



SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED

N.G.PATELPOLYTECHNIC

Bardoli-Navsari Road, At:Isroli, Po:Afwa, Tal:Bardoli, Dist:Surat-394620

Institute Website: www.ngpatelpoly.ac.in

**Mechanical
Engineering
Department
Newsletter**

Issue: Jan 2021

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AcademicTerm:2020/02

Academic Year: 2020-21

Vision of the Department

Achieve excellence in Mechanical Engineering by imparting quality education, technical skill and providing competent mechanical engineers to the society and the nation as a whole.

Mission of the Department

- To impart mechanical engineering knowledge through trained faculty in conducive environment.
- To develop in them, ability for pursuing higher studies in the field of mechanical engineering.
- To motivate students for lifelong learning and create awareness to make them industry responsive.

Department Profile

Shrimad Rajchandra Mechanical Engineering Department established in the year 1997 with intake of 60 students, is one of the oldest departments of the institute, achieving new benchmark every year. The department has 09 well qualified faculty members and 03 supporting staff lead by Head of the Department Prof. M. M. Jikar. In the year 2001 the intake capacity increased to 120 students.

In the year 2012, second shift was introduced with further increase of 60 students till the year 2017. Since the year 2020, the department has total intake capacity of 60 students every year.

It is established with the aim of quality education to the students. The departmental library helps the students in having ready references. Industrial visits & Expert speeches are the regular features of the department.

The department has organized various state level conferences, seminars, workshops, webinars, STTPs, FDPs, etc. Department has achieved noteworthy placement of pass out students in over industries through campus interviews.

Shrimad Rajchandra Mechanical Engineering Department has a status of reputed branch at regional level. It is working with the principle, "SEE YOUR WAY FORWARD".

Newsletter Committee

Mr. M. M. Jikar Head of Dept.	Mr. H. J. Patel Lecturer	Mr. V. H. Patel Ad. Lecturer	Mr. S. H. Patel Lab Assistant	Mr. K. D. Mahida Student M-18
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Program Educational Objectives (PEOs)

Mechanical Engineering Department strives to make the students to be able to:

- PEO-I: Apply fundamental disciplinary knowledge to solve real life engineering problems.
- PEO-II: Engage themselves to contribute to the academics for socio technological development.
- PEO-III: Develop professional ethics and responsibilities towards socio-economical activities.
- PEO-IV: Demonstrate lifelong learning skills by engaging in professional activities and up-gradation of knowledge quotient.

Placement Details:

As a part of our tradition, there are numerous industries had visited for the placement either offline or online due to COVID situation and more industries are in a row for placement of the students' of 2018 batch who will be graduated in May 2021.

Department Level Activities (July to Dec 2020, Term – 201, AY – 2020-21):

- The department has organized STTP on “An Overview of “Non Destructive Testing” on 29th July 2020 to 31th July 2020. About 96 students of M – 2018 have attended this program
- The department has organized STTP on “RECENT TRENDS IN INTERNAL COMBUSTION ENGINE SYSTEMS AND ALTERNATIVE FUELS” on 20th August 2020 to 22th August 2020. About 136 students of M – 2018 & M – 2019 have attended this program.
- The department has organized STTP on “An Overview of SolidWorks” on 16th September 2020 to 27th September 2020. About 127 students of M – 2018 have attended this program.
- The department has organized STTP on “THERMAL SYSTEMS ENGINEERING-AN OVERVIEW” on 27th October 2020 to 29th October 2020. About 73 students of M – 2018 have attended this program.
- The department has organized online Webinar on “Variance of Machine elements design” on 16th July 2020. About 95 students of M 2017 have attended this Webinar.
- The department has organized online Webinar on “Fundamental concept of refrigeration systems” on 23th July 2020. About 95 students of M 2017 have attended this Webinar.
- The department has organized online Webinar on “Supply chain management for projects” on 29th August 2020. About 95 students of M 2017 have attended this Webinar.
- The department has organized online Webinar on “Electric Vehicles – The new automobile era” on 31th August 2020. About 71 students of M 2018 have attended this Webinar.
- The department has organized online Webinar on “Self Employment” on 29th October 2020. About 65 students of M 2018 have attended this Webinar.
- No industrial visit was possible due to pandemic situation of COVID-19.

