teachers' Day on 15th September 2017 Seminar Hall.



The Event was Organized and anchored by second and third year students. Students gave speeches and expressed their gratitude towards teachers.



The event continued with the unveiling of MESA committee 2017-2018. Ms. Sayali Yesane. (Ladies representative MESA-17) unveiled MESA committee.

The Teacher's day event was full of enthusiasm, joy and fun filled with beautiful songs, music & vibrant dances. Second year & Third year students performed dances and entertained the audience. Students sang melodious classical song dedicated to the students. The audience were thrilled by seeing their wonderful skill and talent. Prof. A.D Kale also showcased his talent by singing old melodious songs. Various funny games were arranged by the students for teachers. The program progressed with the games like "Hungry sticks" and "batoh batoh me" specially arranged for the teachers. All teachers thoroughly enjoyed the program. It was wonderful experience listening to the melodious old songs.







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BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18

TECHNO-HUNT

EVENT REPORT

The event Techno-hunt organized under the 'Mechmarize 18' was held on 17th March 2018 under the faculty in-charge Dr. A. R. Mache and Prof. M. N. Jagadale. The event was carried in three phases,

1. Treasure hunt
2. Cad designing
3. Lathe war.

Preparation

Firstly we contacted the faculty in-charge and told about the event format. Then we finalized the no. of registrations i.e. 9 groups. Later we made the list of all the required materials for the event and ordered them. Then we go for the preparation of the first level i.e. treasure hunt. We made a list of all the possible places where the clues can be hidden. Then we made the clues. Later for the 2nd phase we finalized the assembly designs and for the 3rd phase i.e. for lathe war we designed a part which the participants were going to manufacture on the lathe. Later then we packed the clues and the assembly parts in the envelopes which we were going to hide at the respective places. Later we made the all the decoration required for the event. All these preparation is made before the event. On 16th march the participants list is handed to the committee. Message regarding the event timing and place was conducted to the participants.

Event Day

The event arrangements were done at 8 am. Due to the clashing of the timing of the events we had to cancel the 3rd phase i.e. lathe war and the events is carried at two phases only. There were 4 groups who participated in the event. Event is started at 11am and was last up to 1pm. After completion of the 2nd phase the winner is declared on the basis of,

1. Time taken
2. Accuracy
3. No. of clues found.

The prize distribution of the winner and runner-up was carried out at 2pm in seminar hall. The winner is awarded with price money of 500rs and certificate and runner-up with 300rs and certificate.

Winner-

- 1.KetanLonkar (TE)
2. Vijay Dukare (TE)
3. Pratik Hingane (TE)

Runner up-

- 1.SaahilShende (TE)
- 2.Vedant Sane (TE)
- 3.PruthviNagarkar (TE)

Budget details

| Sr .no. | Title | Amount |
|---------|------------------------------|--------|
| 1 | Total winning prize amount | 500 |
| 2 | Total runner-up prize amount | 300 |
| 3 | Total required budget | 1400 |
| 4 | Total expenditure | 1300 |

% utilization of budget- 92.85%

Event head-

1. ShrikantKanade
2. SushantLondhe

Event executives-

1. SammedTalandage
2. Rupeshpatil
3. RutujaJadhaw
4. RohitGrudakar
5. NeemMulani
6. AbhinayMahajan

Photos-



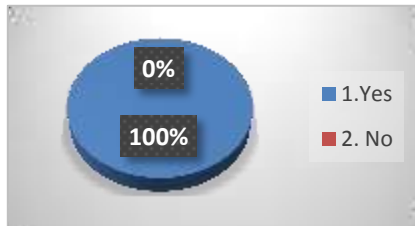


Registration Sheet

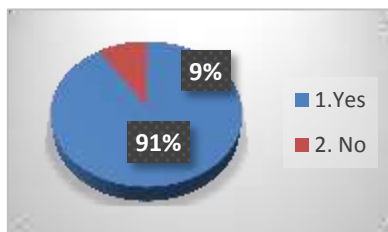
| Sr. No. | Name | Year & Division | Mob no. |
|---------|------------------|-----------------|------------|
| 1 | AkashKirpan | SE-B | |
| | Kaustubh Ked | SE-B | |
| | KartikGavali | SE-B | |
| 2 | YashGrje | BE-B | |
| | Roma Mehendale | BE-B | |
| | ChaitanyaDikshit | BE-B | |
| 3 | ShubhamPathak | SE-B | |
| | Akshay Savant | SE-B | |
| | AnishYadav | SE-B | |
| 4 | SiddhantKolkar | SE-B | 9890279670 |
| | Ajay Mali | SE-B | |
| | DhairyashilKare | SE-B | |
| 5 | PruthviNagarkar | TE-B | |
| | SahilShande | TE-B | |
| | Vedant Sane | TE-B | |
| 6 | VikasAade | TE-B | 9764506231 |
| | Bharat Punjal | TE-B | |
| | ShubhamIrale | TE-B | |
| 7 | SwagataShinde | SE-A | 9604037729 |
| | YatharthMourya | SE-A | |
| | ShivaniSahane | SE-A | |
| 8 | PrashantGarje | TE-A | 9405293991 |
| | KetanLonkar | TE-A | |
| | RushikeshJadhav | TE-A | |
| | | | |

