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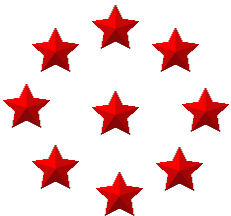
From Principal's Desk...

Welcome to the 2023-24 edition of our newsletter! This year has been remarkable for our Institute of Polytechnic. Our students have excelled academically, achieving outstanding results in their examinations. They have also made us proud by winning various state-level and national-level competitions, showcasing their talents and dedication. In-house college competitions have further highlighted their skills and creativity. Our faculty members have contributed significantly to research and innovation, bringing pride to our institution.

We have also made strides in overall development, enhancing our infrastructure and learning environment. The artistic development of our students has been equally impressive, with numerous cultural events and activities enriching their educational experience. Additionally, our students have demonstrated exceptional leadership and teamwork in various projects and initiatives. I am confident that we will continue to achieve greater heights together. Let's embrace the new academic year with enthusiasm and a commitment to excellence.

- Dr. Rajendra Narkhede

✉ principal_iot@bkc.met.edu
☎ 7507776781

Institute Vision :

To give emphasis and focus on the development of competent technocrats to accept need based challenges with a sense of social responsibility.

Institute Mission :

1. To incorporate the educational programme, from basic engineering to emerging trends.
2. To establish standards of education to meet the requirements of Technology and Industry.
3. To make continuous efforts to inculcate the sense of social responsibilities among students.

Azure Cloud And Application

Resource Person: Miss. Nikita Phadol.
Spanish Point Technologies, Ireland.

Glimpses of Guest Lectures
Renewable Energy

Resource Person Mr. Akshay Gangurade
Director of Aksol renewables Pvt Ltd

Soft Skills and Personality Development

Resource Person- Mr. Pranav Kumar
Director, Let's Speak Institute of Personality
Development and soft skills

Entrepreneurship Development with AI

Mr. Smit Sachin Oswal
Innovative Entrepreneur -Innovation Engine

Emergency Disaster Response Training

Workshop for Polytechnic Students on Fire Safety

Seminar on " Emerging Trends in Automotive Industry

Objectives of Workshop:
• To understand, aware and explore the emerging trends of an automobile industry.
• To know the potential of trends in automobile technologies and their features.

Plumbing & Career Opportunities as a Plumbing Engineer

Mr. Shrihari Gangal Industrial Plumbing Contractor - R.B. Gangal & Company

Guest Lecture on **"AI AND ML FUTURE OF TECHNOLOGY"**
Resource Person - Ms. Jyoti Labhade,
Senior Consultant Team Lead Pwc Mumbai | **Date- 1st November 2023**
Beneficiaries - All Third Year Students

Enhancing Career Opportunities and Skill Development : Major Job Drives and International Data Science Workshop Led by the Training and Placement Cell under the Guidance of Dr. Rajendra Narkhede, Principal

Under the guidance of Dr. Rajendra Narkhede, Principal, in 2023, as Training and Placement Officer, We have successfully orchestrated three major job drives and organized an international-level Data Science workshop, significantly enhancing career opportunities and skill development for students across the Nashik region.

1. Government of Maharashtra Skills, Employment, Entrepreneurship, and Innovation Department Employment Exchange Mega Drive

The first drive, held in collaboration with the Employment Exchange, Nashik, featured 35 companies offering a total of 3,500 vacancies across the Nashik region. This event targeted students from 10th grade to postgraduates and attracted over 1,000 participants. The drive was a resounding success, with 420 offer letters issued, providing substantial employment opportunities for students.

2. Female Special Drive

Following the initial success, a dedicated Female Special Drive was organized, focusing on creating job opportunities for female students. With 14 companies participating, the event saw an impressive turnout of over 800 girls. This initiative resulted in more than 200 offer letters being distributed, demonstrating a strong commitment to empowering women in the workforce.

3. Diploma Students Drive

The final drive targeted diploma students, featuring five companies offering tailored opportunities for their skill set. Attended by over 200 students, the drive resulted in more than 48 offer letters being issued. This event underscored the increasing value of diploma qualifications in the job market and provided critical career prospects for attendees.

4. International-Level Data Science Workshop

In collaboration with AICTE, the MET Polytechnic Training & Placement Cell organized an international-level Data Science workshop for the Nashik region. This workshop saw enrollment from over 450 students, providing them with cutting-edge knowledge and skills in the growing field of Data Science.

For further information or queries, please contact Anil Gosavi at anilg_iot@bkc.met.edu 02532555910.

Student Achievements

• Several students have achieved notable placements with impressive packages over the last two years, reflecting the success of these drives

• Two students reached the final round for an offer of 8 LPA at Amazon, which would have been the highest package secured in the last two years, showcasing the high level of talent and preparation facilitated by the Training and Placement Cell.

Anil R Gosavi
Training & Placement officer

MET's Institute of Technology Polytechnic

Training & Placement cell

Top Diploma Placements: Celebrating Record-Breaking Packages in 2023 & 2024

Congratulations to the selected students on their impressive achievement and successful path toward promising careers!

Anil Gosavi — Training and Placement officer

Dr Rajendra Narkhede — Principal

• Rushikesh Kale, Suyash More, Sakshi Nikam, Mihir Vanmali, and Jatil Jadhav received offers from Worley in Mumbai, each with a package of 5 LPA.

• Ayushi Kulkarni and Sagreeraj Kadam secured positions at L&T Hydrocarbon in Vadodara with a package of 4.2 LPA.

• Ayush Vishwakarma secured a position at Daikin India with a package of 4.2 LPA.

• Neel Gujrathi was placed at Manasvi Technology in Nashik with a package of 3.75 LPA.

• Wipro Pari offered a package of 3.75 LPA to another successful candidate.

