



# K. D. Polytechnic Patan

The official news Letter of  
Mechanical Engineering Department



Issue-08, July-Dec 2025

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## Institute Vision

To impart quality technical education and create an ethically sound class of well-trained youth that can achieve opportunities in industries and serve the society.

## Institute Mission

- To develop well-equipped laboratories and good academic infrastructure.
- To promote co-curricular and extracurricular activities for overall personality development of the students.
- To strengthen industry institute interaction.
- To inculcate entrepreneurial skills.
- To instill discipline and social awareness among students and enable them to deal with practical problems in daily life.



## Message from Principal

### Shri R. M. Shaikh

Our Nation is developing phase, Development and sustainability of nation is proportional with the development of industries. Industrial development is dependent on the availability of trained and skilled manpower. The K. D. Polytechnic, Patan offers a variety of courses, with an emphasis on basic to advanced engineering tools and techniques, rigorous tasks and project-based learning under the guidance of experienced mentors.

We believe that students of K. D. Polytechnic, Patan would excel across multi dimensions, like knowledge domain, skills, communication, basic human values and environmental consciousness. We are making sincere efforts for the holistic development of the students hence we have succeeded in maintaining our position among leading Diploma Institute in Engineering in the state.

The Training and Placement cell works tirelessly towards ensuring employment for all students across various industries and helping for Startups through the Gujarat of Government SSIP policy to transforms ideas into product.

I wish them all the very best to all for their bright futures and we are associated with the students for achieving & fulfilling their academic pursuits throughout their stay at the campus and even after.

## Message from HOD

### Shri. H. C. Parmar

A warm and Green Greetings from the Department of Mechanical Engineering at K D Polytechnic, Patan.

Mechanical engineering plays a significant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. It is one of the oldest and broadest engineering discipline. Mechanical Engineering is a professional Core engineering discipline that deals with the design, production and maintenance of any produce of any industry.

Our department always work with the motto "Nothing can be achieved without genuine effort." The core values of the department help the students to develop their overall personality and capable them to work at global level. Our department has a team of highly qualified and experienced faculty, good infra structure and lab facilities. We are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and technology. Our faculty are continuously attending various training programs, publishing research papers, books and filing patents. Many are pursuing research.

We are happy to share that many students are pursuing higher studies in leading universities in India and abroad. I am certain that our students will prove to be an invaluable asset to an organization.

## Department Vision

To impart quality technical education and prepare competent diploma mechanical engineers to cater industry needs and carry out innovation.

## Department Mission

- To Adopt outcome base curricula and implement innovative teaching learning process for realizing outcome base education.
- To Provide opportunities to the students for the development of professional skills.
- To Inculcate life-long learning approach in the students.

## Program Educational Objectives

- To Adopt outcome base curricula and implement innovative teaching learning process for realizing outcome base education.
- To Provide opportunities to the students for the development of professional skills.
- To Inculcate life-long learning approach in the students.

## Faculty Achievements



**Shri. H. V. Thakkar**  
**Shri. M. K. Modh**  
**Shri. R. H. Prajapati**

## ઉદ્યમ યાત્રા – 2025- Certificate of Participation

Udayamayatra 2025 – National Conference on Manufacturing and Industry 4.0, held at Government Polytechnic, Ahmedabad from 31st July to 2nd August 2025 under AICTE-VAANI scheme.

The collective scholarly contribution and participation of all the above authors, representing esteemed institutions, and commend their efforts in advancing academic research.

- **Detail Review of Solar Desalination Techniques**



**Shri R. H. Prajapati- Lecturer**

**Shri K. S. Patel- Lecturer**

**Book published**

**Course Name:- Pollution Control Engineering**

**Course Code: DI03002011**

**Author Name:- Shri R. H. Prajapati & Shri K. S. Patel**

**Semester: - III (Automobile Engineering)**

## About the Climate Change Department

- Climate Change Department (CCD) in Gujarat, Gandhinagar, is a pioneering, dedicated department focused on building a sustainable, climate-resilient future. It is the first such department in Asia and fourth in the world, facilitating mitigation, adaptation, and policy implementation.

## Objectives of Dept:

- The department aims to promote a low-carbon growth pathway, reduce greenhouse gas emissions, and empower communities through education and awareness.