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

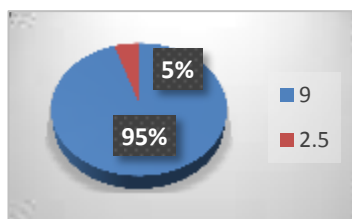
Feedback analysis:



Q. Was the Event well organised?



Q. Was this event helpful for your academics?



Q. How will you rate this Event on the count of 1-10?



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MECHMERIZE'18

RAC WORKSHOP

Refrigeration is a process of removing heat from a low-temperature reservoir and transferring it to a high-temperature reservoir. The work of heat transfer is traditionally driven by mechanical means, but can also be driven by heat, magnetism, electricity, laser, or other means. Refrigeration has many applications, including, but not limited to: household refrigerators, industrial freezers, cryogenics, and air conditioning.

Cold storage is just that: a way of storing things that keeps them cold. Most chemical reactions occur more slowly in the cold, so if the thing that you wish to store is subject to chemical decomposition, it will last longer when it's cold.

Cold storage can refer to anything from a refrigerator to being kept submerged in liquid nitrogen. The colder it is, the longer it will last, though you also have to consider that the cooling process can do damage of its own: lettuce doesn't do well in the freezer because of the mechanical action of ice on the cells.

"Cold storage" could be something as small as a walk-in cooler or freezer (defined by CA as 2,000 sq.ft or less) or a 200,000 sq.ft warehouse. It could also be mobile such as a refer trailer (refrigerated semi-trailer) or cargo container to go on ships.

"Cold storage" usually refers to freezing temperatures or below but can also apply to cooler temperatures (~40F to 45F)

WORKSHOP TIMING:

On 16th of March 2018 in the afternoon slot we allot the timing for workshop at 2.00 pm . We started the workshop with welcome and introduction of Mr. Mayur Ghule senior engineer.

Workshop basically consisted of the demonstration about cold storages. He taught students about the designing techniques of cold storages, various types of insulation techniques as well as the analytical methods of designing the cold storage.

Workshop ended with thank you speech and Dr.Kale sir felicitated Mayur Ghule sir



PIE CHART OF FEEDBACK







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MECHMERIZE'18

REGISTRATION SHEET

EVENT: RAC WORKSHOP

DATE: 16/ 03/2018

| SR.NO | NAME | YEAR | MOBILE |
|-------|-------------------|------|------------|
| 1. | SHREYAS MITHARI | TE A | 9527978597 |
| 2. | SUSHANT LONDHE | TE A | 7757942404 |
| 3. | SAGAR DAHIPHALE | TE A | 9960853022 |
| 4. | SHRIKANT KANADE | TE B | 9028398752 |
| 5. | ASHUTOSH GOTHWAI | TE A | 8483895189 |
| 6. | SHALAKA DESARI | TE A | 9284736861 |
| 7. | MEGHANA JOSHI | TE B | 7743871051 |
| 8. | YOGESH GAIKWAD | SE B | 8605807201 |
| 9. | TEJASHREE GOLE | SE B | 9673240692 |
| 10. | ANKITA MULEY | SE B | 8087724585 |
| 11. | ANISH YADAV | SE B | 7875620155 |
| 12. | SIDDHANT KOLKAR | SEB | 9890279670 |
| 13. | AJAY MALI | SE B | 9890279670 |
| 14. | DHAIRYASHEEL KARE | SE B | 9890279670 |

| | | | |
|-----|--------------------|------|------------|
| 15. | SHUBHAM CHAPPARKAR | TE A | 9822919880 |
| 16. | CHAITANYA RANE | SE A | 9767343650 |
| 17. | ARUN DHOKATE | SE B | 9420735034 |
| 18. | ALIM SHAIKH | TE A | 9837876833 |
| 19. | VIKAS AADE | TE B | 9764506231 |
| 20. | BHARAT PUNJAL | TE B | 9764506231 |
| 21. | HARSHADA KOLHE | TE A | 9271826946 |



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| | | | |
|-----|---------------------|------|------------|
| 22. | JAYESH BAHADALE | TE B | 9923807087 |
| 23. | SURAJ JAJAN | TE B | 8149957554 |
| 24. | SAAHIL SHINDE | TE B | 8421779461 |
| 25. | SAURABH BOTHIKAR | TE B | 8087868319 |
| 26. | APARNA SARADE | SE B | 9146656419 |
| 27. | NITIN YELMANTE | TE B | 8600749877 |
| 28. | RITA GANGURDAE | SE A | 8378863121 |
| 29. | PRADUMN PANDEY | SE B | 7721907858 |
| 30. | SAMBODHI DAHIWALE | SE B | 8308923500 |
| 31. | HARSH KOURVA | SE B | 7083889472 |
| 32. | SOURABH BHOSALE | SE B | 9822525530 |
| 33. | PRAVIN JADHAV | SE B | 9923020928 |
| 34. | SAVITA VETAL | SE B | 7387512535 |
| 35. | SHUBHAM CHAUDHARY | SE B | 7248911650 |
| 36. | KIRAN KUSGAL | TE B | 8149957554 |
| 37. | PRATHAMESH NEWADKAR | TE B | 8149957554 |
| 38. | NILESH THORAT | TE B | 9284743510 |
| 39. | SINTIA SADAWARTE | SE A | 9527624347 |
| 40. | NAYAN MANE | TE B | 8237146294 |

| | | | |
|-----|---------------|------|------------|
| 41. | CHINMAY BUTEE | SE B | 7588284227 |
|-----|---------------|------|------------|



