

## ICT Activity

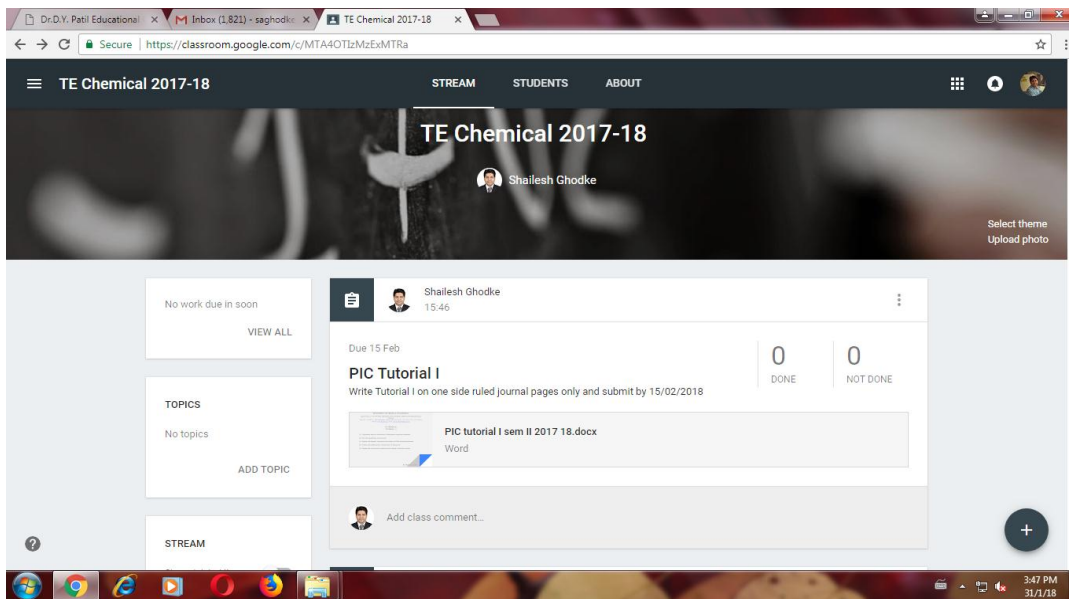
### Chemical Engineering Department

Subject Teacher: Dr. Shailesh Ghodke

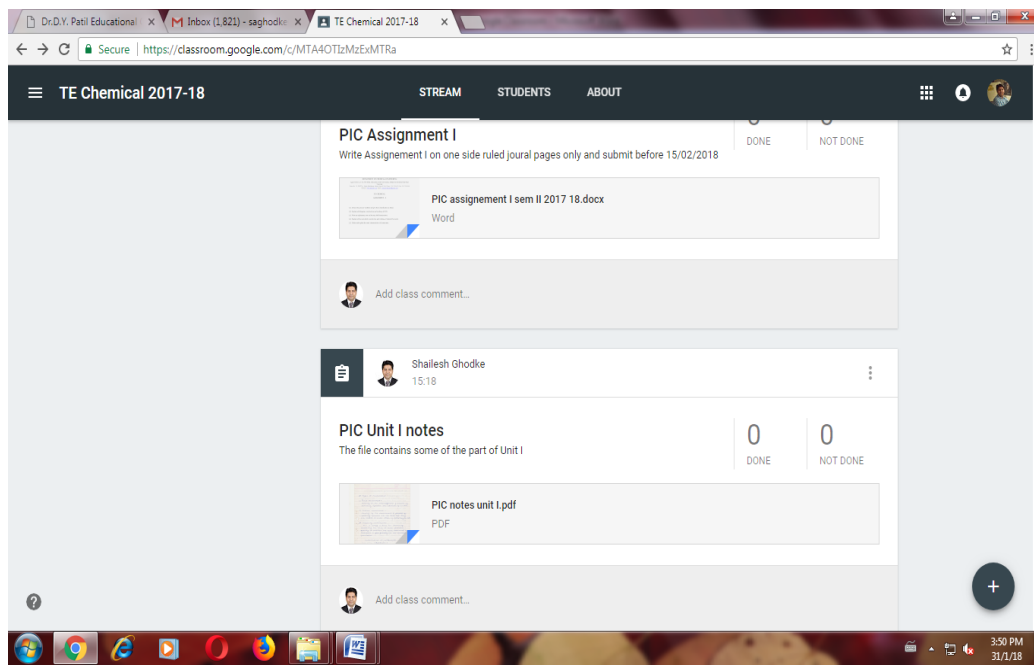
Class : TE

Subject: Process Instrumentation and Control

URL : <https://classroom.google.com/u/0/c/MTA4OTIzMzExMTRa>

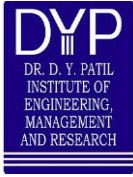


The screenshot shows a Google Classroom interface for a class named "TE Chemical 2017-18". The teacher is Shailesh Ghodke. The interface includes a navigation bar with "STREAM", "STUDENTS", and "ABOUT" tabs. A sidebar on the left contains "No work due in soon", "TOPICS", and "STREAM" sections. The main content area displays an assignment titled "PIC Tutorial I" due on 15 Feb. The assignment description is "Write Tutorial I on one side ruled journal pages only and submit by 15/02/2018". A file named "PIC tutorial I sem II 2017 18.docx" is attached. The assignment status shows 0 DONE and 0 NOT DONE. There is a comment input field at the bottom.



The screenshot shows a Google Classroom interface for the same class "TE Chemical 2017-18". The teacher is Shailesh Ghodke. The main content area displays an assignment titled "PIC Assignment I" due on 15 Feb. The assignment description is "Write Assignment I on one side ruled journal pages only and submit before 15/02/2018". A file named "PIC assignment I sem II 2017 18.docx" is attached. Below this, there is a comment input field. Further down, there is a post titled "PIC Unit I notes" with the description "The file contains some of the part of Unit I". A file named "PIC notes unit I.pdf" is attached. The assignment status shows 0 DONE and 0 NOT DONE. There is a comment input field at the bottom.





**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT &**  
**RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

---

