

TechEra..2021-22

About Department



Prof.Pratiksha
Shevatekar

Head of Department

Department of Computer Engineering of DYPIEMR offers a broad undergraduate Pune University curriculum, based on theoretical foundations of computer engineering, practical applications and designing and implementation of the products and software's. The Department aims at providing high quality training to students through the latest in computer technology.

Department regularly organizes a series of lectures by academicians and industrialist professionals of the highest repute, which lay stress on the latest innovative technologies in the field of Computer Engineering. The Department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds to make them globally competitive.

Vision

To produce competent computer professionals having strong fundamental knowledge, technical skills and work ethics.

Mission

- 1.To promote growth of an individual by imparting comprehensive/ prerequisite knowledge using latest tools and technologies.
2. To inculcate professionalism, social awareness and to promote creativity, research aptitude by mentoring the students.
3. To establish industry institute interaction to enable student to cater to ever changing industry demands and to nurture entrepreneurial qualities.
4. To provide state-of-the-art environment and opportunities for soft skills and professional skills.

Academic Excellence AY 2021-22: Toppers

BE Toppers:

- **SRI LEKHA MAMILLAPALLI**
- **SHINDE GAURAV SANJAY**
- **JOSHI JAY NILESH**

TE Toppers:

- **MAHIMA SAHU**

SE Toppers:

- **PUSHPAL SHRAWAN HEDAU**
- **NIKITA SANJAY BIRAJDAR**
- **AADESH DINKAR GUPTA**

Training & Placement



Companies that visited the institute in the year 2021-22 are Virtusa, Crest Data Systems, veritas, Nuance india, Accolite, Joshsoftware, ValueLabs, Birlasoft, Blueconch Technologies, Reliance Jio, reliance Jio, RBL, LTI, TietoEVRY, Atos Global etc.

Total Companies Visited : 181

No of Students Placed : 137



Faculty Achievements

Publications By Faculties- 24

FDPs Attended By Faculties- 74

Workshop Attended By Faculties- 12

Patents Filed By Faculties- 04

Ph.D Pursuing Faculties-04 Ph.D Awarded-02

Student Achievements

Sr.No	Name of Activity	Participants
1.	Virtusa training	TE students
2.	Smart India Hackathon 21-22	SE Students- 3 groups were selected
3.	I can Code	SE Students

Publications By Students- 19

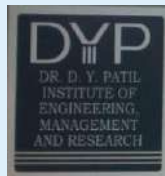
COMPSA- Student Association



Teachers Day Celebration
SE Welcome Function
Technical Events



Edited By- Ms.Tejaswini Patil (Asst.Professor, Computer Engineering)



D.Y. PATIL PRATISTHAN'S

Dr. D. Y. Patil Institute of Engineering, Management and Research

Akurdi, Pune

CIVIL TIMES

(2021-2022)

Insights

College Toppers - 2
Faculty Achievement- 2
Training and Placement- 2
Student achievement- 2
Industrial Visits- 3
Student Activities- 3
MOU- 4
Club Activities- 4
Environment Club- 4
Webinar and Guest
Lectures- 4



About The Department

The Department of Civil Engineering was established in the year 2012. To enhance the technical skill of students department has a team committed to serve students with untiring zeal and enthusiasm. Our faculty is a conglomerate of variety of field experienced people and also people with high academic career under varied specialization like Structures, Water Resources Engineering, Construction Management, Transportation and Environmental Engineering. We provide well equipped laboratories to perform experiments and Endeavour to provide better teaching facilities. Department is well set to provide excellent Civil engineer, well trained in all aspects and adequately prepared to be accepted globally. Maiden batch of our department have been graduated in 2016.

VISION:

"To produce competent Civil Engineers by providing quality technical education, technical skills & work ethics"

MISSION

- To educate students by providing sound technical knowledge and its practical application to work in developing industry.
- To encourage budding Civil Engineers to develop creative and innovative ideas through curricular and extracurricular activities.
- To create awareness of technological changes by providing industry-institute collaboration & prepare students for lifelong learning.
- To reinforce comprehensive qualities, professional & communication skills and ethical standards.

Highlights of Academic Excellence in SPPU Examination for 2021-22

COLLEGE TOPPERS

BE Toppers:

1. ROHADA MUSKAN MURLIDHAR: 9.42
2. SHRINGARPURE DHRUV MANISH: 9.38

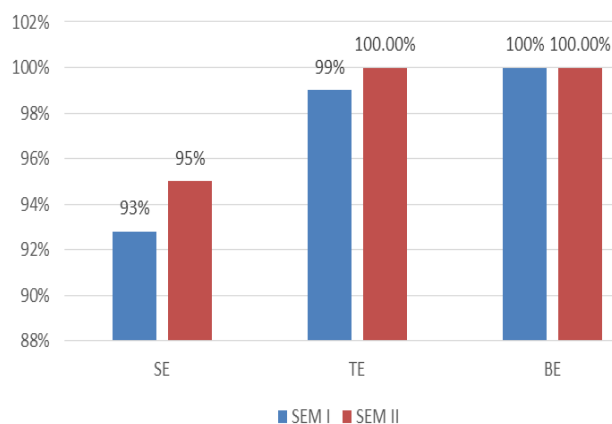
TE Toppers:

1. KAMBLE ADARSH RAGHUNATH: 9.81
2. MANKAR SAMIKSHA ARVIND: 9.89

SE Toppers:

1. AISHWARYA MANOHAR INGOLE: 9.16
2. OMKAR SHANKAR THONGIRE: 8.86

Result Analysis 2020-21



Faculty Achievements

Ms. Amruta Kulkarni (HOD, Civil Department), was the Panel Member in designing the Steel Structures Syllabus, in Three Days Online Workshop for Drafting of TE Civil 2019 Pattern Syllabus, organized by SPPU from 3rd May to 5th May 2021.

Mr Sachin S Nalawade has successfully completed Innovation Ambassador Training conducted by MoE's Innovation Cell & AICTE, New Delhi.

TRAINING AND PLACEMENT

Department of Civil Engineering provides students with wide platform of opportunities for placements. Soft skills and technical skills are pooled hands on hand to evolve students with better competitive competencies. Irrespective of the current unpleasing market scenario, our 67 students had placed in core civil engineering companies through campus placements while pursuing degree and many more through off – campus drives.

Companies visited includes Capgemini, TCS, Wipro, Upgrad, Housewalas, BYJU's, Cognizant, Skillvertex, Infosys, Constrologix, Indovance, Immovidutech, Focus Edumatics, Estate Mint, Naymo, Kumkang and many more core.