## Faculty Achievements



### Shri. S. R. Modi

Lecturer Mechanical

### Climate Change Award Winner- 2025-26

Dt:- 16<sup>th</sup> Sept 2025

Venue:- Dwarka Hall, Swarnim Sankul-2, Gandhinagar

By : Shri Mulubhai Bera (Cabinet minister, CCD Dept)

### About the Achievement:-

Conducting energy & environmental conservation awareness programs at Govt Polytechnic Colleges, Introducing Green Curriculum in Diploma Education System, Tree plantation drives, Plastic free campus drives, Earth Day celebration, Say "NO to single use plastic" drive, and Establishing Energy Club in our inst.



### Shri C. N. Desai- Lecturer




### ઉદ્યમ યાત્રા – 2025- Certificate of Participation

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1. ગણિત આધારિત મેન્યુફેક્ચરીંગ મોડલીંગ
2. ભાષા, સંસ્કૃતિ અને ટેકનોલોજી નું એકીકરણ

# Bright Students

## SEMESTER-3

|                 | Rank-1  | Rank-2  | Rank-3   |
|-----------------|---|---|--|
| NAME            |  |  |  |
|                 | KAPDI AJITKUMAR<br>DINESHBHAI   | PARMAR MIT VALAJIBHAI   | ZALA SURESHKUMAR<br>KIRTISANG  |
| ENROLLMENT NO   | 256318319001  | 246310319037  | 256318319006   |
| SPI (OUT OF 10) | 7.95  | 7.86  | 7.32   |

## SEMESTER-5

|                 | Rank-1   | Rank-2   | Rank-3  |
|-----------------|--|--|---|
| NAME            |  |  |  |
|                 | PATEL MANN VIPULKUMAR  | RATHOD DIP UDESINH   | PATEL YASHKUMAR<br>BHARATBHAI   |
| ENROLLMENT NO   | 236310319043   | 236310319072   | 236310319052  |
| SPI (OUT OF 10) | 9.7  | 8.65   | 8.6   |

## Bright Students

Bright students in college are nurtured through specialized, high-level, and career-oriented support, including advanced assignments, industry-specific add-on courses, and technical project mentorship.

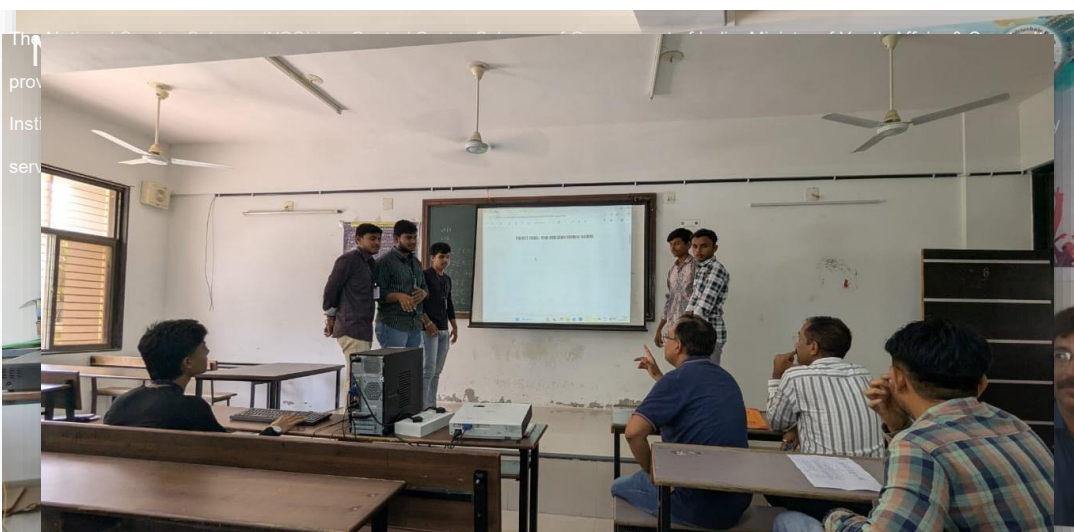
**Key strategies for supporting bright students include:**

- Academic Enrichment
- Skill Development
- Mentorship
- Performance Recognition

### Identifying Bright Students

Institutions typically identify bright students based on their high scores in internal assessments (often >70% or top performers), active class participation, critical thinking skills, and previous semester results

# SSIP 2.0



 **K. D. Polytechnic Patan**   
**Student Startup & Innovation Policy**  
"SSIP 2.0 Project fair - 2023"  
Organized by: SSIP Cell, K. D. Polytechnic, Patan  
Date & Venue: 05/05/2023, HE LAB, Main Building

## Student Start up & Innovative Policy SSIP 2.0

The Student Startup and Innovation Policy (SSIP) 2.0 is the updated version of the SSIP 1.0 policy launched by the Government of Gujarat in January 2022. The policy period is of 5 years (January 2022 – March 2027). The aim of SSIP 2.0 is to build on the success of the previous policy and take it to the next level by providing more comprehensive support to the startups and entrepreneurs in the state.

