



Shri Vile Parle Kelvani Mandal's

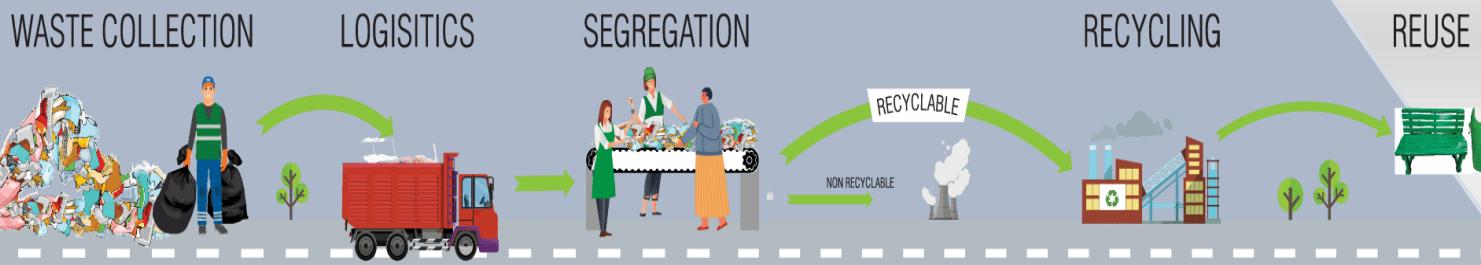
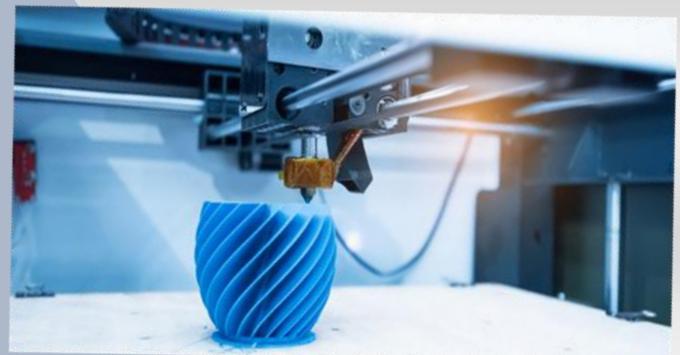
Shri Bhagubhai Mafatlal Polytechnic, Mumbai.



Department of Plastic Engineering

E-NEWSLETTER 2021-2022

Planet Plastic



★ Vision of the Department ★

To empower the graduates through knowledge to produce high quality **Plastic Engineer & Entrepreneurs.**

★ Mission of the Department ★

- ❖ To create a competent professionals and entrepreneurs, contributing towards growth of plastics and allied engineering.
- ❖ To provide knowledge through strong Industry-Institute-Interaction.
- ❖ To continuously improve the teaching-learning process through need and based curriculum & infrastructure.
- ❖ To inculcate environmental awareness, soft skills and promote lifelong learning.

★ Programme Educational Objectives ★

PEO1-Diploma graduates can identify, formulate and solve complex problem in plastics engineering

PEO2- To equip graduates with professional and entrepreneurial skills

PEO3- To enrich diploma graduate with recent technologies in plastics engineering PEO4- To inculcate leadership skills and innovations

★ PROGRAM SPECIFIC OUTCOMES ★

PSO 1: To Design mould and dies, troubleshoot in plastics processing and test plastics products.

PSO2: To pursue higher education in premier institute and get employment in polymer industries such as rubber, composites, packaging & allied engineering.

PSO3: To setup plastic industries as an entrepreneur.

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DR. MOHD. ZAFAR SHAIKH

“Education is not the learning of facts, but the training of the minds to think”- Albert Einstein

It is certainly a matter of pride to be a part of SBMP, the second oldest institute under the aegis of SVKM, having long legacy in the field of technical education. Our primary aim is to provide state-of -the-art infrastructural facilities like laboratories, library, and classrooms for the holistic professional development of our students.

We at S.B.M. Polytechnic make an effort to meet the demands of advancing technology by producing high quality technicians who can be worthy of service to the industry, the society and the nation.

It is our goal to strive hard to enhance quality of technical education in order to meet the futuristic manpower requirements of the industry. We continuously endeavour to improve our performance and to grow into one of the best polytechnic college in the state.

Our experienced & dedicated faculty go beyond the curriculum to give our students valuable insights required in the real life. We are fortunate to have a very progressive Management which has always rendered their support and guidance for the image building of the polytechnic. Being a head of the polytechnic, I welcome



MR. D. M. KARAD

“No one wants to learn by mistakes, but we cannot learn enough from success to go beyond the state of the art”

The E-magazine of Plastics Engineering is an endeavor of our students, which has proved from last few years. It is a great pleasure to publish 4th edition of “**PLANET PLASTIC**” for this academic year 2021-2022 to explore the creative ideas and activities of our students. I hope this edition would grow interest among the readers about the applications of polymers.

The department is committed to support the mission of the **Shri Bhagubhai Mafatlal Polytechnic** to develop leaders of distinction in Plastics Engineering. It does this through excellence in classroom instruction, by motivating students to acquire the knowledge, skills & competencies sought by employers, and by creating knowledge that informs and advances the Art & Science of Management.

EDITORIAL TEAM'S MESSAGE



Mr. NAVIN TEMBHURNIKAR

Mr. SACHIN KAMBLE

"Everyone can rise above their circumstances and achieve success if they are dedicated to and passionate about what they do."

We are glad to pen this wonderful Magazine as an appreciation of the commendable efforts put forth by the team for its next edition. The efforts have taken to bring about innovative content is appreciable. This Magazine is a platform for the students to express their creative pursuit which develops originality of thought and perception. The most important aspect we could derive from this stupendous effort is that it brings out the various technical and analytical skills of budding engineers.



Mrs. RAMESHWARI BAWANKAR



Mrs. MEGHNA HUMBAL

“Education is the most powerful weapon which you can use to change the world.”

It gives us immense pleasure and satisfaction to introduce our 4th edition of ‘PLANET PLASTIC’

Magazine for the academic session 2020-21. So this time we have attempted to bring out the talent concealed within our student community, which would help to enhance the practical value of Plastic Engineering.

Plastic have given the speed and flexibility for human to perform their day-to-day task. We express our gratitude towards the steps taken by the institute and the department in strengthening engineering and technology through such type of activity. We hope, you will enjoy reading this edition.