STUDENT ACHIEVEMENT



Students of Civil Engineering Department, Dr. D. Y. Patil Institute of Engineering, Management and Research won the 2nd prize at the event named "A Regional Level Swachh Technology challenge (स्वच्छ नावीन्य पूर्ण तंत्रज्ञान स्पर्धा) conducted by Pimpri chinchwad municipal corporation".

More than 20 teams participated in the event from PCMC Region.

For their idea on "Proper management of Organic waste as product in Composting - a way of achieving", team was awarded with certificate and a cash prize of Rs.31.000/-

Activities with MAHA METRO PUNE

• Honors Course in Metro Construction
 • Internship to Students
 • Site Visits at Metro Construction Site
 • Guest Lectures on Metro Construction
 • Webinars

Site Visit at Metro Casting Yard Kasarwadi, Pune

Guest lecture on
 "Surveying in Metro Construction"
 Speaker: Mr. Rahul Gokhale
 Sr. Manager Survey,
 Pune Metro Rail Project, Line 3

Webinar on "Metro Line 3: Experience in temporary and Permanent Structures"
 Speaker: Ms. Pooja Salunke
 Tunnel Engineer, Pune Metro
 (B.E. Civil, M.Tech Tunneling)
 Alumni (2012-2016)
 Department of Civil Engineering, DYPIEMR, AKURDI

STUDENTS INTERNSHIP AT
 MAHA METRO, PUNE:
 • TUSHAR KUNKEKAR
 • HARIPRASAD MORE
 • NAYAN GAJARA
 • SHREEVISHWARADHYA SW
 • AHMAD ARSALAN
 • PRAVIN BORKAR
 • SHAGHUF QUADEER
 AND STILL COUNTING

A Site Visit At Metro Casting Yard Kasarwadi



Pawana River Cleaning Drive

- Environmental Club of Civil Engineering Department, DYPIEMR, Akurdi, has celebrated World Water Day 2022 by organizing the River Cleaning Drive for Pawana River Patch in Ravet, Pune. Total 100 students have participated in the drive. The drive has been supported by Pimpri-Chinchwad Municipal Corporation.



Students of Civil Engineering Department have been actively Participated in "Assessment of factors influencing ridership and identifying strategies for achieving estimated ridership of the Pune Metro Line III (Shivaji Nagar-Hinjewadi)" with the Collaboration of IIT Bombay.

Department of Civil Engineering, Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi had organized a workshop and training on "APPLICATIONS OF STADD - PRO SOFTWARE IN RCC DESIGN" for civil engineering students.



MOU With ULTRATECH Cement

Department of Civil Engineering, Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi has signed the MOU With Ultratech Cement.



Environment Club

Environmental Club of DYPIEMR organised Tree Plantation Social Activity on World Environment Day 2021.



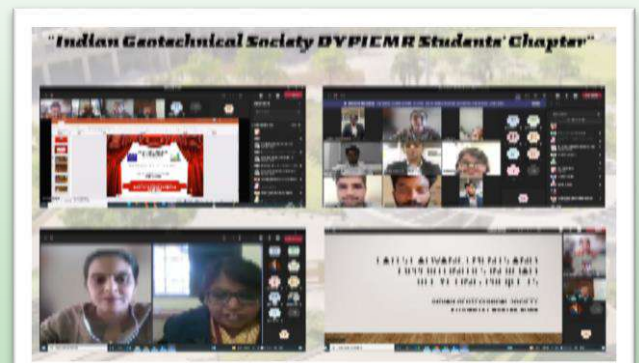
VIRTUAL ALUMNI MEET

Department of Civil Engineering, Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi had organized VIRTUAL ALUMINI MEET 2021



IGS Chapter

Department of civil Engineering, in association with Indian Geotechnical Society, virtually inaugurated "Indian Geotechnical Society DYPIEMR Students' Chapter."



Webinar and Expert Lectures

- Department of Civil Engineering, Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi had organized a session on "Opportunities for Civil Engineers in Water Sector under Jal Jeevan Mission" for civil engineering students.
- A webinar is conducted on "Disaster Management" for civil engineering students on 21st August 2021.
- A session is organized on "Artificial Intelligence techniques for Civil Engineering" for civil engineering students on 17th May 2021.



JULY 2021 - DECEMBER 2021

NEWSLETTER

DR. DY PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND
RESEARCH, AKURDI
ELECTRONICS AND TELECOMMUNICATION DEPARTMENT

INSTITUTE

VISION

To strive for excellence by providing quality technical education & facilitate research for the welfare of society.

MISSION

- 1.To educate students with strong fundamentals by providing conducive environment.
- 2.To inculcate research with creativity & innovation.
- 3.To promote industry-institute collaboration & prepare students for life long learning in context of technological change.
- 4.To strengthen leadership, team-work, professional & communication skills and ethical standards



INSIDE THIS ISSUE:

ABOUT THE DEPARTMENT

PAGE 01

WORKSHOPS, INDUSTRIAL
VISITS, VALUE ADDED
PROGRAMS

PAGE 02

WEBINARS

PAGE 03

SOCIAL ACTIVITIES

PAGE 04

STUDENT ACTIVITIES

PAGE 05

PLACEMENTS & MoUs

PAGE 06



JULY 2021 - DECEMBER 2021

ABOUT THE DEPARTMENT

ELECTRONICS AND TELECOMMUNICATION
DEPARTMENT

DEPARTMENT

VISION

To import quality education to produce competent E&TC Engineers

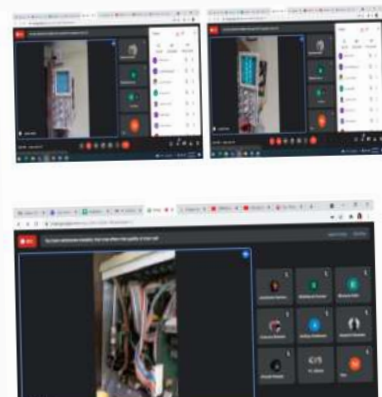
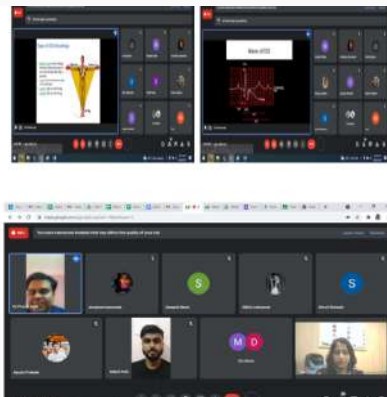
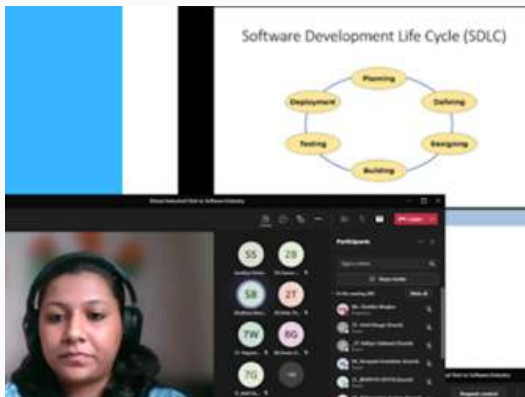
MISSION