Congratulations

Meritorious students of Winter 2023 Exam

S.No.	Name of Student	Branch	Class	Percentage	Rank
1	Waghale Vishakha Ravindra	CE	TYCE	87.5%	1
2	Khairnar Hemangi Bharat			86%	2
3	Sutar Swati Somnath			84.60%	3
4	Boraste Rucha Yogesh	CO	TYCO	90.55	1
5	Khandvi Bhagyashree Dilip			88.11	2
6	Ahire Janhvi Vijay			88	3
7	Vadnere Suraj Vinod	IF	TYIF	89.53%	1
8	Paritosh Ranjeet Sandhan			88.35%	2
9	Desale Jayesh Ravindra			87.53%	3
10	Kharate Monali Balu	EE	TYEE	88.7%	1
11	Nimse Mahindra Appa			86.5%	2
12	Pure Yash Somnath			83.3%	3
13	Saste Shubham Ratan	ME	TYME	86.74	1
14	Sanap Dhanashri Pralhad			86.48	2
15	Kapadi Nikhil Kuldeep			85.71	3

Meritorious students of Summer 2024 Exam

S.No.	Name of Student	Branch	Class	Percentage	Rank
1	Waghale Vishakha Ravindra	CE	TYCE-A	85.05%	1
2	Khairnar Hemangi Bharat			83.21%	2
3	Sutar Swati Somnath			81.95%	3
4	Boraste Rucha Yogesh	CO	TYCO	93.53	1
5	Gujarathi Neel Mayur			93.41	2
6	Ahire Janhvi Vijay			92	3
7	Suraj Vinod Vadnere	IF	TYIF	91.06%	1
8	Pratikb Deep Girkar			89.56%	2
9	Paritosh Ranjeet Sandhan			88.81%	3
10	Monali Kharate	EE	TYEE	88.83%	1
11	Mahendra Nimse			86.00%	2
12	Kalpesh Paithankar			84.50%	3
13	Sanap Dhanashri Pralhad	ME	TYME	93.00	1
14	Kapade Nikhil Kuldeep			88.11	2
15	Saste Shubham Ratan			86.22	3

MET's Institute of Technology Polytechnic
DEPARTMENT OF CIVIL ENGINEERING
Congratulations
Third Year Diploma in Civil Engineering
MSBTE summer – 2024 Theory Examination

Vishakha Waghale — TYCE (AY 2023-2024) — Rank 1 — 85.05 %
Hemang iKhairnar — TYCE (AY 2023-2024) — Rank 2 — 83.21 %
Swati Sutar — TYCE (AY 2023-2024) — Rank 1 — 81.95 %

MET's Institute of Technology Polytechnic
Congratulations
To All Third Year Information Technology Toppers

Suraj Vinod Vadnere — TYIF Rank 1 — 91.06 %
Pratik Deep Girkar — TYIF Rank 2 — 89.56 %
Paritosh Ranjeet Sandhan — TYIF Rank 3 — 88.81 %

MET's Institute of Technology Polytechnic
Congratulations
List of Toppers –MSBTE S-2024 Examination
(Third Year Mechanical Engineering)- AY 2023-24

Dhanashri Sanap — Rank 1 — TYME - 89.49 %
Nikhil Kapade — Rank 2 — TYME - 87.18 %
Shubham Saste — Rank 3 — TYME - 86.51 %

MET's Institute of Technology Polytechnic
DEPARTMENT OF COMPUTER ENGINEERING
Heartiest Congratulations
List of Toppers - MSBTE S-2024 Examination
(Third Year Computer Engineering) - AY: 2023 - 24

Rucha Boraste — Rank 1 — TYCO - 91.94%
Neel Gujarathi — Rank 2 — TYCO - 90.23%
Janhvi Ahire — Rank 3 — TYCO - 89.94%

MET's Institute of Technology Polytechnic
DEPARTMENT OF ELECTRICAL ENGINEERING
Heartiest Congratulations
To all the Third and Second Year Toppers
of MSBTE Summer-2024 Examination

Monali kharate — Rank 1 — TYEE - 88.83 % (Aggregate)
Mahendra Nimse — Rank 2 — TYEE – 86.00 % (Aggregate)
Kalpesh Paithankar — Rank 3 — TYEE - 84.50% (Aggregate)

MET'S INSTITUTE OF TECHNOLOGY (POLYTECHNIC)
Received
"EXCELLENT" RATING
In External Institute Academic Monitoring of MSBTE
AY 2023-24 (Institute Code : 0776)

Name / Address: MET's Institute of Technology-Polytechnic Bhujbal Knowledge City, Adgaon, Nashik.

DEPARTMENT WISE RATING

Sr.No.	Course Code	Name of Course	Department Rating
1	CE	Civil Engineering	Excellent
2	ME	Mechanical Engineering	Excellent
3	EE	Electrical Engineering	Excellent
4	IF	Information Technology	Excellent
5	CO	Computer Engineering	Excellent

For Admission Enquries, Contact
Dr. R.S. Narkhede (Principal)

Prof Nilesh Sonawane 9309595619
Prof Sanjeev Patil 9890743319
Prof Gorakh Parbhane 9922688648
Prof Amol Vadnere 9423927650
Prof Bhagyashree Dhande 9011025007
Prof Umesh Pathak 9850274436

MET's Institute of Technology Polytechnic
Congratulations
List of Toppers - MSBTE S-2024 Examination
First Year Diploma in Engineering - AY : 2023 - 24

Gavit Bhagyashree Suresh — FYCE — 86.56%
Malode Shreya Sunil — FYCO — 88.47%
Krina Vadadoriya — FYEE — 81.88%
Sneha Sanjay Gaikwad — FYIF — 91.41%
Torpe Tanish Jitendra — FYME -1 — 93.11%

INDUSTRIAL VISITS

Visit at BAAP Company, Sangamner, Ahmednagar. The objective of this was to enhance practical knowledge of students in software field

Students of TYIF at BAAP Company

Visit at IIT Mumbai

Visit at Popular Switchgears Pvt.Ltd.

Visit at Popular Switchgears Pvt.Ltd.

Students of Electrical Engineering at PSPL

Visit at Supreme Industries Ambad, Nashik.

Students of CSD (B.Tech) at Supreme Industries

Visit at Substructure Construction site at bhagvati nagar, panchavati,Nashik

Students of Civil Engineering at Construction Site

THE DIGITAL GAME

1.There is a number, the second digit of which is smaller than its first digit by 4, and if the number was divided by the digits sum, the quotient would be 7.Can you find the number?

