



GOVERNMENT OF TAMILNADU

STANDARD TEN

SCIENCE

A Publication under Free Textbook Programme of Government of Tamil Nadu

Department of School Education

Untouchability is Inhuman and a Crime

Government of Tamil Nadu

First Edition - 2019

Revised Edition - 2020, 2022

(Published under New syllabus)

NOT FOR SALE

Content Creation



State Council of Educational
Research and Training
© SCERT 2019

Printing & Publishing



Tamil NaduTextbook and
Educational Services Corporation
www.textbooksonline.tn.nic.in



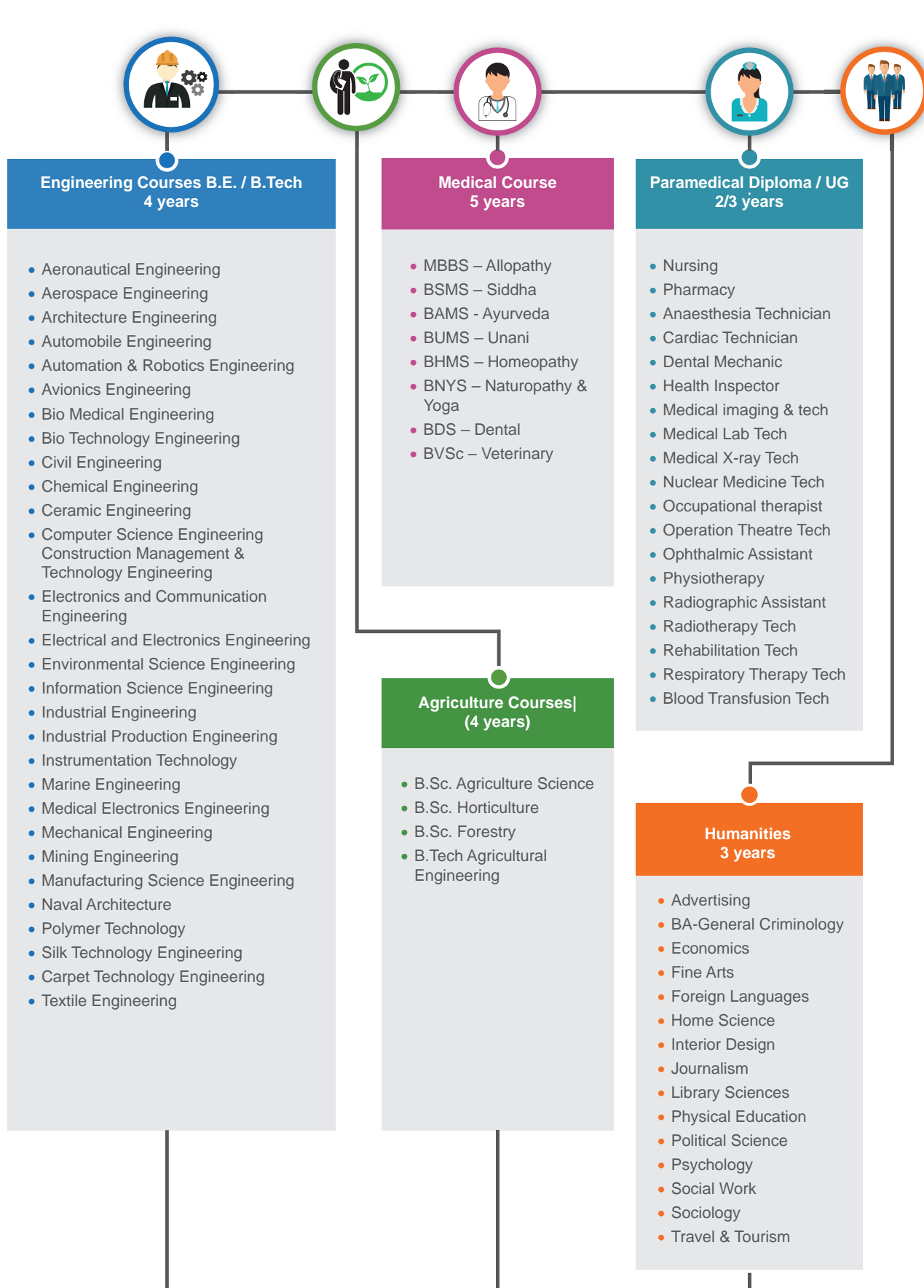
PREFACE

This book is developed in a holistic approach which inculcates comprehending and analytical skills. It will be helpful for the students to understand higher secondary science in a better way and to prepare for competitive exams in future. This textbook is designed in a learner centric way to trigger the thought process of students through activities and to make them excel in learning science.