- 1.To equip students with strong basics through excellent blend of theory and practical knowledge .
- 2.To inculcate creativity and innovation through curricular and co-curricular activities. .
- 3.To give the knowledge about all possible areas of E&TC by interacting with professional world. .
4. To develop the students with communication skills and ethical standards to meet the professional needs.

The Electronics & Telecommunication Department is established in the Year 2013 to meet the needs of increasing demands of E&TC and Embedded Technologies & VLSI. The department is having highly qualified, experienced & dedicated staff along with State of Art Infrastructure & well equipped Labs. The teaching learning process is made Student centric using the latest technologies. The academics go hand in hand with Guest Lectures by Eminent Personalities from the Industry, Alumni students, & Subject Experts from Pune University. The theory is well explained with the help of practical & Industrial Visits to various Industries.

HOD MESSAGE

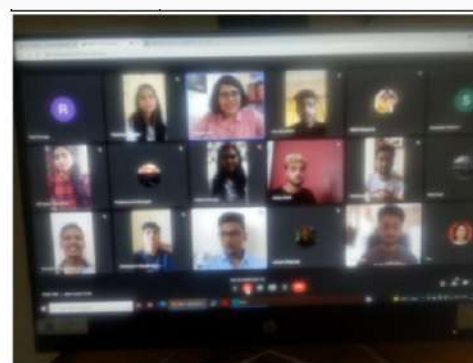
We are pleased to share the news through this newsletter in the Department of E&TC over the past few months. This newsletter records all the activities of department for one semester .We as a whole will strive to enhance our technical leadership in key areas and to build up strategic research areas viz., robotics, Artificial Intelligence and Machine learning. In terms of academic modules, we will continue to enhance and adapt our curriculum to cope with the rapid advances and development in technology in order for our graduates to be ready “to take on the world”.My profound thanks to the editor and team of this newsletter for their initiative and interest in publishing it. I look forward to the support of our students, colleagues, and alumni, to work together to take our department to the next level! More importantly, I hope this will be a department we will all take pride in!.



E & TC Dept in association with IEEE Student Branch arranged a Virtual Industrial visit at FIS Solutions(India) Pvt Ltd on Thursday 18th November 2021 at 11:30 am

E&TC department arranged Virtual Industrial visit on 8th September 2021 at “Guru Mauli Homeopathic Clinic, Akola” for TE students.

E&TC department arranged a Virtual Industrial visit on 30th August 2021 at “Tirupati Enterprises, Pune” for TE students.



A three DAY Online IEEE Workshop was organized by E & TC Dept on Design of Basic Patch Antenna using HFSS software from 11/10/21-13/11/21

A Hands on Value added program in C programming was conducted by the E & Tc Dept for the students of second year from 18th October 2021 To 9th Dec 2021

“Just A Minute” event was organized on 16th Oct.2021 as part of audit course.



Webinar on Career Opportunity

An online Webinar was organized by the E & TC Dept on 9/10/2021 on "Career opportunities after Engineering"



WEBINAR on Green Energy

An online Webinar was organized in E & Tc dept on 8/10/21 on "Green Energy"

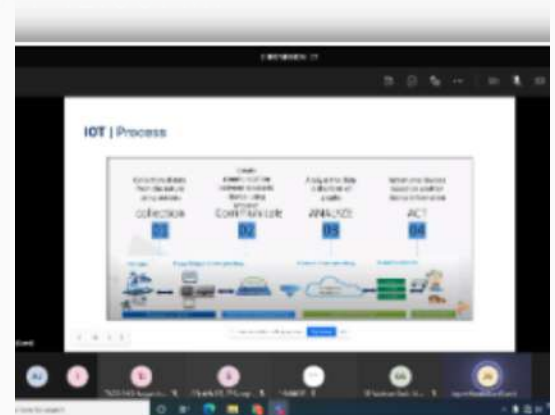
WEBINAR on IoT

An online webinar on "INTERNET OF THINGS" was organized E & Tc dept in association with AI&DS Dept on 9/9/21



WEBINAR on Profile Building

An Online Webinar ON "Profile Building and Career Opportunities" was organized by E & Tc Dept in Association with IEEE on Friday, 17 th Sept 2021





E WASTE MANAGEMENT PROGRAM

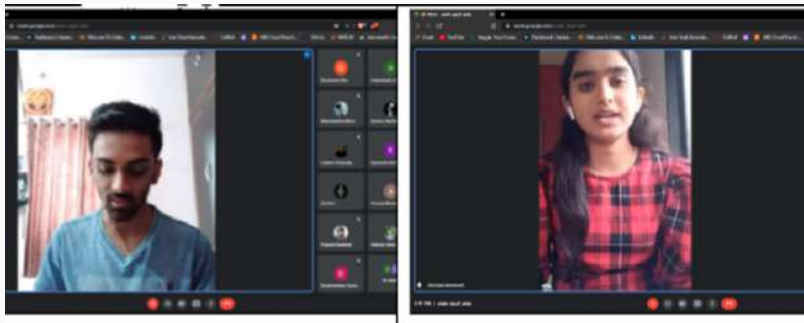
E-waste Management program was conducted for all students, faculties and in different societies on 07/09/2021 to 14/9/2021 under IEEE activity.



MEDICINAL TREE PLANTATION

A Social Activity Report on “Medicinal Tree Plantation” was Organized by E & TC Dept on 9/10/2021





IE students club activity

An event was conducted on engineers day by the IE Students Chapter to give tribute to sir M. Visvesvaraya. In the event the students had a discussion on how to apply engineering logic in real life.



IEEE students club activity

An Online instagram event named 15th August Bingo was organized on 15th August 2021 on the occasion of Independence day to enhance interaction between the students and to gain awareness as well as followers in IEEE.



IEEE students club activity

"Euphoria" was organized by the IEEE students club on Thursday,16/09/2021 to enhance interaction between the students. Quiz and fun activity was also conducted. Freshers Day was also celebrated on this occasion.



