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THE MET LEAGUE OF COLLEGES

MET
AS SHARP AS YOU CAN GET

POLYTECHNIC

Congratulations 10th/12th
Passed Students &**Heartily Welcome**

at

MET-Polytechnic

to impart

Quality Education in
the Field of Engineering &
Technology

Inside

- Admission Process & CAP
- Student's Outstanding Projects
- Faculty Views
- Student's Achievements
- Farewell Function Polytechnic
- Campus Placement

**From Principal's Desk...**

I feel extremely happy and privileged to welcome to the MET-Polytechnic, Bhujbal Knowledge City, Adgaon, Nashik which has been established in the year 2006 with a vision to achieve global excellence in polytechnic academics and technical education.

Polytechnic diploma education plays an important role in the development and progress of not only society but the entire world.

MET-Polytechnic offers Six(6) full time Engineering diploma courses viz Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Engineering, Information Technology and E&TC Engineering. Similarly Three(3) courses namely (viz) as Civil, Mechanical and Electrical Engineering all courses are under second shift affiliated to MSBTE, Mumbai & approved by AICTE and DTE.

MET-Polytechnic campus is technically vibrant with lot of activities throughout the year supported by MSBTE, various professional societies and organisations.

Also, we provide great opportunities for students to work together in student clubs and teams. These include robot competitions, solar car racing, PCB design, various technical and personality development workshops and many others.

Immediately at the outset of their career in diploma Engineering, students are assigned a faculty member as a "Mentor" who serves as their primary academic adviser. These faculty advisers answer course-related questions and help our students to navigate through their chosen course of study. In addition to the valuable guidance supplied in this manner, the MET-Polytechnic believes that our students could also benefit from a complementary form of career support offered through our talented and loyal alumni network.

MET-Polytechnic is fortunate to have an experienced and skilled faculty who all desire to see our students succeed academically. This dynamic group of educators is preparing for another exceptional year 2017-18.

Let me assure you that MET-Polytechnic will provide with the best combination of the skills and knowledge(not neglecting the attitude) to succeed in chosen career field and will equip the students with professional acumen that will help you to meet the challenges of modern industrial and service work environment.

I extend best wishes to all students for an exciting, rewarding and stimulating three years of MSBTE diploma course on this campus and a bright future thereafter.

- Prof. R. S. Narkhede,
Principal,
M.: 7507776781

Mumbai Educational Trust**Our Vision**

To shape professionals, to conquer the present and future challenges to the socio-economic fabric of our society, by institutionalizing search, development, research and dissemination of relevant knowledge through structured learning systems

Our Mission

To evolve, develop and deliver dynamic learning systems to equip professionals with conscience and commitment to excellence and courage to face business challenges.

Our Inspiration

Mahatma Jyotiba Phule (1827 - 1890) Shrimati Savitribai Phule (1831 - 1897)

विद्येविना मती गेली । मतीविना नीती गेली ।
नीतीविना गती गेली । गतीविना वित्त गेले ॥
वित्ताविना शुद्ध खचले ।

इतके अनर्थ एका अविद्येने केले ॥

Lack of knowledge leads to indiscretion; Indiscretion leads to lack of ethics. Lack of ethics leads to absence of direction and momentum; Absence of direction and momentum results in bankruptcy. Such is the HAVOC caused by the lack of knowledge.

- Mahatma Jyotiba Phule

Our Faith

न चौर हार्यम् नव राज हार्यम् ।
न भातृभाज्यम् नच भारकारी ॥
व्यये कृते वर्धते एव नित्यम् ।
विद्याधनं सर्वधन प्रधानम् ॥

Knowledge can neither be stolen by a thief, nor snatched by a king. It is indivisible unlike ancestral property, it never burden the bearer, it multiplies manifold when offered to others. Knowledge is the supreme form of wealth.

प्रवेश प्रक्रिया (CAP)

तंत्रनिकेतन अभ्यासक्रमांच्या प्रथम वर्ष प्रवेशासाठी आयोजिण्यात येणाऱ्या केंद्रीय प्रवेश प्रक्रियेमध्ये (कॅप) विद्यार्थ्यांना यंदाही 'फ्रीज', 'फ्लोट' आणि 'स्लाइड' हे पर्याय उपलब्ध असणार आहेत. विद्यार्थ्यांना त्यांच्या पसंतीचे कॉलेज मिळण्याचा पर्याय अखेरपर्यंत उपलब्ध राहावा, या उद्देशाने गेल्या वर्षीपासून ही नवी व्यवस्था सुरु करण्यात आली आहे.

राज्याच्या तंत्रशिक्षण संचालनालयाने (डीटीई) पदवी, पदविका आणि पदव्युत्तर तंत्रशिक्षण अभ्यासक्रमांच्या प्रवेश प्रक्रियेचा तपशील नुकताच जाहीर केला आहे. त्यामध्ये 'कॅप'च्या फेऱ्या कशा असतील, याचा तपशीलवार उल्लेख आहे. विद्यार्थ्यांना आपल्या पसंतीनुसार तंत्रनिकेतनचे क्रम भरता येतील आणि त्याचबरोबर फ्रीज, फ्लोट, स्लाइड हे पर्याय वापरून त्यातल्या त्यात सर्वोत्तम प्राधान्याचे कॉलेज मिळविण्याचा प्रयत्न करता येईल.

