

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION

TS Intermediate Syllabus Guide

A Complete Stream-Wise Overview for 1st & 2nd Year
Students

MPC

BIPC

CEC

MEC

HEC

Vocational

2025 - 26 ACADEMIC YEAR EDITION



Table of Contents

Everything covered in this guide

1

Introduction

About TS Intermediate education & how streams are chosen

03

2

MPC Stream — Mathematics, Physics, Chemistry

Engineering & technology pathway

04

3

BiPC Stream — Biology, Physics, Chemistry

Medical & life-sciences pathway

05

4

CEC & MEC Streams — Commerce Group

Business, economics & finance pathway

06

5

HEC Stream — Humanities Group

History, Economics, Civics & social sciences

07

6

Vocational Courses

Skill-based diploma-style pathways (e.g. MLT)

08

7

Conclusion & Study Tips

Choosing wisely and preparing well

09

✦ A Quick Note

This guide gives a stream-wise overview of subjects, broad unit themes, and marks distribution for the TS Intermediate (Class 11 & 12) course conducted by TSBIE. For the exact, chapter-by-chapter official syllabus and any year-specific updates, always cross-check with the official TSBIE website (tgbie.cgg.gov.in), since syllabi and marks patterns are revised periodically.



Introduction

Understanding TS Intermediate education

The **Telangana State Board of Intermediate Education (TSBIE)** conducts the Intermediate Public Examination (IPE) for students of Class 11 (Junior Inter / 1st Year) and Class 12 (Senior Inter / 2nd Year) across the state. It is a crucial two-year stage that bridges school education and higher studies, forming the foundation for entrance exams such as EAMCET/EAPCET, JEE, NEET and CLAT, and for admission into degree, engineering, medical, and law programmes.

How Streams Work

After Class 10, students choose one of several "streams" (also called groups) based on their interests and career goals. Each stream bundles a fixed set of optional subjects along with common subjects like English and a Second Language. The major streams are MPC, BiPC, MEC, CEC, and HEC, along with vocational courses such as MLT.

6

MAIN STREAM
GROUPS

1000

TOTAL MARKS
(TYPICAL)

2

YEARS OF STUDY

35%

MINIMUM PASS
MARKS

Exam Structure at a Glance

Papers are generally structured across Part I (English), Part II (Second Language), and Part III (the stream's core/optional subjects). Recent exam patterns emphasise concept-based and application-oriented questions — including MCQs, short answers, case-based questions, and assertion-reason items — supported by QR-coded textbooks that link to extra digital study material.

The following sections break down each stream — the subjects it includes, the broad themes covered, indicative marks split, and typical career directions — so you can see the syllabus landscape at a glance before diving into official TSBIE materials for full chapter-wise detail.



MPC — Mathematics, Physics, Chemistry

The most popular stream · gateway to engineering & technology

MPC is chosen by students aiming for engineering, architecture, defence, data science, and other technology-driven careers. It is strongly numerical and application-based, forming the core syllabus for EAMCET/EAPCET and JEE preparation.

Mathematics (Paper 1A / 1B in Year 1, 2A / 2B in Year 2)

75+75 marks

Algebra, Trigonometry, Vector Algebra, Coordinate Geometry (2D & 3D), Calculus (Differentiation & Integration), Probability and Statistics form the broad themes across the two years.

Physics

60 marks + practicals

Covers Mechanics, Waves and Oscillations, Thermodynamics, Electrostatics and Current Electricity, Magnetism, Optics, and Modern Physics, with numerical problem-solving and lab-based practicals given extra weightage.

Chemistry

60 marks + practicals

Includes Atomic Structure, Periodicity, Chemical Bonding, States of Matter, Thermodynamics, Electrochemistry, p/d/f-block elements, and Organic Chemistry (hydrocarbons, alcohols, aldehydes, ketones, carboxylic acids).

English

100 marks

Prose, poetry, grammar and writing skills — common across all streams.

Second Language

100 marks

Telugu, Hindi, Urdu, Sanskrit or another approved language.

Career paths: B.Tech/B.E., Architecture, Data Science & AI, Aviation, Defence Services (NDA), Pure Sciences, Research.



BiPC — Biology, Physics, Chemistry

The medical & life-sciences pathway

BiPC is designed for students aspiring toward medicine, pharmacy, agriculture, nursing, biotechnology and allied health sciences. It carries strong weightage for diagrams, lab practicals, and concept-based Biology questions, forming the base for NEET and TS EAMCET (Agriculture/Medical stream).

Botany

60 marks + practicals

Diversity and classification of plants, plant morphology and anatomy, cell biology and genetics, plant physiology, ecology, and biotechnology applications.

Zoology

60 marks + practicals

Animal diversity, human physiology and anatomy, genetics and evolution, reproduction, and applied biology / biotechnology.

Physics

60 marks + practicals

Similar core themes to MPC Physics, with relatively less numerical intensity — Mechanics, Heat, Electricity & Magnetism, Optics, and Modern Physics.