IEEE students club activity

"WEBROSITY" was organized by the IEEE students club on 15/09/2021 to enhance interaction between the students andd for fun activity for Students and a Quiz was also conducted onon recent Webseries.



IEEE students club activity

"Podfinity" was organized by the IEEE students club on Saturday,30/10/2021



SUYOG
TARVATE

Citius Tech



SHREYA
PAWAR

Coditas



ADITYA PAL

Herman Connected



SIMRAN MITRA

Learning Routes



SASHWAT SHANE
LTI



HARSHAL
GAYAKWAD

Learning Routes



SOMESH PATEL

Learning Routes



ABHINAV ANURAG

Ubergine Solutions

Name of the company	Logo
Anvation Labs, Hyderabad	
AI Beehive, Bangalore	
Maven Silicon Softech Private Ltd., Bangalore	

DEPARTMENT OF CHEMICAL ENGINEERING

CHEMTECH

SEM-II

Year 2021-22

**INSIDE THIS
ISSUE:**

Chemical Engineering
Updates

Technical Event

FDP/Seminar/Workshop
Attended/Faculty Awards

Industrial Visit

Guest Lecture /
Workshops Conducted



Vision

To impart quality education to produce Competent Chemical Engineers

Mission

1. To create an effective atmosphere for academic excellence
2. Impart quality education in basic and applied areas of Chemical Engineering
3. Enable students to explore knowledge through creative learning by industry institution collaboration
4. Inculcate values of leadership, teamwork and ethics

About Department

It is a great pleasure to welcome you to the Department of Chemical Engineering at Dr. D Y Patil Institute of Engineering and Management and Research. The Department of Chemical Engineering was started in the year 2012 with an intake of 60 students. The Chemical Engineering Department is proud to have a team of energetic and hardworking staff and we are blessed to have among the finest and talented students admitted into our department recognized for high-quality academic programmes and excellence of its motivated faculty. We are committed to give our students an environment where they can develop critical thinking and problem-solving skills as they advance through the programme. In addition to classroom teaching, the students are guided and motivated to practically implement the principles learnt in classrooms through experimentations in the laboratories, which help students gain confidence and become skilled engineering professionals.

Chemical Engineering Updates

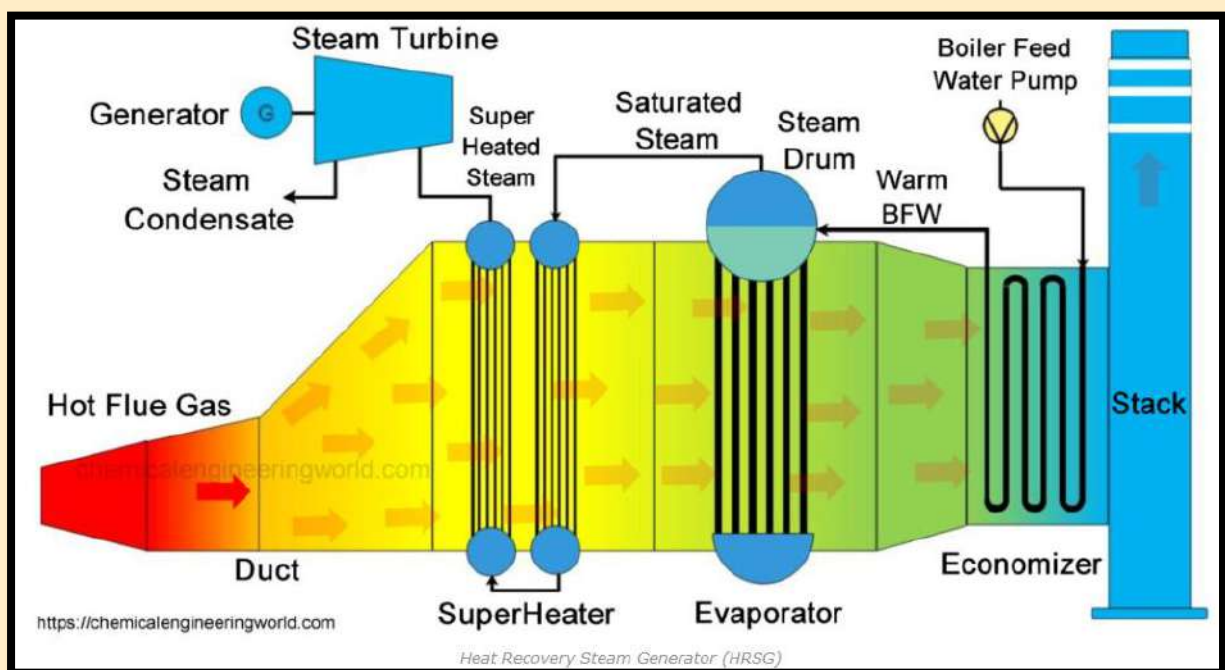
Chemical Engineering Apps For Android

1. [Chemical Engineering](#) [by Softecks]: This app contains descriptive information about vast topics in the field of chemical engineering. This is a very general app which can be used by all chemical engineering students worldwide to review their knowledge about chemical engineering.
2. [Chemical Technology](#) [by Kirill Sidorov]: This app features information about myriad chemical engineering technologies such as unit operations and unit processes. It also features various basic terminologies used in the field of chemical engineering.
3. [Process Engineering Tools](#) [by Sardroid Engineers]: This app can be used for variety of process engineering calculations. It contains calculation sheets for static equipments, rotating equipments, piping systems, etc. Detailed theory and calculation of each equipment is also available.
4. [Chemical Engineering Interview Question Answers](#) [by Tech Seers Solutions]: This app contains a large collection of interview questions asked in core chemical engineering and also a good collection of general HR questions along with tips on how to approach the question.
5. [Chemical Engineering Dictionary](#) [by E-Dictionary]: This app is an online dictionary which contains all the keywords used in the field of chemical engineering. It is very handy if one wants to know the meaning of something. A search feature is also provided.
6. [Chemical Engineering Quiz](#) [by Mobilityappz]: This is a quiz app which contains multiple choice questions to test and review the knowledge of the chemical engineer. It covers all the topics in the field of chemical engineering and indexes them into various sections.
7. [ACS Mobile](#) [by American Chemical Society Pubs]: This app provides latest update on various research going on in the field of chemical engineering as soon as they are publishable.
8. [Petrochemical Engineering](#) [by Softecks]: This app covers all the fundamentals, technologies, and terminologies relates to the field of petrochemical engineering.
9. [Petroleum Engineering](#) [by Softecks]: This app covers all the fundamentals, technologies, and terminologies relates to field of petroleum engineering and refineries.
10. [Dangerous Goods Manual](#) [by Knorre]: This app contains information on classification of hazardous materials as explosives, gases, flammable materials, oxidisers, toxic substances, corrosive materials, etc. Large list of dangerous goods are listed along with their corresponding hazard number.