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| | | | |
|-----|--------------------|------|------------|
| 42. | SAURABH MURMURE | TE B | 9850014162 |
| 43. | GURINDER SINGH | TE B | 8879098418 |
| 44. | KAUSTUBH KAD | SE B | 8149828277 |
| 45. | PRASAD NAGARE | SE B | 7350749377 |
| 46. | SHREYAS DASARI | SE B | 8237802355 |
| 47. | MAYUR SARTAPE | TE B | 7757999933 |
| 48. | KAUSHAL MANDVEKAR | SE A | 9923807312 |
| 49. | AKSHAY MAGGO | SE A | 8888654527 |
| 50. | PRATHAMESH SURVASE | SE B | 9405423791 |
| 51. | AKASH KIRPAN | SE B | 7083660780 |
| 52. | LOHAKARE UMESH | SE B | 7798062016 |
| 53. | VAIDEHI BODAS | TE B | 7447722923 |
| 54. | ABHIJEET PAEAR | SE A | 7218847053 |
| 55. | TEJAS PANDHARPATTE | SE B | 9096330482 |
| 56. | SWAPNILGAIKWAD | SE B | 9158491372 |
| 57. | ANKITA SANHE | TE A | 9011941460 |
| 58. | SUDHIR KHAMGAL | SE B | 8888490152 |
| 59. | NITIN FUNDE | TE B | 9970762254 |



ABSTRACT

MANUFACTURING PROCESS



Factory of the Future: Transformation in Manufacturing

Webinar was arranged by Mechanical Students Association for students on the topic “Transformation in Manufacturing” on 21st September 2017. The Webinar many focused on the recent technologies and trends in Manufacturing Process. Changes are sweeping the world of manufacturing. Advanced materials and innovative production technologies are maturing. Digital manufacturing techniques are gaining adoption. These technology trends are offering manufacturers new ways to compete, innovate, and grow profitably even as they face challenges from volatile energy costs, workforce shortages, proliferating regulations, and a host of evolving risks.

The webinar focused on main factors including :

The **technology trends** that present new possibilities and questions for manufacturers include:

- **New production processes:** New processes such as additive manufacturing (for instance, 3D printing) are influencing everything from product design to material selection to supply chain configuration. Additive manufacturing is already a \$2 billion market globally.
- **New materials:** Advanced materials with high performance characteristics, such as carbon fiber composites, ceramics, and nanomaterials, are increasingly finding uses in large consumer-oriented markets such as automobiles, building materials, and

clothing. Global demand for carbon fiber-reinforced plastic, for instance, is expected to grow 15 percent annually through 2020.⁹



Digital manufacturing: A new generation of digital design and collaboration tools is enabling manufacturers to digitally simulate the appearance, performance, interoperability, and even manufacturability of products, saving time and money throughout the product development and production process. Dassault Systèmes, a leading provider of software to manufacturers, reports that its revenues in this business segment have increased more than 60 percent in the last year. In a cutting-edge example of digital manufacturing, Steelcase is employing augmented reality on an assembly line to boost the productivity of its worker.

Manufacturers are increasingly looking to take advantage of these technology trends to help them navigate the economic and business challenges they face, including increased labor costs in developing countries, a talent gap at home, the intellectual property risks of global operations, and a growing regulatory burden.

Collectively, these questions reveal that macroeconomic and technological shifts are changing the basis of competition and value creation in manufacturing. Success is no longer guaranteed for the manufacturer with the lowest costs. New materials and new processes give manufacturers across all sectors the opportunity to provide more value to their customers—including improved performance, faster delivery time, customized products, and flexible productive volumes—and capture more profits for themselves. In this dynamic environment, manufacturers cannot afford to stand still. Innovation enabled by new technology is a path to a successful future in manufacturing.

Consumer expectations and the advent of connected devices and platforms are driving the persistent digitization of the manufacturing. While the majority of manufacturing executives acknowledge the importance of this transformation, only [5%](#) of them are satisfied with their current digital strategies. The industry continues to evolve in response to the challenge of ensuring the right products are delivered at the right price to the right person through a process of improved sophistication.





