

ADVANCE DIPLOMA CERTIFICATION IN AIR CONDITIONER & REFRIGERATION

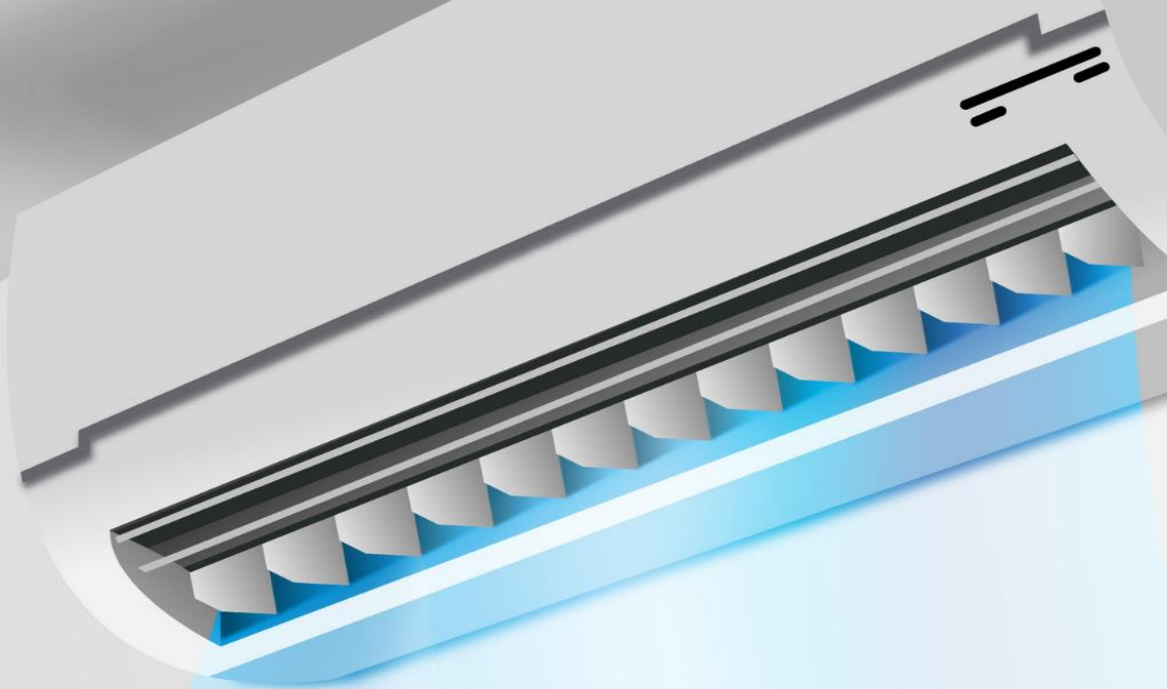


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About Glister Eduversity

Today is the era of working parents and due to workload, they do not get enough time to support their children's education. Therefore, they are heavily blamed by All, in the current dialogue and debate about Improving the education system, the disadvantages of improper parenting is known to all.

It is time to start parenting in the education system. With the Glister Eduversity, we present you the solution to all such problems switching towards telephonic parenting, proper guidance and development graph.

This is the first Indian institution to provide education care with parenting. Glister Education offers telephonic parenting with right strategic plans for the student, online test series, seminar, scholarship programs, in really Attractive packages.

We also guide their appointments as well as their Strategies. So, let's don't wait, and achieve nothing less than success with Glister Eduversity Parenting cum Education Care.



Director: Amit Pandey

Mission

The mission of Glister Eduversity is to educate the citizens and citizen-leaders for our society.

We do this through our commitment to the transformative power of a liberal arts and sciences education.

Beginning in the classroom with exposure to new ideas, new ways of understanding and new ways of knowing, students embark on a journey of intellectual transformation.

Through a diverse living environment, where students live with people who are studying different topics, who come from different walks of life and have evolving identities, intellectual transformation is deepened and conditions for social transformation are created.

From this we hope that students will begin to fashion their lives by gaining a sense of what they want to do with their gifts and talents, assessing their values and interests, and learning how they can best serve the world.

Vision

Glister Eduversity will set the standard for residential liberal arts and sciences education in the twenty-first century. We are committed to creating and sustaining the conditions that enable all Glister Eduversity students to experience an unparalleled educational journey that is intellectually, socially, and personally transformative.