Mr. KRISH PANCHAL

- The Issue Editor

I am glad to be the part of this and honour to share the positive awareness towards plastic.

After the Success of our previous edition of ‘PLANET PLASTIC’. It is my privilege to be the issue editor of our 4th edition of ‘PLANET PLASTIC’ for the year of 2021-22.

The amount of knowledge and wisdom this institute has bestowed upon me is immense. The amount of activities are provided by department and participating in them made me more confidential & communicative.

A BAD HABIT and not being in DISCIPLINE put you down, but a GOOD HABIT and being DISCIPLINE raise you up.

MESSAGE BY TEAM MEMBERS

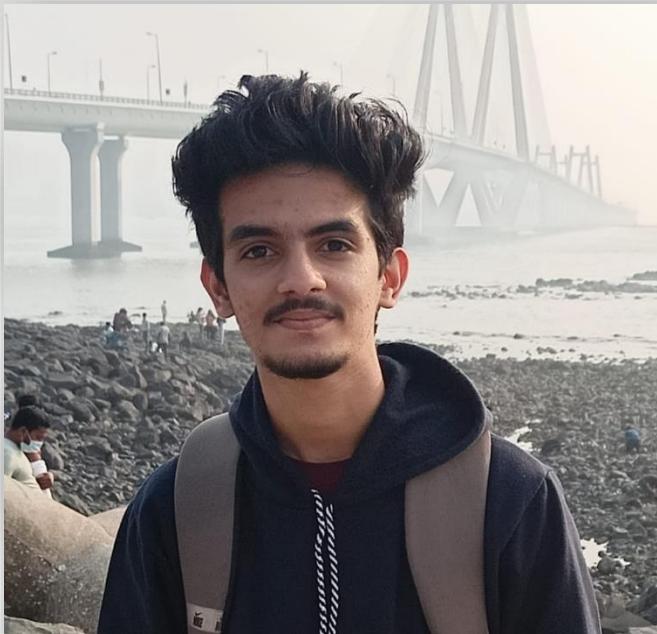


Ms. Poorva Prindavankar

I am glad to use this magazine to share some thoughts with everyone. This magazine features images of numerous resources and task handled by our “Plastic Engineering Department”.

On my own experience, I firmly believe that students supported by our department will unquestionably use their knowledge to bring out revolutionary advances in the plastic industry.

We can never have a perfect life, but we can definitely have a HAPPY LIFE.



Mr. Parth Gohil

Being a part of the polytechnic college, I have learned various new technologies and machines theoretically as well as practically.

During the learning period there were many activities and events which gave me a great experience and a joy of learning. I am glad that I am a part of this Plastic Engineering Department and share my view through this magazine.

Chase the KNOWLEDGE Not Money;
FOCUS on KNOWLEDGE.



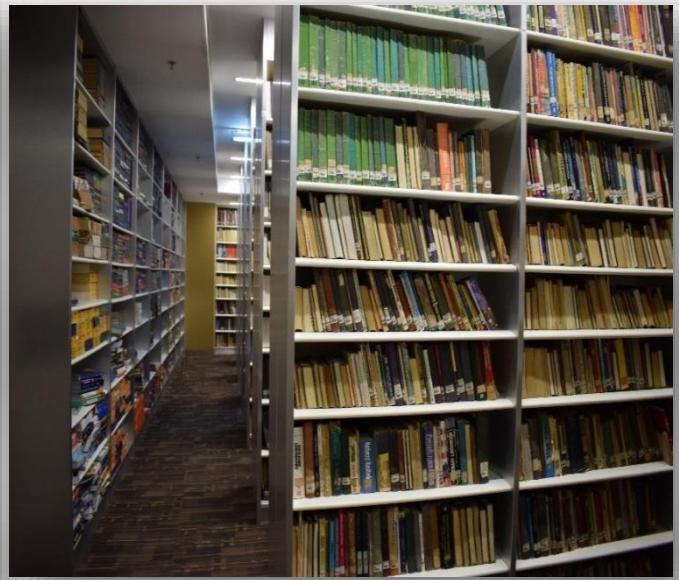
Mr. Bhavik Padhiyar

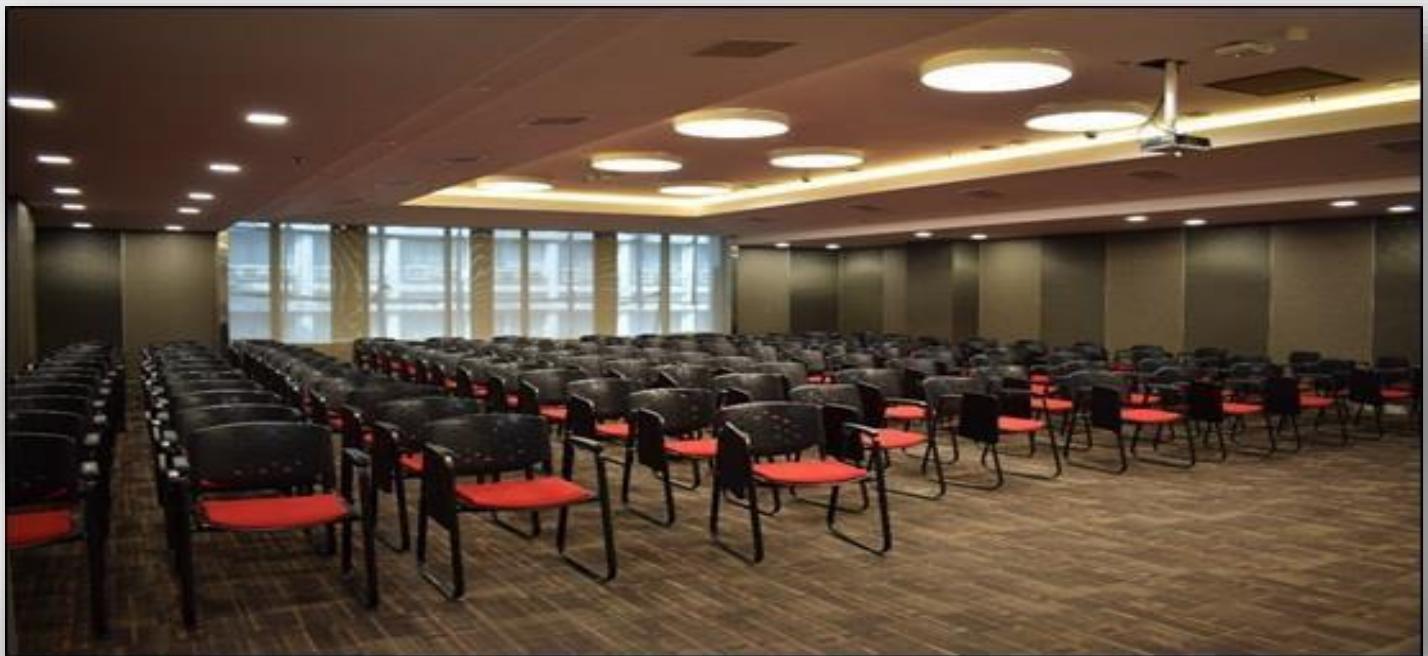
As a student of this reputed polytechnic and plastic engineering department, I've experienced a great joy of learning and an ocean of knowledge theoretically as well as practically.