Top Digital Transformation Trends in Manufacturing

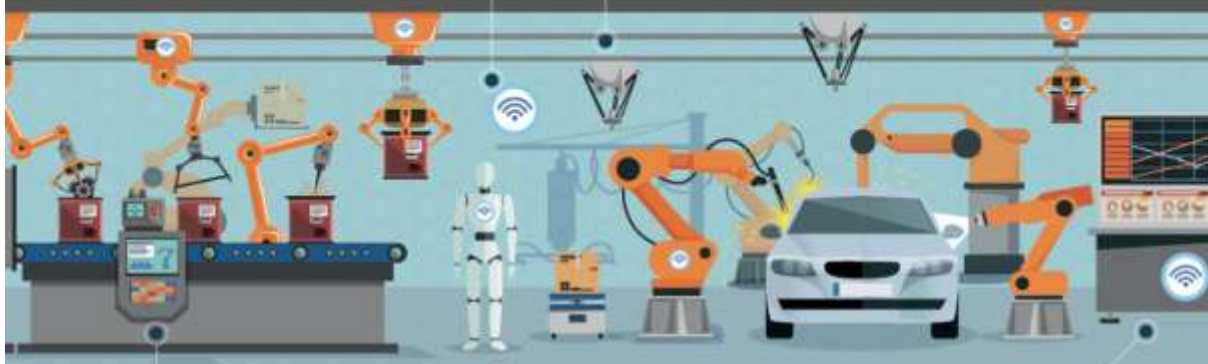
Like the Industrial Revolution impacted manufacturing, digital transformation is now responsible for changing the industry. *Now, manufacturing companies are using technology to move from mass production to customized production, and it's happening at a rapid pace.*

IoT and Industry 4.0

At the center of industrial transformation is IoT, accounting for more than \$178 billion in 2016 and proving critical to providing companies with a competitive edge.

Improved speed and efficiency

Robots and other automated technology are also integral in improving speed and efficiency, allowing manufacturing companies to "optimize production workflows, inventory, Work in Progress, and value chain decisions."



AI and machine learning

Smart factories with integrated IT systems provide relevant data to both sides of the supply chain more easily, increasing production capacity by 20 percent.

Robots

Today, however, robots are capable of mimicking more human traits such as dexterity and memory, which makes them more useful in industries like manufacturing.

Data and analytics

It is predicted that by 2020, there will be 50 times the digital content compared to what exists today.

Preparation of Papers in modified IEEE style: 1.5-spaced, One Column

¹Abcde Fghijk, *BE-Mechanical, VIIT Pune*

²Ijklmn Opqrst, Professor, Mechanical Engineering, VIIT Pune

Abstract-These instructions give you basic guidelines for preparing reports in IEEE format. The word *Abstract* is in bold italics, but the content of the abstract is not italic.

Key words-These instructions

I. INTRODUCTION

This is IEEE Text style. Use it for all paragraphs that contain body text. This style matches the appearance of papers in an IEEE conference proceedings but in double-spaced (actually it is 1.5 spaced) format and in a single column. For items not addressed in these instructions, please refer to other documents on IEEE style.

A. *This is IEEE Subheading Style*

Prepare your paper in full-size format (i.e., use this document as your template), on US letter paper (8.5 by 11 inches).

Type sizes and typefaces: Follow the type sizes specified in Table I. As an aid in gauging type size, 1 point is about 0.35 mm. The size of the lowercase letter “j” will give the point size. Times New Roman is the preferred font.

1) *US letter margins* (inches): top = 1 inch, bottom = 1 inch, side = 1 inch.

2) *US letter margins* (mm): top = 25.4 mm, bottom = 25.4 mm, side = 25.4 mm.

Paragraph indentation is 3.5 mm (0.14 in).

Left- and right-justify your columns. Use automatic hyphenation and check spelling. Digitize and electronically paste all figures into the document.

TABLE I
TYPE SIZES FOR CAMERA-READY PAPERS

| Paragraph Style | Size (pts) | Font | Font Style | Description |
|--------------------|------------|-----------------|---|-------------------|
| IEEE Title | 24 | Times New Roman | regular | Title of paper |
| IEEE Author | 11 | | regular | Author names |
| IEEE Abstract | 9 | | <i>italics</i> | Abstract of paper |
| IEEE Heading 1 | 8 | | SMALL CAPS | Section headings |
| IEEE Heading 2 | 10 | | <i>Italics, Capitalize Words</i> | Sub-headings |
| IEEE Text | 10 | | regular | All body text |
| IEEE List | 10 | | <i>Italics # and topic</i> : regular text | Lists |
| IEEE Table Number | 8 | | ALL CAPS | Table Number |
| IEEE Table Title | 8 | | SMALL CAPS | Table Title |
| IEEE Table Content | 8 | | regular | Table content |
| IEEE Caption | 8 | | regular | Figure caption |
| IEEE Equation | 10 | | regular | Equation |

| | | | | |
|---------------------|---|--|------------|---------------------------|
| IEEE Reference Head | 8 | | SMALL CAPS | Reference section heading |
| IEEE Reference | 8 | | regular | Reference entry |

II. HELPFUL HINTS

B. Figures and Tables

Position figures and tables at the tops and bottoms of pages, when possible. Avoid placing them in the middle of columns. Figure captions should be centered below the figures; table captions should be centered above. Avoid placing figures and tables before their first mention in the text. Use the abbreviation “Fig. 1,” even at the beginning of a sentence.

Figure axis labels are often a source of confusion. Use words rather than symbols. For example, write “Magnetization,” or “Magnetization, M,” not just “M.” Put units in parentheses. Do not label axes only with units. In the example, write “Magnetization (A/m)” or “Magnetization ($\text{A} \cdot \text{m}^{-1}$).” Do not label axes with a ratio of quantities and units. For example, write “Temperature (K),” not “Temperature/K.”

Multipliers can be especially confusing. Write “Magnetization (kA/m)” or “Magnetization (10^3 A/m).” Figure labels should be legible, about 10-point type.