Supernova Water jet Cutting Systems, Trupti Engineering and RK Industries

Department of Mechanical Engineering

Ashoka Biogreen Plant" Nashik

Department of Mechanical Engineering

Industrial Visit At Sumago Infotech

Department of Computer Engineering

Industrial Visit At Profound

Department of Computer Engineering

Visit at Hydro Power plant, Ghatghar, Thane

Department of Electrical Engineering

Industrial visit to Giant Metrewave Radio Telescope (GMRT),

FE BTech and SECE students

SQUARES AND RIGHT ANGLES

2. Can you make 2 squares and 4 right angled triangles using only eight straight lines?

State level Paper Presentation Competition — MET FUTURE TECH 2024

MET'S INSTITUTE OF TECHNOLOGY (P)-B. TECH.

WOMEN EMPOWERMENT CELL

Celebrates

International Women's Day

Guest

Prof. Dr. Mrs. Mrunal Bhardwaj

Vice Principal, Professor and Head, PG Department of Psychology and Researchcentre Loknete Vyanktrao Hiray Arts Science and commerce College Nasik

7 MARCH, 2024 THURSDAY | **Time** 10:30 Am | **Venue : IOTP Seminar Hall**

Prof. Gauri Sonawanae
Event Coordinator

Prof. Sujata Avhad
Women Empowerment Cell coordinator

Dr. R. S. Narkhede
Principal

MET Bhujbal Knowledge City

CAREER FAIR for Diploma Final year Girls students

MET'S INSTITUTE OF TECHNOLOGY (POLYTECHNIC)
DEPARTMENT OF TRAINING & PLACEMENT

कौशल्य, रोजगार, उद्योजकता आणि नाविन्यता विभाग, महाराष्ट्र

जिल्हा कौशल्य विकास, रोजगार व उद्योजकता मार्गदर्शन केंद्र, मॉडेल करिअर सेंटर, नाशिक आणि मुंबई एज्युकेशन ट्रस्ट संचलित भुजबळ नॉलेज सिटी, नाशिक यांचे संयुक्त विद्यमाने आयोजित

पं. दीनदयाळ उपाध्याय

महिलांसाठी विशेष – रोजगार मेळावा

On Spot Job Interviews

1) नामांकित उद्योग / कंपन्यांमध्ये विविध पदांकरिता दहावी पास, बारावी, ग्रॅज्युएट, डिप्लोमा, आयटीआय, व. सर्व प्रकारच्या शैक्षणिक पात्रता धारक महिला उमेदवारांसाठी नोकरीच्या संधी उपलब्ध.

स्थळ :
MET भुजबळ नॉलेज सिटी महाविद्यालय, आडगाव शिवार, आडगाव नाशिक
बुधवार, दिनांक 21/02/2024 वेळ : सकाळी 10.00 वा.

ना. मंगल प्रभात लोढा
मंत्री, कौशल्य विकास, रोजगार, उद्योजकता व नाविन्यता

मा. समीर भुजबळ
विश्वस्त : मुंबई एज्युकेशन ट्रस्ट

Anil Gosavi, Training & Placement Officer
Dr. Rajendra Narkhede, Principal

MET Bhujbal Knowledge City
Adgaon, Nashik - 422003

INSTITUTE OF TECHNOLOGY POLYTECHNIC

मराठी भाषा संवर्धन पंधरवडा 28 /1/2024

भुजबळ नॉलेज सिटी मुंबई एज्युकेशन ट्रस्ट संचलित तंत्रनिकेतन महाविद्यालया मध्ये १४ जानेवारी ते २८ जानेवारी २०२४ रोजी "मराठी भाषा संवर्धन पंधरवडा " साजरा करण्यात आला. या पंधरवडा मध्ये ग्रंथालय विभागात "मराठी साहित्याचे ग्रंथ प्रदर्शन","मराठी साहित्या संबंधी पुस्तकांचे रसग्रहण" तसेच "मराठी हस्ताक्षर लेखन" आणि "मराठी भाषा संवर्धन व जागृती प्रश्नमंजुषा हि उपक्रम राबविण्यात आले, सदर उपक्रमांचे उद्घाटन माननीय प्राचार्य डॉ.राजेंद्र नारखेडे सर यांच्या हस्ते करण्यात आले.

मराठी भाषा दिन27/2/24

मेट इन्स्टीट्युट ऑफ टेक्नॉलॉजी पॉलीटेक्निक,भुजबळ नॉलेज सिटी येथे दि. २७ फेब्रुवारी २०२४ रोजी ज्ञानपीठ पुरस्कार विजेते ज्येष्ठ मराठी साहित्यिक "कुसुमाग्रज" उर्फ श्री वि.वा.शिरवाडकर यांच्या जन्मदिवस "मराठी भाषा दिन"म्हणून साजरा करण्यात आला .

तसेच महाविद्यालयीन विद्यार्थ्यांनमध्ये सदर दिवशी मराठी भाषा व सांस्कृतिक विविधता जोपासणे आणि त्या बाबत जागरुकता निर्माण करणे या निमित्ताने, वाचकांमध्ये आकलन व तर्क शक्ती वाढावी, सकारात्मक विचार व दृष्टी निर्माण व्हावी. वाचन संस्कृती विद्यार्थांमध्ये रुजवावी ,या मुख्य उद्देशयाने प्रख्यात अभिनेते सचिन देशपांडे यांच्याशी मराठी साहित्यिक श्री.स्वानंद बेदरकर यांनी "माझी मराठी...माझा अभिमान" या विषयावर संवाद सादण्यात आला.

वाचन प्रेरणा दिन 2023

माजी राष्ट्रपती भारतरत्न स्व.डॉ.ए. पी.जे अब्दुल कलाम यांचा दिनांक १५ ऑक्टोबर हा जन्मदिन "वाचन प्रेरणा दिन" म्हणून साजरा केला. त्या निमित्ताने मराठी साहित्याचे ग्रंथ प्रदर्शन ,वाचन कट्टा तसेच डॉ. ए.पी.जे. अब्दुल कलाम यांचा जीवनपट आयोजित केला होता .त्या प्रसंगी उपस्तीत प्राचार्य डॉ.राजेंद्र नारखेडे सर तसेच शिक्षक, ग्रंथपाल ,शिक्षकेतर कर्मचारी व विद्यार्थ्या.