This magazine includes illustration of various amenities, activities carried out by 'Plastic Engineering Department'. Our department has opened my space of thinking abilities in wide spectrum by new technologies and innovations. I'm greatly thankful to the respected teachers for sharing their valuable insights of plastic industry.

**Change your Vision and your Vision will
change YOU**

★ GLIMPSE OF INSTITUTION ★





★ GLIMPSE OF DEPARTMENT ★

- The establishment of this course was in 1974
- Till 2019 it was about 4-year diploma course and then converted to 3year diploma course.
- Provide implant-training for 6 months.
- It has intake of 30 students

INFRASTRUCTURAL FACILITIES

- ❖ 3 Laboratories
- ❖ Plastic Processing Lab-71.27 Sq. M.
- ❖ Plastic Testing Lab-71.93 Sq. M.
- ❖ Adv. Mfg. Lab-71.58 Sq. M.
- ❖ 5 Lab are in sharing
- ❖ Chemistry, Physics, CAD-CAM, Workshop, MQC Lab.

Plastic Processing Workshop

INJECTION MOULDING MACHINE

| Machines | Specifications |
|----------------------------|----------------|
| Injection moulding machine | 30 tonnages |
| Blow moulding machine | 150 ml |



Injection moulding are of 2 units: Clamping unit & Injection unit. It is a process in which thermoplastic polymer is heated above its melting point so the solid polymer granules turn into molten state. This molten material is injected into a mould in the shape of desired final object. It is typically used as a mass production process to manufacture thousands of identical items.



EXTRUSION BLOW MOULDING

Blow moulding is a two-step process in which first a hollow tube is referred as parison or preform, produced from molten plastic, then the second step of inflating it into desired shapes of the Mould with some amount of pressurised air.

PIPE PLANT



A pipe extrusion line consists of different units. An extruder converts raw plastic material into a continuous tubular melt by extrusion through an annular die. After sizing and cooling, the pipe passes via haul-off unit to the cutting machine, for cutting it into final lengths, or coiling.

TESTING EQUIPMENTS FOR

PLASTIC MATERIAL

Our department is well equipped with various plastic testing equipments. All testings are performed as per the ASTM (American Society for Testing & Materials) and ISO (International Organisation for Standardization).

Also our department carries out testing for other companies.

Following are the various equipments for material identification, properties and its grades.