- This book has 23 units.
- Each unit has simple activities that can be demonstrated by the teacher and also few group activities are given for students to do under the guidance of the teacher.
- Infographics and info-bits are added to enrich the learner's scientific perception.
- The "Do you know?" and "More to know" placed in the units will be an eye opener.
- Glossary has been introduced to learn scientific terms.
- ICT corner and QR code are introduced in each unit for the digital native generation.

HOW TO USE THE BOOK?

Career Guidance



→ Road ahead after 12th...



B.Sc., Courses 3 years

- B.Sc. Physics
- B.Sc. Chemistry
- B.Sc. Botany
- B.Sc. Zoology
- B.Sc. Mathematics
- B.Sc. Computer Science
- B.Sc. PCM
- B.Sc. CBZ
- B.Sc. Dietician & Nutritionist
- B.Sc. Sericulture
- B.Sc. Oceanography
- B.Sc. Meteorology
- B.Sc. Anthropology
- B.Sc. Forensic Sciences
- B.Sc. Food Technology
- B.Sc. Dairy Technology
- B.Sc. Hotel Management
- B.Sc. Fashion Design
- B.Sc. Mass Communication
- B.Sc. Electronic Media
- B.Sc. Multimedia
- B.Sc. 3D Animation
- B.Sc. Home Science



Commerce Courses 3 years

- CA – Chartered Accountant
- CMA Cost Management Accountant
- CS Company Secretary (Foundation)
- B.com – Regular
- B.com – Taxation & Tax Procedure
- B.com – Travel & Tourism
- B.com – Bank Management
- B.com – Professional
- BBA/BBM – Regular
- BFM – Bachelors in Financial Markets
- BMS – Bachelors in Management Studies
- BAF – Bachelors in Accounting & Finance
- Certified Stock Broker & Investment Analysis
- Certified Financial Analyst
- Certified Financial Planner
- Certified Investment Banker



Management Courses (3 years)

- Business Management
- Bank Management
- Event Management
- Hospital Management
- Hotel Management
- Human Resources Management
- Logistics & Management



Law Courses 3.5 years

- LLB
- BA+LLB
- B.Com + LLB
- BBM+LLB
- BBA+LLB



C.A

CPT
↓
ATC IPCC
↓
ITT
(100 Hours)
↓
Articleship
(Work under in CA)
↓
Clear Final Exam
Become a C.A.

JOB / Post Graduation

Table of Contents

Unit	Title	Page No.	Month
1	Laws of Motion	1	June
2	Optics	16	July
3	Thermal Physics	32	August
4	Electricity	42	September
5	Acoustics	59	October
6	Nuclear Physics	74	November
7	Atoms and Molecules	91	June
8	Periodic Classification of Elements	106	July
9	Solutions	124	August
10	Types of Chemical Reactions	137	October
11	Carbon and its Compounds	155	November
12	Plant Anatomy and Plant Physiology	173	June



E - book



Assessment



Unit	Title	Page No.	Month
13	Structural Organisation of Animals	187	June
14	Transportation in Plants and Circulation in Animals	200	July
15	Nervous System	218	July
16	Plant and Animal Hormones	229	August
17	Reproduction in Plants and Animals	243	August
18	Genetics	261	September
19	Origin and Evolution of Life	274	October
20	Breeding and Biotechnology	286	October
21	Health and Diseases	300	November
22	Environmental Management	315	November
23	Visual Communication	329	December
Practicals		334	
Glossary		350	





STANDARD TEN

SCIENCE