Congratulations

MET'S INSTITUTE OF TECHNOLOGY (P)-B. TECH.

Department of Civil and Environmental Engineering

Congratulations

Dr Rajendra Narkhede
(Principal)

For Receiving Grant of Indian Patent Design
from The Office of Patent, Govt of India
On

Concrete Mixer for the Production of Concrete

Best Wishes from Management, Teaching &
Non Teaching Staff and MET BKC Family

MET Bhujbal Knowledge City

ADGAON, NASHIK - 422 003 | GOVARDHAN, NASHIK - 422 222
+91 7264063555 | +91 9881100099 | (0253) 2200300, 2200302 www.metbkc.edu.in

Congratulations

Dr.Vijay Chhaburao Rahane, being Awarded Ph.D.

Title of Thesis: "A Study on Website of University Libraries in Maharashtra State"
University: Rai University, Ahmedabad.

List of Staff who have successfully completed SWAYAM NPTEL COURSES

Sr. No	Name of Staff	Dept.	Name of NPTEL Course
1	Anuradha V Gupta	B.Tech-Science	Basic Linear Algebra
2	Mitravinda A Sonnis	Poly-Applied Science	Soft Skill Development
3	Sunil A Mandore	Poly-Mechanical	Engineering Graphics and Design
4	Anumeha Lal	Poly- IF	Internet of Things
5	Sandeep Kholambe	Poly-CO	Programming in Java
6	Priyanka B. Khairnar	Poly-CO	The Joy of Computing using Python
7	Jyoti B. Mhaske	Poly-CO	The Joy of Computing using Python
8	A. P. Vadnere	Poly - ME	Innovation by Design
9	Prof.M.S.Pawar	Btech-Science	Concept in Magnetism And Superconductivity
10	Prof.M.S.Pawar	Btech-Science	Mathematical Method in Physics 1
11	Prof.A.S. Patil	Btech-Science	Basics in Inorganic Chemistry

List of Students (Jan – Apr 24)

Sr. No	Name of Student	Dept.	Name of NPTEL Course
1	Vaishnavi Sunil Pawar	Students of Computer Engineering	Data Base Management System
2	Om Dipak Gatkal		Programming in Java
3	Abhinav Kandekar		Introduction to Programming in C
4	Pradnyesh Balkrushna Kotkar		Programming in Java
5	Abhinanadan Vijay Salunke		Programming in Java
6	Vinay Sugandh Bhadane		Programming in Java
7	Shubham Ganesh Sonawane		Programming in Java
8	Mr. Kapadi Nikhil Kuldeep	Students of Mechanical Engineering	Product Design and Development
9	Atharva Sarjerao Mogal		Mechanical Measurement System
10	Pratik Dnyaneshwar Rumane		Mechanical Measurement System
11	Supriya Balu Jadhav		Mechanical Measurement System
12	Sanika Pradip Shinde		Mechanical Measurement System
13	Unnati Sandip Shinde		Mechanical Measurement System
14	Shravani Balasaheb Chavanke		Mechanical Measurement System
15	Darshan Vithathal Mate		Mechanical Measurement System
16	Vikram Lakshman Karad		Mechanical Measurement System
17	Girish Sachin Kale		Mechanical Measurement System
18	Sarthak Pramod Aher		Mechanical Measurement System
19	Sarthak Sanjay Daware		Mechanical Measurement System
20	Prasad Anil Patil		Mechanical Measurement System
21	Shubham Vijay Khairnar		Mechanical Measurement System
22	Varad Tanaji Pawar		Mechanical Measurement System
23	Pranav Ashok Shintre		Mechanical Measurement System
24	Akshay Thube		Mechanical Measurement System
25	Harsh Tuplonde		Mechanical Measurement System
26	Nikhil Kapade Kuldeep		Mechanical Measurement System
27	Sanap Dhanshri Pralhad		Mechanical Measurement System

STUDENTS/STAFF SPEAK

Information Security

In our digital world, protecting information is more important than ever. Information security means keeping data safe from unauthorized access, changes, or theft. This ensures that data is confidential, accurate, and available when needed. One key way to protect information is using Multi-Factor Authentication (MFA). MFA requires more than one method of verification to access data, making it harder for unauthorized users to get in.

Phishing attacks are another big threat. These attacks trick people into giving away their personal information through fake emails or websites. Educating people on how to spot these scams is crucial. Data encryption is a must. It scrambles data so only someone with the right key can read it. This keeps data safe even if it's intercepted. With more people working from home, new security challenges arise. Using Virtual Private Networks (VPNs), keeping software up to date, and having strong passwords help secure remote work. Regular security checks and testing are important to find and fix weaknesses before they can be exploited by hackers. In short, protecting information involves staying alert, educating users, and using the best security practices to keep data safe from cyber threats.

Pratik Ravasaheb Thete - SYIF

"Modern Techniques used in web page designing"

The latest trends in web page design are crucial for creating modern, engaging, and functional websites. I would like to highlight some recent trends and topics on web design:

1. AI and Automation in Web Design

Generative Design : Use of AI tools to create custom designs based on user input or preferences.

Chatbots and Virtual Assistants : Integration of AI-driven tools to enhance user interaction and support.

2. Responsive and Adaptive Design

Mobile-First Approach : Designing websites with a focus on mobile users before scaling up to larger screens.

Fluid Layouts and Responsive Images : Techniques for creating flexible designs that adapt to various screen sizes and resolutions.

3. User Experience (UX) and User Interface (UI) Innovations

Micro interactions: Subtle animations and feedback mechanisms that enhance user engagement.

Dark Mode : Designing interfaces with an option for a dark theme to reduce eye strain and save battery life.

4. Minimalism and Simplified Design

Content Focus : Emphasis on clear and concise content with minimal distractions.

Whitespace Usage : Effective use of whitespace to improve readability and aesthetics.

5. Accessibility and Inclusivity

Web Content Accessibility Guidelines (WCAG) Compliance: Ensuring websites are accessible to users with disabilities.

Inclusive Design Practices : Designing with diverse user needs and contexts in mind.

6. Performance Optimization

Fast Load Times : Techniques for reducing page load times, such as image optimization and lazy loading.

