

Department of Mechanical Engineering, MET BKC IOT-Polytechnic, & Mechanical Engineering Students Association (MESA) Organized a **"Teachers Day Celebration"** on 05th Sept. 2018. **Objective of Camp:**

Teacher's day falls on the same day every year, namely, September 5th. This day was chosen because it is the birthday of Sarvepalli Radhakrishnan. Radhakrishnan was India's first ever Vice President, serving in this office between 1952 and 1962. Thereafter, he served as the country's President between 1962 and 1967. Dr. Sarvapalli Radhakrishnan was known for his contribution to the education system in the country. He was a scholar and a philosopher as well as a politician and so his birthday is a very fitting day to celebrate education. This event will organize by MESA to commemorate the legendary Teacher Dr. Sarvapalli Radhakrishnan on his birthday, on 05th Sept. 2018.

Great Tributes

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 result in bankruptcy; such is the havoc caused by the lack of knowledge.

Mahatma Jyotirao Phule

Department of Mechanical Engineering, MET BKC IOT-P, Nashik has offered rich tributes to **Mahatma Jyotirao Phule** and **Savitribai Jyotirao Phule**, the Indian social reformer, educationalist, thinker, anti-caste social reformer who played an important role in improving women's rights in India during British rule.

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July - December 2018

Bhujbal Knowledge City, MET's IOT-Polytechnic, Nashik

E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-Polytechnic, Nashik organized a Seminar on **"Employability Empowerment"** for all the TYME Students (Regular & Second Shift) on 26/07/2018.

Objectives of Seminar:

Seminar on "Employability Empowerment"

In today's competitive scenario, generic employability skills are important because the labor market is intensely competitive, and employers in private, public and the third sector are looking for people who are flexible, take the initiative and have the ability to undertake a variety of tasks in different sectors. Employability skills are those skills necessary for getting, keeping and being successful in a job. They are the skills and attitudes that enable employees to get along with their colleagues, to make critical decisions, solve problems, develop respect and ultimately become strong ambassadors for the organization. Keeping all the above snags in view, we have arranged a seminar on "Employability Empowerment" with following objectives; [1] To aware the Diploma students with different employability skills.

[2] To introduce the students with different behavioral patterns and skills.

Resource Person: Shri. Devdatta C Gokhale, Director, Gokhale's Advanced Training Institute (GATI), Jalgaon.
Benefitaries: Third Year Diploma Students of Mechanical Engg. (Regular & Second Shift)
Venue: IOT-P, Seminar Hall Duration: 1.00 pm onwards
Coordinator: Prof. V E Kothawade, Expert Lecture Coordinator, MET BKC IOT-P, Nashik

Glimpses of Seminar:



Mr. Bhavsar Rushikesh, Mr. Patni Aditya, Third year Diploma students of Mechnaical Engineering has participated in MSBTE Sponsored State level Technical Paper Presentation Competetion organized by Sandip Polytechnic, Nashik on 7th Sept. 2018.

Title of Paper: "Alternative Fuel for Vehicles"



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E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized an Industrial Visit to **"Kadwa Cooperative Sugar Factory, Kadwa, Tal. Dindori, Dist. Nashik** from 17-19^h January 2018.

Objectives of Visit:

Mechanical Engineers have to work with various power producing & power absorbing devices like Boilers, Condensers, Turbines, Compressor, I.C. Engines, and Pumps etc. In order to understand the basic principles, construction and working of the devices, we have organize this visit. Beside this, following are the objective of visit;

[1] To give practical insight of boiler equipment and accessories used in sugar factory.

[2] To study overall plant layout and co generation plant utilization in sugar factory.

