

INFORMATION TECHNOLOGY

Standard Twelve COMMERCE



The Coordination Committee formed by GR No. Abhyas - 2116/(Pra.Kra.43/16) SD - 4 Dated 25.4.2016 has given approval to prescribe this textbook in its meeting held on 30.01.2020 and it has been decided to implement it from academic year 2020-21.

INFORMATION TECHNOLOGY

STANDARD - TWELVE (Commerce)





Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune.



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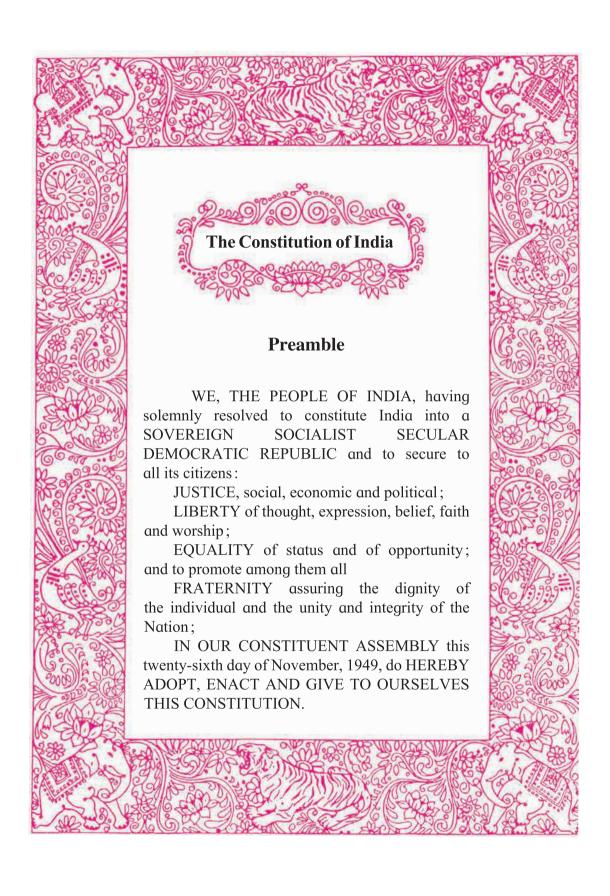
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NATIONAL ANTHEM

Jana-gana-mana-adhināyaka jaya hē Bhārata-bhāgya-vidhātā,

Panjāba-Sindhu-Gujarāta-Marāthā Drāvida-Utkala-Banga

Vindhya-Himāchala-Yamunā-Gangā uchchala-jaladhi-taranga

Tava subha nāmē jāgē, tava subha āsisa māgē, gāhē tava jaya-gāthā,

Jana-gana-mangala-dāyaka jaya hē Bhārata-bhāgya-vidhātā,

Jaya hē, Jaya hē, Jaya hē, Jaya jaya jaya, jaya hē.

PLEDGE

India is my country. All Indians are my brothers and sisters.

I love my country, and I am proud of its rich and varied heritage. I shall always strive to be worthy of it.

I shall give my parents, teachers and all elders respect, and treat everyone with courtesy.

To my country and my people, I pledge my devotion. In their well-being and prosperity alone lies my happiness.



Dear Students,

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Congratulations to all of you for the successful completion of Std XI and welcome to the second year of Higher Secondary Education. The syllabus of Information Technology (Commerce) at Higher Secondary Level has been revised and implemented in view of the fact that computer is used currently as a tool for various applications, especially in the field of e-Banking, e-Commerce, e-Governance, etc. Higher studies and placements, at present, greatly demand human resources with adequate knowledge in computer applications and information technology.

The Information Technology aims to equip students the knowledge, skills and attitudes to become productive employees in the area of Computer science and technology. In this course, you all will gain a perspective to become a successful entrepreneur in Information Technology and allied sectors. Scope of this textbook also provides you all with the foundation for higher studies. Information technology is one of the most significant growth catalysts for the Indian economy. I am sure after completion of HSC with IT, you will acquire skills and competency to enter in the upcoming job market.

In Class XI, the syllabus focused on the fundamentals of computer, computer network, basics of website designing and some knowledge of database. Emphasis is also given to put a strong foundation to develop problem solving skills and create computer programs using JavaScript as a scripting language. You all are also familiar with web page designing and database concepts.

The syllabus of Class XII Information Technology (Commerce) is a continuation to that of Class XI. Hence the textbook designed in accordance with the syllabus, begins with some advanced features of HTML5. Since we are in the age of Internet and most of us are users of web applications, concept of digital marketing is being introduced to become Digital Marketing expert. The concept of database and facilities of information retrieval are included with Libre Office (Base). A chapter is dedicated to present a brief idea about Enterprise Resource Planning.