Progressive Web Apps (PWAs) : Enhancements for offline functionality and improved performance.

7. Motion Design and Animations

CSS and JavaScript Animations : Use of animations to create dynamic and engaging user experiences.

Scroll-based Animations : Animations triggered by user scroll actions to enhance storytelling and interaction.

8. Voice User Interfaces (VUIs)

Voice Search Optimization : Designing for voice search and integrating voice commands into web applications.

Voice Interaction Design : Creating interfaces that support voice interactions and commands.

9. Data Privacy and Security

Secure Web Practices : Incorporating SSL certificates, data encryption, and other security measures.

Privacy by Design : Designing with user privacy in mind, including clear privacy policies and consent management.

10. Design Systems and Component Libraries

Design Systems : Creating reusable components and guidelines to ensure consistency across web projects.

Component Libraries : Use of pre-built components to speed up the development process and maintain uniformity.

Chetan S. Mogare

THE FAULTY MACHINE

3. A factory manufacturing flywheels for racing cars has ten machines to make them. The manufacturer knows the correct weight for a flywheel.

However one of the machines begins to produce faulty parts – either overweight or underweight.

How can the manufacturer find the faulty machines in only two weighings?

जागतिक वसुंधरा दिन

आपल्या सर्वांना म्हणजे समस्त भूचर आणि स्थावर यांना धारण करण्याऱ्या ह्या वसुंधरेला माझा नमस्कार. धरा, धरित्री, भूमि, वसुंधरा, पृथ्वी इत्यादी अनेक नावे आणि प्रातः नित्य जीची वंदना करतो ती धरणी माता.

समुद्रवसने देवी पर्वतस्तन मंडले।
विष्णुपत्नी नमस्तुभ्यं पादस्पर्श क्षमस्वमे॥

ह्या वसुंधरेशिवाय जीव सृष्टीची कल्पनाच करता येणार नाही. साऱ्या जीवांची माता - प्रकृती. ह्याच प्रकृतीची प्रतिमुर्ती, साकार मूर्ती ही धरित्री. हीच वृक्ष, झाडे, झुडपे, पिके ह्यांना रुजविणारी, वाढविणारी, त्यांचे पालन पोषण करणारी, त्यांना धरून ठेवणारी धरिणी.

ह्याच वनस्पतींमुळे बाकी सर्व जीवांना अन्न, धान्य, भाज्या, फळे, कंदमुळे, औषधी, सावली आणि नाना प्रकारच्या उपयोगी वस्तूंची उपलब्धि. हीच समुद्र वलयांकित पृथ्वी; हीच भूमी पर्वत, नद्या, तलाव आणि जलप्रपात यांची आश्रयदात्री. ही धरित्री, वसुंधरा! संवत्सरक्रमण करीत सूर्याभोवती प्रदक्षिणा करणारी. ह्या सर्वांची परिणीती ऋतूचक्र. ह्या ऋतूचक्राचा परिणाम म्हणजे पाऊस, पाणी, पिके आणि पुनः जीवांचे भरणपोषण. वर्षे वर्षे वर्षानुवर्षे अविरत चालणारे हे चक्र आणि यांस कारणीभूत आणि अधिछात्री कोण? तर ही वसुंधरा!

आज २२ एप्रिल म्हणजेच जागतिक वसुंधरा दिवस. एक वार्षिक कार्यक्रम! दर वर्षी पृथ्वीवरील वातावरणाची, निसर्गाची आणि मनुष्येतर जीवसृष्टीची रक्षा करण्यासाठी साजरा होणारा दिवस आणि मनुष्य (बुद्धीने, मनाने, आणि भावनेने सर्वांत प्रगल्भ) म्हणून आपले ह्या सर्वांप्रति जे रक्षणाचे, पालनाचे आणि संवर्धनाचे कर्तव्य आहे याची आठवण, जाणीव आणि ते कर्तव्य वहन करण्याची उमेद भरणारा हा दिवस

ह्या पृथ्वीवरील वनस्पतीसृष्टी, वातावरण आणि इतर प्राकृतिक संरचना यांच्या प्रति रक्षणभाव जागृत करण्याचा दिवस. ह्याच्या रक्षणाताच मानव समाजाचे कल्याण आहे हा निश्चय करण्याचा दिवस. संपूर्ण संवत्सर ह्याच जाणिवेने वागण्यासाठी प्रेरित करणारा दिवस.

जर आपण ह्या सर्वांचे रक्षण, पोषण आणि संवर्धन केले तर आणि तरच सारी मनुष्य जमात सुखाने जगू शकेन, प्रगती करू शकेन, सारे व्यवहार करू शकेन आणि उन्नत होऊ शकेन ह्या गोष्टींचे पुनः पुनः स्मरण करण्याचा दिवस.

मी तुम्हा सर्वांना जागतिक वसुंधरा दिवसाच्या अनेकानेक शुभेच्छा देतो आणि अशी अपेक्षा करतो की आपण सर्वे आपले कर्तव्य जागरूकतेने वहन करूयात जेणे करून जो आपला मूलभूत अधिकार आहे स्वच्छ आणि स्वस्थ वातावरणाचा त्याचेच रक्षण होऊ शकेन!

-प्रा. श्री. अमित प्रदीप भुसे
नासिक, भारतीय सौर
दिनांक २२ एप्रिल २०२४,
चैत्र शु चतुर्दशी, सोमवार,
शके १९४६

BUG BOUNTY

In today's digital world, security is Paramount. As companies increasingly rely on software and online platforms, the need to safeguard. These systems from vulnerabilities are more critical than ever. This is where bug bounty programs come into play was. But what exactly bug bounty is...

A Bug Bounty is a program where companies and Organizations offer rewards to individuals who find and report bugs or vulnerabilities in their software, websites, or system.

The main goal is to Discover and fix these issues before malicious hackers can exploit them. Participants in these programs are often referred to as "Ethical Hackers" or "Security Researchers".Bug bounty programs represent a proactive approach to 'cyber security'.

A Real-world example is considering a popular social media platform that launches a bug bounty program. A security researcher discovers a serious vulnerability that could allow unauthorized access to user accounts. they report this finding to the company through the bug bounty program. The company quickly verifies and fixes the issue, preventing potential misuse. In recognition of the researcher's contribution, the company awards them a significant cash prize and acknowledges their efforts publicly.