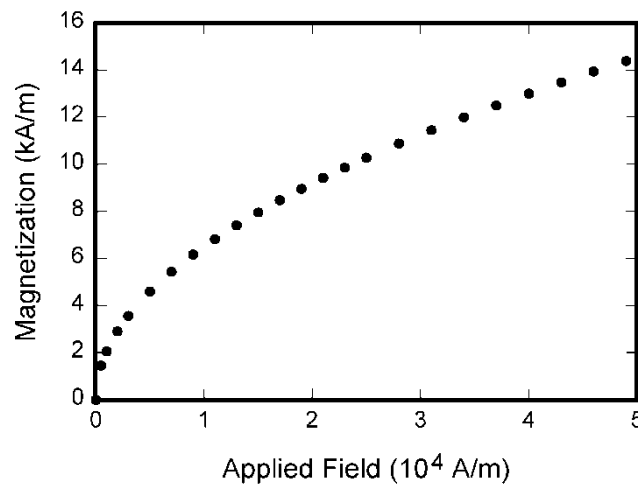


Figure 1. Magnetization as a function of applied field.
Note how the caption is centered in the column.

C. References

Number citations consecutively in square brackets [1]. Punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]. Use “Ref. [3]” or Reference [3]” at the beginning of a sentence: “Reference [3] was the first ...”

Number footnotes separately in superscripts. Place the actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the reference list. Use letters for table footnotes (see Table I). *IEEE Transactions* no longer use a journal prefix before the volume number. For example, use “IEEE *Trans. Magn.*, vol. 25,” not “vol. MAG-25.”

Give all authors’ names; use “et al.” if there are six authors or more. Papers that have not been published, even if they have been submitted for publication, should be cited as “unpublished” [4]. Papers that have been accepted for publication should be cited as “in press” [5]. In a paper title, capitalize the first word and all other words except for conjunctions, prepositions less than seven letters, and prepositional phrases.

For papers published in translated journals, first give the English citation, then the original foreign-language citation [6].

D. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even if they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title unless they are unavoidable.

E. Equations

Number equations consecutively with equation numbers in parentheses flush with the right margin, as in (1). To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Italicize Roman symbols for quantities and variables, but not Greek symbols. Use an en dash (–) rather than a hyphen for a minus sign. Use parentheses to avoid ambiguities in denominators. Punctuate equations with commas or periods when they are part of a sentence, as in

$$a + b = c. \tag{1}$$

Symbols in your equation should be defined before the equation appears or immediately following. Use “(1),” not “Eq. (1)” or “equation (1),” except at the beginning of a sentence: “Equation (1) is ...”

F. Other Recommendations

The Roman numerals used to number the section headings are optional. If you do use them, do not number ACKNOWLEDGMENT and REFERENCES, and begin Subheadings with letters. Use two spaces after periods (full stops). Hyphenate complex modifiers: “zero-field-cooled magnetization.” Avoid dangling participles, such as, “Using (1), the potential was calculated.” Write instead, “The potential was calculated using (1),” or “Using (1), we calculated the potential.”

Use a zero before decimal points: “0.25,” not “.25.” Use “cm³,” not “cc.” Do not mix complete spellings and abbreviations of units: “Wb/m²” or “webers per square meter,” not “webers/m².” Spell units when they appear in text: “...a few henries,” not “...a few H.” If your native language is not English, try to get a native English-speaking colleague to proofread your paper. Do not add page numbers.

III. UNITS

Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as “3.5-inch disk drive.”

Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.

IV. SOME COMMON MISTAKES

The word “data” is plural, not singular. The subscript for the permeability of vacuum μ_0 is zero, not a lowercase letter “o.” In American English, periods and commas are within quotation marks, like “this period.” A parenthetical statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical *sentence* is punctuated within the parentheses.) A graph within a graph is an “inset,” not an “insert.” The word *alternatively* is preferred to the word “alternately” (unless you mean something that

alternates). Do not use the word “essentially” to mean “approximately” or “effectively.” Be aware of the different meanings of the homophones “affect” and “effect,” “complement” and “compliment,” “discreet” and “discrete,” “principal” and “principle.” Do not confuse “imply” and “infer.” The prefix “non” is not a word; it should be joined to the word it modifies, usually without a hyphen. There is no period after the “et” in the Latin abbreviation “et al.” The abbreviation “i.e.” means “that is,” and the abbreviation “e.g.” means “for example.” An excellent style manual for science writers is [9].

ACKNOWLEDGMENT

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g.” Try to avoid the stilted expression, “One of us (R. B. G.) thanks ...” Instead, try “R.B.G. thanks ...” Put sponsor acknowledgments in the unnumbered footnote on the first page.