'डीटीई'ने वेबसाइटवर दिलेल्या माहितीनुसार, 'विद्यार्थ्यांना 'कॅप'च्या फेरीत त्यांच्या पसंतीची जागा मिळाल्याने त्यांनी ती स्वीकारली आणि त्यांना पुढच्या फेरीत जायचे नसेल, तर ते 'फ्रीज' हा पर्याय स्वीकारू शकतात. 'स्लाइड' हा पर्याय वापरून विद्यार्थ्यांना ज्या कॉलेजात प्रवेश मिळाला आहे, त्या कॉलेजातील त्यांच्या पसंतीच्या एखाद्या अभ्यासक्रमाची जागा नंतर उपलब्ध झाली, तर त्या जागेवर प्रवेश घेण्याची मुभा मिळू शकते. 'फ्लोट' हा पर्याय वापरून विद्यार्थ्यांना ज्या कॉलेजात प्रवेश मिळाला आहे, त्या व्यतिरिक्त त्यांच्या पसंतीच्या अन्य कॉलेजात जागा उपलब्ध झाल्यास त्यावर प्रवेश घेण्याची मुभा मिळू शकते. मात्र, ज्या विद्यार्थ्यांना त्यांच्या पहिल्या पसंतीचे कॉलेज मिळेल, त्यांना 'स्लाइड' आणि 'फ्लोट' हे पर्याय घेण्याची मुभा राहणार नाही. या संदर्भात अधिक माहिती DTE ची अधिकृत वेबसाईट व एम.ई.टी. पॉलिटेक्निक सुविधा केंद्र (FC), नाशिक येथे उपलब्ध आहे.

(प्रथम वर्ष प्रवेश : www.dtemaharashtra.gov.in/poly2017)

(थेट द्वितीय वर्ष प्रवेश : www.dtemaharashtra.gov.in/dsd2017)

Admissions for First Year Diploma in Technology - Polytechnic 2017-18

List of Documents Required for Admission

- 1) 8th and 9th Marksheet / Proforma Z
- 2) Income Certificate
- 3) Nationality /Birth Certificate
- 4) Caste Certificate
- 5) Non-Creamy Layer Certificate
(Valid upto 31st March 2018)
- 6) Aadhar Card
- 7) SSC Marksheet
- 8) School Leaving Certificate

Unique Features of MET's Polytechnic

- Strong Academics & Qualified, Experienced Faculty
- World Class Infrastructure
- Hi-tech Laboratories and advanced library having more than 100,000 books.
- Wi-fi Connectivity
- Central canteen
- Advanced Gym with Trainers
- Training & Placement Cell
- Hostel Facility
- Transport facility.
- Entrepreneurship Development Cell
- Individual Counselling and Mentoring for career and overall growth.

Contact :

Prof. A. V. Kokate : +91 9922558965 Prof. M. G. Gokhale : +91 8380087670
Prof. B. S. Dhande : +91 9011025007 Prof. S. S. Avhad : +91 9421989147

Institute Details

• **Faculty:** IOT-P has well qualified and dedicated faculty having academic and industrial exposure. This helps in maintaining synergy of theoretical knowledge and its industrial application. The faculties not only take keen interest in the embodiment of the young engineers but also organize various extra curricular activities to boost the moral of the students. It is a matter of pride that 10 faculty members have presented their research papers at national level & two staff members at international level conferences.

• **Library:** IOT-P has Centralized library having 18,932 books, 55 magazines, and many journals. The library is extremely spacious and well equipped with reading arrangements. It also provides book bank and facility to give set of books to needy and studious students. The e-library concept will be adopted in near future.

• **Soft skills & Personality development cell:** As a part of curriculum, communication skills is one of the subjects that is being taught. Apart from this, continuous efforts are made to make the students as well as the faculties to groom themselves to compete in the globalized corporate scenario.

• **EDP Cell:** Entrepreneurship is a key element in the industrialization and economic progress of a nation. The Entrepreneurship Development Cell (EDP Cell) at MET BKC IOT-P was established with a vision of fostering innovation and promoting entrepreneurial skills among Diploma students with a dedicated team of actively working faculty who has an industry exposure along with some student representatives. We encourage the students to consider self employment as a career option, providing necessary training in Entrepreneurship skills through standardized courses. The cell also organizes different activities and events from time to time to train and motivate the students on entrepreneurship.

MET's Institute of Technology-Polytechnic Intake Details

(DTE code 5244)

No.	Branch	Intake	Choice Code
1	Computer Engineering	60	524424510
2	Information Technology	60	524424610
3	Electrical Engineering	60	524429310
4	Electronics & Telecommunication	60	524437210
5	Civil Engineering	60	524419110
6	Mechanical Engineering	120	524461210
7	Civil Engineering*	60	524419120
8	Mechanical Engineering*	60	524461220
9	Electrical Engineering*	60	524429320

* Second Shift

Our Outstanding Final Year Projects Highway Network System



Civil Engg.

Project Group : Swapnil Saokar, Akshay Sanap, Rajesh Thakare, Aadesh Golesar, Aditya Mahajan, Purushottam Naik with Hon. Principal R.S. Narkhede, HOD Prof. B. S. Dhande and project guide Prof. Vikas Pawar.

Abstract : The Motivation for this project came from the cities where there is inaccurate Management of traffic. A road is a public road, especially a main road that connects two or more destination. All the interconnected series of streets may be different like a highway system, road network, etc. With the advancement of better roads and efficient control, more and more investments were made in the road sector especially after the world war.

