

# Electronics

## B. Voc. in Refrigeration and Air Conditioning

### Course Introduction

B. Voc. in Refrigeration and Air Conditioning Technology course is to provide a broad introduction to air conditioning and refrigeration systems, including everyday operation & important refrigerant safety practices. The course is a great overview for maintenance technicians, multi-craft tradespeople, building managers, HVAC technicians or anyone seeking to improve their RAC operation and maintenance skills.

Students are taught common practices and some tricks-of-the-trade for general operation and maintenance of their RAC systems. They will learn about maintenance schedules and servicing, system diagnostics, troubleshooting and fine-tuning to gain maximum efficiency.

The course also covers an introduction to commercial and industrial chillers, regulatory laws and energy conservation.

### Eligibility for Admission

The eligibility for admission to B.Voc.in Refrigeration and Air Conditioning Technology shall be 10+2 or equivalent, in any stream.

### Career Prospects/Job Roles

B. Voc. in Refrigeration and Air Conditioning Technology industry is on a fast track growth trajectory, provides very dynamic and exciting careers with many different job opportunities such as: *RAC Field Engineer, RAC Mechanical Designers, RAC Installers Sales and Marketing representative, HVAC Operator, HVAC Engineer.*

### Semester-wise Listing of Courses

SEMESTER I		
Subject Code	Subject Name	Credits
GE 1.1	Functional English	4
GE 1.2	Communication Skills - I	4
GE 1.3	Computing Skills - I	4
VE 1.1	Fundamentals of Electricity and Electronics	2
VE 1.2	Introduction to Refrigerators A. Domestic Applications B. Commercial Applications C. Modern Technologies & Developments	2
VE 1.3	Installation & Maintenance/ Servicing, Emergency actions and First-Aid/Safety (Refrigerator)	2
VPE 1	Vocational Practical	12

SEMESTER II		
Subject Code	Subject Name	Credits
GE 2.1	Basics of Economics and Markets	4
GE 2.2	Environment Sciences	4
GE 2.3	Ethics and Governance	4
VE 2.1	Introduction to Air Conditioners and Comfort Cooling: A. Domestic Applications B. Commercial Applications C. Modern Technologies & Developments	4
VE 2.2	Safety Precautions, Installation & Maintenance/ Servicing	2
VPE 2	Vocational Practical	12

SEMESTER III		
Subject Code	Subject Name	Credits
GE 3.1	Communication Skills - II	4
GE 3.2	Financial Literacy	4
GE 3.3	Basics of Legal and HR Policies	4
VE 3.1	New Technologies and Diagnosis & Repairing of Refrigerators	4
VE 3.2	New technologies & Developments in Air Conditioners	2
VPE 3	Vocational Practical	12

SEMESTER IV		
Subject Code	Subject Name	Credits
GE 4.1	Computing Skills - II	2
GE 4.2	Basics of Accounting	4
GE 4.3	Design Thinking	4
GE 4.4	Organizational Behaviour	2
VE 4.1	Diagnosis & Repairing of Air Conditioners	2
VE 4.2	Basic Components of Commercial Refrigeration System	4
VPE 4	Vocational Practical	12

SEMESTER V		
Subject Code	Subject Name	Credits
GE 5.1	Digital Literacy	4
GE 5.2	Health and Wellness	4
GE 5.3	Personal Grooming	4
VE 5.1	Commercial Applications of Refrigerators	2
VE 5.2	Commercial Applications of Air Conditioners - I	4
VPE 5	Vocational Practical	12

SEMESTER VI		
Subject Code	Subject Name	Credits
GE 6.1	Entrepreneurship	4
GE 6.2	Employment Readiness	4
GE 6.3	Effective Workplace Skills & Competencies	4
VE 6.1	Commercial Applications of Air Conditioners - II	2
VE 6.2	Commercial Air Conditioner Controls & Operating	4
VPE 6	Vocational Practical	12

**Programme fees:** (Rs. 30,000/-per annum)

**Examination fees:** (Rs. 1,600/- per semester and Rs.3200 per annum)

**Caution Deposit (Refundable):** Rs.5000

**Convocation Fees:** Rs.2000/- (In absentia Rs.2500/-)

**Campus Immersion Expenses:** (Travel & Logistics for 7-10 days on Campus) are not part of the fee structure and the expenses will have to be met by the students followed by communication.