Day 1: 17/01/2018 Class: SYME 1 No. of Students: 51 Staff Involved: Mr. N O Warbhe, Mr. S B Tamhane. Day 2: 18/01/2018 Class: SYME 2 No. of Students: 53 Staff Involved: Mr. S D Sonawane Day 3: 19/01/2018 Class: SYME S No. of Students: 28 Staff Involved: Mr. A S Buwa, Mr. V G Dhanwate. Coordinator of Visit: Prof. V B Kalmegh, Lecturer in Mech. Engg. & Coordinator of Ind. Visit Committee

Glimpses of Industrial Visits:

Visit to "Kadwa Cooperative Sugar Factory"



Mr. Gaikwad Apurva, Mr. Pund Karan, Third year Diploma students of Mechnaical Engineering has participated in MSBTE Sponsored State level Technical Paper Presentation Competetion organized by Sandip Polytechnic, Nashik on 7th Sept. 2018.

Title of Paper: "W-Engines"



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Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized Expert Talk on "Personality Development & Soft Skills" on 03rd August 2018 (AY 2018-19) in association Let's Speak Institute of Personality Development & Soft Skills, Nashik Objectives of Expert Talk:

- 1. To develop leadership qualities of students through self motivation techniques.
- 2. To improve the interpersonal relationship skills.
- 3 To discuss a particular topic in a group and face the interview with proper soft skills.

Resource Person: Mr. Pranav Kumar, Director, Let's Speak, Nashik. Benefitaries: Second Year Diploma Students of Mech. Engg. (Regular & Second Shift) Venue: IOT-P Seminar Hall
Duration: 1.00 pm onwrads Chief Coordinator: Prof. A P Vadnere, HOD-Mech. Engg.
Program Coordinators: Prof. P P Badgujar, Prof. V E Kothawade, Lecturer in Mech. Engg.

Glimpses of Expert Talk:

Talk on "Personality Development & Soft Skills"



Prof. D M Kulthe, Lecturer in Mechnaical Engineering has successfully participated and completed MSBTE Sponsored Training program on "Quality Improvement & Valuable Contribution in Office Work" organized by GGSP Polytechnic, Nashik on 12th July 2018.

Prof. A B Deore, Lecturer in Mechnaical Engineering has successfully participated and completed MSBTE Sponsored Training program on **"Industrial Training to Academics"** organized by Measurewel Technovision Pvt. Ltd., Aurangabad on 16-20 July 2018.



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E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized an Industrial Visit to **"Supernova Water jet Cutting Systems, G-26, MIDC Ambad, Nashik** on 24, 27 & 28 August 2018.

Objectives of Visit:

It is necessary for a Diploma Mechanical Engineer to know about the advancements in the area of manufacturing processes. This visit will impart knowledge & skills necessary for working in modern manufacturing environment. It will help the student to get familiarize with working principles and operations performed on non conventional machines, and maintenance of machine tools. Also it will help to understand the overall plant layout and organization structure of Advanced Manufacturing Industry.

DAY 1-TYME1 (53) 24/08/2018, 10.00 am Onwards, Staff Involved: Mr. A G Wattamwar, Mr. V V Rakme DAY 2-TYME2 (42) 27/08/2018, 10.00 am Onwards, Staff Involved: Mr. J G Dhopte, Mr. K G Deshpande DAY 3-TYME S (45) 28/08/2018, 10.00 am Onwards, Staff Invol. Mr. V E Kothawade, Mr. V B Kalmegh Coordinator of Visit: Prof. V B Kalmegh, Lecturer in Mech. Engg. & Coordinator of Ind. Visit Committee

Glimpses of Industrial Visit:

Visit to "Supernova Water jet Cutting Systems"



Prof. K A Nerkar, Lecturer in Mechnaical Engineering has successfully participated and completed MSBTE Sponsored Industrial Training program on "**Power plant Familiarization**" organized by Reliance Infra. Ltd., Dahanu on 25-27 July 2018.