To improve the control of road traffic some modern technique are required.

This system will serve the following purposes:

1. There is minimum traffic on roads.
2. To reduce time period for transportation.

Solar Water Desalination



Civil Engg.

Project Group: Ankush Gosavi, Pwan Khairnar, Prasad Dandwate, Aishwaray More, Nikita Kotkar, Abhishek Sonavane with Hon. Principal R.S. Narkhede HOD Prof B.S Dhande and Guide Prof. Ganesh Kawale

The purpose of this project is to design a water distillation system that can purify water from nearly any source, a system that is relatively cheap, portable and depends only on renewable solar energy.

The motivation for this project is the limited availability of clean water resources and the abundance of impure water available for potential conversion into potable water, in addition there are many coastal locations where seawater is abundant but potable water is not available. Our project goal is to efficiently produce clean drinking water from solar energy conversion

Design and Fabrication of Automatic Universal Machine Bed



Mechanical Engg.

Project Group : Suyog Pawar, Nayan Chhabhaiya, Tanmay Jadhav and Tejas Jadhav with Prof. V. E. Kothwade TYME-Second Shift, Academic Year 2016-17

Abstract : Bed of machine tool is one of the important machine parts in an industry. Engineers are always developing sophisticated machines and modern techniques have to be constantly developed and implemented for economical manufacturing of products. At the same time, we should take care of that there has been no compromise made with quality and accuracy. The multi degrees of freedom are provided to the machine bed which enhances the applicability and efficiency of the utilization of the bed. This universal machine bed will be implemented to the many small scale industries. In the age of automation machine become an integral part of human being. By the use of automation machine prove itself that it gives high production rate than manual production rate. In competition market everyone wants to increase their production & make their machine multipurpose. The engineer is constantly conformed to the challenges of bringing ideas and design into reality. New machines and techniques are being developed continuously to manufacture various products at cheaper rates and high quality. The consistent output of a Machinery system along with quality and repeatability are unmatched. Machine is a mechanical body sometimes with the brain of a computer. Integrating the sensors and the actuators and with the help of the computers, we can use it to perform the desired tasks automatically.

Development of Assembly Fixture for Reduction of Set up Time



Mechanical Engg.

Project Group : Sagar More, Abhishek Desai, Aniket Yeola and Pranit Gawali, with Prof V. E. Kothwade TYME-Second Shift, Academic Year 2016-17

Abstract : A fixture is a work-holding or support device used in the manufacturing industry. Fixtures are used to securely locate and support the work, ensuring that all parts produced using the fixture will maintain conformity and interchangeability. Using a fixture improves the economy of production by allowing smooth operation and quick transition from part to part, reducing the requirement for skilled labor by simplifying how work pieces are mounted, and increasing conformity across a production run. Fixtures must always be designed with economics in mind; the purpose of these devices is to reduce costs, and so they must be designed in such a way that the cost reduction outweighs the cost of implementing the fixture. It is usually better, from an economic standpoint, for a fixture to result in a small cost reduction for a process in constant use, than for a large cost reduction for a process used only occasionally. This assembly fixture helps to reduce the assembly time with reduction of the worker's fatigue.

Power Generating Shock Absorber



Project Group : Mahesh Ukharde , Adesh Kakad, Shubham Kapadnis and Samarth Karpe with Prof. S A Mandore, (Lecturer in Mechanical Engineering, TYME-Regular Shift, 2016-17

Abstract : In the present day power is most important need of human life due to day by day increasing population, conventional energy sources are decreasing. The extensive use of energy has resulted in an energy crisis. So the ultimate solution to deal with the sorts of problems is just to implement renewable sources of energy. But these renewable sources of energy must have to be adapted in practical manner by keeping an eye on all aspects regarding the research work. The objective of this work is power generation through shock absorber as a source of renewable energy that we can obtain while driving a vehicle on to the certain arrangements like uneven roads, speed breakers etc. and these systems can be installed specialty in rural areas. The conventional vehicle suspension dissipates the mechanical vibration energy in the form of heat which is considerable waste energy. The regenerative suspension has attracted much attention in the recent years for the improvement of vibration attenuating performance as well as the reduction of energy dissipation. Above all the amount of energy dissipation and the potential of energy regeneration are discussed, then the research and development of the regenerative suspension is reviewed and the energy harvesting schemes and their characteristics are summarized. In conclusion only combining vibration reducing performance and energy harvesting efficiency can the regenerative suspension have promising prospects.

Home Automation Via Arduino



Project Group : Vivek Sing, Sayali Kanojiya, Ishant Kamwani, Nitesh More and Rohit Panagarikar.

Abstract : Home Automation is a fully automated system by which we can control our home appliances like Television Set, Fan, Lights, Air Conditioning system, etc. With the help of Microcontroller known as ARDUINO UNO board. It will be working in the presence of predefined users in the system. The basic purpose of home automation is to reduce some of the human efforts.

Home Automation is a way to have things around one's home happen automatically. It is very helpful for a person who is suffering from disability.