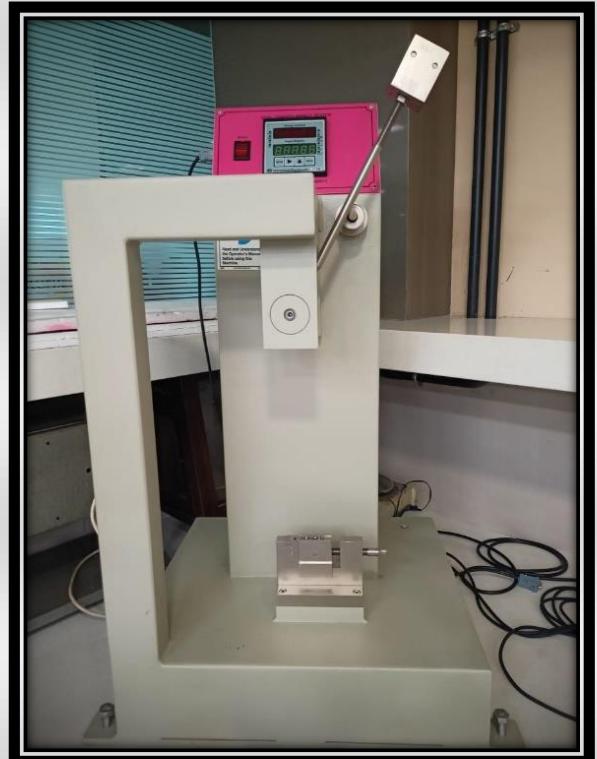
UNIVERSAL TESTING
MACHINE



MELT FLOW INDEX
APPARATUS



DENSITY TESTER



CHARPY IMPACT TESTER



CO-EFFICIENT OF FRICTION
TESTER



DART IMPACT TESTER



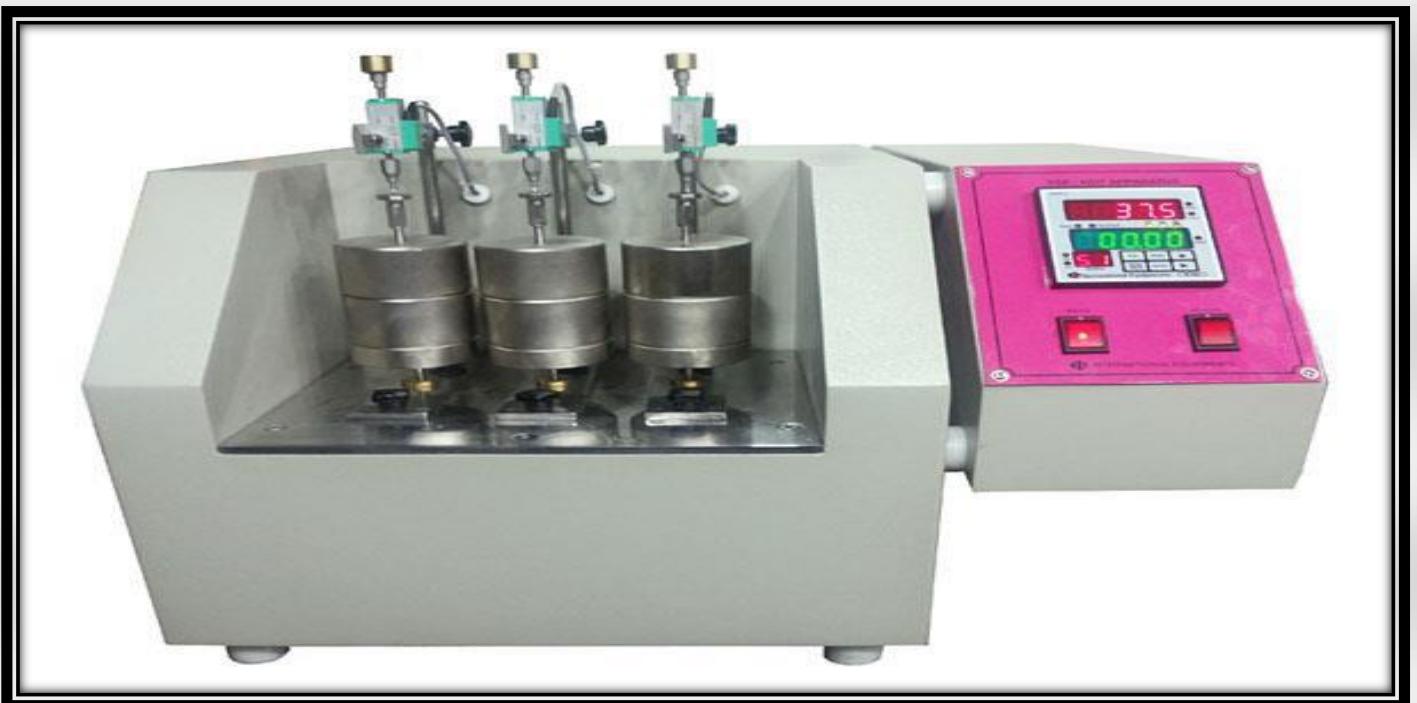
MUFFLE FURNACE



ABRASION TESTER



BLOWN FILM EXTRUSION



VSP/HDT APPARATUS

★ STUDENT CORNER ★

- List of Technical Paper Present

| Sr. No. | Name of the technical paper | Date of event | Name of the participant student | Faculty co-ordinator | Event location | Name of the event | Remark |
|---------|---|---------------|--|------------------------|---|-------------------|-----------------------|
| 1 | Effects of water absorption on mechanical properties of treated & untreated Sisal fibres reinforced | 09/04/22 | Vismay pujari , Rohini singh | Mr. Sachin Kamble | Pravin Patil college of diploma engineering & Technology, Bhayander, Thane. | “Pravinya 2022” | 1 st Price |
| 2 | Effects of water absorption on mechanical properties of treated & untreated Sisal fibres reinforced | 09/04/22 | Vismay pujari , Rohini singh, Umanandan singh. | Mr. Sachin Kamble | Shivajirao S. Jondhale Polytechnic Asangaon, Thane. | “Wings 2022” | |
| 3 | Plastic Waste Management | 09/04/22 | Krish Panchal, Bhavik Padhiyar | Mr. Navin Tembhurnikar | Pravin Patil college of diploma engineering & Technology, Bhayander, Thane. | “Pravinya 2022” | |



“Pravinya2022”

1st price in technical paper presentation



“WINGS 2022”

Participation in technical paper presentation



“Pravinya2022”

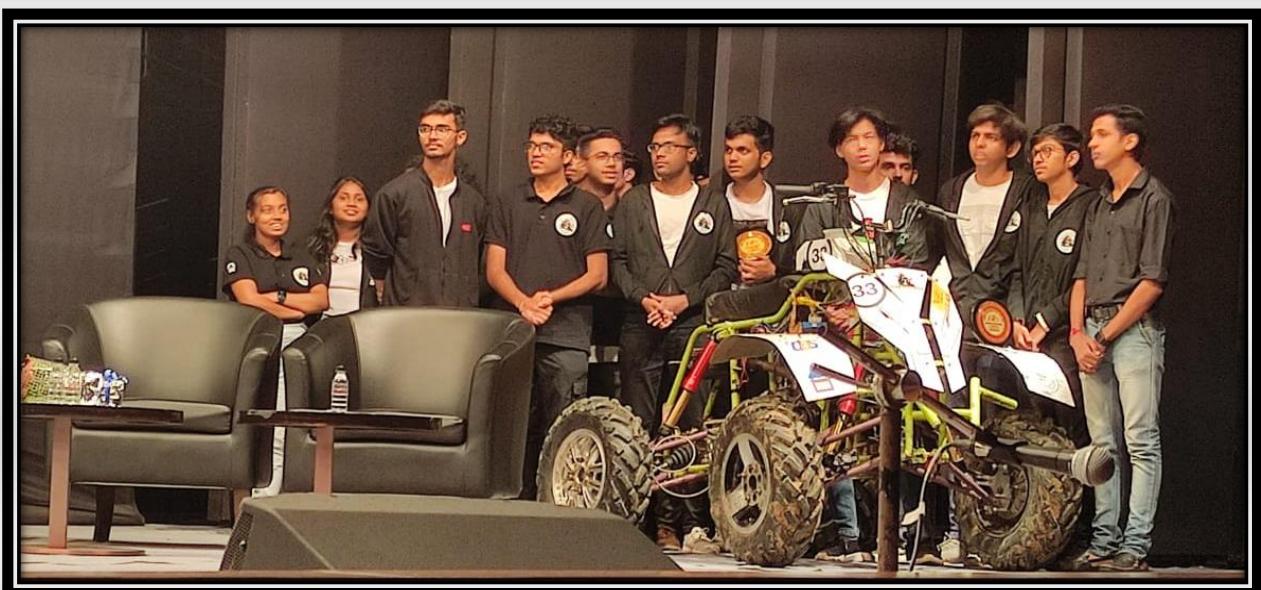
Participation in technical paper presentation

- **NATIONAL LEVEL QUAD BIKE COMPETITION**



The competition was organised by ISNEE Motorsports. We were the 4th rank and two awards we won.