Chemistry

60 marks + practicals

Physical, Inorganic and Organic Chemistry themes, with an emphasis on application-based questions and reaction mechanisms relevant to biological systems.

English

100 marks

Common language paper across all streams.

Second Language

100 marks

Choice of Telugu, Hindi, Urdu, Sanskrit, and others.

Career paths: MBBS/BDS, Pharmacy, Nursing, Agriculture Sciences, Biotechnology, Veterinary Science, Allied Health.



CEC & MEC — Commerce Group

Business, economics, accountancy & finance pathway

The Commerce group is offered in two close variants: **CEC** (Civics, Economics, Commerce) and **MEC** (Mathematics, Economics, Commerce) for students who also want a quantitative option alongside commerce subjects. Both suit students aiming for careers in business, banking, accountancy and management.

Commerce

100 marks

Business organisation, elements of book-keeping and accountancy, partnership and company accounts, banking and financial markets.

Economics

100 marks

Introduction to Economics, consumer behaviour, production and market analysis, national income, money and banking, and the Indian economy — often illustrated through case studies, graphs and tables.

Civics

100 marks (CEC only)

Indian Constitution, political institutions, governance, public administration and citizenship — replaced by Mathematics in the MEC variant.

Mathematics

75 marks (MEC only)

A business-mathematics-oriented syllabus covering algebra, calculus basics, and statistics for students who want a quantitative edge alongside commerce.

English

100 marks

Common language paper across all streams.

Second Language

100 marks

Choice of Telugu, Hindi, Urdu, Sanskrit, and others.

Career paths: B.Com, BBA, CA/CS/CMA, Banking & Finance, Business Management, Entrepreneurship.



HEC — Humanities Group

History, Economics, Civics & social sciences

HEC (and related Humanities combinations such as HGL — History, Geography/Government, Literature/Logic) is ideal for students drawn to society, governance, law and public service. It carries no compulsory Mathematics or laboratory Science load, making it popular with students preparing for civil services and government examinations from an early stage.

History

100 marks

Ancient, medieval and modern Indian history, along with themes in world history and the freedom movement.

Economics

100 marks

Same broad economics themes as the Commerce group — consumer and market behaviour, national income, money and banking, and the Indian economy.

Civics

100 marks

Constitution, governance, political theory and public administration.

Optional: Geography

100 marks

Where offered in place of Civics — physical, human and economic geography with a practical/map-work component; considered one of the higher-scoring Humanities subjects.

English

100 marks

Common language paper across all streams.

Second Language

100 marks

Choice of Telugu, Hindi, Urdu, Sanskrit, and others.

Career paths: UPSC/TSPSC Civil Services, Law (via CLAT), Journalism, Teaching, Social Work, Public Administration.



Vocational Courses

Skill-focused, job-oriented Intermediate pathways

Alongside the academic streams, TSBIE also offers Vocational Intermediate courses that combine general subjects with hands-on technical training, preparing students for direct employment or specialised diploma/degree progression. **MLT (Medical Laboratory Technology)** is one widely-chosen option among several vocational trades.

General Foundation Subjects

English and a Second Language are studied alongside a General Foundation Course covering basic science, computer literacy and communication skills.

Vocational/Trade Subjects

Trade-specific theory and extensive practical/lab training — for example, MLT covers clinical laboratory techniques, pathology basics, and diagnostic procedures; other trades span areas like commercial practice, computer science, and agriculture.

Career paths: Direct employment as lab/paramedical technicians and trade specialists, or lateral entry into related diploma and degree programmes.

i Good to Know

Vocational streams typically have somewhat different admission routes and college availability compared to MPC/BiPC/CEC/HEC, so it's worth confirming offerings with your local junior college or the TSBIE website.



Conclusion

Choosing your stream, and making the most of it

Every TS Intermediate stream — MPC, BiPC, CEC/MEC, HEC, or a Vocational course — opens a distinct set of doors. There is no single "best" stream; the right choice depends on your interests, natural strengths, and the career direction you want to head toward, whether that's engineering, medicine, business, civil services, or a skilled trade.

"Choose the stream that matches how you think and what excites you — not the one your friends are choosing."

A few pointers as you move forward:

- 📖 Start from the official TSBIE syllabus PDF (tgbie.cgg.gov.in) for exact, chapter-wise topics and any yearly revisions.
- 🧠 Understand concepts rather than memorising, since recent exam patterns favour application-based and case-based questions.
- 📝 Give practicals and internal assessments their due weight — they meaningfully add to your final score.
- 📅 Build short revision notes as you go, so the final weeks before exams are about review, not first-time learning.
- 🌐 Keep your target entrance exam (EAMCET/EAPCET, JEE, NEET, CLAT, or others) in mind while planning your study schedule.

Whichever stream you pursue, consistent effort across both years — supported by a clear understanding of the syllabus — is what turns Intermediate education into a strong launchpad for the future.