Source: Chemical Engineering World Magazine, Android Play Store

II) Heat Recovery Steam Generator (HRSG)

Heat recovery steam generators are equipments which are used to extract heat from process gas or a waste gas streams and use that heat to convert liquid water into steam in order to use that steam in some other process or the HSRG is made part of a power generation unit where it uses the heat from the exhaust gases of turbines to convert liquid water into steam for use in the same power cycle. HRSG is basically a heat exchanger which has very high efficiency. A HRSG system is made up of three major components; the economizer, the evaporator and the superheater. These components are arranged accordingly on order to get a highly efficient thermal exchange system. In some applications, a selective catalyst reduction (SCR) unit is installed with the HRSG in order to reduce the nitrogen content oxide in the exhaust gases of HRSG.



Working of HRSG

HSRG is essentially a large structure of network of pipes. The water is made to flow through the pipes and the hot gases are made to contact the pipes from the other side. The water and the hot gases are separated by the solid boundaries of the pipe material. The pipes are provided with extended fins in order to increase the effective heat transfer area.

The water is first passed through the economizer from where it passes through evaporator and then to super heater. The hot gases first come in contact with the super heater and then with evaporator and then with economizer. The temperature of the super heater section is highest in the system because it is the closest to the input of hot gases. The temperature of the economizer is the lowest among the three major components because it is farthest from the hot gases input.

The liquid water is fed in to the economizer, the function of economizer is to preheat the liquid before it passes to the evaporator section. The preheated liquid water then passes to the evaporator tubes where enough heat exchange occurs for the liquid water to get converted into steam. The steam may be saturated in nature hence it is passed to the super heater section where the temperature of steam increases so much that it becomes a superheated steam from a saturated steam. This superheated steam is then output from the HRSG system and then passed down the line to the next equipment in the process wherever it is required.

Source: Chemical Engineering World Magazine

Event for Students

Group Discussion on **Cyber Awareness** was organized by Chemical Engineering Department on 20.04.2022

Participants: 10

Coordinator: Dr. Utkarsh Maheshwari, Ms. Asmita Patil, Ms. Priyanka Thakare




Hackathon- It is a great way for aspiring and experienced innovation to develop new skills.




Students Achievements

Abhishek Bhagat and Prasad Bhandarkar are selecting in **Top 24 Teams in the KPIT Sparkle competition 2021-22**. The team will receive an **initial grant of Rs. 50000/-** from Gujarat Government and also invited to submit incubation documents to the COEP BHAU institute for receiving **Rs. 3.6 lakh per member**.



**Dr. D.Y. Patil Institute of Engineering,
Management and Research Akurdi, Pune**



Congratulations!


Abhishek Bhagat
(BE Chemical Engg)




Prasad Bhandarkar
(BE Chemical Engg)

Manasi Vaidya
(BE E&TC Engg)

For selection in top 24 teams in the
KPIT Sparkle Competition (National Level)
for 2021-22 among 17000+ ideas.

Project idea is incubated at **"Icreate"** in Ahmedabad
(a Gujarat government initiative) and will receive an
initial grant of **Rs 50000/-**

www.dypakurdiipune.edu.in

[@dypakurdiipune](#)



Placed students of 2021-22 with department faculty

Student Success

**DR D. Y. PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH,
AKURDI, PUNE**
Institute Code : 6802

Congratulations !



AMAN SINGH
-Chemical




DARSHAN SALUNKHE
-Mechanical

For Selection as Graduate Engineer Trainee (Batch 2022) in
Worley
energy | chemicals | resources

DYP 1800 12300 1000
@dypakurdipune
www.dypakurdipune.edu.in

DYP **Dr. D. Y. Patil Institute of Engineering
Management and Research,
Akurdi, Pune**

Congratulations!



Mr. Amol Shinde
(Department: Chemical Engineering)

**Qualified GATE 2022,
AIR Rank 2434**

@dypakurdipune www.dypakurdipune.edu.in

DYP **DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI,PUNE**
Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)
DEPARTMENT OF CHEMICAL ENGINEERING



Mr. Rushikesh Shevale
Batch of 2020-21

Got admission in University of Strathclyde, Glasgow for
MSc in Advanced Chemical Engineering

Congratulations on your achievements !!

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi

DYP **DR D.Y.PATIL INSTITUTE OF
ENGINEERING MANAGEMENT
& RESEARCH, AKURDI,PUNE**
Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)
DEPARTMENT OF CHEMICAL ENGINEERING

Student Achievement



Ms. Doha Joshi
RMIT University, Melbourne
(BATCH :18-19)

Got selected as Project Coordinator in
Morgan Projects, Brisbane, Australia

Congratulations on your achievement!!

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi

Student Success


DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF
ENGINEERING MANAGEMENT
& RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

Student Internship



Mr. Harshraj Mutha, students of BE completed
Intership at Heubach

heubach

www.dypiernr.ac.in 020-27654470, +91-9284372467 @dypiernrAkurdi

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

**University Rankers
SE Chemical (AY 2019-20)**



Mr. Saif Alam
Rank 4 (CGPA 9.76)



Mr. Pratik Mundphane
Rank 9 (CGPA 9.62)

*Congratulations on your achievement !!
We are proud of you !*

@dypiernrAkurdi www.dypiernr.ac.in 020-27654470, +91-9284372467

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF
ENGINEERING MANAGEMENT
& RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