Event 1 – SSIP 2.0 Ideathon 2025 dated on 22-09-2025

Event 2 - SSIP Sensitization Program for Sem-3 Mechanical Dept dated on 18-07-2025

The  
pro  
Insti  
sen

## INDUSTRIAL Visit



### Captive 11 Mw Greenpill Gujarat Solar Park, Sujanipur

19<sup>th</sup> August 2025

Sem: - 5<sup>th</sup>

No of Students: - 33

No of Faculties: -02

This project awarded under phase 1 of Gujarat Solar Power policy 2009 will be the first major project commissioned under the Gujarat Solar Mission.

This industrial visit is beneficial to enhancing practical knowledge.

### Dudhsagar Dairy, Patan

15<sup>th</sup> Oct 2025

Sem: - 5<sup>th</sup>

No of Students: - 42

No of Faculties: -02

Dudhsagar Dairy, located in Hansapur, Patan, is a key plant under the Mehsana District Co-operative Milk Producers' Union Limited (established 1960), part of India's largest cooperative dairy network.

## Industrial Visit



## INDUSTRIAL Visit



## Expert Seminar on Mind Market

Expert Name-

Shri B. M. Patel

Lecturer  
Electrical

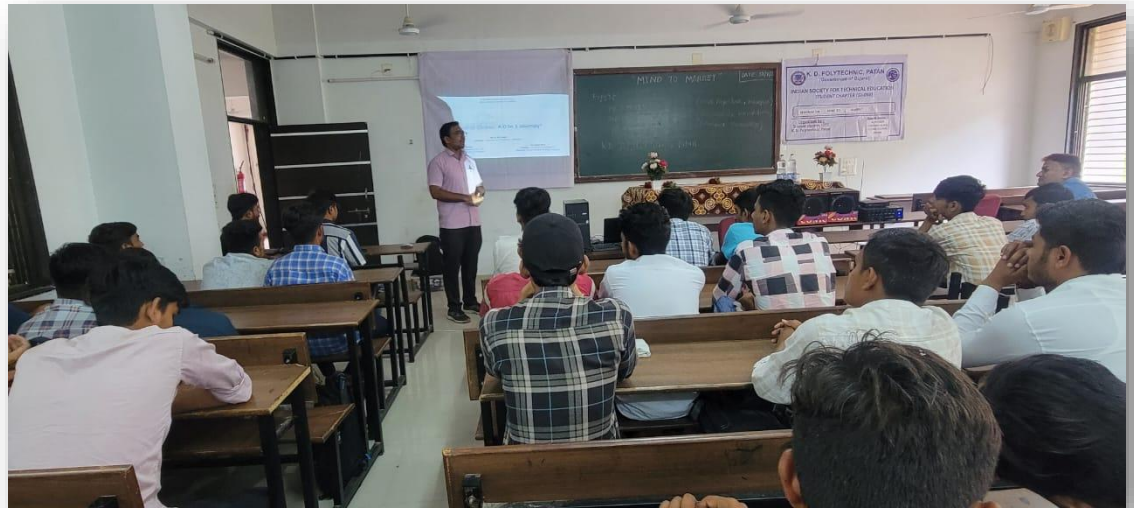
Govt Polytechnic  
Palanpur

31<sup>th</sup> July 2025

Sem: - 5<sup>th</sup>

No of Students: - 22

## Expert Lecture



# Finishing School



## Finishing School

A Finishing School programme is a specialized, short-term training initiative (often 80 hours) designed for final-year college students to bridge the gap between academic knowledge and industry requirements. It focuses on enhancing employability through Functional English, Life Skills, and soft skills training to make graduates job-ready.

### ENERGY SAVING TIPS

THROUGH THE GREEN IMPACT PROGRAMME, WE ARE ALWAYS TRYING TO BE MORE ENERGY EFFICIENT IN OUR OFFICE. TO HELP YOU CONTINUE THE GREAT WORK, HERE ARE SOME TOP TIPS FOR SAVING ENERGY.



