

# CHEMICAL INDUSTRY ECONOMICS

---

**DR. ANANT SARABHAI JHAVERI**

Bachelor of Chemical Engineering (B. Chem. Engg.),  
Ph.D (Tech.) Chemical Engg

Faculty  
Polymerupdate Academy

**Address:**

1001/1002, Lodha Supremus,  
Opp 'The World Towers' Senapati Bapat Marg,  
Lower Parel (West), Mumbai - 400013,  
Tel: (91-22) 61772000 (25 Lines)

# INDEX

---

1. Introduction
2. Site selection
3. Technology Selection
4. Project Cost
5. Plant and Machinery
6. Depreciation
7. Interest
8. Contingency
9. Margin Money
10. Cost of Production
11. Project Profitability
12. Project Financing
13. Project Evaluation

# SUMMARY

---

The concepts of evaluation, management & implementation are universal to all projects. Either one pays close attention to even the minutest of details to have a trouble free organization or adopts a casual approach at the start resulting in costly errors at a later date.

This course considers closely the relevant importance of various factors affecting project implementation. It also offers information estimating project costs & methods of evaluating profitability. It highlights close relationship between technology & profitability.

Whether you're a student, researcher, or industry professional, this lecture will provide valuable insights and practical knowledge to enhance your understanding of Chemical Industry Economics.

# WHO THIS COURSE IS FOR

---

- 1) Undergraduate degree & diploma students,
- 2) Process & project engineers
- 3) Persons involved in plant upgradation or implementing new projects.

# WHAT WILL YOU LEARN

---

Knowledge of this subject is useful for upgrading existing units, new units-both brown field & grassroots.



## **Dr. Anant Sarabhai Jhaveri**

Bachelor of Chemical Engineering (B. Chem. Engg.),  
Ph.D (Tech.) Chemical Engg

Faculty -  
Polymerupdate Academy

---

Dr. Anant Sarabhai Jhaveri has completed his Bachelor of Chemical Engineering (B. Chem. Engg.) and Ph.D. (Tech.) Chemical Engg. And has been teaching of subjects like the Mass Transfer Operations I, Mass Transfer Operations II, Process Calculation, Fluid Mechanics, Heat transfer Operations, Project and Process Engineering, Plant Utilities, Economics of chemical Projects, TQM.

He was a Research Fellow in the Department of Chem, Engg., "University of Salford", U.K, and a Reader in Chemical Engineering, University Chemical Technology, Mumbai. He has been a Consultant in Savita Chemicals, Bombay, and a Sr. Process Engineer in Humphreys and Glasgow Consultants Pvt Ltd., Bombay for 5 years.

Dr Jhaveri has been the Chief Executive at Industrial Process (Maharashtra) for 5 years and at Samy Chemicals Pvt. Ltd. Jeevan Jyot for 2 years. He was a Proprietor at the M/s. Fine Chemicals and PRATNER of M/s. Pearl Chemical Industries for around 14 years.

His other experiences include being a Professor & HOD at the Chemical Engineering Department of Thadomal Shahani Engineering College, a Consultant at M/s. Multi organics Pvt, a Process Engineering Consultant at M/s. Chempro Expertise Pvt. Ltd., Mumbai. He was also the Principal of Vidyalankar Institute of technology for 2.5 Years.

Currently, he is the Prof. & HOD-chemical eng. And Chairperson-Technology Management at MPSTME for over 9 years.

# ACHIEVEMENT & AWARDS

---

- Appointed as Chairman on Board of Studies (ad-hoc) in Chemical Engineering for three years in "University of Mumbai" & subsequent to this appointment, member of various committees like Academic Council
- Research Publication : 'Kinetics of absorption of oxygen in aqueous solution of cuprous chloride', Jhaveri A.S. & Sharma M. M., Chem. Engg. Science 1967, 22, 1.
- 'Absorption of oxygen in aqueous alkaline solutions of sodium disulfide', Jhaveri A.S. Engg. Science, 1968, 23, 699.
- 'Effective interfacial area in a packed column', Jhaveri A.S. & Sharma M.M., Chem. Science, 1968, 23, 699.
- 'Absorption with chemical reaction', Jhaveri A.S. & Sharma M.M., Chem. Engg. Science, 1969, 24, 189.
- 'Absorption of a gas into a solution containing two reactants' Jhaveri A.S. Chem. Engg. Science, 1970.
- 'Power consumption for mixing of inelastic non-Newtonian fluids by Helical Screw Agitators', V.V. Chawan, A.S. Jhaveri & J. Ulbrecht, Frars, Chem. Engg. Science.

# RESEARCH PROJECTS COMPLETED

---

- Commissioning of Ammonia, Urea and off-site plants of Mangalore Chemicals and Fertilizers Limited.
- Methanol Distillation Plant of Cibatul Limited.
- Pesticide graduation plant of Cynamid India Limited.
- Microniser Plant of Indofil Limited.
- Modification of existing Soda Ash Plant of Sahu Chemicals and Fertilizers Limited.
- Off-site Facilities for Indian Farmers Fertilizers Co.
- Design of Chlorine and mono-methyl amines tankers for Union Carbide.
- Project report for Soda Ahs Plant for Kerala Industrial Development Corporation

# THANK YOU

## **DR. ANANT SARABHAI JHAVERI**

---

Bachelor of Chemical Engineering (B. Chem. Engg.),  
Ph.D (Tech.) Chemical Engg

Faculty  
Polymerupdate Academy

### **Address:**

1001/1002, Lodha Supremus,  
Opp 'The World Towers' Senapati Bapat Marg,  
Lower Parel (West), Mumbai - 400013,  
Tel: (91-22) 61772000 (25 Lines)