Got placed in

Infosys



Mr. Shubham
Sonawane
Batch : 2020-21

*Congratulations
on your
achievement !!*

www.dypiernr.ac.in 020-27654470, +91-9284372467 @dypiernrAkurdi

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

2022 BATCH STUDENT PLACED IN Cognizant



Ms. Sejal Ahuja



Ms. Tanashree Paraye



Mr. Omkarnath Panage



Mr. Pratik Mundphane



Mr. Anikesh Gurde



Mr. Saurabh Patil



Mr. Hritik Kale



Mr. Rahul Gaikwad



Ms. Shruti Kale



Mr. Saish Pawar

*Congratulations
on your achievement !!*

@dypiernrAkurdi www.dypiernr.ac.in 020-27654470, +91-9284372467

Induction Program



Faculty Achievements

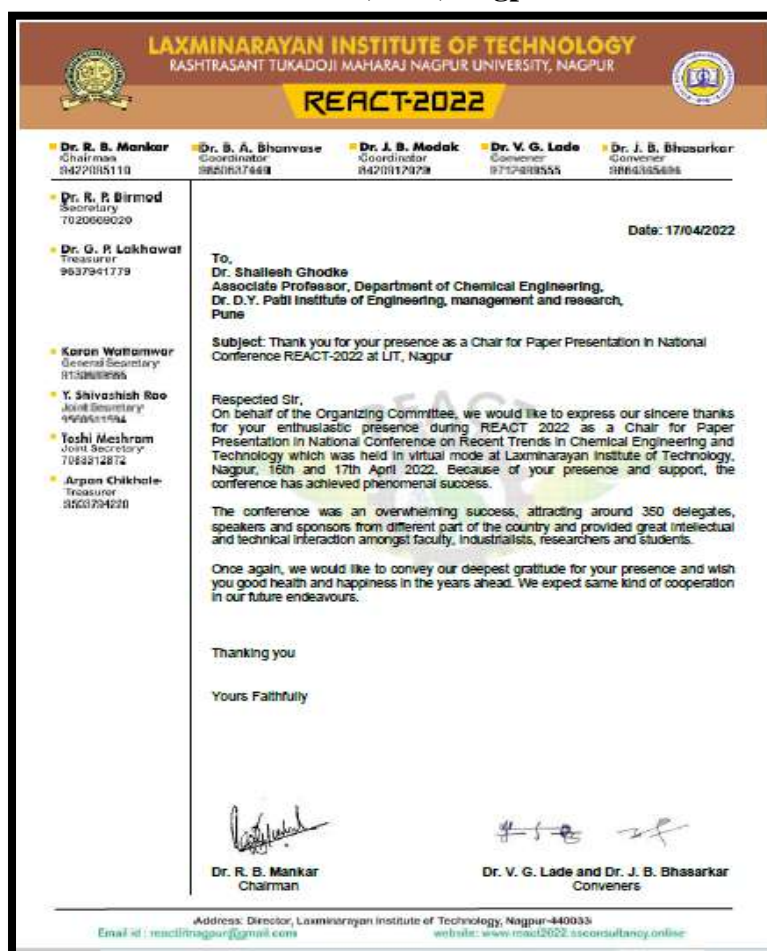
Faculty Development Programme Attended /Workshop/Seminar

- Faculties from Department of chemical engineering attended 18 Faculty development programmes
- Faculties from Department of chemical engineering attended 5 Workshops

Mr. D. P. Despande received Best Presentation Award

A screenshot of a Zoom meeting. The main window displays a presentation slide titled "BEST PRESENTATION (Faculty)". The slide features two award winners, each with a starburst graphic and a trophy icon. The first winner is Mr. Dhundiraj P. Deshpande, with the topic "Optimization of Reaction Parameter Using Ultrasonication" from AP - Chemical Engineering, DYPIEMR, Akurdi, Sector 29, Akurdi, Pune, Maharashtra. The second winner is Mr. Susanta Saha (SS), with the topic "A critical analysis on food preferences in Mid-day lunch for the students and staff of Engineering Colleges in Rural area of West Bengal." from AP - Basic Science and Humanities-Mathematics, Techno Engineering College Banipur. To the right of the presentation is a grid of participants, including Sona Solanki, S Prabakar, Zaid Ahmed, Dr Alla srivani Ph..., ROSHNI CHAKRA..., Somaditya Roy, TECB CSE, 52 others, and You. The Zoom interface at the bottom shows the time as 16:58 and the ID as roy-vkrx-uou.

**Dr. Shailesh Ghodke, HoD, Chemical Engineering Chaired the Technical session at
National Conference, LIT, Nagpur**



**Dr. Shailesh Ghodke, HoD, Chemical Engineering Chaired the Technical session at
International Conference, ACMS, IICHE**



DEPARTMENT OF CHEMICAL ENGINEERING

CHEMTECH

**Year 2021-22
(Semester-I)**

INSIDE THIS ISSUE:

Types of Supports for Vessels

Technical Event

FDP/Seminar/Workshop
Attended/Faculty Awards

Industrial Visit/Guest

Lecture /
Workshops Conducted



Vision

To impart quality education to produce Competent Chemical Engineers

Mission

1. To create an effective atmosphere for academic excellence
2. Impart quality education in basic and applied areas of Chemical Engineering
3. Enable students to explore knowledge through creative learning by industry institution collaboration
4. Inculcate values of leadership, teamwork and ethics

About Department

It is a great pleasure to welcome you to the Department of Chemical Engineering at Dr. D Y Patil Institute of Engineering and Management and Research. The Department of Chemical Engineering was started in the year 2012 with an intake of 60 students. The Chemical Engineering Department is proud to have a team of energetic and hardworking staff and we are blessed to have among the finest and talented students admitted into our department recognized for high-quality academic programmes and excellence of its motivated faculty. We are committed to give our students an environment where they can develop critical thinking and problem-solving skills as they advance through the programme. In addition to classroom teaching, the students are guided and motivated to practically implement the principles learnt in classrooms through experimentations in the laboratories, which help students gain confidence and become skilled engineering professionals.

Types of Supports for Vessels



Type of supports to be provided to a vessel depend upon its configuration, height to diameter ratio of the vessel, convenience of location, operating temperature and materials of construction. The attachment of support at suitable location helps to transfer the load from the vessel to support safely. Cylindrical vessels can be installed either in vertical position or horizontal position and the types of supports for such installations are different. Similarly, for spherical vessels, the types of supports required vary considerably as compared to cylindrical vessels. It is necessary to analyze the stresses induced very carefully, so that adequately strong and cost effective supports can be provided. Supports failure can lead to major hazards in a chemical process plant.

Design of Supports for Vessels

Type of supports to be provided to a vessel depends upon its configuration, height to diameter ratio of the vessel, convenience of location, operating temperature and materials.

There are four types of supports commonly used.