Subject Teacher: Dr. Utkarsh Maheshwari

Class : TE

Subject :Transport Phenomena

URL : <https://sites.google.com/site/tranportphenomenasppu/>

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

**Unit 1: Momentum Transport**

[Unit 2: Energy Transport](#)

[Unit 3: Mass Transport](#)

[Unit 4: Unsteady Momentum Transport](#)

[Unit 5: Interphase transport in isothermal system](#)

[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

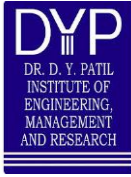
### Meet Your Teacher



## Unit 1: Momentum Transport

- 1.1 Importance of transport phenomena
- 1.2 Analogous nature of transfer process
- 1.3 Introduction of viscosity and mechanism of momentum transport: Newton's law of viscosity,
- 1.4 Newtonian & Non-Newtonian fluids,
- 1.5 Pressure and temperature dependence of viscosity,
- 1.6 Theory of viscosity of gases and liquids
- 1.7 Velocity distribution in laminar flow: Shell momentum balances of –
  - a) Flow of falling film
  - b) Flow through the circular tube
  - c) Flow through an annulus
  - d) Flow in a narrow slit
  - e) Adjacent flow of two immiscible fluids

[Full Notes for Unit 1](#)



**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

## Transport Phenomena

  
Search this site

### Dr. Utkarsh's Classroom

Home

Syllabus

Unit 1: Momentum Transport

Unit 2: Energy Transport

Unit 3: Mass Transport

Unit 4: Unsteady Momentum Transport

Unit 5: Interphase transport in isothermal system

Unit 6: Simultaneous & Analogy momentum, heat and mass transfer

Question Bank

Exam Papers

Contact Me

### Meet Your Teacher



Welcome to the Study Material for **Transport Phenomena** according to the syllabus of **Savitribai Phule Pune University (SPPU)**. Along with the study material, you will also find links after each of the sections to the videos and notes from NPTEL and other related sites.