Ishwari Sachin Durgude - (SY-IF)

Sustainable Engineering: The Need of the Hour

Introduction

In the face of growing environmental concerns and the urgent need to address climate change, sustainability has become a critical focus in all sectors, including engineering. Sustainable engineering refers to the design, development, and implementation of technologies and practices that minimize environmental impact, conserve resources, and promote long-term ecological balance. As the global community grapples with the consequences of industrialization and resource depletion, sustainable engineering emerges as a vital pathway to ensure a healthier planet and a better quality of life for future generations. This article delves into the importance of sustainability in engineering practices, explores how students can integrate sustainability into their projects and careers, and highlights notable examples of sustainable engineering solutions from around the world.

The Importance of Sustainability in Engineering Practices
1. Addressing Climate Change

Engineering practices have historically contributed significantly to greenhouse gas emissions and environmental degradation. The construction of infrastructure, manufacturing processes, and energy production are key areas where sustainability must be prioritized. Sustainable engineering practices aim to reduce carbon footprints by employing energy-efficient technologies, utilizing renewable energy sources, and designing systems that minimize emissions. By addressing climate change through sustainable practices, engineers can contribute to global efforts to mitigate its effects and adapt to its consequences.

2. Resource Conservation

The efficient use of resources is a cornerstone of sustainable engineering. Traditional engineering approaches often lead to the overexploitation of natural resources, resulting in scarcity and environmental harm. Sustainable engineering emphasizes the use of materials that are renewable, recyclable, or have a lower environmental impact. For example, engineers can design products with longer lifecycles, implement recycling programs, and select sustainable materials such as bamboo or recycled metals. Resource conservation not only helps protect the environment but also reduces costs and promotes economic sustainability.

3. Reducing Waste and Pollution

Waste generation and pollution are significant issues associated with traditional engineering practices. Sustainable engineering seeks to minimize waste through techniques such as waste reduction, recycling, and reuse. Additionally, engineers are increasingly focusing on designing products and processes that produce minimal environmental pollutants. Techniques like life cycle assessment (LCA) allow engineers to evaluate the environmental impact of a product from its creation to its disposal, ensuring that waste and pollution are kept to a minimum.

4. Enhancing Social Responsibility

Sustainable engineering extends beyond environmental concerns to include social and ethical dimensions. Engineers have a responsibility to consider the well-being of communities affected by their projects. This involves ensuring that engineering solutions do not disproportionately impact vulnerable populations, promoting fair labor practices, and engaging with communities to address their needs and concerns. By integrating social responsibility into their practices, engineers can contribute to more equitable and just societies.

5. Promoting Economic Efficiency

Sustainable engineering is not just about environmental and social benefits; it also offers economic advantages. Energy-efficient technologies and resource-efficient processes often lead to cost savings over time. For instance, investing in renewable energy sources can reduce long-term energy costs, and designing for durability can decrease maintenance and replacement expenses. Sustainable engineering practices can thus provide a competitive edge and promote long-term financial viability for businesses and organizations.

Incorporating Sustainability into Projects and Future Careers

1. Designing with Sustainability in Mind

Students and future engineers can integrate sustainability into their projects by adopting eco-friendly design principles. This involves selecting materials with low environmental impact, optimizing energy use, and considering the entire lifecycle of the project. For example, designing buildings with passive solar heating, efficient insulation, and energy-saving appliances can significantly reduce energy consumption and environmental impact. By making sustainability a fundamental aspect of design, engineers can create solutions that align with ecological and societal goals.

2. Embracing Renewable Energy

The use of renewable energy sources is a key component of sustainable engineering. Students should familiarize themselves with various renewable energy technologies, such as solar panels, wind turbines, and geothermal systems.

Incorporating these technologies into projects can demonstrate a commitment to reducing reliance on fossil fuels and lowering carbon emissions. Additionally, understanding the benefits and limitations of renewable energy sources equips students to make informed decisions about energy use in their future careers.

3. Implementing Green Manufacturing Practices

Green manufacturing practices focus on minimizing environmental impact during the production process. Students can explore techniques such as reducing material waste, improving energy efficiency, and using environmentally friendly production methods. By incorporating green manufacturing principles into their projects, students can contribute to more sustainable industrial practices and promote the development of products that are both economically and environmentally viable.

4. Participating in Sustainability Initiatives

Engaging in sustainability initiatives and organizations can provide valuable experience and insights into sustainable engineering practices. Students can participate in sustainability-focused student organizations, attend conferences, and collaborate on research projects related to environmental issues. These activities offer opportunities to learn from experts, network with professionals, and contribute to meaningful projects that address real-world sustainability challenges.

5. Advocating for Sustainable Practices

Advocacy plays a crucial role in advancing sustainability in engineering. Students and future engineers should advocate for sustainable practices within their academic institutions, workplaces, and communities. This can involve promoting sustainability in project proposals, encouraging the adoption of green technologies, and raising awareness about environmental issues. By being proactive advocates, engineers can help drive the broader adoption of sustainable practices and policies.

Examples of Sustainable Engineering Solutions around the World

1. The Eden Project (UK)

The Eden Project, located in Cornwall, England, is a striking example of sustainable engineering. This biomes-based ecological park features two large geodesic domes that house diverse plant species from different climates. The project emphasizes sustainability through its use of recycled materials, energy-efficient systems, and sustainable water management. The Eden Project serves as an educational resource, demonstrating innovative approaches to environmental conservation and sustainable design.

2. Masdar City (UAE)

Masdar City in Abu Dhabi is a pioneering example of a sustainable urban development.

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Designed to be a zero-carbon, zero-waste city, Masdar City incorporates renewable energy sources, such as solar power, and advanced energy-efficient technologies. The city features sustainable transportation systems, green building practices, and smart grid technologies. Masdar City represents a bold vision for the future of urban living, showcasing how sustainable engineering can create eco-friendly and technologically advanced communities.