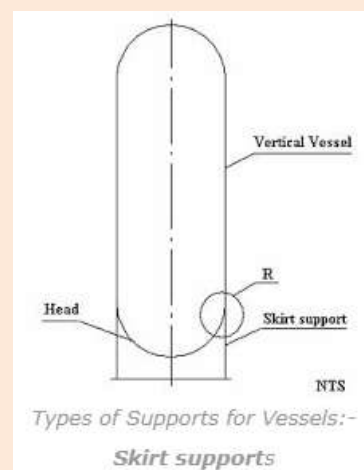
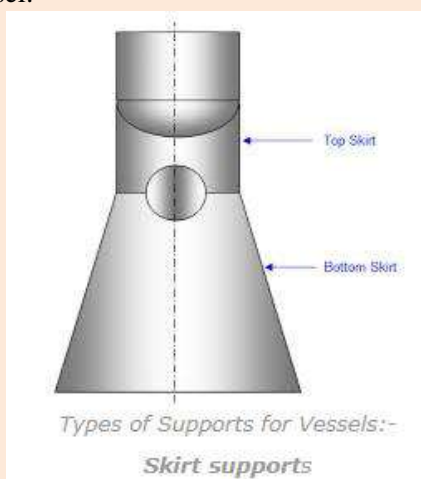
1. Skirt support
2. Bracket or Lug support
3. Saddle support
4. Leg support

Tall vertical columns and heat exchangers are often supported on skirts. Medium size process vessels having height to diameter ratio 2-3 are provided with bracket or lug supports.

Horizontal vessels are usually provided with saddle supports. Small vessels of capacity 1-2 m³ are provided with leg supports.

Skirt supports

Tall columns such as distillation column, absorption column are provided with skirt support. From a designer point of view, skirt support is attractive because it produces minimum amount of local stresses caused by mechanical loads acting at its junction with the vessel.



Skirt is a cylindrical shell having diameter equal to outside diameter of the vessel or more than the outer diameter of the vessel. It is welded at the bottom of the vessel and rests over a bearing plate which rests over concrete foundation.

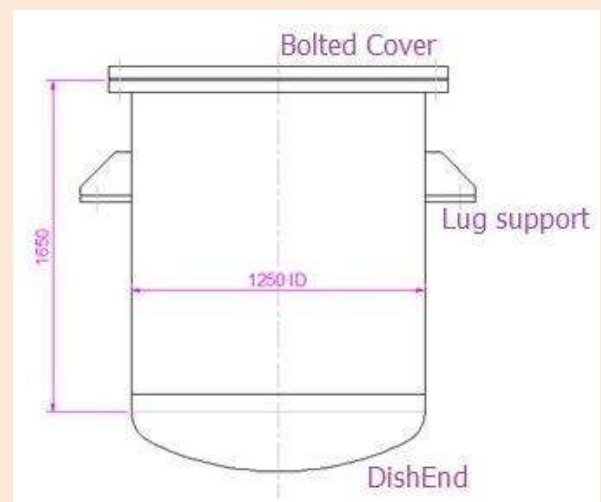
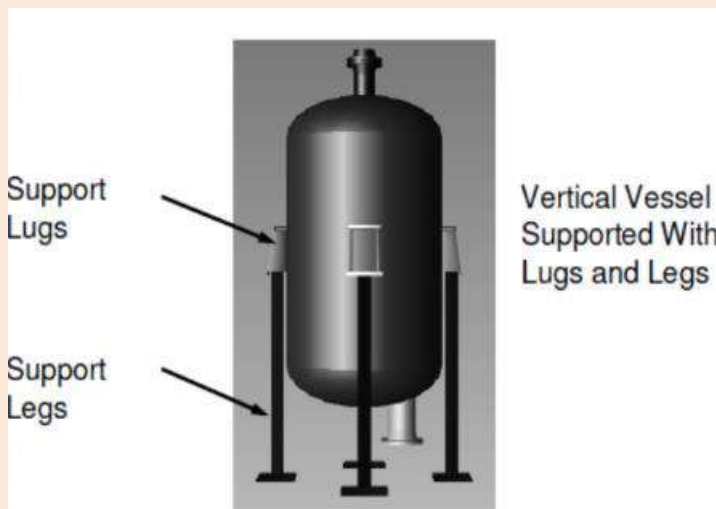
Skirt support is designed by considering the following loads:

1. Dead weight of the vessel.
2. Operating weight of the vessel.
3. Lateral loads by restrained thermal growth of interconnecting pipes.
4. Wind load acting over the vessel.
5. Seismic load

To calculate the skirt thickness all these loads are required to be considered

Bracket or Lug Supports

Bracket supports are very common for process equipments. Vertical vessels with height to Diameter ratio 2-3 are generally provided with bracket supports. These are fabricated from plates and attached to the vessel with minimum possible weld length. Brackets rests on columns or structural beams. A vessel with bracket support is shown below. There are many advantages of the bracket supports.



Types of Supports for Vessels:- Bracket or Lug Supports

Types of Supports for Vessels:- Bracket or Lug Supports

Saddle Supports

Horizontal vessels are generally provided saddle supports.. If the underside of the vessel is to be located only a short distance above the ground line, steel saddles resting on the top of concrete piers can be used.




Types of Supports for Vessels:- Saddle Supports

Horizontal vessels resting on saddle support is shown in Fig. The vessel behaves like a beam. Number of saddles is generally two. It can be more if unavoidable. Supports in the form of ring are preferred if it is required at more than two positions.

In selecting the location of saddle supports, advantage of stiffening effect offered by the head is taken into account.

Online Technical Events




DR D.Y.PATIL INSTITUTE OF ENGINEERING MANAGEMENT & RESEARCH, AKURDI, PUNE

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)


DEPARTMENT OF CHEMICAL ENGINEERING

TECHNOVISION 2021


National level Online Project / Paper Presentation Competition



Inaugural of "Technovision 2021" in presence of Faculty and participants




Conduction of Paper presentation



Conduction of Project presentation

Event Highlights

- *National level project / paper presentation*
- *Event conducted in association with IICHe*
- *Participants from recognized universities and institutes*
- *10+ projects and 15+ papers presented their work*
- *Sponsored prizes for winners*




DR D.Y.PATIL INSTITUTE OF ENGINEERING MANAGEMENT & RESEARCH, AKURDI, PUNE

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

CURIOSITY 2.0

National level Online Technical Quiz Competition



Event Poster



Student Participation

Class	No. of students
SE	100
TE	250
BE	220



Online registration form

Event Highlights

- National level online technical quiz
- Event conducted in association with IIChE
- Participants from recognized universities and institutes
- 554 participants from 19 states of India

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**
Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING
On the occasion of Engineer's Day organised
CHEMSPARK 2021
National level Online Poster Presentation Competition

Innauguration

Poster presentation

Event Highlights

- National level online poster presentation
- Event conducted in association with IICChE Student's Chapter
- Participants from recognized universities and institutes
- 56 participants from 6 states of India

Poster presentation

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi

Online Industrial Visit/Tours

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**
ACCREDITED BY NAAC
ISO 21001:2018 CERTIFIED
(INSTITUTE CODE :6802)

Department Of Chemical Engineering

Organized Online Industrial Tour /Visit for BE Chemical Students at
Datta Hydro Chem (P) Ltd. (DHCPL), Kurkumbh, Pune on 11th May 2021

DATTAHYDRO CHEM (P) LTD.