**\*Kindly refer to the [SPPU website](#) for the updated course curriculum.**

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

#### Syllabus

[Unit 1: Momentum Transport](#)

[Unit 2: Energy Transport](#)

[Unit 3: Mass Transport](#)

[Unit 4: Unsteady Momentum Transport](#)

[Unit 5: Interphase transport in isothermal system](#)

[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



## Syllabus

### Unit 1: Momentum Transport

- 1.1 Importance of transport phenomena
- 1.2 Analogous nature of transfer process
- 1.3 Introduction of viscosity and mechanism of momentum transport: Newton's law of viscosity,
- 1.4 Newtonian & Non-Newtonian fluids,
- 1.5 Pressure and temperature dependence of viscosity,
- 1.6 Theory of viscosity of gases and liquids
- 1.7 Velocity distribution in laminar flow: Shell momentum balances of –
  - a) Flow of falling film
  - b) Flow through the circular tube
  - c) Flow through an annulus
  - d) Flow in a narrow slit
  - e) Adjacent flow of two immiscible fluids

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

[Unit 1: Momentum Transport](#)

**[Unit 2: Energy Transport](#)**

[Unit 3: Mass Transport](#)

[Unit 4: Unsteady Momentum Transport](#)

[Unit 5: Interphase transport in isothermal system](#)

[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



## Unit 2: Energy Transport

- 2.1 The introduction of thermal conductivity and mechanism of energy transport:
- 2.2 Fourier's law of heat conduction
- 2.3 Temperature and pressure dependence of thermal conductivity in gases and liquids.
- 2.4 Temperature distribution in solids and in laminar flow & numerical problems -
  - a) Shell energy balance, boundary conditions
  - b) Heat conduction with electrical heat source
  - c) Heat conduction with a nuclear heat source
  - d) Heat conduction with a viscous heat source
  - e) Heat conduction with a chemical heat source
  - f) Heat conduction with variable thermal conductivity
  - g) Forced and free convection
  - h) Heat conduction in a cooling fin

[Full Notes of Unit 2](#)

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

[Unit 1: Momentum Transport](#)

[Unit 2: Energy Transport](#)

**[Unit 3: Mass Transport](#)**

[Unit 4: Unsteady Momentum Transport](#)

[Unit 5: Interphase transport in isothermal system](#)

[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



### Unit 3: Mass Transport

3.1 Introduction of diffusivity and mechanism of mass transport:

3.2 Definitions of concentrations

3.3 Velocities and mass fluxes,

3.4 Fick's law of diffusion,

3.5 Temperature and pressure dependence of mass diffusivity.

3.6 Concentration distribution in solids and in laminar flow & numerical problems -

- a) Shell mass balances, boundary conditions
- b) Diffusion through stagnant gas film
- c) Diffusion with heterogeneous chemical reaction
- d) Diffusion with homogeneous chemical reaction
- e) Diffusion through Pyrex tube, leaching etc.

[Full Notes of Unit 3](#)



## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

[Unit 1: Momentum Transport](#)

[Unit 2: Energy Transport](#)

[Unit 3: Mass Transport](#)

**[Unit 4: Unsteady Momentum Transport](#)**

[Unit 5: Interphase transport in isothermal system](#)

[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



## Unit 4: Unsteady Momentum Transport

4.1 Equations of change for isothermal system -

- a) The equation of continuity
- b) The equation of motion
- c) Equation of change in curvilinear coordinate systems
- d) Use of equation of change to set up steady flow problem
- e) Equation of mechanical energy
- f) Dimensional analysis of equation of change

[Notes for Unit 4](#)

### Comments

You do not have permission to add comments.

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

[Unit 1: Momentum Transport](#)

[Unit 2: Energy Transport](#)

[Unit 3: Mass Transport](#)

[Unit 4: Unsteady Momentum  
Transport](#)

**[Unit 5: Interphase transport in  
isothermal system](#)**

[Unit 6: Simultaneous & Analogy  
momentum, heat and mass transfer](#)

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



## Unit 5: Interphase transport in isothermal system

### 5.1 Interphase transport –

- a) Defining friction factors
- b) Friction factors for flow in tube, around spheres & packed column.

### 5.2 Macroscopic balances for Isothermal systems –

- a) The macroscopic mass, momentum and mechanical energy balances
- b) Sudden enlargement and liquid-liquid ejector
- c) Semi empirical expressions for Reynolds stresses

[Full Notes of Unit 5](#)

### Comments

You do not have permission to add comments.