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Department of Mechanical Engineering, MET BKC IOT-Polytechnic, Nashik Organized a Seminar on "Awareness, knowledge, and attitude regarding Organ Donation among Staff & Students" in association with Wockhard Hospital, Nashik on 05th Set. 2018 (AY 2018-19) Objective of Seminar:

- [1] To improve the level of awareness, knowledge and attitude regarding OD among staff and students.
- [2] To assess the attitudes toward organ donation
- [3] To recommend the Institute authorities for planning sensitization programs targeting undergraduates.
- [4] To improve knowledge and positive attitudes regarding organ donation.

Resource Person: Dr. Dr. Deodatta Chafekar, Sr. Consultant – Nephrology, MD (Med.) DNB (Nephology),
 Wockhard Hospital, Nashik. Chief Coordinator: Prof. A P Vadnere, HOD-ME, IOT-P.
 Program Coordinators: Prof. S A Mandore, Prof. V E Kothawade, Prof. P P Badgujar, Lecturer in Mech.
 Engg., IOT-P. Venue: IOT-Polytechnic Seminar Hall
 Duration: 10.30 am onwards

Glimpses of Seminar:

"Awareness, knowledge, and attitude regarding Organ Donation"



Prof. B K Khatale, Lecturer in Mechnaical Engineering has successfully participated and completed MSBTE Sponsored Industrial Training program on **"Industrial Training to Academics"** organized by CIPET, Aurangabad on 06-10 August 2018.

Prof. V B Kalmegh, Lecturer in Mechnaical Engineering has successfully participated and completed MSBTE Sponsored Industrial Training program on "Industrial Training to Academics" organized by Measurewel Technovision Pvt. Ltd., Aurangabad on 06-10 August 2018.



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Bhujbal Knowledge City, MET's IOT-Polytechnic, Nashik

E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized an Industrial Visit to **"Kadwa Cooperative Sugar Factory, Rajaramnagar, Kadwa, Tal. Dindori, Dist. Nashik** from 21st Sept. 2018.

Visit to "Kadwa Cooperative Sugar Factory"

Objectives of Visit:

Mechanical Engineers have to work with various power producing & power absorbing devices like Boilers, Condensers, Turbines, Compressor, I.C. Engines, and Pumps etc. In order to understand the basic principles, construction and working of the devices, we have organize this visit. Beside this, following are the objective of visit; [1] To give practical insight of boiler equipment and accessories used in sugar factory.

[2] To study overall plant layout and co generation plant utilization in sugar factory.

Date & Duration: 21/09/2018 (10.00 am Onwards) Staff Involved: Prof. N O Warbhe, Prof. S D Sonawane, Prof. U R Bhapkar, Prof. B K Khatale, Mr. V G Dhanwate.
Class & No. of Students: SYME 1 (37), SYME 2 (42), SYME S (25) Total No. of Participants: 104
Coordinator of Visit: Prof. V B Kalmegh, Lecturer in Mech. Engg. & Coordinator of Ind. Visit Committee

Glimpses of Industrial Visit:



Prof. V D Jagtap, Lecturer in Mechanical Engineering (Second Shift) has successfully completed his post graduation in ME (Heat Power) from Savitribai Phule Pune University with First Class in October 2018.

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Bhujbal Knowledge City, MET's IOT-Polytechnic, Nashik

E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-Polytechnic, Nashik organized Expert Lecture on **"Introduction to Automobile Air Conditioning System"** on 03rd October 2018 (AY 2018-19)

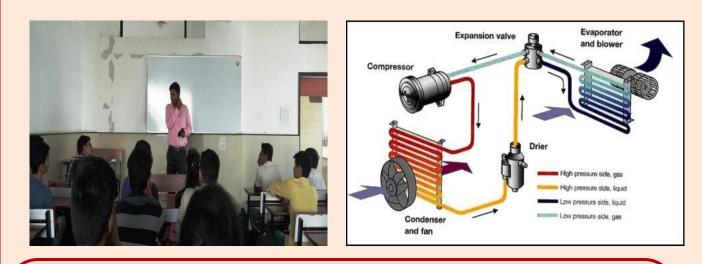
Objectives of Expert Lecture:

- [1] To understand the concept of Automobile Air Conditioning System.
- [2] To know the various parameters of Automobile Air conditioning.
- [3] To identify & locate the various components of air conditioning systems in an Automobile.