Welcome to the Glister Eduversity, Varanasi. For more than three Years, Glister Eduversity has served as our nation's flagship comprehensive institution of higher education.

Our primary goal is to become one of the most prominent and excellent educational Institute in the world. We are fortunate to have a talented, highly committed teaching and support staff here to ensure the learning environment of our students is the best it can be. Our faculties are renowned scholars and accomplished practitioners who are actively engaged in the academic excellence and innovative research ideas of the modern world. Our students are innovators, engineers, managers, great scientists, entrepreneurs, and aspiring leaders - from every age group and are located at every corner of the country. Our unique teaching and learning process with a proper blend of theory and practice crosses the boundaries of nations towards industry-readiness and global excellence.

Program overview

This Course provides a simple understanding of Refrigeration and Air-conditioning fundamentals. Ideally suited to those with a little or no knowledge of the subject. The course consists of different refrigeration cycles and understanding of psychrometry and psychrometric processes used for the purpose of air-conditioning. Further, the comfort air-conditioning and indoor environment health are also addressed in this course

Salient Features



Air-Conditioning and Refrigeration Technology is being widely recognized for the technicians in Skill development.



The aim of this course is to strive together to make our students ready and help them work on incorporating Air-Conditioning and Refrigeration Technology to improve their practical and learning skills with the modern technology.



Throughout the study material emphasis is placed on the cyclic nature of the refrigeration system And each part of the system is carefully examined is relation to the whole.



Course Objective

The objectives of this course are to:

1. Learning the fundamental principles and different methods of refrigeration and air Conditioning.
2. Study of various refrigeration cycles and evaluate performance using Mollier charts and/ or refrigerant property tables.
3. Comparative study of different refrigerants with respect to properties, applications and environmental issues.
4. Understand the basic air conditioning processes on psychometric charts, calculate Cooling load for its applications in comfort and industrial air conditioning.
5. Study of the various equipment-operating principles, operating and safety controls employed in refrigeration air conditioning systems.

Learning Outcome:

- Illustrate the fundamental principles and applications of refrigeration and air conditioning system.
- Obtain cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems.
- Present the properties, applications and environmental issues of different refrigerants,
- Calculate cooling load for air conditioning systems used for various CO5 - Operate and analyze the refrigeration and air conditioning systems.

1. Title of the Course

The Course shall be called as “Advance Diploma Certificate Course in Refrigeration & Air Conditioning ”, a Regular course of 12 months (480 hrs.) Duration.

2. Duration of the Course

This is a Regular course of 480 hrs. Extended over a period of 12 months duration.

3. What You Will Get:

You Will Get a Mark sheet and a Certificate That Will be Universally Acceptable.

4. Aims and Objectives of the Course

To provide judicious mix of skills relating to a profession and appropriate content of General Education. To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme. To provide flexibility to the students by means of pre-defined entry and multiple exit points. After successfully completing the course, the student would have acquired relevant appropriate and adequate technical knowledge together with the professional skills and competencies in the field of Refrigeration and Air Conditioning so that he/she is properly equipped to take up gainful employment in this Vocation. Thus he/she should have acquired.

5. SCOPE:

Technician, Installer, Cooling and Refrigeration Mechanic, Retail Manager, Professionals at Manufacturing Plant, Maintenance Engineer

6. Syllabus

The syllabus is design to fulfill aforesaid objectives containing theory subjects as well as practical in refrigeration & Air Conditioning.

Basic Electric	Theory : 50 Marks, Practical/Assignment : 50 Marks
Refrigerator Study (All Type)	Theory : 50 Marks, Practical/Assignment : 50 Marks
Refrigerator Practical	Theory : 50 Marks, Practical/Assignment : 50 Marks
Water Cooler, Deep Freezer	Theory : 50 Marks, Practical/Assignment : 50 Marks
Automatic Stabilizer	Theory : 50 Marks, Practical/Assignment : 50 Marks
Window A.C (Theory/Practical)	Theory : 50 Marks, Practical/Assignment : 50 Marks
Automobile A.C (Theory)	Theory : 50 Marks, Practical/Assignment : 50 Marks
Split A.C	Theory : 50 Marks, Practical/Assignment : 50 Marks
Tower & Cassette A.C	Theory : 50 Marks, Practical/Assignment : 50 Marks
Cold Storage, Ice Candy	Theory : 50 Marks, Practical/Assignment : 50 Marks
Package Cooling System & Plant A.C System	Theory : 50 Marks, Practical/Assignment : 50 Marks

7. Eligibility Conditions

A candidate who has passed at least 10th examination from a recognized Board or its equivalent shall be eligible to take admission to the course.