3. The Bullitt Center (USA)

The Bullitt Center, located in Seattle, Washington, is known as the "Greenest Commercial Building in the World." It is designed to meet the rigorous standards of the Living Building Challenge, which includes net-zero energy, water, and waste. The building incorporates solar panels, rainwater harvesting systems, and energy-efficient design elements to achieve its sustainability goals. The Bullitt Center serves as a model for sustainable commercial architecture, demonstrating how innovative design can lead to significant environmental benefits.

4. Holland's Floating Solar Farms

In the Netherlands, floating solar farms have emerged as a creative solution to land scarcity and water management. These solar panels, installed on bodies of water such as lakes and reservoirs, provide a sustainable source of renewable energy while reducing the land required for traditional solar farms. Floating solar farms also help to cool the water, which can improve the efficiency of the solar panels. This innovative approach highlights the potential of integrating renewable energy solutions with water management strategies.

### 5. Toyota's Hydrogen Fuel Cell Vehicles

Toyota has been at the forefront of developing hydrogen fuel cell vehicles, which offer a sustainable alternative to traditional gasoline-powered cars. Hydrogen fuel cells produce electricity through a chemical reaction between hydrogen and oxygen, emitting only water vapor as a byproduct. Toyota's hydrogen-powered vehicles, such as the Mirai, represent a significant advancement in clean transportation technology. By promoting the use of hydrogen fuel cells, Toyota is contributing to a reduction in greenhouse gas emissions and advancing the adoption of sustainable automotive solutions.

Conclusion

Sustainable engineering is not merely a trend but a necessary evolution in response to the pressing environmental and social challenges of our time. By prioritizing sustainability in engineering practices, we can address climate change, conserve resources, reduce waste, and enhance social responsibility. For students and future engineers, incorporating sustainability into projects and careers is both a professional obligation and an opportunity to drive meaningful change.

As we move forward, the integration of sustainable practices into engineering will be crucial in shaping a world that thrives both environmentally and economically.

Prajakta Ghodke - TYCO
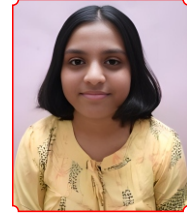
The Importance of Automation in Modern Industry
Introduction

In today's fast-paced and ever-evolving world, automation stands as a cornerstone of industrial efficiency and innovation. From manufacturing floors to service industries, automation is reshaping the way businesses operate, driving productivity, and fostering economic growth. This article delves into the significance of automation, exploring its benefits, challenges, and future implications

Enhancing Productivity and Efficiency - One of the most prominent advantages of automation is its ability to significantly boost productivity and operational efficiency. Automated systems can perform repetitive tasks with high precision and speed, minimizing human error and increasing output.

Reducing Costs- While the initial investment in automation technology can be substantial, the long-term savings are often considerable. Automation reduces the need for manual labor, which translates into lower labor costs and fewer human resources required for routine tasks.

Improving Quality and Consistency - Automation ensures a high level of consistency and quality in production processes. Unlike human workers, automated systems do not suffer from fatigue or variability in performance. This reliability translates into products with uniform quality, fewer defects, and enhanced customer satisfaction.

Enabling Innovation - Automation also paves the way for innovation by freeing up human resources from monotonous tasks and allowing them to focus on more complex and creative endeavors. By integrating automation, companies can explore new technologies and business models, driving growth and staying competitive.

Future Outlook - The future of automation is promising, with ongoing advancements in technology poised to drive further changes in industry practices. The integration of artificial intelligence, robotics, and the Internet of Things (IoT) is expected to lead to more sophisticated and adaptable automated systems. As automation continues to evolve, its role in shaping the future of work and industry will become increasingly central.

Amol B. Deore Mechanical Dept.

Student Achievements

Paper Presentation held at MET BKC IOTP

First Prize: Chavan Smiti & Ahire Janhavi

Third Year student of Computer Engineering, Jay Lawate & Swyam Gosavi, won Second place in the state-level paper presentation competition on 19/3/24 at Shree Mahaveer Polytechnic, Nashik.

Ms.Chaitanya Marathe, Ms.Snehal Shelar Students of TYIF won 2nd Prize in Paper Presentation organized by MSBTE Mumbai In co-ordination with Govt. Polytechnic Jalgaon

Ms.Vedika Vazare Student of SYIF won 2nd Prize in Logo Design competition, State Level Tech CARNIVAL 2K24 organized by SNJB's, Shri. H. H. J. B. Polytechnic, Chandwad

Second Year student of Computer Engineering, Miss. Manjiri Gholap won first place in the state-level paper presentation competition on 16/3/24 at K. K. Wagh Polytechnic in Nashik.

Students of Polytechnic- winners in sports

Third-year student of Computer Engineering designed Online Quiz Competition for the School Student of Karmaveer Ganpat Dada More Janta Vidyalay, Pimpalgon Baswant, Niphad, Nashik.

Third-year student of Computer Engineering designed Online Quiz Competition for the School Student of Karmaveer Ganpat Dada More Janta Vidyalay, Pimpalgon Baswant, Niphad, Nashik.

Third Year student of Information Technology Amit Singh got second prize in 200meter Running of IEDSA competition 2023-24

Winner of IEDSSA E2 Zonal 2023-24

Pawar Harshal (Civil Engineering)	in 800 mtrs Relay and 4 x 100 mtrs Relay
Om More and Prasad Mate (Civil Engineering)	Kabbadi

MET RATNA 2023

Mihir Prasad – Student of Computer Engineering

4. Sudoku Puzzle

6			7	4	1			
	2			9		7		
	7	8	3		5	4		
	5				7			
3		9		5				
2	9			7		8		
		7	1		4	5	3	
	1		9			6		
							8	

REST...!

I Will take A rest, I say a little rest, but spring, is not for a movement. All the cracks in the joints, Spend the whole day in it.

When will the clear sky be mine, the moonlight will be visible.The tide will come to my ocean, wait for that day my heart will see.

Will give awatan to my love ones weather the day comes or not. My life in the scorching sun, Shaya will meet happiness or not.. Shadow Will meet happiness or not...

- Anushka Rahul Rajput - FYCO

Sharvari Kachole - SYCO   **Vaishnavi Kulkarni -TYIF**   **Sakshi Rinjad – FYIF**

Vaishnavi Pawar - SYCO

And you...as well

I walk on the streets,
Under the grove of blossoming trees.
The scent of flowers
with a crisp breeze.