## Transport Phenomena

Search this site

### Dr. Utkarsh's Classroom

[Home](#)

[Syllabus](#)

[Unit 1: Momentum Transport](#)

[Unit 2: Energy Transport](#)

[Unit 3: Mass Transport](#)

[Unit 4: Unsteady Momentum Transport](#)

[Unit 5: Interphase transport in isothermal system](#)

**[Unit 6: Simultaneous & Analogy momentum, heat and mass transfer](#)**

[Question Bank](#)

[Exam Papers](#)

[Contact Me](#)

### Meet Your Teacher



## Unit 6: Simultaneous & Analogy momentum, heat and mass transfer

6.1 Interphase transport in multi component system -

- [Definition of binary mass transfer coefficient in one phase](#)
- [Co-relation of binary mass transfer coefficient in one phase at low mass transfer rates](#)
- [Co-relation of binary mass transfer coefficient in two phases at low mass transfer rates](#)
- [Definition of transfer coefficient for high mass transfer rates \(Stagnant Film Model\)](#)

6.2 Reynolds analogy

6.3 Prandtl's analogy

6.4 Chilton and Colburn analogy

6.5 Martinelli's analogy

[Full Notes for Unit 6](#)

Comments

## Transport Phenomena


Search this site

---






**Dr. Utkarsh's Classroom**

- Home
- Syllabus
- Unit 1: Momentum Transport
- Unit 2: Energy Transport
- Unit 3: Mass Transport
- Unit 4: Unsteady Momentum Transport
- Unit 5: Interphase transport in isothermal system
- Unit 6: Simultaneous & Analogy momentum, heat and mass transfer
- Question Bank
- Exam Papers**
- Contact Me

**Meet Your Teacher**



### Exam Papers

 2012P - May2016.pdf (269k)	Utkarsh Maheshwari, Jan 26, 2018, 10...	v.1	↓
 2012P - Oct 2016.pdf (296k)	Utkarsh Maheshwari, Jan 26, 2018, 10...	v.1	↓
 Apr2015.pdf (2146k)	Utkarsh Maheshwari, Mar 1, 2018, 2:2...	v.1	↓
 Apr2017.pdf (2610k)	Utkarsh Maheshwari, Mar 1, 2018, 2:2...	v.1	↓
 Insem_2015.pdf (423k)	Utkarsh Maheshwari, Mar 1, 2018, 2:2...	v.1	↓
 Insem_2016.pdf (292k)	Utkarsh Maheshwari, Mar 1, 2018, 2:2...	v.1	↓
 Insem_2017.pdf (329k)	Utkarsh Maheshwari, Mar 1, 2018, 2:2...	v.1	↓

Subject Teacher: Dr. Utkarsh Maheshwari

Class : BE

Subject : Elective IV: Petrochemical Engineering

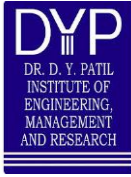
URL : <https://sites.google.com/site/petrochemsppu/>

Subject Teacher: Dr. Utkarsh Maheshwari

Class : BE

Subject : Process Dynamics and Control

URL : <https://sites.google.com/site/processdynamicscontrol/home>



# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

Faculty Name: Mr. D. P. Deshpande

Home Updated Nov 16, 2017, 12:49 PM

Dhundiraj Deshpande

Navigation

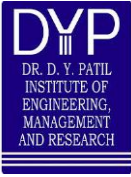
- Mass Transfer-I, Study Material
- Chemical Engineering
- Thermodynamics-II, Study Material
- Quadrion Bank
- Qualification
- Contact Me
- About Me

Chemica Engineering

**Chemical engineering** is a branch of **engineering** that applies **physical sciences** (**physics** and **chemistry**), **life sciences** (**microbiology** and **biochemistry**), together with **applied mathematics** and **economics** to produce, transform, transport, and properly use chemicals, materials and energy. A chemical engineer designs large-scale processes that convert chemicals, raw materials, living cells, microorganisms and energy into useful forms and products

Subpages (1): [Study Material Mass Transfer-I](#)

[Recent Site Activity](#) | [Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Google Sites](#)

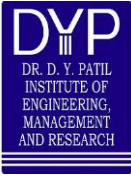


# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

The screenshot shows a web browser window displaying a Google Sites page. The page title is "Mass Transfer-I, Study Material" and it was last updated on Nov 16, 2017, at 1:04 PM. The page features a navigation menu on the left with the following items: "Mass Transfer-I, Study Material", "Chemical Engineering", "Thermodynamics-II, Study Materials", "Question Bank", "Qualification", "Contact Me", and "About Me". The main content area displays a list of five PDF files, each with a red arrow icon, a file name, size, author, date, and version information. Below the list is an "Add files" button and a "Comments" section.

