

MRPL Syllabus

MRPL Apprentice Trainee Syllabus for General Studies:

- Current Affairs.
- Economy.
- General Knowledge about Science.
- Polity.
- History of State And Country.
- Sports Related News.
- Latest Events.
- Persons in Headlines.
- Sports.
- Name of Ministers.
- Budget.

Mangalore Refinery Syllabus for General Maths:

- Average
- Percentages
- Problems on Ages
- Time and Distance
- Ratio and Proportion
- Number Systems
- Pipes and Cisterns
- H.C.F. and L.C.M
- Profit and Loss
- Data Interpretation
- Time and Work
- Mixture and Alligation
- Boats and Streams
- Simple & Compound Interest
- Discounts etc.

MRPL Graduate Apprentice Trainee Syllabus for English Language:

- Match the following words and Phrases given in Column A with their meanings in Column B.
- Choose the correct 'Synonyms' for the underlined word from the options given
- Choose the correct 'Antonyms' for the underlined word from the options given
- Select the correct word (Prefix, Suffix)
- Fill in the blanks with suitable Article
- Fill in the blanks with suitable Preposition
- Select the correct Question Tag
- Select the correct Tense
- Select the correct Voice
- Fill in the blanks (Infinitive, Gerund, Participle)
- Identify the sentence pattern of the following sentence (Subject, Verb, Object....)
- Blanks with correct 'Homophones'
- Find out the Error (Articles, Prepositions, Noun, Verb, Adjective, Adverb)
- Comprehension

- Select the correct sentence
- Find out the odd words (Verb, Noun, Adjective, Adverb)
- Select the correct Plural forms
- Identify the sentence (Simple, Compound, Complex Sentence)
- Identify the correct Degree.
- Form a new word by blending the words.
- Form compound words (Eg: Noun+Verb, Gerund+Noun)

Mangalore Refinery and Petrochemicals Limited Science Syllabus for GAT & TAT:

- Dual Nature of Matter and Radiations
- Physical World and Measurement
- Optics
- Nutrition and Health
- Electromagnetic Waves
- Principles of Communication
- Heat Thermodynamics
- The Motion of System of Particles & Rigid Body
- Electromagnetic Induction and Alternating Current
- Atomic Nucleus / Solid and Semi-Conductor Devices
- Computer Science
- Physiology and Human Diseases
- Work, Energy, and Power
- Kinematics
- Laws of Motion
- Magnetic Effect of Current and Magnetism
- Mechanics of Solids and Fluids
- Electrostatics
- Food
- Organic Chemistry
- Metals and Non-Metals

MRPL Graduate Apprenticeship Syllabus for Chemical:

- Electrochemistry
- Reaction Dynamics.
- Atoms and Molecules.
- Spectroscopic Techniques.
- Stereochemistry.
- Photochemistry
- Organic Reactions.
- Transition Metal Chemistry.

MRPL Technician Apprenticeship Syllabus for Electronics & Communications:

- Basics of Circuits and Measurement Systems.
- Electrical and Electronic Measurements.
- Signals & Systems,
- Analytical, Optical Instrumentation.
- Digital Electronics.
- Analog Electronics.

- Transducers, Mechanical Measurement.
- Industrial Instrumentation.
- Control Systems and Process Control.
- Communications

Mangalore Refinery GA Syllabus for Civil:

- Building Materials.
- Steel Design.
- Theory of structures.
- Surveying
- RCC Design.
- Estimating, Costing, and Valuation.
- Soil Mechanics
- Hydraulics
- Environmental Engineering.
- Transportation Engineering.
- Structural Engineering.
- Irrigation Engineering.
- Concrete Technology.

MRPL Apprentice Syllabus for Mechanical:

- Fluid Mechanics.
- Theory of Machines.
- The design of Machine Element.
- Manufacturing Technology.
- Heat Engines.
- The Strength of Materials.
- Thermodynamics
- Structural Engineering.
- Automobile Engineering.
- Hydraulics
- Industrial Engineering & Management etc.

MRPL Technician Apprentice Syllabus for Instrumentation:

- Basics of Circuits and Measurement Systems
- Analog Electronics
- Signals & Transducers
- Analytical Instrumentation
- Systems and Communications
- Industrial Instrumentation
- Optical Instrumentation
- Biomedical Instrumentation
- Control Systems and Process Control
- Electrical and Electronics Measurements
- Mechanical Measurement
- Digital Electronics

MRPL Graduate Apprentice Exam Pattern

MRPL Apprentice Exam Pattern:

S.NO	Type of Exam	Name of the Subject	Number of Questions	Time Duration
1	Objective Type	English	50 Questions	90 Minutes
2		Mathematics		
3		General Knowledge		
4		Science		