#### LIGHTS

Remember to switch off lights when you leave your area of the office. People can turn the light back on again if they need to!

#### COMPUTERS

At the end of the day shut down your computer properly - at the plug if possible. If your computer needs to stay on please switch off the screen.



#### CHARGERS

Switch it off and save! Unplug any chargers when they are not in use as even mobile phone chargers continue to use electricity when they aren't charging.

#### IN THE KITCHEN

Switch off the light when leaving the kitchen and remind others to do the same! Turning off the microwave and toaster can also save energy.



#### PRINTERS

Remember that the MDF printer cannot be turned off at the plug. Instead put the printer in sleep mode and print double-sided to save paper!

#### SUGGESTIONS?

If you have more suggestions of any energy saving tips please email [carbonmanagement@qub.ac.uk](mailto:carbonmanagement@qub.ac.uk)



### Finishing School Activities during 2025-26

| Sr No | Content of Training         | Name of Trainer    | Duration                 | Mech student participation | Mode of training |
|-------|-----------------------------|--------------------|--------------------------|----------------------------|------------------|
| 1     | Functional English Skill    | Mr. Abhishek Desai | 29-12-2025 to 08-01-2026 | 13                         | Offline          |
| 2     | Job ready- Employment Skill | -                  | 10-09-2025 to 10-01-2026 | 14                         | Online           |

# NSS Activities



## National Service Scheme- NSS Activities

The National Service Scheme (NSS) is a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports. It provides opportunity to the student youth of 11th & 12th Class of schools at +2 Board level and student youth of Technical Institution, Graduate & Post Graduate at colleges and University level of India to take part in various government led community service activities & programmes. The sole aim of the NSS is to provide hands on experience to young students in delivering community service.

The Motto of NSS

**"Not Me But You"**



Joy of Giving- 09-10-2025



Vyasan Mukti Abhiyan- 28-07-2025

# Gymkhana Activities

## List of Gymkhana Activities

- Independence Day Celebration
- Nasamukti Seminar
- Tiranga Yatra
- Sapath for Tiranga
- Navaratri Celebration
- Birsa Munda Jayanti Event



Independence day celebration- 15-08-2025



Thelesemia Test- 02-12-2025



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- Tiranga Yatra
- Spath for Tiranga
- Navaratri Celebration
- Birsa Munda Jayanti Event



Navratri Celebration at KDP Campus- 26-09-2025



Nasa Mukta Bharat Abhiyan- 16-10-2025



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- Independence Day Celebration
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- Navaratri Celebration
- Birsa Munda Jayanti Event



**Birsa Mundaji Jayanti Event- 07-11-2025 to 13-11-2025**



**Har Ghar Tiranga – 11-08-2025**





## Mission Life Activities

### Mission Life Program Activities

Mission Life can become mass movement of Environmental Conscious life style.

What is need today is mindful and deliberate utilization, instead of mindless and destructive consumption.

### 7 main objectives of mission life program

- Save Energy
- Save Water
- Reduce Waste
- Reduce E-waste
- Adopt Healthy life style
- Adopt Sustainable food system
- Say NO to single use plastic



Plastic Free Campus Drive- 23-12-2025



Save Energy Campaign thru Poster Awareness Drive- 14-12-2025



**ENERGY CLUB**  
KDP PATAN



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# Mission Life Activities

The National  
**Energy Conservation Day 2025**  
to be celebrated on  
**14<sup>th</sup> December 2025**

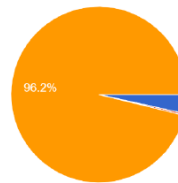
NEC Day Online Quiz 2025, KDP Patan, 14th Dec 2025

Total 317 responses received

Faculties: - 11

Students: - 306

Occupation  
317 responses



● Faculty  
● Admin staff  
● Student

Online Quiz on NEC Day 2025- 14th Dec 2025



## Editor's Note:-

*It gives us an immense pleasure to introduce this Newsletter of Mechanical Engineering, named "Shashvat"*

*I am grateful to our honorable Principal and HOD who gave this opportunity. It has been a learning experience to us. I am also thankful to all staffs for their co-operative nature. At last but not least we are thankful to all those helped us directly and indirectly.*

**Shivam R. Modi**  
*Lecturer Mechanical Engineering*