File Name	Size	Author	Date	Version	Actions
Absorption 1.pdf	(414k)	Dhundiraj Deshpande	Nov 16, 2017, 1:09 PM	v.1	Download, Delete
Absorption 2.pdf	(518k)	Dhundiraj Deshpande	Nov 16, 2017, 1:09 PM	v.1	Download, Delete
Absorption 3.pdf	(421k)	Dhundiraj Deshpande	Nov 16, 2017, 1:09 PM	v.1	Download, Delete
Absorption Resistance.pdf	(414k)	Dhundiraj Deshpande	Nov 16, 2017, 1:11 PM	v.1	Download, Delete
Absorption With Chemical Reaction.pdf	(179k)	Dhundiraj Deshpande	Nov 16, 2017, 1:13 PM	v.1	Download, Delete



# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

Chemical Engineering Thermodynamics-II, Study Materials Updated Nov 16, 2017, 12:59 PM

**Navigation**

- Mass Transfer-I, Study Material
- Chemical Engineering Thermodynamics-II, Study Materials**
- Quaction Bank
- Qualification
- Contact Me
- About Me

**Files:**

File Name	Uploaded By	Time	Version	Actions
CET-4.pdf (1053k)	Dhundiraj Deshpande	Nov 16, 2017, 1:31 PM	v.1	Download, Delete
CET-1, 1.pdf (462k)	Dhundiraj Deshpande	Nov 16, 2017, 1:19 PM	v.1	Download, Delete
CET-1, 2.pdf (2049k)	Dhundiraj Deshpande	Nov 16, 2017, 1:26 PM	v.1	Download, Delete
Solution Thermodynamics.pdf (1687k)	Dhundiraj Deshpande	Nov 16, 2017, 1:28 PM	v.1	Download, Delete
chapter-9.pdf (618k)	Dhundiraj Deshpande	Nov 16, 2017, 1:32 PM	v.1	Download, Delete

Comments

Quaction Bank Updated Nov 16, 2017, 1:34 PM

**Navigation**

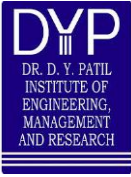
- Mass Transfer-I, Study Material
- Chemical Engineering Thermodynamics-II, Study Materials
- Quaction Bank**
- Qualification
- Contact Me
- About Me

**Files:**

File Name	Uploaded By	Time	Version	Actions
Assignment CET.docx (33k)	Dhundiraj Deshpande	Nov 16, 2017, 1:52 PM	v.1	Download, Delete
Chemical Equilibria.pdf (134k)	Dhundiraj Deshpande	Nov 16, 2017, 1:36 PM	v.1	Download, Delete
VLE.pdf (131k)	Dhundiraj Deshpande	Nov 16, 2017, 1:35 PM	v.1	Download, Delete

Comments

Dhundiraj Deshpande  
Add a comment



# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

**Qualification** Updated Nov 16, 2017, 12:52 PM

**Deshpande**

**Navigation**

- Mass Transfer-I, Study Material
- Chemical Engineering
- Thermodynamics-I, Study Materials
- Question Bank
- Qualification**
- Contact Me
- About Me

**Qualification**

Mr.Dhundiraj Deshpande has Compiled M.Tech in Petrochemical Technology from LIT, Nagpur.

Currently working as assistant professor in Chemical Engineering Department at Dr.D.Y.Patil Institute of Engineering Management and Research, Akurdi Pune

Dhundiraj Deshpande is having more than 6 years of Experience of Teaching. He has Published more than 22 Research paper in International Journal.

**Comments**

Dhundiraj Deshpande

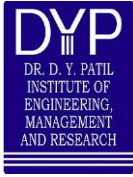
Add a comment

Recent Site Activity | Report Abuse | Print Page | Remove Access | Powered By [Google Sites](#)

Waiting for 99.docs.google.com...