Resource Person: Prof. Dinesh Panchave, M.E. (Heat Power), Asst. Professor, MET BKC Institute of Engineering, Nashik. Benefitaries: TYME 1 Venue: Class Room No. 316 (TYME 1) Duration: 10.00 am onwards. Coordinators: Prof. A P Vadnere, HOD-Mech. Engg. Prof. V E Kothawade, Expert Lecture Coordinator, Prof. N O Warbhe, Lecturer in Mech. Engg.

Glimpses of Expert Lecture:

Talk on Introduction to "Automobile AC Conditioning System"



The **Air Conditioning System** in an Automobile is designed to keep you cool and comfortable when the conditions outside are hot or humid. Some of the basic components of Vehicle's Air Conditioning System include the refrigerant, compressor, condenser, receiver drier, expansion valve or orifice tube, evaporator, lines, accumulator, and many of the same HVAC components used in the heating system.



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E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized an Industrial Visit to **"MSRTC Divisional Workshop, Peth-Dindori Road, Nashik"** on 24-26 Sept. 2018. (AY 2018-19)

Objectives of Visit:

[1] To study the organization structure of MSRTC, Divisional Workshop.

[2] To observe, identify and understand the various automobile systems and components used in MSRTC buses.

[3] To observe and study the Hydrometer testing, cell testing of Battery and alternator tests.

[4] To observe & understand the working various automobile electrical systems and maintenance practices used in MSRTC Workshop.

Day 1: 24/09/2018TYME 1 53 No. of StudentsProf. A P Vadnere, Mr. S S Chaudhari10.00 amDay 2: 25/09/2018TYME 2 40 No. of StudentsProf. U S Kolhe, Mr. S B Kuldhar10.00 amDay 3: 26/09/2018TYME S 41 No. of StudentsProf. P R Chandwadkar, Mr. V G Dhanwate 10.00 amCoordinator of Visit:Prof. V B Kalmegh, Lecturer in Mech. Engg. & Coordinator of Ind. Visit Committee

Glimpses of Industrial Visit:

Visit to "MSRTC Divisional Workshop", Nashik



MSRTC (Maharashtra State Road Transport Corporation) Divisional Workshop, Nashik is divided into many subsections in order to maintain the quality and repair work of the different parts of bus correctly. The area of workshop is much bigger, that it can handle 20 buses at a time. The workshop does not produce the new buses it is just for maintaining and servicing of the working buses. After reaching the place we divided ourselves in group in order to proper understanding of everyone and then started to get information about different section.

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Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized a Seminar on "Career **Opportunities in Marine Engineering**" in association with TMC Shipping Pvt. Ltd., Nashik on Wednesday, 26th Sept. 2018 (AY 2018-19)

Objectives of Seminar:

Career Opportunities in Marine Engineering

[1] To know & identify careers opportunities in the marine engineering, transportation and offshore for Diploma Students.

[2] To know & identify the major barriers to accessing these opportunities.

[3] To recommend steps to enhance access to marine career opportunities after Diploma Engineering.

Resource Person: Ms. Savita Gaikwad, Director TMC Group, Nashik, Mr. Daljit Singh, TMC Shipping, Mumbai

Program Coordinator: Prof. J G Dhopte, Senior Lecturer in Mechanical Engg., Prof. V E Kothawade, coordinator-Expert Lecture Committee, Prof. P R Chandwadkar, Lecturer in Mech. Engg.