1) Appreciation award 2) Surprise award (judges best choice award), since we were the only team from diploma engineering and rest all other teams were from 3rd & 4th year of degree.



• FESTUM



The Festum is an event organised every year by the SBMP faculty members. In this students participate and put the stalls of games and food. The judges visit every stall to see best three stalls for prize. Plastics Engineering Department won the best department prize in the year 2022 as well as best food and game stall.



PLASTVISION 2022 EXHIBITION in Goregaon NESCO exhibition centre



Aazadi ka amrit mahotsav on 15 august. Appreciation certificate of “POEM RECITATION”.

ANNUAL ELECTION



Every year election is held for the selection of Class Representative (CR), Subjective Class Representative (SCR), Ladies Representative (LR). Every students and the appropriate candidate for above mention post.

BLOGS

❖PLASTIC RESIDENCE TIME: CALCULATION & PROCESS.

From the specific plastic you are using your mould, temperature, material density, and the machine itself and its individual parts, there are a number of variables that can make or break the injection moulding process.

Processing time taking too long too short than recommended time can cause significant quality issues.

WHAT IS PLASTIC RESIDENCE TIME?

Plastic residence is the time that plastic or resin is subjected to heat during fabrication.

An injection system consists of hopper, barrel, reciprocating screw, injection nozzle. The shot size is the maximum amount of plastic injection mould that can be injected in one moulding cycle. Pellets are fed through hopper into the barrel and screw assemble. The pellets melt in barrel through conduction from the heater bands surrounding the barrel. The reciprocating screw compress, melts, and meters the material.

WHAT DOES AFFECT PLASTIC RESIDENCE TIME.

Plastic residence time affects part quality in several different ways:

- General weakness in parts produced
- Colour variation
- Degradation not visible to the eye
- An overall compromised product
- It can also impact machine performance, result in consistency in the melt quality and shot weight, as well as the melt temperature.

Formulas and tips to find your residence time calculation.

There are few different methods to calculating plastic residence time. Here are two different options to give you a better idea of the factors involved.

Calculation1:

Barrel size = $3.14 \times (\text{barrel radius})^2 \times (\text{barrel length})$

Screw size = $3.14 \times (\text{average root radius of the screw})^2 \times (\text{barrel length})$

Volume of the shot = Barrel volume – screw volume

Plastic residence time = No. of shots x cycle time

Calculation2:

Inventory = Shot capacity/1.05 x material density at room temperature.

Plastic residence time = Inventory/shot size x cycle time/60

❖ **BENEFITS OF DIMENSIONAL TESTING OF INJECTION MOULDED PARTS**

A coordinate measuring machine (CMM) is a device that measures the physical geometrical characteristics of an object and in our manufacturing application (plastic part). The device is often used in manufacturing process to qualify or test a part or against the design intent.

WHAT ARE THE BENEFITS OF CMM DIMENSIONAL TESTING?

- CMM's are unique technology that can save plastic injection moulding customers valuable time to market and cost.
- Increased measurement by staging multiple parts programming offline and less part orientations
- Increased accuracy on challenging part geometry
- More data points on complex curves, surfaces, and profiles that are common in the industries PCI serves.

❖ ETHANOL ALTERNATE FUEL OF FUTURE

Crude oil is a non-renewable resource having limited deposits and can be extinct in future.

As we know that rate of petrol is increasing day by day because of the high cost of import of crude oil, which is affecting Indian economy.

Thus, to overcome such a burning issue we can have a solution of ethanol.

Ethanol can be blended in maximum percent with petrol, along with those engines can be developed working fully on ethanol. Eventually the need to import of the crude oil will decrease considerably and the Indian economy will be saved. On the other hand, farmers will also earn some extra money from waste.

Cost of ethanol is less compared to the petrol and hence it will be proved more pocket friendly.

In addition, it adds an advantage of controlling air pollution, as it does not release carbon dioxide and any other pollutants into an environment.

Ethanol is a renewable fuel made from corn and other plant materials. The most common blend of ethanol is E10 (10% ethanol, 90% gasoline). Ethanol is also available as E85 (or flex fuel)—a high-level ethanol blend containing 51% to 83% ethanol.

Ethanol blending in India has reached more than 7.2%. In states such as Goa, Karnataka, Maharashtra, Gujarat, Uttar Pradesh, Haryana, Punjab, Delhi, Uttarakhand and Himachal Pradesh 9.5-10% of ethanol are blended with petrol.

In addition, putting the country on course to meet the target of 10% blending by 2022.

★ FACULTY CORNER ★



Mr. Navin Tembhurnikar

Optimisation of injection moulding parameters using Mould flow and Minitab.

The injection moulding is an important manufacturing process to polymers. Computer aided engineering has been successfully used in the simulation of the injection moulding process, since it provides visual and numerical feedback of the part behaviour & eliminates the traditional trial and error approach for optimization. The present work deals with minimizing moulding defects in three industrial injection moulded parts such as wheel, control panel & lever parts using Taguchi method followed by Analysis using Mouldx3D software, the injection moulding parameters for these parts were optimised using DOE & using Taguchi method. Desirability analysis function, S/N ratio and ANOVA using Minitab are used to reduce commonly occurring defects in these three industrial parts.



Mrs. Meghna Humbal

Natural Fiber Composite (NFC) is having many advantages like low density, and low cost. Also because of its environment-friendly nature, it is gaining popularity. NFCs are now being extensively used in everyday products, such as furniture, travel bags, and suitcases, automotives. They are also used extensively in the packaging, sports, and construction industries. The present work, deals with the effect of multi-wall carbon nanotube (MWCNT) and fiber reinforcement on Polypropylene composite. In this study, Flax fiber reinforced polypropylene composites along with MAPP is used as a coupling agent and (1 & 1.5% MWCNT) with different flax fiber loading (5,10,15,25%) were prepared by two roll mill. MAPP is used as a coupling agent to achieve better adhesion between matrix and filler materials. Strong adhesion between matrix and filler gives better strength to composites. Samples were prepared as per the ASTM by compression Moulding process. Tests were carried out for tensile strength, impact testing, and flexural. There is an increase in tensile strength, impact strength, and flexural strength with an increase in percentage of fiber loading.



Mr. Sachin Kamble

Effects of Alkali & Silane treatment on water absorption and mechanical properties of SISAL FIBRE Reinforced polyester composites.