Multiple Input Energy Meter



Project Group : Omkar Gholap, Sudarshan More, Kiran Gaikwad and Akshay Gawale with Prof. M.G. Gokhale, TYME-Regular Shift, 2016-17

Abstract : There are many energy metering devices used in commercial, domestic and industrial installations. In industrial applications these energy metering devices are used to monitor the energy consumption in particular machine or department. The major problem in the society identified by us is incorrect meter reading of different consumers having same load. Working on this problem we have proposed this system i.e. a Single meter for multiple consumers. As the name indicates the meter which we have made has multiple inputs and display is only one i.e. single hardware is used to monitor multiple connections. This rectifies the problem of false metering in the same complex of multiple consumers. It can monitor the voltage, current, active power, apparent power and power factor. In household applications, these energy meters are generally used to calculate energy consumption from which electricity board charges the bill to consumer as per the unit rate. Thereby it will be helpful to find out the energy consumption accurately.

Hybrid Electric Bicycle



Project Group : Tushar Tidke, Rakesh Shinde, Nayan Sathe, Pratik Pagare with Prof. Samadhan Avhad, TYEE (Second Shift)

Abstract : There are many types of bicycle in the world such as normal bicycle that people need to paddle for it to move, motorized bicycle that uses fuel as its prime power and electric bicycle that can only be sufficient for an hour. The idea is to make the bicycle last longer and can be automatically recharged when the bicycle is not in use by the renewable solar energy. The concept of the solar energy is that a high torque motor will be put on the bicycle which will be generated by the solar energy. The solar energy will be absorbed by the portable solar panel to generate the power. The power that had been absorbed by the panel can be used directly by the motor if the power matches the power requirement. If not, the motor will use the power from a battery.

The process of planning, designing, and testing a Hybrid Electric Bicycle. It provides a lot of detail into the challenges of modifying an existing mechanical system to one that is based on both human propulsion as well as a set of electro-mechanical interfaces that provide assists. Through designing an electro-mechanical system, with various non-human inputs and feedback channels, a major challenge was centralizing the control of the system. After establishing criteria for speed, control, efficiency, and weight, we began a process of selecting parts and developing models for how the overall system including the rider could be integrated in a way that is both safe, and easy to use.

When the bicycle was not in use during the day, the solar panel will charge the battery. The system will make bicycle operate more efficiently.

Voice Based Automation



Project Group : Sakshi Tekawade, Dipika Jadhav and Roocha Doke with Prof. Swati Jadhav (Lecturer in E and TC Engineering) TYEJ-Academic Year 2016-17

Abstract : In big car showrooms, Malls, Museums, Electronic Showrooms (like TV, Mobile, and Music System etc.) and various exhibition centers number of people are visiting and they are always hoping from the guide to get better information about the product. But due to crowd, everyone don't get the guidance so they cannot get the total & correct information. To overcome this problems and also security related problems in CAR showrooms, we found the best solution for them that is "VOICE BASED AUTOMATION" in car showroom. Here voice IC is used for giving information about car. The APR9600 (Voice IC) device offers true single-chip voice recording, non-volatile storage and play back capability. The device supports both random and sequential access of multiple messages.

We also added security system which activates the alarm when anyone touches the car or damage is occurred due to the car. The IR sensor transmitter and receiver are electronics devices that communicate with each other without any interaction. To ensure proper operation we can select the position of sensor on the wall according to its sensing ranges. When a person comes in that area, the IR sensor automatically activates. We are using voice IC to give the information about the car. This voice IC activates when a person cuts the IR sensor. When the person leaves from that area, the IR sensor communicates to the controller once again to stop the voice IC operation. The person can give their feedback through the keypad i.e. whether he liked the exhibit? Whether he wants to suggest something. So this system is helpful for avoiding the difficulties in area like car showrooms, various exhibition centers, Malls, Museums, Electronic showrooms etc. due to less number of guides and more crowds. This is more helpful to the people who visit especially these places to get the whole information about the product.

Automatic Number Plate Recognition System



Project Group : Kalpesh Avhad, Laxmi Pagare, Vaishali Shirsat, Sakshi Khairnar with Hon. Principal Prof. R. S. Narkhede, Prof. M. B. Sonje (Lecturer, IT Engineering) TYIF-Academic Year 2016-17

Abstract : Automatic Number Plate Recognition System is mass surveillance system that captures image of vehicles and recognizes their number. This system used by local authorities and commercial organizations in all aspects of various traffic and security applications, such as parking, access border control, or tracking of stolen cars. A rear image of vehicle is captured and processed using various algorithms. This paper discusses a method for the Vehicle number plate recognition from the image using a special form of Optical Character Recognition (OCR). ANPR system use optical character recognition to read number plates which enables vehicle registration numbers to be stored, analysed and retrieved as required.

Student's Reviews



MET-BKC is a great place to have Infrastructure, faculty members, courses and facilities, all are good. The students are encouraged to show their caliber and potential through various activities. The students are provided with a lot of facilities like wi-fi campus, air-conditioned computer labs, presentation classes etc. Counselling is done in every semester.

- Shakshi Tekawade, E&TC-Student

This college is great. Good facility. Great faculty. I Will definitely refer to my juniors. Infrastructure is mind-boggling. Campus crowd is decent. It gave me more than my expectation. In MET BKC we celebrate MET UTSAV every year, through which we get opportunity to explore our artistic passions.



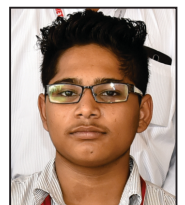
-Sudharshan More, EE-Student



It is a great opportunity to being a student of MET, BKC. Laboratories are well equipped, here we are facilitated by the Industrial visits, educational tours etc. There are a lot of extracurricular activities conducted by the college for the students. We enjoy and learn lot of thing during MET UTSAV every year.