Accompanied by the stars and the trickling of my beating heart...

And you - more so your memory did as well.

- Bhavik D.Pawar-TYCO

Aakash Daund – SYIF

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With passion, we move and talk.

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Together we rise, strong and free,
At MET, we shape destiny.

Our future bright, a guiding light,
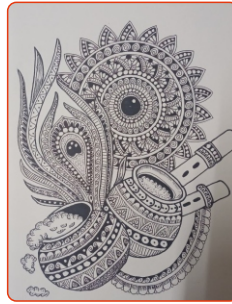In Bhujbal's city, we find our might.

The Dawn

Gentle rays of golden light
strays through the woolen curtians.
Tenderly falls onto the blankets
where delicately rests the youngling.
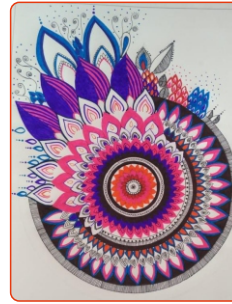
Fragile breaths that fill the room.

Into a moment of chaos
A brief intermission from peace
That rises from the junior.

- Bhavik D.Pawar-TYCO

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क्र.	अभ्यासक्रमाचे नाव	प्रवेश क्षमता
1	सिव्हिल इंजिनिअरींग (Civil)	१२०
2	मेकॅनिकल इंजिनिअरींग (Mechanical)	९०
3	इलेक्ट्रिकल इंजिनिअरींग (Electrical)	६०
4	कॉम्प्युटर इंजिनिअरींग (Computer)	६०
5	इन्फॉर्मेशन टेक्नॉलॉजी इंजिनिअरींग (Information Technology)	६०

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डॉ. राजेंद्र नारखेडे, प्राचार्य. (+९१ ९८५०८४५३५१)

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थेट द्वितीय वर्ष पदविका (डिप्लोमा) अभियांत्रिकी प्रवेश

१२ वी नंतर डिप्लोमाचे फायदे
१) AICTE मान्यताप्राप्त अभियांत्रिकी पदविका अभ्यासक्रम
२) इंजिनिअरींगसाठीचा पायाभूत अभ्यासक्रम डिप्लोमातच पूर्ण, त्यामुळे इंजिनिअरींगचा अभ्यासक्रम सोपा तसेच थेट द्वितीय वर्षात प्रवेश पात्र व एकूण लागणारा कालावधी सारखाच.
३) फक्त इंजिनिअरींग पेशा (डिप्लोमा इंजिनिअरिंगला) विशेष प्राधान्य.
४) डिप्लोमा (२ वर्षांनंतर) तात्काळ विविध खाजगी व सरकारी क्षेत्रांमध्ये रोजगाराच्या संधी उपलब्ध
५) डिप्लोमानंतर स्वतःचा व्यवसाय सुरु करण्याची संधी

प्रवेशानंतरची शिष्यवृत्ती :
1. SC, ST, NT and VJ categories-100% scholarships
2. OBC category-50% scholarship
3. EBC category-income upto 8.0 Lakhs-50% scholarship.

प्रवेशासाठी आवश्यक कागदपत्रे :
दहावीचे व बारावीचे मार्कशीट
(12th Science - PCM/PCMB Marksheet)
(12th MCVC/Technical/Bifocal Marksheet)
२) ITI, COE, NCTVT ऑल सेमिस्टर मार्कशीट
३) जातीचा दाखला (SC, ST, OBC, VJ. DT. NT, SBC, EWS)
४) जात पडताळणी प्रमाणपत्र (ST)
५) नॉन क्रिमीलेअर (OBC, NT, SBC)
६) उत्पन्नाचा दाखला
७) शाळा सोडल्याचा दाखला
८) डोमासाईल + नॅशनॅलिटी प्रमाणपत्र
९) पासपोर्ट साईज फोटो

एम ई टी तंत्रनिकेतनच का?
१) उच्च गुणवत्तापूर्ण शिक्षण पद्धती
२) उच्च शिक्षित, अनुभवी व संपूर्ण समर्पित शिक्षक वर्ग
३) अत्याधुनिक उपकरणांनी सुसज्ज प्रयोगशाळा
४) औद्योगिक क्षेत्रातील भेटी आणि विविध विषयात पारंगत व्याख्यात्यांची व्याख्याने
५) व्यक्तिमत्व विकास
६) नामांकित कंपन्यांमध्ये अभ्यासक्रम निहाय प्रशिक्षणासाठी संधी
७) जागतिक दर्जाचे शिक्षण संकुल
८) मुले व मुलींसाठी स्वतंत्र वसतीगृह आणि वाहतूक व्यवस्था
९) इंटरनेट व वायफाय सुविधा
१०) सुसज्ज कॅन्टीन सुविधा
११) भव्य खेळाचे मैदान, जिमखाना व क्रीडा संकूल (Sports stadium)
१२) विद्यार्थ्यांसाठी Music Room
१३) दरवर्षी संस्थेतील पदविका उत्तीर्ण विद्यार्थ्यांना प्रतिष्ठित अभियांत्रिकी महाविद्यालयात प्रवेश मिळतो.
१४) संस्थेतील उत्तीर्ण विद्यार्थी विविध शासकीय तसेच देश विदेशातील नामांकित कंपन्यांमध्ये उच्च पदावर कार्यरत.

उपलब्ध कोर्सेस

क्र.	अभ्यासक्रमाचे नाव
1	सिव्हिल इंजिनिअरींग (Civil)
2	मेकॅनिकल इंजिनिअरींग (Mechanical)
3	इलेक्ट्रिकल इंजिनिअरींग (Electrical)
4	कॉम्प्युटर इंजिनिअरींग (Computer)
5	इन्फॉर्मेशन टेक्नॉलॉजी इंजिनिअरींग (Information Technology)

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4 Income Certificate
5 Non Creamy layer (OBC/NT/SBC/VJ) 6 10 Mark sheet, 12" Mark sheet
7 Leaving Certificate
8 Mark sheet Entrance Exam (JEE/CET) & Hall Ticket
9 Entrance Exam Application Form
10 Aadhar linked Nationalized Bank Acc. Passbook
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