The present work deals with the effect of water absorption on the mechanical properties of untreated, 10% alkali-treated, and 10% alkali plus 1% silane treated sisal fibers (5%, 10%, and 15%) reinforced polyester composites. Hand lay-up was used to create the composite. The samples were prepared in accordance with ASTM standards, and tests for tensile strength, flexural strength, impact strength, and water absorption were performed. An increase in the tensile, flexural and impact strength was observed with an increase in fibre loading for untreated, alkali-treated and alkali plus silane treated sisal fibre reinforced polyester composites without water absorption, the increase being maximum for 10% alkali plus 1% silane treated fibre composite. Water absorption reduces tensile strength while

increasing flexural and impact strength in untreated sisal fiber reinforced composites. There is an increase in tensile, flexural, and impact strength with higher fiber loading for 10% alkali-treated and 10% alkali-treated plus 1% silane treated sisal fiber reinforced polyester composites with and without water absorption. The tensile, flexural, and impact strength of alkali plus silane treated fiber is maximum at any given fiber loading, indicating that the alkali plus silane treatment is effective in improving the fiber matrix interface. Water absorption increases with fiber loading in untreated, 10% alkali-treated, and 10% alkali plus 1% silane treated sisal fiber reinforced polyester composites, with the rate being lowest in alkali plus silane treated fiber reinforced composites.



Mrs. Rameshwari Bawankar

This field of materials science has become particularly active and promising in creating eco-friendly and renewable composites. These polymers could be used in many fields like defence, aerospace, engineering applications, sports goods, etc. Silk fibres have superior crystallinity, toughness, and tensile strength to plant-based natural fibres. These silk fibre reinforced plastics had a greater range of mechanical properties than plant fibre reinforced epoxy composites. In this research work, Untreated waste silk fabric was used to reinforce epoxy and polyester bio-composites prepared via hand layup process and also analysis the mechanical properties of the composite. Silk fibre reinforced epoxy materials embody one such class of composites. In this regard, compared with the flax-represented plant fibres, the best-known fashion silk from silkworm *Bombyx mori* (*B. mori*) represents the only natural fibre which can be used as a continuous filament of fibrous protein. However, this strong and tough protein fibre may endow modern engineering composites with unprecedented mechanical properties suggested in several recent studies on silk-composites, but overall cost of composite will be higher than the other composites fibers; to overcome this problem, I strongly suggest waste silk fabric to prepare the composite.

INDUSTRY VISIT ORGANISED BY

DEPARTMENT



SUDEEP PLASTICS a well-known trusted name in plastic packaging industries since 20 years. It was a great experience to visit here we have seen many machines like different type of blow Moulding machine, injection Moulding machine. The different products of Sudeep Plastics are closure, caps, pimp, sprayers, cosmetic bottles. We came across multiple testing methods conducted on cosmetic packaging products. We studied about various parts of pump & its function.

It was a great opportunity provided by SBMP in terms of industrial experience and practical knowledge. We were grateful for this wonderful opportunity.



SOHONI Industry is a well known industry for plastic film packaging and sheet extrusion process. We have seen sheet extrusion process and film making process and film decorative processes. They have a UTM (Universal Testing Machine) for quality inspection of films and sheets.



HPC (Hygiene & Personal Care) is the company manufactures the cosmetic and personal care products. Different products such as Lotion hand wash, sanitizer spray, glassware cleaner. The section in HPC enterprises are manufacturing, research, testing lab, packaging cell.



ELLE ELECTRICALS PVT LTD. Is one of the leading manufacturer of domestic household electrical modular switches and accessories in INDIA.

Thorough processing injection Moulding machine as well as assembly of switches and sockets. Visit opened various insights regarding processing parameters, use of Mould temperature controller, importance of pre-drying.



POLYBLOW is the company which manufactures the automotive products like general motor products, component smart security system, and other products like lipstick base mould and spiral mould.



Industry visit at MAPEL MOULD & DIES PVT. LTD. It was a great experience towards the manufacturing of mould the process of mould making. We saw that firstly the raw material goes to CNC machine for size cutting and when CNC can't cut it moves to EDM section. EDM tool is made up of graphite or brass.



Industry visit and guest lecture at CEAT TYRES. Products like agriculture tyre, industrial tyre, port type tyre, machines like Banbury mixer, two roll mill and its type cracker mill, warmup mill and feed mill. Dome for rubber curing and inspection. Defects like thread separation, side wall lightness.



Industry visit at ICS (Integrated CAD CAM Solutions Pvt. Ltd.). They provide unique product designs & development solutions to entrepreneurs. It also provides realistic, innovative product design solutions by using in-house product designing, design engineering, tooling and Moulding facilities. And also they have production machine in-house. The products serve by industry are healthcare, appliances, furniture and automotive products.

GUEST LECTURE ORGANISED BY DEPARTMENT



The guest lecture on stress management by Naren Israney. It was a great pleasure that this lecture executed and we had a chance to learn the management of our daily stress. Sometimes the stress we have, its just because of our unnecessary illogical overthinking keep control on that can reduce our stress.



This session was on Developing Effective Public Speaking Skills by Nancy Shah. It was organized by the Entrepreneurship development programme for students and teachers of all the branch.



This guest lecture was on Carrier Opportunities in Plastic Engineering held at AIPMA`s academy by Ms. Ameya Jadhav. From this lecture we get an idea that how huge is our plastic industry and how to create opportunities and achieve success in this field in future. It was our great pleasure to attend this lecture and feel proud to be a plastic engineering that how people are dependent on plastic in modern society.



Guest lecture on his success story of entrepreneurship by Siddharth Mehta, MD Jayco Safety Product PVT LTD. He had done his degree of Plastic & Polymer engineering from Aurangabad Institute. He started from the point of building your own value. He elaborated his story of research and development during his study and also how he scales up his father with help of his education.



Guest lecture on Samarpay Dhyan Ek Yoga System by Mr. Shri Krishna Shevale. It was a refreshing and energetic session. He taught us various yoga exercises. Yoga is like magic it improves us overall. It improves strength balance and flexibility as well as slow moments and deep breathing increase blood, which relax our mind and reduce our stress. Daily practicing it develops a great sense of self-discipline and self-awareness. It improves our well-being and gives a better mental clarity.