- Laxmi Pagare, IT-Student

All Faculty members are supportive and helping in nature. The faculty members are experienced and very knowledgeable. The methodology that the faculty members are using with the help of presentations helps us in our studies and clears our concepts deeply.



- Anurag Awari, CE-Student

Congratulations! First Year Civil Engineering Students

Anurag Awari, Abhishek Patil, Vaibhav Khairnar, Saurabh Dhokle Secured Second prize in National Level Paper Presentation the competition was held at G. H. Raison College of Engineering, Pune



Award Winning students with Honorable Principal Prof..R.S.Narkhede, HODs Prof. Anil Kokate, Prof. B. S. Dhande and Prof. Ganesh Kawale

FACULTY SPEAKS

Emerging Trends in Information Technology



Prof. S. B. Patil
Head IT Dept., IOT-P

21st century has been defined by application of and advancement in information technology. Information technology has become an integral part of our daily life. According to Information Technology Association of America, information technology is defined as "the study, design, development, application, implementation, support or management of computer-based information systems." Information

technology has served as a big change agent in different aspect of business and society. It has proven game changer in resolving economic and social issues. Advancement and application of information technology are ever changing. Some of the trends in the information technology are as follows:

1. Cloud Computing: One of the most talked concepts in information technology is the cloud computing. Clouding computing is defined as utilization of computing services, i.e. software as well as hardware as a service over a network. Typically, this network is the internet. Cloud computing offers 3 types of broad services mainly Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS). Some of the benefit of cloud computing are as follows:

1. Cloud computing reduces IT infrastructure cost of the company.
2. Cloud computing promotes the concept of virtualization, which enables server and storage device to be utilized across organization.
3. Cloud computing makes maintenance of software and hardware easier as installation is not required on each end user's computer. Some issues concerning cloud computing are privacy, compliance, security, legal, abuse, IT governance, etc.

2. Mobile Application : Another emerging trend within information technology is mobile applications (software application on Smart phone, tablet, etc.) Mobile application or mobile app has become a success since its introduction. They are designed to run on Smartphone, tablets and other mobile devices. They are available as a download from various mobile operating systems like Apple, Blackberry, Nokia, etc. Some of the mobile app are available free where as some involve download cost. The revenue collected is shared between app distributor and app developer.

3. User Interfaces : User interface has undergone a revolution since introduction of touch screen. The touch screen capability has revolutionized way end users interact with application. Touch screen enables the user to directly interact with what is displayed and also removes any intermediate hand-held device like the mouse. Touch screen capability is utilized in smart phones, tablet, information kiosks and other information appliances.

4. Analytics : The field of analytics has grown many folds in recent years. Analytics is a process which helps in discovering the informational patterns with data. The field of analytics is a combination of statistics, computer programming and operations research. The field of analytics has shown growth in the field of data analytics, predictive analytics and social analytics. Data analytics is tool used to support decision-making process. It converts raw data into meaningful information. Predictive analytics is tool used to predict future events based on current and historical information. Social media analytics is tool used by companies to understand and accommodate customer needs.

A New Dawn In Renewable Energy-India Attains 4th Position In Global Wind Power Installed Capacity



Prof. M. G. Gokhale
Head of Electrical, IOT-P

Estimated Potential Of Renewable Energy: The increased use of indigenous renewable resources is expected to reduce India's dependence on expensive imported fossil fuels. India has an estimated renewable energy potential of about 900 GW from commercially exploitable sources viz. Wind – 102 GW (at 80 meter mast height); Small Hydro – 20 GW; Bio-energy – 25 GW; and 750 GW solar power, assuming 3% wasteland. **The target set for the various**

renewable energy sources for the next three years are:

Source	2016-17	2017-18	2018-19
Solar Power	12,000	15,000	16,000
Wind	4000	4600	5200
Biomass	500	750	850
SHP	225	100	100
Grand Total	16725*	20450*	22150*

*(Capacities in MW)

Share of Renewable Power In Total Installed Capacity: Economic growth, increasing prosperity, a growing rate of urbanisation and rising per capita energy consumption have increased the energy demand of the country. In order to meet the energy demand, India has total installed power generation capacity of 307.27 GW as on 31.10.2016 from all resources. With 46.33 GW installed renewable power capacity, the renewable power has a share of about 15% to the total installed capacity.

Wind Power : During the year 2015-16, wind power capacity addition of 3.42 GW was made, which is highest ever wind power capacity addition in the country during a single year. The present wind power installed capacity in the country is around 28.28 GW. Now, in terms of wind power installed capacity India is globally placed at 4th position after China, USA and Germany.

India has a strong manufacturing base of wind power equipment in the country. Presently, there are 20 approved manufacturers with 53 models of wind turbines in the country up to a capacity of 3.00 MW single turbines. Wind turbines being manufactured in India are of international quality standards and cost-wise amongst the lowest in the world being exported to Europe, USA and other countries.

The wind power potential of the country has been reassessed by the National Institute for Wind Energy (NIWE), it has been estimated to be 302 GW at 100 meter hub-height. Online wind atlas is available on NIWE website. This will create new dimension to the wind power development in the country.

India has long coastline where there is a good possibility for developing offshore wind power projects. The cabinet has cleared the National Offshore Wind Energy Policy and the same has been notified on 6th October 2015. Certain blocks near Gujarat and Tamil Nadu coast line have been identified. NIWE is in process of doing the wind resource assessment in these coastal areas.

Comprehensive Guidelines for Development of On-shore Wind Power Projects in the country have been formulated and issued on 22nd October 2016.