MARKETING UNITS

**PETROLEUM ETHER
MANUFACTURING**

MANUFACTURING PROCESSES

Contact Us : 9923602492, 9763581572

@dypiemrakurdi www.dypiemr.ac.in DYPIEMR1 dypiemr3

Students Achievements



DR D.Y.PATIL INSTITUTE OF ENGINEERING MANAGEMENT & RESEARCH, AKURDI, PUNE

Accredited By NAAC & ISO 21001:2018 Certified Institute

(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

Internships

- Rastriya Chemicals and Fertilizers, Alibag
- Grasp Anything : Student Journalist

Certificate

- NPTEL : 2
- Co-curricular : 5

Academics

- FE CGPA : 8.4
- SE CGPA : 8.4
- TE CGPA : 9.1
- BE CGPA : 9.9

Courses

- COURSERA : 9
- KROHNE : 5



Profile of
**Mr. Pushpendra
Ghylot**
BE 2020-21

Congratulations on your achievements !!

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi



DR D.Y.PATIL INSTITUTE OF ENGINEERING MANAGEMENT & RESEARCH, AKURDI, PUNE

Accredited By NAAC & ISO 21001:2018 Certified Institute

(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

Internships

- Green Circle, Inc. : Safety and Risk Management Trainee
- IFORTIS Worldwide : Marketing & sales trainee
- SUDARSHAN Chemicals Ltd : Effect Pigment division
- Academy of Skill Development : MATLAB and AUTOCAD

Academics

- FE CGPA : 7.1
- SE CGPA : 9.2
- TE CGPA : 9.4

Courses

- COURSERA : 8
- KROHNE : 2

Certificate

- Advanced Computational Fluid Dynamics



Profile of
**Ms. Rutuja
Bangar**
Final Year
Student

Congratulations on your achievements !!

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi

Faculty Achievements

DYP
DR. D. Y. PATIL INSTITUTE OF ENGINEERING MANAGEMENT
& RESEARCH, AKURDI, PUNE
ACCREDITED BY NAAC
ISO 21001:2018 CERTIFIED INSTITUTE

Institute Code: 6802



Congratulations !!

INDIA PRIME QUALITY EDUCATION AWARDS 2021

DR. UTKARSH MAHESHWARI
Associate Professor
Department of Chemical Engineering
Being Honored for his Exemplary
Contributions in Education

 @dypiemrAkurdi  020-27654470, 9284372467, 8208408263  www.dypiemr.ac.in

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

Institute Code: 6802

**DR. D.Y.PATIL INSTITUTE OF
ENGINEERING MANAGEMENT
& RESEARCH, AKURDI, PUNE**
ACCREDITED BY NAAC
ISO 21001:2018 CERTIFIED INSTITUTE

Congratulations!

DR. UTKARSH MAHESHWARI
Associate Professor
Department of Chemical
Engineering



Elected as
**Honorary Secretary for Indian
Institute of Chemical Engineers
(IChE) Pune Regional Center
for 2021-22**

 @dypiemrAkurdi  020-27654470, 9284372467, 8208408263  www.dypiemr.ac.in

Online Induction Program

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

Virtual SE Induction Program



Microsoft Teams

Request control

Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune.
Chemical Engineering Department

INDUCTION PROGRAM
For SE Chemical Engineering Students

Welcome

All Students to start a new journey

Chaitanya Patil

2020 Hybrid Induction L... 2020 Induction Slid... 2020 Induction Slid... 2020 Induction Slid... 2020 Induction Slid...

20°C Akurdi

02:48 AM (24.08.2021)

@dypiemrAkurdi www.dypiemr.ac.in 020-27654470, +91-9284372467

Alumni Talk

DYP
DR. D. Y. PATIL
INSTITUTE OF
ENGINEERING,
MANAGEMENT
AND RESEARCH
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING

ALUMNI TALKS



DM V KZ
OB 2H SS
6N SS 2K



Mr. VINIT PONKSHE
(Alumni Batch 2019)
Perusing MS from
University of Melbourne

020-27654470, +91-9284372467

Faculty Development Programme Attended /Workshop/Seminar

Name of Faculty	No. of Publications National & International/FDP Attended
Dr.Shailesh Ghodke	10
Dr.Utkrash Maheshwari	25
Mr.D.P.Deshande	10
Mrs.Kirti B Zare	10
Mrs.S.S.Patil	5
Mr.Pankaj Vardhe	5
Mr.Ramansingh Thakur	5

Higher Studies in Chemical Engineering


**DR D.Y.PATIL INSTITUTE OF ENGINEERING
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute
(Institute Code: 6802)

DEPARTMENT OF CHEMICAL ENGINEERING
HIGHER STUDIES IN CHEMICAL ENGINEERING



Ms. SMITAL KALLURKAR
Univ. of Manchester, UK
(BATCH: 2016-17)



Mr. PARAG SATAM
University of Illinois, USA
(BATCH: 2017-18)



MR. VINIT PONKSHE
University of Melbourne
(BATCH :18-19)



Mr. PRATIK LOKHANDE
University of Bristol, UK
(BATCH: 2015-16)



MS. NILAKSHI DINESH
University of Dayton, Ohio
(BATCH :18-19)



Mr. SAHIL SETHI
Chalmers Univ. of Tech., Sweden
(BATCH: 2015-16)



MS. DOHA JOSHI
RMIT University, Melbourne
(BATCH :18-19)





@dypiemrAkurdi



www.dypiemr.ac.in



020-27654470, +91-9284372467

Online Webinar



DR D.Y.PATIL INSTITUTE OF ENGINEERING MANAGEMENT & RESEARCH, AKURDI,PUNE

Accredited By NAAC & ISO 21001:2018 Certified Institute

DEPARTMENT OF CHEMICAL ENGINEERING

WEBNIAR ON

"Career Opportunities for
Chemical Engineering Graduates"

Register Now!!

<https://forms.gle/ZpTQr4kY3Grbtuq7>



August 18, 2021

Time : 11 AM to 12 Noon



LIVE

@dypiemrAkurdi



Speaker

Mr. Yogesh Surve

*Project Manager,
Honeywell Automation
India Ltd Pune*

www.dypiemr.ac.in



020-27654470, +91-9284372467



@dypiemrAkurdi