Session on: WORKSHOP ON 3D PRINTING AND PRODUCT DESIGN

Organized by:

Plastics Engineering Department

Speaker:

Satish Desai

Director, DEZYN3D System pvt. Ltd.

Date:- 12th November 2022

Workshop on 3D Printing. They shared their knowledge with us that how 3D printing is effective and useful for various other industries to make prototypes for the upcoming projects. They showed the scanner which helps to scan complex objects which can be easily designed in detail and 3D printed. There are mainly 3 types of 3D printers 1.) Stereolithographic (SLA) 2.) Selective Laser Sintering (SLS) 3.) Fused Deposition Modelling.

ALUMNI REUNION



ALUMNI REUNION held at 15th September 2022 on the occasion of “ENGINEERS DAY”. Respected Principal Sir welcome alumni. They shared their journey experience with us to motivate and empower our skills to be an entrepreneur.

MULTITECH 2023



MULTITECH is the event where the entrepreneurs of the passout batch of SBMP. They put stall of their company and showcase their products and services. From plastic branch 5 stalls were registered
1.) Jayco Safety Products PVT. LTD. By Siddharth Mehta. 2.) Dezyn3D System PVT. LTD. By Satish Desai. 3.) Enjay Dies and Moulds by Nitin Sawardekar. 4.) HPC enterprise PVT. LTD. By Malay Sanghavi. 5.) Omkar Enterprises.

ALUMNI REUNION

HELD AT 13TH FEBRUARY 2023



CURRENT FINAL YEAR BATCH



INPLANT TRAINING LIST

INPLANT TRAINING V SEM

Period -2022-23

NO OF STUDENTS - 23

NO. OF GIRLS - 06

NO. OF BOYS - 17

NO. OF COMPANIES - 14

NO. OF SUPERVISORS - 4

Period: 18th July 2022 to 08th Jan 2023

| SR. NO. | NAME OF SUPERVISOR | NO. OF COMPANIES | NO. OF STUDENTS |
|--------------------|-----------------------------------|-----------------------------|----------------------------|
| 1 | MR. SACHIN A KAMBLE (SAK) | 3 | 3 |
| 2 | MRS. RAMESHWARI BAWANKAR (RMB) | 4 | 10 |
| 3 | MR. NAVIN TEMBHURNIKAR (NNT) | 3 | 3 |
| 4 | MRS. MEGHNA HUMBAL (MPH) | 4 | 7 |

| SR. NO. | NAME OF THE COMPANY | PLACE | NO. OF STUDENTS | STAFF |
|--------------------|--------------------------------|--------------|----------------------------|--------------|
| 1 | SARVOTTAM POLYMERS | VASAI | 2 | RMB |
| 2 | RAUT ENGINEERING | KANDIVALI | 2 | MPH |
| 3 | MUTUAL PLASTICS | VASAI | 4 | RMB |
| 4 | ELLE ELECTRICALS | GOREGAON | 3 | MPH |
| 5 | VIJAYA ENGG WORKS | ANDHERI | 1 | NNT |
| 6 | AJ AUTO | ANDHERI | 1 | NNT |
| 7 | SHUBHADA POLYMERS | New Bombay | 1 | SAK |
| 8 | R.R.PLASTICS | ASANGAON | 1 | NNT |
| 9 | NEAT CONCEPT | GOREGAON | 1 | SAK |
| 10 | NOBTECH ENTERPRISES | KANDIVALI | 1 | MPH |
| 11 | POLYBLOW INDUSTRIES | GOREGAON | 1 | MPH |
| 12 | CEAT TYRES | THANE | 1 | SAK |
| 13 | Myco industries | Andheri | 2 | RMB |
| 14 | Enjay Dies and Moulds | Vasai | 2 | RMB |

JOB PLACEMENT

Department of PLASTIC ENGINEERING

Company wise appeared Student's list

Academic Year 2021-2022

| Sr. No. | Name of appeared student | Name of Industry |
|----------------|---------------------------------|--------------------------|
| 1. | Lakhan Ramesh Kure | Nobtech Enterprise |
| 2. | Mohammad Hazma Abrar Ansari | Denzyn3D System Ltd.. |
| 3. | Rohini Mahendra Singh | Denzyn3D System Ltd.. |
| 4. | Aniket Jignesh Patel | Aniket consultants |
| 5. | Avinash Parasnath Vishwakarma | Ganesha Plastics |
| 6. | Suraj Kallu Gupta | SVP Packaging Ltd. |
| 7. | Kavita Shantaram Gawai | ARaymond India Pvt. Ltd. |
| 8. | Gayatri Dattatray Jagdale | ARaymond India Pvt. Ltd. |
| 9. | Mohd. Rehan Javed Shaikh | Ceesham Industry |
| 10. | Gurfan Javed Shaikh | Harman pvt. Ltd. |

ALUMNI SUCCESS STORY



Mr. Prashant Bhaskar Vairagi

Senior Deputy General Manager

Schneider Electric India Pvt. Ltd.

Batch: Diploma in Plastic Engineering
(1985)

Email: Prashant.vairagi@LNTEBG.com

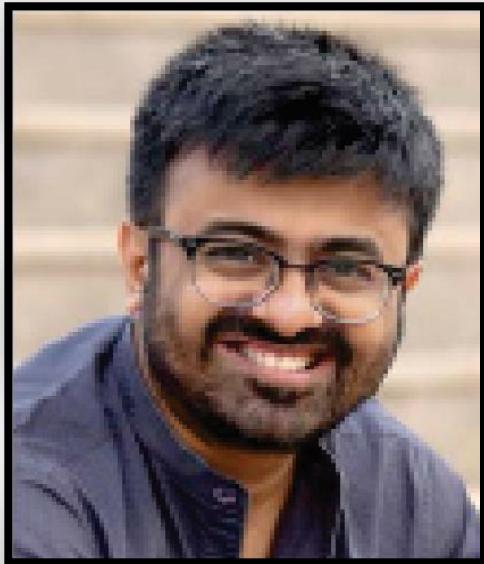
Being a proud alumni of Shri Bhagubhai Mafatlal Polytechnic, Vile Parle (West), I want to say that It was my father's vision for me to do Plastics Engineering in this esteemed institution. After 12th Technical, I did my diploma in Plastics Engineering in 1985 with distinction. Having affinity for Organic Chemistry and Mathematics and guided by enthusiastic teaching faculties, I never realized when I became passionate about my branch of Plastics Engineering. Even after so many years, I still remember the golden days of college life in SBMP. Having got admitted directly in the third year, along with four other students who joined the first day of college, we have already lost one month because of the admission process. With the fear of failure and parent's expectations from me. I studied so hard that I stood third in that semester. Now for me it has become a minimum benchmark. And with this I never turned back in terms of hard work and success. With this experience, I clearly understood that intelligence, sincerity with focused hard work is key to achieve any goal in life. Here, I must say that not only me, but all my college mates of Plastics Engineering are fortunate to have HOD Professor E. Narayanan. Besides taking lectures, he could influence top industry faculties as guest lecturers like Mr. Zaveri from Polychem, Mr. Dorairaj from PIL, and Mr. Waghe from Caprihance who imparted practical knowledge to us with their vast experience. My regards to SBMP lecturers