Eminent Speakers of the STTP

Speaker 1:
 Date: 29-07-2020
 (Time: 3:00 pm onwards)
 Prof. Harshil B. Nayak
 Asst. Prof. Mechanical Engg., RINGPIT
 M. Tech (CAD/CAM)
 NDT Level II (DPT/MP/UT/RT) as per ASNT
 Topic: Dye Penetrant Test

Speaker 2:
 Date: 31-07-2020
 (Time: 3:00 pm onwards)
 Prof. Gaurang K. Champaneri
 Asst. Prof. Mechanical Engg., RINGPIT
 M. Tech (CM)
 NDT Level II (DPT/MP/UT/RT) as per ASNT
 Topic: Ultrasonic Test

Speaker 3:
 Date: 30-07-2020
 (Time: 3:00 pm onwards)
 Prof. Bhargav B. Patel
 Asst. Prof. Mechanical Engg., RINGPIT
 M. Tech (PED)
 NDT Level II (DPT/MP/UT/RT) as per ASNT
 Topic: Magnetic Particle Test

N. G. PATEL POLYTECHNIC
 Tajiore Campus, Bardoli, Surat.
MECHANICAL ENGINEERING DEPARTMENT
 3 Days Short Term Training Program On
**"RECENT TRENDS IN INTERNAL COMBUSTION ENGINE SYSTEMS
 &
 ALTERNATIVE FUELS"**
 Date: 20th August – 22nd August Time: 10:20 am onwards

Eminent Speakers of the STTP

Prof. Vikram A. Miroy
 Asst. Prof. Mechanical Engg., RINGPIT
 M. E. (C.E. (Appl. & Instrumental))
 Date: 20-08-2020
 Topic: Introduction to IC engine and Theoretical and Actual Valve Timing Diagram
 Date: 21-08-2020
 Topic: Cooling system in I.C. engine
 (Time: 10:20 am onwards)

Prof. Sachin K. Meral
 Asst. Prof. Mechanical Engg., RINGPIT
 M. Tech (Automobile Technology)
 Date: 21-08-2020
 Topic: Working of carburetor
 Date: 22-08-2020
 Topic: Fuel supply system in C.I. engine
 (Time: 10:20 am onwards)

N. G. PATEL POLYTECHNIC
Tajpore Campus, Bardoli, Surat.
MECHANICAL ENGINEERING DEPARTMENT
Three Day Short Term Training Program On
"An Overview of SolidWorks"
Date: 25th Sept. to 27th Sept., 2020. Time: 10:30 am onwards

Eminent Speakers of the STTP

<p>Date: 25-09-2020 Time: 10:30 am onwards Prof. Dr. Jitendra K. Bhatnagar Asst. Prof. Mechanical Engg. (M.E.) Topic: Solid and Assembly Modeling</p>	<p>Date: 26-09-2020 Time: 10:30 am onwards Prof. Dr. Chirag B. Desai Asst. Prof. Mechanical Engg. (M.E.) Topic: Simulation and Analysis</p>
<p>Date: 26-09-2020 Time: 10:30 am onwards Prof. Dr. Jitendra K. Bhatnagar Asst. Prof. Mechanical Engg. (M.E.) Topic: Solid and Assembly Modeling</p>	<p>Date: 27-09-2020 Time: 10:30 am onwards Prof. Dr. Chirag B. Desai Asst. Prof. Mechanical Engg. (M.E.) Topic: Simulation and Analysis</p>

N. G. PATEL POLYTECHNIC
Tajpore Campus, Bardoli, Surat.
MECHANICAL ENGINEERING DEPARTMENT
Three Day Short Term Training Program On
"Thermal System Engineering-An Overview"
Date: 27th Oct. to 29th Oct., 2020. Time: 10:30 am onwards

Eminent Speakers of the STTP

<p>Date: 27-10-2020 Time: 10:30 am onwards Dr. A. B. Chaudhari Asst. Prof. Mechanical Engg. (M.E.) Topic: Thermodynamics - An Overview</p>	<p>Date: 28-10-2020 Time: 10:30 am onwards Prof. V. R. Bhargava Asst. Prof. Mechanical Engg. (M.E.) Topic: Derivation of Refrigeration systems</p>
<p>Date: 28-10-2020 Time: 10:30 am onwards Prof. A. S. Desai Asst. Prof. Mechanical Engg. (M.E.) Topic: HVAC and Latest opportunities in HVAC</p>	

N.G.PATEL POLYTECHNIC (637)
At: Isroli, Bardoli-Navsari Road (Tajpore Campus)
Ta: Bardoli, Dist: Surat. Ph: 9512900459
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Mechanical Engineering Department

Webinar on

"Variance of Machine Elements Design"