Guidelines for implementation of Scheme for Setting up of 1000 MW Inter-State Transmission System (ISTS) - connected Wind Power Projects issued on 22nd October 2016.

The Policy for Repowering of the Wind Power Projects has been released on 5th August, 2016 to promote optimum utilization of wind energy resources by creating facilitative framework for repowering.

Anger as a Loving Enemy...

Did you know ... What is anger ?... how it can create destructive, even deadly, effects on your health?



Prof. Dipak B. Aher
 Science & Humanities Dept.

'Anger spells a strong feeling of annoyance, displeasure or hostility.'

Nowadays, we live in such a materialistic world that compels us to say "Anger Is a toast of the globe". Perhaps, it is hard to believe that the life without anger is highly impossible. We easily say everyone gets angry it is not new. We born and raise with anger. We justify, that it is the way to get things done and dominate the people or children.

Some people think that anger is a strength. It is the sign that we have lost control on ourselves.

Even heart resentments are silent forms of anger and damage us as a creator. It is our self- destructive creation. It is the result of west thoughts which has a hard effect on our efficiency, memory power, decision power, and hence performance. It has a stern impact on our physical wellbeing, and hence any amount of anger is damaging.

According to Dr. Harry Mills, anger is not an emotion we are born with, rather one, that is learned or acquired in a multiple ways. It may be from the parents, teachers, our friends. This acquiring of such a destructive emotions affect our emotional and mental health. We unknowingly and innocently adopt the anger like emotions from others. If it gets stimulus it comes up and drives us. (The other day we might have come across the news-a mother kills her infant in anger. Some tenth's students commit suicide.)

When anger kicks in, our body swiftly moves towards the incurable drive. Our muscles tens...digestive processes stop, certain brain centers start firing in ways that alter our brain chemistry.

The average heart rate of a person is around 72-80 beats per minutes. However, anger can make our heart rate rise to 180 beats per minutes. Anger has some effect on our blood pressure. Blood pressure of 120 over 80 to jump to 220 over 130 or higher causing heart attack or stroke. When we become angry or stressed our body releases chemicals ,that clots the blood, blood clots can cause brain or heart stroke. i.e-

If we drive a car with 40 km/hr; it may last for 500 miles per day smoothly without maintenance. On the contrary, if we drive the same car with 100 km/hr, combustion will be more, ultimately maintenance may hike. The same is applicable to our body also...

Anger can also causes the diseases like—

- 1) Headache, 2) Diabetics, 3) Insomnia, 4) Anxiety,
- 5) Skin problems and so on...

If we get along with the aforementioned mindboggling information we can jump to the conclusion that anger is our loving enemy, it is nothing but one of the silent killers. Here our prime responsibility is to take charge of our own mind instead of expecting others' behaviour in a right direction. Because others are absolutely not under our control. Our response to the people should be based on our personality not on the behaviour of others. We always think that others make us angry but it is our choice, how we want to think feel and be in every situation.

Let's not to give our emotional remote control in others' hands.....

The Importance of English in the Career....



Mohanish M. Kulkarni
 Dept. Applied Science, IOT-P

There should be no doubt that English is the only lingua franca in the world. It may not be official language but it is the most widespread second language learnt in the world. Hence knowledge of English and good communication skills have come to be regarded as synonymous.

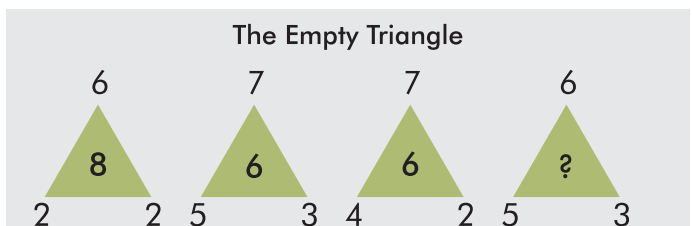
With the advent of information technology, changing times and emerging scenarios English language has come to be regarded as a great skill. Every industry and organization is well aware about the great importance of English and Communication skills which has been proving the bridge between employer, employee and clients. Surveys have indicated that nearly nine-tenths of all employees feel that their productivity and career can go up if they have a proper knowledge of English. A conservative survey conducted indicates that, today over one thousand million adults are learning English. This is because English has become part and parcel of commerce, technology and engineering.

Effective English communication nowadays is the number one attribute desired in employees at all levels. If you communicate in English well, you can establish a good rapport with your authorities, employer, clients' colleagues, and friends and so on. Needles to mention, this also affords you an opportunity to conduct yourself with confidence. Your self-assuredness will increase and consequently, you are ready to enlarge the panorama of your career. If you are conversant with English, you can handle your colleagues and customers well. At a workplace you will need to communicate with your subordinates to disseminate instructions, colleagues to coordinate various issues and superior who will expect perfect implementation of directions and precise reporting. Which is the best language that can be used? The answer is no doubt English.

If you have to get your hands on information; disseminate it to your colleague and associates; and convince people of your viewpoint, you should be excellent at verbal and written communications. Thus actual and effective communication means talking precisely and writing accurately together with a capability to listen patiently.

English will open doors for you if you are willing to make an effort. From Engineering to Science and Technology, from scholarly research to getting top job, learning English will significantly improve your life. You need to make best use of English to develop yourself so that you can compete with the best in the world. Thus it is rightly said that 'English is the window to the world'.

