



# K. D. Polytechnic Patan

The official news Letter of  
Mechanical Engineering Department



Issue-06, July-Dec 2024

Vision & Mission **P.1**

Principal & HOD message **P.2**

Faculty Achievements & SSIP **P.3**

Industrial Visits **P.4**

NSS, Gymkhana, Mission life events **P.5**

## 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



### Dr. N. J. Prajapati

Lecturer Mechanical

#### Paper Published

**Title:-** “Experimental investigation on Ultrasonic Assisted Powder Mixed wire cut Electric Discharge Machining for Aluminium Carbon Fiber Metal Matrix Composite”

#### About Achievement:-

The university declares Prajapati Niravkumar Jayantibhai eligible for award of the degree of “Doctor of Philosophy” (Ph.D.) of Gujarat Technological University, Ahmedabad dated on 17<sup>th</sup> Oct 2024.



### Shri R. H. Prajapati- Lecturer

### Shri D. K. Raval- Lecturer

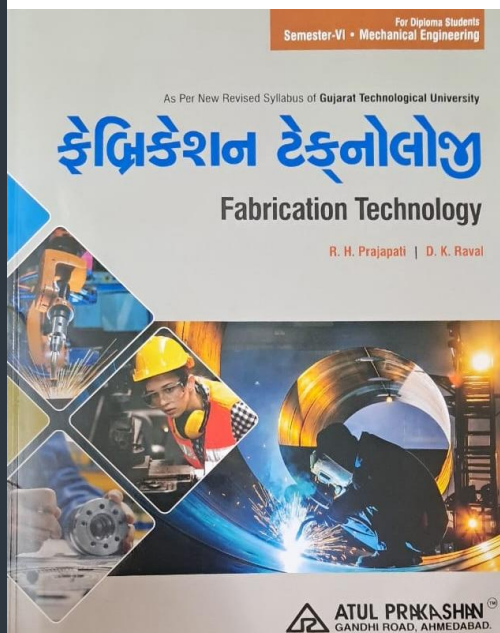
#### Book published

**Course Name:- Fabrication & Technology**

**Course Code: 4361907**

**Author Name:- Shri R. H. Prajapati & Shri D. K. Raval**




**Semester: - IV**






ATUL PRAKASHIN  
GANDHI ROAD, AHMEDABAD.

# Bright Students




## SEMESTER-5

	Rank-1	Rank-2	Rank-3
NAME			
	THAKOR JAYDIPSINH VASANTJI	RAVAL SARVAGNA DHRUVKUMAR	SHARMA AMAN BRAHMANAND SHARMA
ENROLLMENT NO	226310319064	226310319056	226310319058
SPI (OUT OF 10)	9.7	9.55	9
	GTU Rank 7 (Branch CPI Wise)	GTU Rank 3 (Branch CPI Wise)	—

## SEMESTER-3

	Rank-1	Rank-2	Rank-3
NAME			
	PATEL MANN VIPULKUMAR	PATEL YASHKUMAR BHARATBHAI	MALIK ADNAN ANVARAHEMAD
ENROLLMENT NO	236310319043	236310319052	236310319018
SPI (OUT OF 10)	9.26	8.04	7.43

## SEMESTER-1

	Rank-1	Rank-2	Rank-3
NAME			
	HRISHIKESH RAVAL	PATEL TIRTH ALKESHKUMAR	PATEL RAJ NATHABHAI
ENROLLMENT NO	246310319016	246310319057	246310319052
SPI (OUT OF 10)	7.95	7.76	7.29



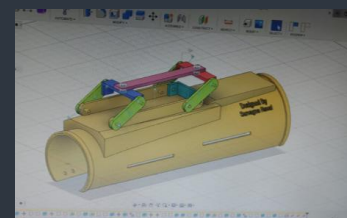
## The You tube channel - Sarvagna Raval

### DIY Videos

I have a youtube channel named SARVAGNA RAVAL which is related to DIY projects. I uploaded 86 videos and 26 shorts which are related to technical projects.

3 years ago I made an Ironman Hand Gauntlet prototype which is my main project. Then I made that again 3 times to make it more advance.

And now I'm going to make whole 3d printed gauntlet which is gonna be more efficient. I already made its Design in Fusion 360. Which you can see in this image.



- Sarvagna Raval

# SSIP 2.0



**K. D. Polytechnic Patan** **SSIP**  
**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 Sensitization Program at BIPS School Patan dated on 02-08-2024

Event 2 - SSIP Sensitization Program at Eklavya School Patan dated on 06-08-2024

Event 3 - SSIP Sensitization Program at KDP Patan for 1<sup>st</sup> sem dated on 05-08-2024

## INDUSTRIAL Visit



### Captive 15 Mw Solar Power Plant, Vadani

24<sup>th</sup> Sept 2024

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

No of Students: - 30

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 in following diploma courses:

- Renewable & Green Energy

### Dudhsagar Dairy, Patan

29<sup>th</sup> Nov 2024

Sem: - 3<sup>rd</sup>

No of Students: - 30

No of Faculties: -02



Rani ki Vav, Patan

Unesco World heritage site

## Industrial Visit





**CHOOSE PUBLIC TRANSPORT,  
OR OPT FOR A CARPOOL**

If a single person switches from a **32 Kilometer** commute alone by car to existing public transportation, it can reduce their annual CO<sub>2</sub> emissions by **9 Kilogram per day**, or more than **21,000 Kilogram** in a year.

# Placement



## Training & Placement Cell

The Training and Placement cell works tirelessly towards ensuring employment for all students across various industries and helping budding entrepreneurs in establishing successful businesses.

Hyfun Foods

Dt: 06-08-2024

# Placement



## 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.



# 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- 23-10-2024**



**National Constitution day Celebration- 25-11-2024 (EBSB)**

# Gymkhana Activities

## List of Gymkhana Activites

- Independence Day Celebration
- Tree Plantation
- Nasamukti Seminar
- Tiranga Yatra
- Quiz on Independence Day
- Spath for Tiranga
- Navaratri Celebration
- Vikshit Bharat Quiz



Independence day celebration- 15-08-2024



Tree Plantation- 21-07-2024



# Gymkhana Activities

## List of Gymkhana Activities

- Independence Day Celebration
- Tree Plantation
- Nasamukti Seminar
- Tiranga Yatra
- Quiz on Independence Day
- Spath for Tiranga
- Navratri
- Vikshit Bharat Quiz



Navratri Celebration at KDP Campus- 05-10-2024



Nasa Mukht Bharat Abhiyan- 12-08-2024



# Gymkhana Activities

## List of Gymkhana Activities

- Independence Day Celebration
- Tree Plantation
- Nasamukti Seminar
- Tiranga Yatra
- Quiz on Independence Day
- Spath for Tiranga
- Navaratri
- Vikshit Bharat Quiz



Tiranga Yatra- 13-08-2024



Quiz on Independence Day – 14-08-2024



## 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



## Mission Life Activities



Expert Session Mission LiFE Program at GP Palanpur- 10-10-2024



Expert Session Mission LiFE Program at GP Vadnagar- 22-10-2024

### 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