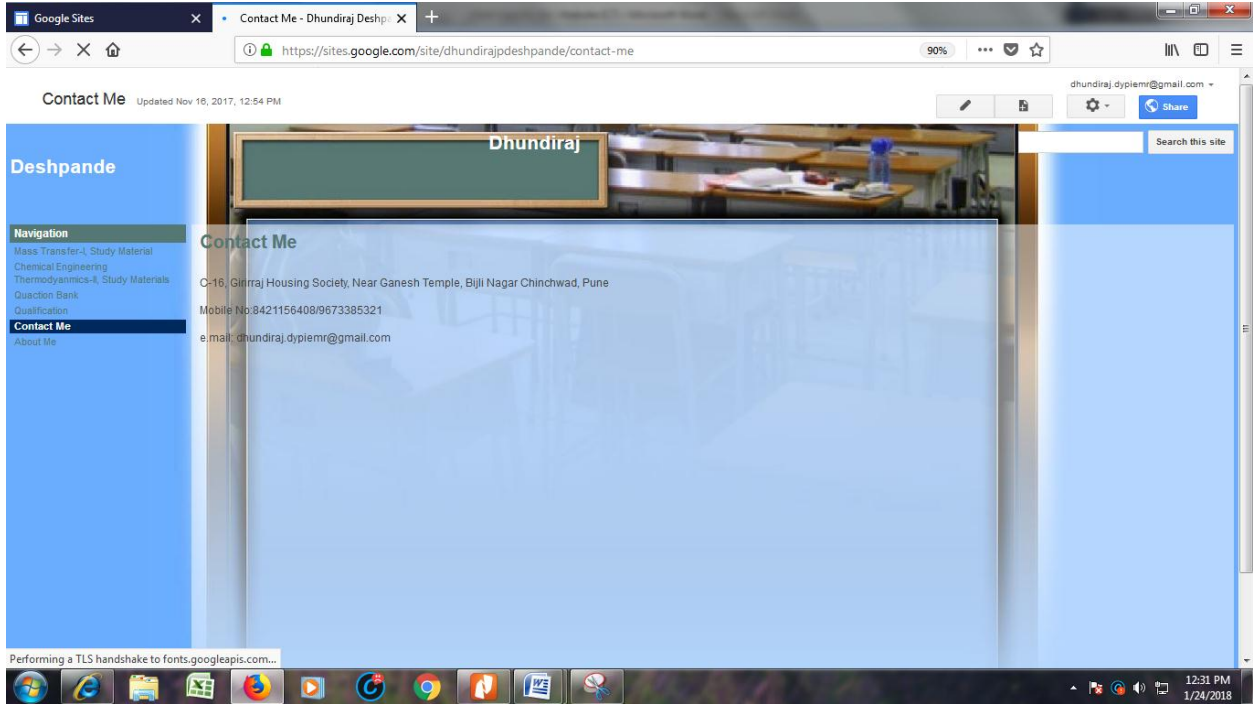
12:30 PM  
1/24/2018

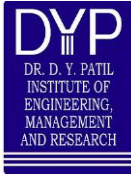




# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)





# Dr. D. Y. Patil Pratishthan's DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

Faculty Name: Mrs. Shubhangi Patil

<https://sites.google.com/site/mrsshubahngipatil31/>

Home a minute ago sspatil.dypiemr@gmail.com Share

## Mrs. Shubhangi Patil

HOME  
Home  
ICE

Page authors  
Shubhangi Patil  
October 28, 2017

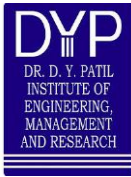
Contact Teacher  
Mrs. Shubhangi Patil/Powar  
Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune -44  
Contact No. 7057247283

### Home

Theory subject:  
[Chemical Reaction Engineering-II](#)  
[Engineering Materials](#)  
[Mechanical Operations](#)

Labs:  
Engineering Materials  
CACHE-II  
Mass Transfer-I  
[Introduction to Chemical Engineering](#)

[Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Sudipto Mitra](#)



**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

<https://sites.google.com/site/chemrxni/>

The screenshot shows a Google Sites page for 'Chemical Reaction Engineering-II'. The page has a blue header with the title and a search bar. The main content area is white with a blue border. On the left, there is a sidebar with a navigation menu. The footer contains links for 'Recent Site Activity', 'Report Abuse', 'Print Page', 'Remove Access', and 'Powered By Google Sites'.