Mind Refresher



Question:

Which figure should be placed in the empty triangle? (This puzzle works your executive functions in your frontal lobes by using your pattern recognition, hypothesis testing, and logic. Let us know how you do!)

Answer : In Next Volume

CSR

Helping Hands to Orphans Students at Smt. Gada Anath Balkashram, Trimbakeshwar

Department of Mechanical Engineering has recently organized a CSR activity at Smt. Gada Anath Balkashram Khambale, Trimbakeshwar for giving helping hands to orphans students on 23rd February 2017. Department Contributed cloths, food as well as some necessary utensils which help them in academic as well as in overall extracurricular growth.



Happiest Moment among METians to see smile on these Faces (Staff and Students Mechanical Dept.)

MET BKC-Ratna-2016

Ms. Nikumbh Damini R., Third Year Diploma student in Mechanical Engineering-Regular Shift (Passing out Batch 2015-16), has scored 91.47 % in MSBTE Summer Examination 2016 and ranked first in Institute. She got prestigious award "MET BKC Ratna-2016" and secured admission to Direct Second Year (S.E.) in College of Engineering, Pune (COEP), An Autonomous Institute of Government of Maharashtra.



Honourable Guest Brigadier Shri. S. M. Sudumbrekar presenting the MET-BKC Ratna award to Damini Nikumbh on Occasion of "MET-Utsav-17- Cultural Night

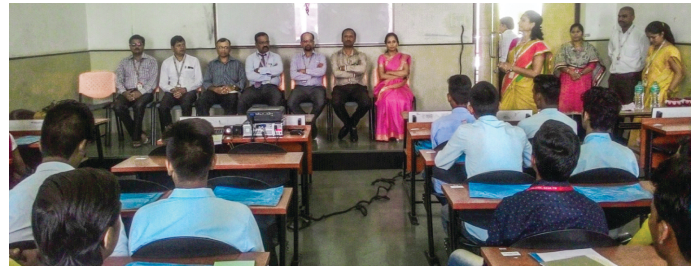
"One man's "Magic" is another Man's Engineering. "Supernatural" is a null word."

- Robert A. Heinlein

Continuing Education Program (CEP) at Department of Electronics & Telecommunication

Continuing Education Programs are conducted to provide formal education in various fields. This helps candidate from society and industry to acquire more knowledge in respective fields which enable them to perform more effectively and efficiently in their jobs.

MET Polytechnic, Bhujbal Knowledge City, Department of Electronics & Telecommunication recently conducted one day workshop on "Practical Approach of Electronics" for 11th and 12th Students of MCVV/ITI on 10th Apr 2017 under CEP (Continuing Education Program of Maharashtra State Board of Technical Education).



An Inaugural Moment of CEP with the hands of Dignitaries



A Glimpse of Valedictory program of CEP with Participants

Rich tributes paid to Mahatma Jyotiba Phule

The birth anniversary of social reformer Mahatma Jyotirao Phule was celebrated grandly at Bhujbal Knowledge City, on 11 April 2017. Principal Dr. Berad and Principal Dr. Vani garlanded the statue of the social reformer. Principal Prof. R. S. Narkhede sent wishes and appealed to follow the path shown by Jyotiba Phule. Speaking on the occasion, Prof. S.G. Sharma gave a call to people to make efforts to fulfil the aspirations of Phule. Further he added that Phule strived all his life to bring social transformation in the society and he the only man who justified the title 'Mahatma'. He also mentioned that Phule is the original architect of Indian Feminism and revolted against unfair cast system and patriarchal society. The programme was attended by all H.O.Ds, Teaching and non-teaching staff, and it was concluded by taking oath of loyalty and honesty.



Prof. Amit Roy offering flowers to statue of Mahatma Phule

आशावादी माणसाला प्रत्येक धोक्यात संधी दिसते तर निराशावादी माणसाला प्रत्येक संधीतही धोका दिसतो.

The optimist sees opportunity in every danger, the pessimist sees danger in every opportunity.

Our Achievers

Winning Hat-tric in "Dipex"

A State Level Project Competition

The Diploma Engineering Students are expected to interact with their peers and also compete at National Level. It is desired that students participate in prestigious and MSBTE sponsored events like Dipex. Dipex is the most prestigious and popular state level exhibition-cum-competition of projects and working models of degree and diploma engineering students. Our Students from Department of civil Engg. of MET-Polytechnic, have consecutively secured 1st prize for continuous three years in Dipex competitions. Here blow are the glimpses and Prize Winner of this competition. MET-Polytechnic Heartily Congratulates all Successful students.

An Innovative Reigning Life of Reservoir and other Surface Water Storage Structures by Silt Technique



Dipex 2013

Project Group: Tushar Somvanshi B, Pokar Honeyraj, Pratik Shinde, Digvijay Patil along with their Project Hardware details in Dipex Competition.

Controlling Water Evaporation of Existing Surface Reservoirs



Dipex 2012

Project Group : Mayur Munot, Ashish Chudhari, Sandip Aher, Patel Rajeshwar. This Project Secured First Position in the Dipex Competition.