Design, Mould Design, Processing, Testing, Machine Maintenance. With the demand of nature of business and very much relevance to branch of engineering, started acquiring theoretical and practical knowledge in all polymer segments like Thermoplastics, Thermoset Engineering Polymers, Rubber / Elastomers, Varnish/Enamels, Wax, Grease and all other composite materials and ingredients. While adding technical skills, I refined my Communication skill, Presentation skill and developed leadership skills with structured management programme. I can proudly say that even after the completion of more than 35 years working experience, I am still considering myself as a student and continue learning while delivering required output.

My journey after SBMP was equally difficult, I started my career as Mould Designer in M/s. Mutual Industries where I took my last 8th semester in plant training. It was possible with my ability to grasp new things and opportunities available at that time. After that I got an opportunity to work as a Factory Manager in an upcoming small-scale industry M/s. Varun Industries. I have accepted that challenge where I got immense experience right from selecting the machineries, installing them, recruiting people, setting assembly lines, simulating setups, mould making and so on. I worked restlessly with passion by continuously doing new things. With this experience of five years including later on an exposure as Mould Maintenance in charge in medium-scale industry, Production Manager experience in a small scale unit, I could get an opportunity to work with Indian multinational company 'Larsen & Toubro Ltd.'. This was my fifth company to make a new beginning. With this I clearly learned that internship is a must to acquire knowledge and experience of various fields to make bigger decisions which can impact many factors of work. If it happens to be from a different organization, different products facets, and different people then nothing like it. I can say my destiny has given me this vivid experience, which I have accepted as a challenge to prove my worth without keeping any opportunity unaddressed. Then I joined the Switchgear Process Development (SPD) department with the responsibility of cost savings objectives with Man, Machine and Material. With an organized and disciplined way of working in L&T, I acquired fundamental knowledge of materials and working systems. My liking towards organic chemistry and the foundation laid by SBM Polytechnic made me easy to grasp and make command of my subject of Plastics Engineering. With the performing excellence, I consider myself fortunate to be picked up among few others to work in the R & D department of Electrical & Electronics Business of

L&T. I got nurtured and added lot of values other than huge technical experience. Ability to get into details, getting the work done, source development, leadership qualities is few of them. I got tremendous opportunities to learn. Biggest takeaway of my tenure in L&T is freedom of work and learning from failures of self and others. Always treat failure as an opportunity to prove your worth. With my vast knowledge and experience, my organization gave me opportunity to make 'Plastics Design Guidelines' a guide / book of 841 pages as a part of system for R&D for designing the Switchgear Products. It covers basics in Plastics Product Design, Plastics Materials selection, Plastics Assembly features, Plastics Colour_selection, Plastics Mould Design aspects, Plastics Process capabilities for achieving excellence in product performance. I feel pride to lead the team in compiling the huge knowledge base which became a reference document forever. My biggest learning here is the importance of documentation, which anyways I was a strong believer. As human memory can become a limitation at times, it is important to document finer aspects with data which can help reducing failures in future and eventually save lot of money and time. Even now sometimes I do refer to it to facilitate decisions.

For My achievement and contribution, I have been awarded with the Silver Trophy as an honour of completion of 30 years of dedicated service, in 2012 Plastic on Award Winner- Won Silver Trophy in Innovative Plastics Product Design. Presently working as Senior Deputy General Manager. Recently the entire L&T Switchgear business transferred to Schneider Electric (France), a global leader in Electrical & Electronics. For me it is again a new beginning and opportunities. I want to conclude my story with some success mantras: ONE *Cultivate habit for learning forever*, TWO *Think differently, be innovative and in your work*. THREE, *Always take opportunities to solve problems / issues*, FOUR *Be physically and mentally fit for maintaining a high energy level*.



Mr. Sandeep Modi

Director, Film -Advertising Maker, National
Film Award Winner

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I grew up in the bustling suburbs of Malad, as an absolute simple kid with even simpler ambitions. “*Maybe I'll be a Software engineer and settle abroad in a good job*”, I remember myself wondering aloud. That was probably a best-case scenario. And even that felt huge. Little did I know how much my life would change when I stepped into the world of SBM Polytechnic and that too to study a very unique engineering specialization- Plastics Engineering.

We sometimes forget that education and vocation are truly two distinct things and the burden of both being the same is a weight we sometimes unnecessarily put on our education choice. Over the next four years, engineering became my education and helped me find my true vocation - which in this case was 'Cinema'.

I am so blessed that I spent my formative years studying engineering and made the closest friends who made this young teen learn to dream big and be brave enough to chase them. The analytical skills my engineering education imbibed in me has held me in good stead. After SBM Polytechnic's Diploma, I declined the opportunity to study engineering abroad and instead went on to study B. Sc. In Information Technology while I pursued performing arts by the side and then went

on to study film making at the prestigious Film and Television Institute of India, Pune. I must confess the germ of pursuing arts too started at SBM Polytechnic, having performed a play at the Drama Day that won me the Best Actor.

After thirteen years, having worked with filmmakers like Ashutosh Gowariker, Rakesh Omprakash Mehra, Ram Gopal Verma, being an associate director on *Neerja* with Ram Madhvani, directing national and internationally acclaimed Marathi film '*Chumbak*' that was Akshay Kumar's first presented Marathi film, co-creating and directing the popular web show '*Aarya*' and a National Film Award from the Hon. Pranav Mukharji , President of India for my work, I can only indebted to my alma matter, SBM Polytechnic, for nurturing this young mind and giving it the wings to fly.