8. Course Fee: INR 30,000+GST/-

Content of Syllabus :

Unit 1:- Basic Electric

Basic Electric

Unit 2: - Refrigerator Study (All Type)

Refrigerator Study (All Type)

Unit 3:- Refrigerator Practical

Refrigerator Practical

Unit 4:- Water Cooler, Deep Freezer

Water Cooler, Deep Freezer

Unit 5:- Automatic Stabilizer

Automatic Stabilizer

Unit 6:- Window A.C (Theory/Practical)

Window A.C (Theory/Practical)

Unit 7:- Automobile A.C (Theory)

Automobile A.C (Theory)

Unit 8:- Split A.C

Split A.C

Unit 9:- Tower & Cassette A.C

Tower & Cassette A.C

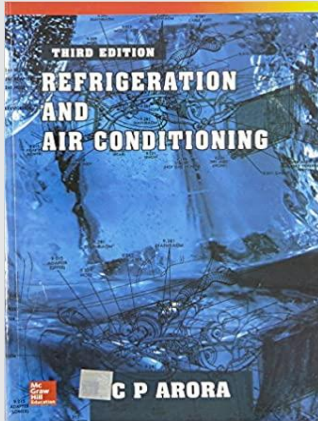
Unit 10:- Cold Storage, Ice Candy

Cold Storage, Ice Candy

Unit 11:- Package Cooling System & Plant A.C System

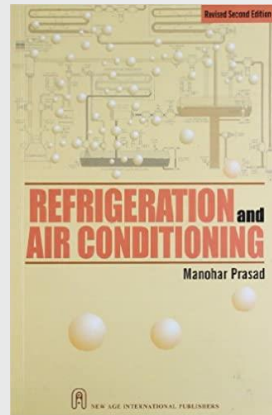
Package Cooling System & Plant A.C System

Books For Reference



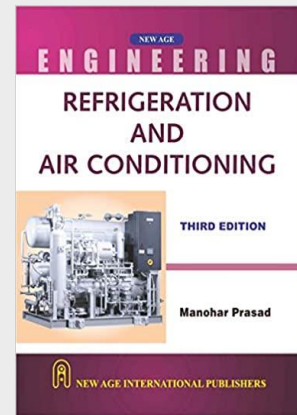
Refrigeration & Air-conditioning

CP Arora



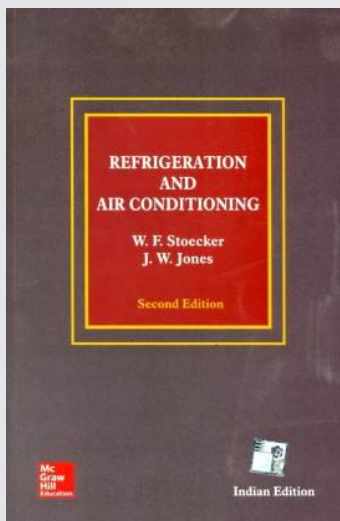
Refrigeration & Air-conditioning

Manohar Prasad, NAI

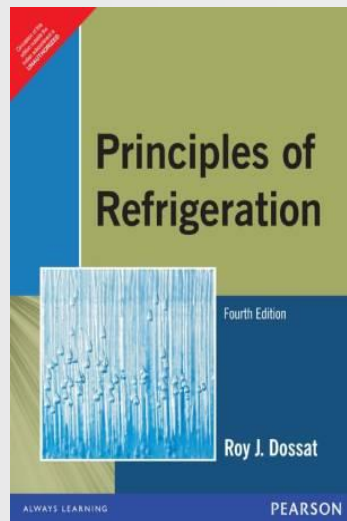


Refrigeration and Air Conditioning

Manohar Prasad



Refrigeration & Air-conditioning,
Stoecker & Jons, MGH



Principles of Refrigeration
Roy J. Dossat