Underground Dam

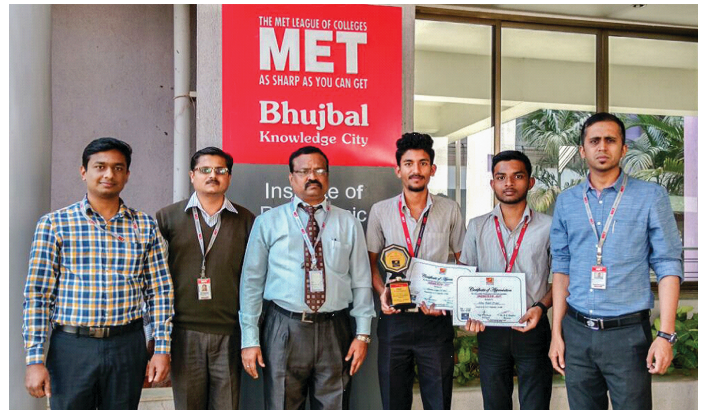


Dipex 2011

Project Group : Ghuge Nandkishor, Mayur Shelke. This Project Secured First Position in the Dipex Competition.

Mechanical Students wins First Prize in "MAHATECH-17"

Wanve Sagar and Jadhav Ashish, Third Year Diploma Students of Mechanical Engineering (Second Shift) has participated and bagged "First Prize" in A State level Technical Paper Presentation Competition "MAHATECH-2017" organized by SMES Institute of Technology (Polytechnic), Nashik on 10 Feb. 2017.



Congratulations! Winners with Hon. Principal R.S. Narkhede, HOD Prof. Amol Vadnere, Prof. Kothwade and Prof. Khan

Computer Students Wins at Project Competitions

Final year students got Second prize in project Competition held at Mahaveer Polytechnic Nashik on 8thFeb 2017.



Congratulations! Wining Team with Hon. Principal R.S.Narkhede, HOD Keshav Khinde and Staff Members.

Second Prize in State Level Technical MECHA EVENT 2k017



Congratulations! Samrudha Sonawane with Head of Mechanical Department Prof. Amol Vadnere and Prof D. M. Kulthe.



Farewell To Third Year Outgoing Students

In an emotionally surcharged atmosphere inside the MET-Polytechnic of Bhujbal Knowledge City Campus, the students, staff and HODs of the MET-Polytechnic bid adieu to all the final year (TY) students of 2016-17 batch, in a grand farewell functions were held here at the MET campus. The Principal, R. S. Narkhede presented mementoes to the outgoing students of final year.

Here are some cherish memories from all the Departments



Hon. Principal addressing students and wishing them good luck



TY Civil Students Enjoying fare well moments



Bid adieu to Computer Engg. Students from HOD and staff



Final Year EJ Students with Departmental Staff



Welcome of Dignitaries IT Department



Memento awarded to Ms. Roocha Doke, E&TC-Student by hands of Hon. Principal during Fare-Well Function.



Hon. Principal guiding outgoing Electrical Students



Electrical Engg Students Celebrating joy of FareWell

Every evening turn worries over to God.
 He is going to be up all night anyway.

रोज रात्री झोपतांना आपल्या काळज्या परमेश्वराकडे सोपवाव्या.
 नाहीतरी तो रात्रभर जागा राहणार असतोच.



Key Note Address by Hon. Principal on TYME Farewell Function



Huge audience support for the various stage performances.



TYIF Students Enjoying fare well moments



Students enjoyed music and dance during the FareWell at Amphithetere.



Cherish Memories of FareWell to Final Year Mechanical Students



Memento awarded to Outgoing E&TC-Student by hands of Prof. Sujata Avhad during Fare-Well Function.



Exciting Program shows were performed by outgoing Mechanical students.



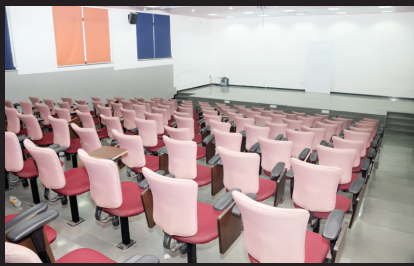
Mementoes awarded to Mr. Sachin Jadhav, E&TC-Student by hands of Prof. Anumeha Lal during Fare-Well Function.

I have not faild. I have just found 10,000 ways that won't work.

मी अपयशी नाही. फक्त मी दहा हजार कामाचे प्रकार असे शोधून काढले ज्याचा काहीच उपयोग नाही



Polytechnic Newsletter Vol. 1 was released at the hands of Hon. Dr. Shefali Bhujbal, Cheif Administrator MET-BKC on 12th April 2017 in presence of dignitaries, editorial committee & others.



MET-BKC CAMPUS

Campus Interviews at MET Polytechnic



Dr. K. S. Bhoon, Head HR & Business Executive from R.D.C Concrete (India) Pvt.Ltd. Mumbai Explaining GDPI Procedure



Dignitaries on Dias with Successful candidates

Advisory Board

Staff Members : Prof. K. R. Khinde, Prof. S. S. Avhad, Prof. S. B. Patil, Prof. B. S. Dhande, Prof. C. P. Patil, Prof. H. A. Dukale, Prof. Y. B. Vispute, Prof. S. S. Shelkar, Prof. N. O. Warbhe, Mr. Vijay Rahane, Prof. C. S. Mogare, Prof. V. N. Bankar, Prof. Sanket Nimse, Mr. Pradeep Hyalij.

Students Members : Mahesh Ukharde (TYME), Roocha Doke (TYEJ), Prasad Sonawane (TYEJ), Roshani Ahirarao (SYEE), Pooja Gunjal (STEJ), Manav Joshi (FYME), Shrushti Khedkar (FYME), Abhishek Patil (FYCE), Kamesh Jadhav (TYIF)

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