Home Updated Oct 25, 2017, 3:55 PM sspatil.dypiemr@gmail.com Share

# Chemical Reaction Engineering-II

Search this site

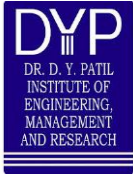
**Mrs Shubhangi Mam's Classroom**

- Home
- Contact Me
- Unit 1
- Unit:2
- Unit:3
- Unit: 4
- Unit:5
- Unit:6

**Meet Your Teacher**

Click here to read about **Mrs. Shubhangi Patil**

[Recent Site Activity](#) | [Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Google Sites](#)



**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

<https://sites.google.com/site/engineeringmaterials201718/>

Home Updated Oct 28, 2017, 4:36 PM sspatil.dypiemr@gmail.com

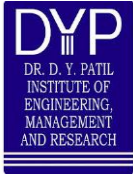
**EM**  Search this site

**Study material** **Home**

- Home
- Lab
- UNIT I
- UNIT II
- UNIT III
- UNIT IV
- UNIT V
- UNIT VI

Subpages (1): [Lab](#)

[Recent Site Activity](#) | [Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Google Sites](#)

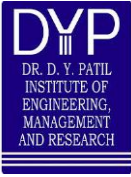


**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

<https://docs.google.com/forms/d/e/1FAIpQLSdqErAhe9JlgzEqgUzZTZg5hahdNCJwI5M1ZxfNRPZjmU UyNQ/viewform>

UNIT I	
<p>* Required</p>	
<p>Name *</p>	
<p>Your answer _____</p>	
<p>Email ID *</p>	
<p>Your answer _____</p>	
<p>The study of different pattern formation of atoms is called as____ 1 point</p>	
<p><input type="radio"/> metallurgy</p>	
<p><input type="radio"/> crystallography</p>	
<p><input type="radio"/> Physics</p>	
<p><input type="radio"/> none of above</p>	
<p>Crystallography is study of</p>	<p>1 point</p>



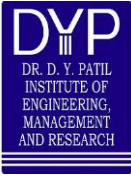
**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

<https://sites.google.com/site/mrsshubahngipatil/>

The screenshot shows a Google Sites page with a dark green header and footer. The page title is "Mechanical Operations". In the top right corner, there is a user profile for "sspatil.dypiemr@gmail.com" and a "Share" button. Below the header, there is a search bar with the text "Search this site". On the left side, there is a navigation menu with "Home" (highlighted) and "Sitemap". The main content area is titled "Home" and is currently empty. At the bottom of the page, there are links for "Report Site Activity", "Report Abuse", "Print Page", "Remove Access", and "Powered By" followed by a logo.

<https://sites.google.com/site/mrsshubahngipatil31/ice>



**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

ICE sspatil.dypiemr@gmail.com ▾

**Mrs. Shubhangi Patil**  Search this site

**HOME**

- Home
- ICE**

**Page authors**

Shubhangi Patil  
November 8, 2017

**Contact Teacher**

Mrs. Shubhangi Patil/Powar

Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune -44

Contact No. 7057247283

**ICE**

Add file Add link Add from Drive Move to ▾ Delete Subscribe to changes

ICE Lab Manuals.zip 1164k v. 1 Nov 8, 2017, 12:59 PM Shubhangi Patil

[Download](#)

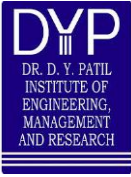
**Comments**

Shubhangi Patil

Add a comment

[Report Site Activity](#) | [Report Abuse](#) | [Print Page](#) | [Remove Access](#) | Powered By [Google Sites](#)

Second Year Student giving online test for following subjects:  
MO, HT, CET-I, POD, CHEM-II on UNIT I using **Google Form**



**Dr. D. Y. Patil Pratishthan's**  
**DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT & RESEARCH**

Approved by A.I.C.T.E, New Delhi , Maharashtra State Government, Affiliated to SavitribaiPhule Pune University  
Sector No. 29, PCNTDA ,NigidiPradhikaran, Akurdi, Pune 411044. Phone: 020-27654470, Fax: 020-27656566  
Website : [www.dypiemr.ac.in](http://www.dypiemr.ac.in) Email : [principal.dypiemr@gmail.com](mailto:principal.dypiemr@gmail.com)

---