Venue: Class Room No. 307 Benefitaries: Third Year Students of Mech. Engg. Department

Glimpses of Seminar:



A career at sea is very challenging, demanding as well as rewarding. It offers level of job satisfaction, wide experience and challenging work environment. Experienced Marine Engineers are in great demand in all industries because of their ability to handle very large power plants, their resourcefulness, sense of responsibility and ability to work with their own hand with almost no external assistance. Further you can quickly gain responsibility and a salary to match.

A **Marine Engineer** is a very valuable and responsible member of a shipping crew. He has to operate and control all engineering system onboard his ship, and maintain them in good working condition. This gives him tremendous experience and confidence. On top of everything you get chance to travel and explore the world. Last but not the least there is a lifetime opportunity of learning and personal development.



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E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Department of Mechanical Engineering, MET BKC IOT-Polytechnic, & IEI Polytechnic Student's Chapter Organized a 2 days Camp on **"Road Safety Awareness & Female Safety Riding"** in association with Honda Motorcycles & Scooters India Ltd. RO, Pune on 11-12 Sept. 2018 (AY 2018-19)

Objective of Camp:

A look at some of the statistics on road safety presents a very grim picture worldwide and especially in an India. Road fatalities now leads the list of accidental deaths in India much more than any other accidental deaths such as by drowning, fire, rail or air mishaps etc. The magnitude of road accidents in India is increasing at an alarming rate. Road fatalities are due to a number of reasons, primary among them are faulty road and traffic policies, poor implementation of various laws governing road safety issues and last but not the least, the faulty engineering of road mechanics, may it be road design or traffic lighting etc. Furthermore, lack of awareness of road safety issues amongst the masses, low apathy of the policy makers and implementers etc add to the increasing problem of road safety. Keeping all the above mentioned snags in view, the Department of Mechanical Engineering & IEI Polytechnic Student's Chapter of MET BKC IOT-P Nashik is interested to arrange a Camp on **"Road Safety Awareness & Female Safety Riding"** for all the Third Year Diploma Students of Our Institute in association with "Honda Motorcycle & Scooter India Pvt. Ltd., RO, Pune on **11 & 12th September 2018.**

Resource Person: Mr. Swapnil Jawaharkar, Technical Executive, Honda Motors, Nashik.

Chief Coordinator: Prof. A P Vadnere, Adviser of IEI PSC & HOD-ME

Program Coordinators:Prof. S A Mandore, Prof. P P Badgujar, Prof. V E Kothawade, Lecturer in Mech.Engg., IOT-P.Venue:IOT-Polytechnic Seminar HallDuration:12.30 pm onwards



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AS SHARP AS YOU CAN GET

THE MET LEAGUE OF COLLEGES

Bhujbal Knowledge City, MET's IOT-Polytechnic, Nashik

E-Newsleeter of Department of Mechanical Engineering (Vol. 2 : Issue-3)

Traffic light's 100th Anniversary: When was the first traffic light installed?



Traffic Light Tree, created by French sculptor *Pierre Vivant*, in Canary Wharf.



They are the bane of impatient motorists and are responsible for thousands of road rage incidents across the globe. Now the humble traffic light has been honored to celebrate its 100th Anniversary on Wednesday.

[1] The first ever traffic lights were unveiled in London in the late 19th century, and placed outside the Houses of Parliament.

[2] Non-electric and gas-operated, police officers had to work the lights by hand in a bid to control vehicles crossing on nearby Bridge Street, Great George Street and Parliament Street.

[3] The project was short-lived after an explosion in 1869 when a leak in gas lines passing under the device exploded, and seriously injured the police officer operating the lights.

[4] More than thirty years later an American enjoyed greater success with some electronic lights that focused on a similar - and now internationally recognizable - system of red and green lights.

[5] Lester Wire, a former detective in Salt Lake City, came up with the revolutionary idea in 1912, and traffic lights began springing up across the United States shortly after.

[6] In 1920 bells were added to Mr. Wire's traffic light system to alert motorists when the lights were about to change - they were later placed with the amber light now seen on all tragic light systems today.