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Wear Mechanism in Automobile Brake Materials and its Potential Environmental Impact

¹Abcde Fghijk, *BE-Mechanical, VIIT Pune*

²Ijklmno Pqrst, *BE-Mechanical, VIIT Pune*

³Uvwxyz, Professor, Mechanical Engineering, VIIT Pune

Abstract- A model semi-metallic brake lining was subjected to full-scale automotive brake dynamometer tests. The structural properties and surface topography of brake linings were analyzed at different stages of wear testing and correlated to frictional performance. Characteristics of released wear particles were also addressed. A combination of abrasive and adhesive wear with oxidative processes dominated the friction process. Formation of a friction layer adhering to the friction surfaces of pads and discs is the major feature responsible for friction performance. Characteristics of the friction layer depend mostly on surface temperature, normal pressure, and sliding speed. It is a newly formed sintered composite matter consisting of a mixture of wear particulates. Wear rates and friction levels depend on chemistry, structure and hardness of the friction layer covering the surface of a pad or a disc; however, there is no simple Archard-type relationship between wear and measured hardness. Wear debris generated during the dynamometer tests was collected from containers placed under the brake inside dynamometer chamber. The collected debris was compared with ball-milled particles from identical brake lining. It is necessary to combine several analytical methods to characterize wear particles properly. The presence of copper and iron oxides as well as carbonaceous components is typical for all collected debris samples. Chemistry of wear debris resembles chemistry of the friction layer. Composition, mutagenic potency and pulmonary toxicity of wear debris and ball-milled particles were also analyzed. Mutagenic potency of initial friction composite and wear particles was evaluated by two *in vitro* bacterial microbioassays (SOS Chromotest, Ames test). Obtained results show potency of wear particles for interacting with DNA after metabolic activation, which indicates the presence of indirect mutagens. The pulmonary toxicity test on rats revealed an acute response of the lung tissue to the ball-milled particles. Further research is necessary to address the role of brake wear particles and potential impact of sub-chronic exposure to wear debris.

Key words- Wear, Wear debris, Friction test



**BRAC'T'S
VISHWAKARMA INSTITUTE OF
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DEPARTMENT OF MECHANICAL ENGINEERING**

ORGANISING TECHNICAL SKILL DEVELOPMENT PROGRAM IN ASSOCIATION
WITH BOARD OF STUDENTS WELFARE,
SAVITRIBAI PHULE PUNE UNIVERSITY
MECHMERIZE'18



EVENT REPORT

VPL AUCTION

EVENT REPORT

VPL AUCTION

The event VPL Auction organized under Mechmerize 2018 was held on 17th March, 2018 under the faculty in charge of H.V. Velhal. The event was arranged for students of Mechanical department which was replica of IPL auction.

Before event:

On 13th Feb we started to do the preparation necessary for VPL auction which includes the power point presentation on the list of players which were going to display on the day of auction, it required 3 days to complete the presentation of 220 slides. Simultaneously the order of material required for decoration and other preparation like making the pluck cards was placed through logistic department. The whole preparation was done a day before the event. On 16th March messages regarding event were sent to every participant.

Event day:

The event room was allocated for each event. For VPL Auction seminar hall was allocated. At 10.15 AM we began to arrange the seminar hall to create the arrangement and atmosphere as per the IPL auction. Participants started arriving at 10.45AM and thereby registration started. All the 11 teams with their team members were allocated with their franchise. The bidding was started at 11.00 AM sharp. Total number participants were 59 students & 6 faculty members. The result was declared under the guidance of faculty in charge and on the basis of winning criteria.

After event:

The certificates were given to 1st and 2nd winner of the competition with the winning amount of Rs.700 & Rs.300 respectively by A.P.Kulkarni sir, Salve sir & C.R.More sir.

Winners:

1.Gujarat lions

- I. Aakash Kirpan
- II. Tejas Pandharpatte
- III. Kaustabh Kad
- IV. Anish Yadav
- V. Akshay savant
- VI. Shubham Pathak

Runner up:

2.Chennai Super kings

- I. Siddhant Patil.
- II. Nitin Yelmante.
- III. Vikas Aade
- IV. Bharat Punjal
- V. Rakesh Chavan
- VI. Mayor sartape.

Event Heads:

1.Vinayak Kurane

2.Sagar Dahiphale

EVENT COORDINATORS:

3. Mrunal Deshpande

4. Nishtha Shedolkar

5. Pathan Shoaib Khan

6. Ajit Shinde

Budget details:

| | |
|-------------------------------------|--------|
| Total winning prize (Amount) | Rs.500 |
| Total runner up prize (Amount) | Rs.300 |
| Total required budget | Rs.500 |
| Amount spent on decoration material | Rs.200 |
| Amount spent for prints and pages | Rs.100 |



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MECHMERIZE'18

Registration Sheet

EVENT NAME:VPL AUCTION

Date:17/03/2018

| Group No | Name | Year & Div |
|----------|-----------------------|------------|
| 01 | i. RUSHIKESH SHIRSAT | SE-A |
| | ii. RAHUL JADHAV | SE-A |
| | iii. SAURABH VASAIKAR | SE-A |
| | iv. ADITYA DARKUNDE | SE-A |
| | v. ABHISHEK MAHAJAN | SE-A |
| | vi. KAUSHAL | SE-A |
| | | |
| 02 | i. ASHITOSH PILANI | SE-A |
| | ii. ABHIJEET PAWAR | SE-A |
| | iii. CHAITANYA RANE | SE-A |
| | iv. KARAN OSWAL | SE-A |
| | v. SOHAM PATIL | SE-A |
| | vi. | |
| 03 | i. AKASH KIRPAN | SE-B |
| | ii. AKSHAY SAWANT | SE-B |
| | iii. SHUBHAM PATHAK | SE-B |