This book will surely meet all the requirements for stepping to levels of higher education and pave the way to the peak of success. Each unit comprises of simple activities and demonstrations which can be done by you on your own.

(Vivek Gosavi)
Director

Date: 21 February, 2020

Pune

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Maharashtra State Bureau of Texbook Production and Curriculum Research, Pune

For Teachers

Dear Teacher,

The subject Information Technology (Commerce) is an optional subject of the Higher Secondary Education. The content is developed in view of the fact that it should be useful to the students for their higher studies and they should be able to use computer as a tool in accounting and other commercial applications. Besides, if somebody wishes a shift towards the IT field in higher education, the syllabus can cater to their needs. Although the field of IT continues to expand rapidly, it is not feasible to expand the size of the curriculum proportionately. As a result, the syllabus has been designed in such a manner to inculcate the current technical knowledge among the students.

The textbook on Information Technology (**Commerce**) is developed as per the approaches and methods used in recent era of internet and web. As the curriculum is activity-based, process-oriented and based on constructivism, it demands higher level proficiency and dedication from the part of the teachers for effective teaching.

This textbook takes two aspects into consideration - **knowledge domain** and **process domain.** The knowledge area of the curriculum of Class XII is a continuation to that of Class XI. The programming aspects to solve complex problems and handle complex data are introduced. Since we are in an era of Internet, a wide coverage is given to the contents required for designing web pages and developing web applications. It also enhances the knowledge of web hosting. The knowledge domain also initiates brief idea about Enterprise Resource Planning with its various aspects. The new concept of digital marketing is presented in this textbook in the dialogue format. This type of format may make students to understand the concept quickly and permanently. The concepts such as E commerce and E Governance will make student aware about the digitalization process. The knowledge about the same is must for today's generation.

The process domain gives importance to gain the scientific and logical method and develop interest for deeper investigation. The accounting software package topic gives freedom to use any accounting software. We prefer FOSS policy. The conceptual idea behind this topic is that, the process of computerised accounting should be understood by the students. While transacting the concepts through activities, it should be ensured that the students are attaining the skills along with learning outcomes.

The Textbook IT (**Commerce**) is prepared by a team of practicing teachers under the guidance of a panel of subject experts. All possible efforts have been taken to make the book learner-friendly and interesting. There is no denying the fact that our teachers are resourceful and committed, and hence directions towards the right path can make the transaction of the curriculum most effective and productive.

Constructive criticism and creative suggestions for improvement of the book are most welcome.

Information Technology
Subject Committee and Study Group
Textbook Bureau, Pune





Competency Statements For Information Technology Standard - XII (All Streams)

Theory

Competency

- 1. To create awareness and acquire knowledge about new technology.
- 2. To acquire in-depth knowledge about technologies related to AI, IOT, 3D Printing, 5G.
- 3. To enable the student to think and create interest in emerging technology from career point of view.
- 4. To make students aware about concept of E-commerce.
- 5. To acquire knowledge about scope of E-commerce.

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- 6. To create awareness about different E-commerce websites and discuss its features.
- 7. To develop higher order logical skills based on basic knowledge acquired in 11th standard.
- 8. To make students aware about HTML5's advanced tags while developing web page.
- 9. To make students competent in scripting language to create dynamic web page.
- 10. To acquire knowledge about concept of object.

Skill Oriented Practicals (SOP)

- 1. To inculcate web designing skills using advance tags.
- 2. To make students confident to create website.
- 3. To develop skills for programming using DOM.
- 4. To develop ability to create dynamic web pages using advance features.
- 5. To develop ability to program for server side scripting.
- 6. To develop skill to create simple PHP Program.
- 7. To make student aware about connectivity with database.
- 8. To develop skill in handling accounting package with advance feature.
- 9. To make student competent to display and print different accounting report.
- 10. To acquire skills in recording and manipulating audios.
- 11. To make student skillful to mix audio.
- 12. To acquire skills to record, create and manipulate video.
- 13. To enhance the creative ability by mixing and fusion of the different media.

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[INDEX]

No.	Title of the Chapter	Page No
1	Advanced Web Designing	1
2	Digital Marketing	27
3	Computerised Accounting with GST	42
4	E-Commerce and E-Governance	71
5	Database Concepts using Libre Office Base	82
6	Enterprise Resource Planning (ERP)	99
	Skill Oriented Practicals (SOP)	
1.	Advanced Web Designing	110
2.	Digital Marketing	113
3.	Computerised Accounting with GST	115
4.	Database Concepts using Libre Office Base	118