NTRO Syllabus

NTRO Technical Asst. Syllabus for General English

- Grammar.
- Verb.
- Unseen Passages.
- Subject-Verb Agreement.
- Vocabulary.
- Error Correction.
- Synonyms.
- Antonyms.
- Fill in the Blanks
- Adverb
- Comprehension
- Sentence Rearrangement
- Articles
- Idioms & Phrases
- Tenses.

NTRO Syllabus for Numerical ability

- Number System
- HCF & LCM
- Problems on Ages
- Percentages
- Ratio and Proportions
- Time and Work
- Mixtures & Allegations
- Simple & Compound Interest
- Simplification
- Profit and Loss
- Decimal & Fractions
- Average
- Time and Distance
- Data Interpretation

NTRO Technical Assistant Syllabus for Reasoning

- Number Series
- Cubes and Dice
- Alphabet Series
- Mirror Images
- Non-Verbal Series
- Blood Relations
- Clocks & Calendars
- Directions
- Number Ranking
- Analogy
- Coding-Decoding
- Decision Making
- Arithmetical Reasoning
- Embedded Figures

**National Technical Research Organization Exam Syllabus for General Knowledge**

- Indian History.
- Public Administration in India.
- Indian Economy.
- Science & Technology.
- Indian Geography.
- Democratic Federal Division.
- Current Affairs.
- Agriculture.
- Governance.
- Constitution.

**NTRO Technical Assistant Syllabus For Computer Science Stream**

- Computer
- Operating systems
- Virtual Memory
- File System
- I/O System
- Assemblers
- Fundamentals of programming: FORTUN, C, C++, JAVA
- Database Management Systems
- Internet Technology
- Fundamentals of Geographical Information System (GIS)

**National Technical Research Organization Syllabus for Electronics Stream**

- Conductors, Semiconductors, Insulators, Magnetic, Passive components, Resistors, Capacitors, and inductors. PN Junction diode, Zener
- PN Junction diode, Zener diode, and Applications.
- Bipolar Junction Transistors (BJT) Field Effect Transistor (FET) and MOSFET;
- BJT, FET, and MOSFET Biasing and stability, Emitter follower and its applications – Negatives feedback transistor
- Biasing and stability
- Emitter follower and its applications – Negatives feedback transistor
- Negatives feedback transistor applications
- Multistage Amplifiers Feedback, Oscillators,
- Feedbacks
- Oscillators
- Multivibrators
- Voltage regulation
- Power amplifiers.
- Introduction to Network Theorems
- Voltage and Current relationship in the resistance, inductance, and capacitance
- Resonance
- Digital electronics

**NTRO Exam Pattern**

<table>
<thead>
<tr>
<th>Subject/stream</th>
<th>Number of questions</th>
<th>Maximum marks</th>
<th>Duration of examination</th>
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<tbody>
<tr>
<td>Electronics:</td>
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<tr>
<td>General Science, Current Affairs,</td>
<td>100</td>
<td>400</td>
<td>02 hours</td>
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- There will be 100 Multiple Choice Computer Based questions in the examination
- Each question will be of 04 marks
- Candidates need to choose right answer from the 04 choices given
- Total time given to candidates to complete the examination will be 02 hours
- Negative marking will also be there as 01 mark will be deducted for each wrong answers
- No marks will be deducted or given for questions unattempted.