| | | |
|----|-----------------------|------|
| | iv. KAUSTABH KAD | SE-B |
| | | |
| 04 | i. SIDDHANT KOLKAR | SE-B |
| | ii. AJAY MALI | SE-B |
| | iii. DHAIRYSHIL | SE-B |
| | iv. YOGESH GAIKWAD | SE-B |
| | v. SWAPNIL GAIKWAD | SE-B |
| | | |
| 05 | I. ABHISHEK MAHAJAN | SE-B |
| | II. SHUBHAM CHOUDHARI | SE-B |
| | III. SHRENIK KOLE | |
| | IV. ANKITA MULAY | SE-B |
| | V. AJINKYA JADHAV | SE-B |
| | VI. TEJASHRI GOLE | SE-B |
| | | |
| 06 | i. RAHUL AADHIA | TE-A |
| | ii. PRATIK GORAD | TE-A |
| | iii. RAJAT KUMAR | TE-A |
| | iv. KEVI N FERR | TE-A |
| | v. ADITYA KHADE | TE-A |
| | vi. MAHESH GUJRATI | TE-A |
| | | |
| | | |
| 08 | i. SIDDHANT PATIL | TE-B |
| | ii. VIKAS AODE | TE-B |
| | iii. BHARAT PUNJAL | TE-B |
| | iv. NITIN YELMANTE | TE-B |
| | v. SHRIKANT KANADE | TE-B |
| | vi. RAJSHREE WADEKAR | TE-B |
| | | |

| | | |
|----|--------------------------|------|
| 09 | i. JAYESH BHADALE | TE-B |
| | ii. KIRAN KASGAL | TE-B |
| | iii. SURAJ GAVIT | TE-B |
| | iv. SAURABH MURMURE | TE-B |
| | v. NILESH THORAT | TE-B |
| | vi. SAURABH BHOTIKAR | TE-B |
| | | |
| 10 | i. JEEVAN KALYANKAR | BE |
| | ii. SHUBHAM PATIL | BE |
| | iii. VAIBHAV PARADESHI | BE |
| | iv. ASHUTOSH KUSALKAR | BE |
| | v. AMEY ZORE | BE |
| | vi. | |
| | | |
| 11 | i. PRASHANT GARJE | TE-A |
| | ii. KETAN LONKAR | TE-A |
| | iii. RUSHIKESH JADHAV | TE-A |
| | iv. NIRAJ MUNGRULE | TE-A |
| | | |
| 12 | i. MATHEW KARVINKOPPA | |
| | ii. ATUL KULKARNI | |
| | iii. MANOJ JAGDALE | |
| | iv. PRVAEEN RATHOD | |
| | v. AKSHAY JAGDALE | |
| | vi. | |









Certificates of winners and runner ups





BOARD OF STUDENTS' WELFARE, SPPU
DEPARTMENT OF MECHANICAL ENGINEERING
MECHANICAL ENGINEERING
STUDENTS' ASSOCIATION
PRESENT



S.P.P.U.

MECHMERIZE '18

16th-17th March

• "Future is here" •

NATIONAL LEVEL TECHNICAL SKILL DEVELOPMENT PROGRAM

Certificate



This is to certify that Mr./Ms. Nitin Yelmante
has participated/won in 2nd in
VPL event held on 16th Feb 2018 in
Mechmerize '18.

Mr. Mahesh Kamthe
General Secretary,
MESA

Prof. A.V. Salve
Faculty Advisor,
MESA,
VIIT, Pune.

Dr. A.P. Kulkarni
Head Of Department
of Mechanical engg.,
VIIT, Pune.

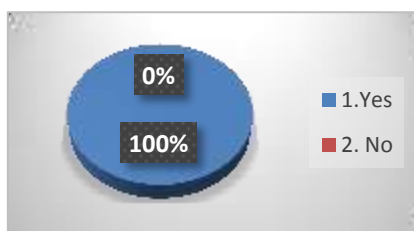
Dr. B.S. Karkare
Director,
VIIT, Pune.

All and all it was a great event for every participated student as far as concerned it was planned by considering interest of students. With the sprize distribution ceremony the event come to an end.

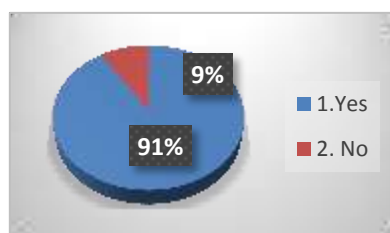
Being mesa member we all thank you that MESA provided a great platform for every student to be evolved and learn something new every time. We are assured that mesa will organize such events further in future and it will be great pleasure for students to be participated in it.

Thanking you.

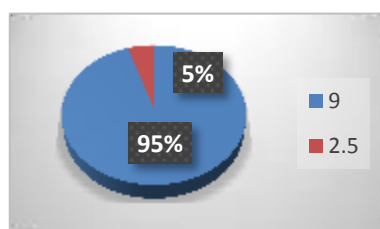
Feedback analysis:



Q. Was the Workshop well organised?



Q. Was this Workshop helpful for your academics?



Q. How will you rate this Workshop on the count of 1-10?



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MECHMERIZE'18

WRAP THE SCRAP

EVENT REPORT

The event wrap the scrap organized under Mechmerize'18 was held on 17th Feb 2018 under faculty In charge C.R. More. The event was of making some useful mechanisms from the scrap provided.