Date: 16/07/2020 Time: 10:30 AM

SPEAKER:
Prof. Kalpan M. Desai
M. Tech. in Machine Design
I/C Principal
S.S.Agrawal Inst. Of Engg. & Tech., Navsari

: Join with :
<https://meet.google.com/vjz-nuuw-gbu>

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Mechanical Engineering Department

Webinar on

Fundamental Concepts of Refrigeration Systems and Recent Trends

DATE : 23/07/2020, TIME : 10:30 AM

Speaker :
Mr. Anurag P. Solanki,
Ph.D (Packaging) : Thermal Management of Electronic Devices,
M.E. From SVMIT,
Assistant Professor,
Department of Mechanical Engineering,
Shree S. R. Rotary Institute Of Chemical Technology (SRCT),
Ankleshwar

<https://meet.google.com/ckx-gqwy-ime>

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Mechanical Engineering Department

Webinar on

Supply Chain Management for Engineering Projects

DATE : 29/08/2020, TIME : 03:30 PM

Speaker :
Mr. Pranjal Parikh,
AGM- SCM & Subcontracts - MRU,
Technology Block - Second Floor,
I&T Heavy Engineering, Gate No-1,
Hansa Manufacturing Complex,
PO - Bhaitha, Surat - 394 510
Gujarat (INDIA)

<https://meet.google.com/dcz-tziv-osv>

N.G.PATEL POLYTECHNIC
(Approved by A.I.C.T.E and Affiliated to Gujarat Technological University)
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Mechanical Engineering Department

Webinar on

Self Employment

Date : 29/10/2020, Time : 3:00 PM

Speaker :
Mr. Nirmal Mahida
Diploma in Mechanical Engineering
(Alumni of NGPP MECH)
Experience 3 Years

Meeting Id : 763 6674 2728
Password : ngppmech

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Mechanical Engineering Department

Webinar on

Electric Vehicles-The New Automobile Era

Date : 31/08/2020, Time : 3:30 PM

Prof. Omkamal Vashi
Assistant Professor,
Parul Institute of Technology,
Parul University, Vadodra
M. Tech. (Mechanical Engineering)

Meeting Id : 485 010 5226
Password : ngppmech

Recent Results:

The result of Mechanical 17 class as declared by university is as follows (Semester 6):

Class	Total appeared students	Total pass students	% Result	Program Ranking at GTU level	Program Ranking at Zone level
M - 17	61	61	100	***	***

*** Rank is not provided by GTU due to exams were held in three phases with multi-mode (i.e., Online, Offline etc.)

The result of Mechanical 18 class as declared by university is as follows (Semester 4):

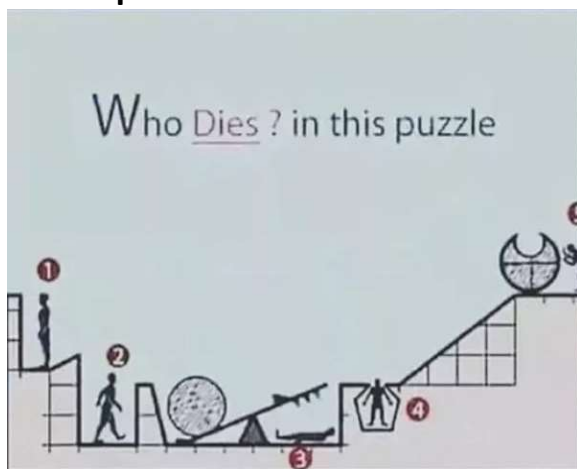
Class	Total appeared students	Total pass students	% Result	Program Ranking at GTU level	Program Ranking at Zone level
M - 18	61	55	90.16	53	10

The result of Mechanical 19 class as declared by university is as follows (Semester 2):

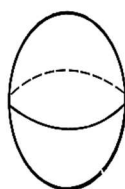
Class	Total appeared students	Total pass students	% Result	Program Ranking at GTU level	Program Ranking at Zone level
M - 19	67	58	86.57	32	08

Student's Corner:

Solve the puzzle



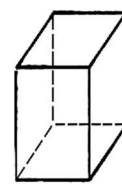
A line runs through the middle of a 3-D shape such that it is equidistant from all surfaces. What is the shape?



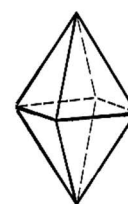
a) a sphere



b) a cylinder
(with no ends)



c) a cube



d) an octahedron

Prepared by: Gandhi Tirth (196370319017)

Prepared by: Harsora V. N. (196370319021)