[7] It wasn't until 1990 that countdown timers were introduced, allowing pedestrians to judge whether there is enough time for them to cross the road before the lights turns red.

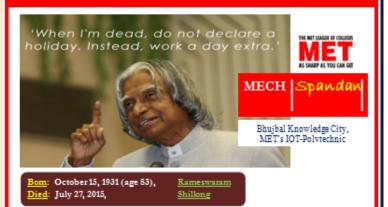
[8] Perhaps the most impressive traffic light specimen ever to be unleashed on the world's streets was the Traffic Light Tree, created by French sculptor Pierre Vivant in 1998.

These days, traffic lights are highly sophisticated, incorporating special light symbols for bikes, trams and buses. Some also feature signals that are interruptible, giving priority to emergency vehicles via transmitters that send radio waves, infrared signals, or strobe light signals that are received by a sensor on or near the traffic lights.



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Quotes by Renowned Mechanical Engineer:



Avul Pakir Jainulabdeen Abdul Kalam was the 11th President of India from 2002 to 2007. A career scientist turned statesman, Kalam was born and raised in Rameswaram, Tamil Nadu, and studied physics and Aerospace Engineering at Madras Institute of Technology.

Inspiring Quotes by Bharat Ratna Dr. Abdul Kalam: Here are few of his best quotes that will inspire us forever:

[1] Unless India stands up to the world, no one will respect us. In this world, fear has no place. Only strength respects strength.

[2] We will be remembered only if we give to our younger generation a prosperous and

safe India, resulting out of economic prosperity coupled with civilization heritage. [3] One of the very important characteristics of a student is to question. Let the student ask questions.

[4] Science is a beautiful gift to humanity: We should not distort it.

[7] Excellence is a continuous process, and not an accident.

[8] Learning gives creativity, Creativity leads to thinking. Thinking provides knowledge, Knowledge makes you great.



Industrial training at Measurewel, Aurangabad



| IET | Department of Mechanical Engineering, IOT-P | Industrial training at CIPET, Aurangab | |
|--|--|--|--|
| Programme Educational Objectives of Dept. of Mech.Engg., IOT-P | | | |
| PEO 1 | Provide socially responsible, environment friendly solutions to Mechanical engineering | | |
| | related broad-based problems adapting profes | sional ethics. | |
| PEO 2 | Adapt state-of-the-art Mechanical engineering broad-based technologies to work in multi- | | |
| | disciplinary work environments. | | |
| PEO 3 | Solve broad-based problems individually and as a team member communicating effectively | | |
| | in the world of work. | | |

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Aurangabad



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Student's Corner

"Quality of Environment"

The definition of environment is that "the surroundings or conditions in which a person, animal or plant lives or operates. In order to create the quality environment, a number of organizations and institutions have been trying and striving to protect the environment to avoid adverse effect to human beings, trees and other creatures. The individuals may do the following things to contribute towards making the quality environment:

[1] Switch off the lights, fans or ACs when not needed.

[2] Turn off the water tap tightly always after the use.

[3] Keep home and surrounding areas completely clean.

[4] Adapting simple, natural and spiritual way of living.

[5] Water, air and noise pollutions are to be prevented.

[6] The "5-S" technique to learn & implement.

- Kadekar Siddharth S (TYME 1)

Program Specific Outcomes

| PSO 1 | Modern Software Usage |
|-------|----------------------------------|
| PSO 2 | Equipment and Instruments |
| PSO 3 | Mechanical Engineering Processes |

Department of Mechnaical Engineering, MET's Institute of Technology (Polytechnic), Nashik Bhujbal Knowledge City, Adgaon, Nashik-422 003 (M.S.) www.metbhujbalknowledecity.ac.in

Queries, Comments, Feedback, Suggestions, and Informative Articles may be sent to:

mech.spandan@gmail.com



Kadekar Siddharth S TYME 1 (AY 2018-19)