BeforeEvent :

Firstly the required materials i.e. conduit, syringe, cutters, scales, etc. those were necessity of the event were to be ordered. After the finalization the quotation the materials were ordered.

The materials were arrived a day before the event. The designs were made and finalized under the guidance of C.R. More. The sample was made 2 days before the event by using materials those were available so as reference or demonstration to the participants.

On 16th Feb. final registration list was handed to us by the registration team.

Message regarding event details were send to the participants.

Event Day :

The event rooms arrangement were done. At 10.45 am participants starts arriving and at sharp 11 am the event was started. There were 8 teams participating in the events and all of them were given the same classroom E409. The total no. of participants were 24. The instructions were given about the rules of the event and safety.

The time given for the completion of given mechanism was 90 minutes. At 12.30 pm the mechanism of each team was completed. All the students submitted their mechanisms to us. The results were evaluated by the faculty in charge C.R. More.

The results were obtained on the basis of :

1. Job completion
2. Time taken
3. Accuracy of mechanism

After some discussion the best 2 teams were finalized as 1st and 2nd position winners of the event.

After Event:

The certificate was given to each participant. Participants securing 1st and 2nd positions were given the prize money of 500 and 300 rupees respectively.

Winner Position 1:

1. Roma Mahedale (BE)
2. Yash Garje (BE)
3. Chaitanya Dixit (BE)

Winner Position 2:

1. Saurabh Thakur (TE)
2. Abhishek Phalke (SE)
3. Sudhir Khamgal (SE)

Event Coordinators:

1. Shreyas Mithari
2. Sandip Lanke
3. Rahul Jadhav
4. Abhijeet Pawar

Budget Details:

| | |
|--|------|
| Total winning Prize (Amount) | 500 |
| Total 2 nd position Prize(Amount) | 300 |
| Total required Budget | 1100 |
| Total amount spent on Event | 850 |
| % Utilization of the Budget | 77 |



Registration Sheet

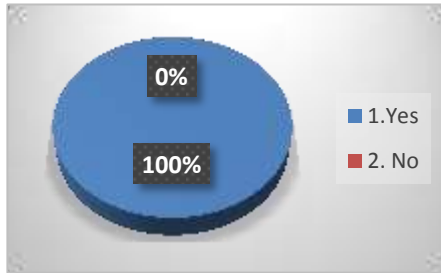
EVENT NAME: WRAP THE SCRAP **Date: 17/03/2018**

| Group No | Name | Year | Mob. No |
|----------|----------------------|------|------------|
| 01 | i. Roma Mehendale | BE | 9823370933 |
| | ii. YASH GARJE | BE | |
| | iii. Chaitanya Dixit | BE | |
| | | | |
| 02 | i. MANOHAR KULAT | SE | 8378863121 |
| | ii. ShivamMalkar | SE | |
| | iii. Rita Gangurde | SE | |
| | | | |
| 03 | i. Atul Patankar | TE | 7038619912 |
| | ii. Robin Rego | TE | |
| | iii. Samay Deshmukh | TE | |
| | | | |
| 04 | i. Saurabh Thakur | TE | 7588921370 |

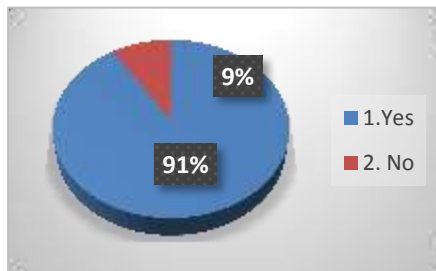
| | | | |
|----|--------------------------|----|------------|
| | ii. Abhishek Phalke | SE | |
| | iii. Sudhir Khamsal | SE | |
| | | | |
| 05 | i. Pranav Keskar | SE | 8275997114 |
| | ii. Pushkar Nyayadish | SE | |
| | iii. Shubham Ingole | SE | |
| | | | |
| 06 | i. PARVEZ PATEL | TE | 8007315986 |
| | ii. SAILESH KUMAR | TE | |
| | iii. DIPAK RAKSHE | TE | |
| | | | |
| 07 | i. SHUBHAM CHHAPERGAV | TE | 9822919880 |
| | ii. VISHWAJEET | TE | |
| | iii. ANKIT LEWATE | TE | |
| | | | |
| 08 | i. Dishantpawar | SE | 7276873566 |
| | ii. Ruturajchaudhari | SE | |
| | iii. Abhijeet Pawar | SE | |



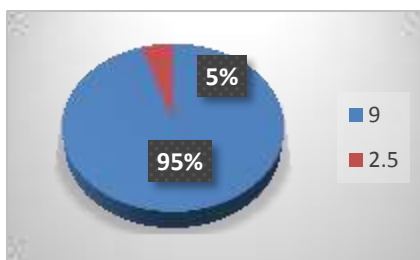
Feedback analysis:



Q. Was the Workshop well organised?



Q. Was this Workshop helpful for your academics?



Q. How will you rate this Workshop on the count of 1-10?