

ATOMIC ENERGY JUNIOR COLLEGE  
ANUSHAKTI NAGAR, MUMBAI - 94  
**SUBJECT: INFORMATION TECHNOLOGY(97)-XI**

**TEXT BOOK:** Information Technology (For Science) from MSBSHSE, Pune 411004

SLNO	THEORY	PRACTICAL
1	<b>Basics of IT:</b> Definition, Introduction, Information systems, Software, Data, IT in business, Industry, Home, Play, Education etc, Computers in Hiding <b>Daily Computing:</b> <b>Libre Office.</b>	Creating document, sheets and database using Libre Office
2	<b>Introduction to Networking</b> - Communication and network technologies, Internet, protocols, Transmission media, network architecture, topologies, network hardware <b>Introduction to DBMS:</b> Definition, application, advantage, data model, relationships, sql commands	SOP based on daily computing
3	<b>Impressive web designing</b> <b>HTML</b> – Uses, features, Properties and Limitations, Tags and Attributes, Basic Tags Paragraph, Heading tags, comments, Anchor tag and Hyperlinks, Division and Physical tags, HR, PRE, ,TABLE	Simple HTML program using HTML tags ,SOP-2
4	<b>Impressive web dsigning</b> <b>HTML-</b> Font, font size and colours ,Form design, input tag, form tag, methods , IMG etc.	Simple HTML program using HTML tags,SOP-2
5	<b>Javascript</b> – Basics , Limitation of plain HTML, and requirement of a scripting language Difference between Java and JavaScript , Variables, Literals, Unary Operators, Binary Operators, Expressions.	Simple Javascript programs, SOP-3
6	<b>Javascript</b> - Alerts and Prompts in JavaScript, Selection statements in JavaScript. Function and event driven programming. Mouse and keyboard events. Simple HTML programs using basic JavaScript, String and events.	Simple Javascript programs,SOP-3
7	Cyber Law: <b>Cyber Law and Ethics:</b> Moral, Ethics and Law , Copyright, IT act, Piracy, Security, Privacy & Control Digital content creation (Inkscape,GIMP).	SOP-4

### Std - XI Information Technology (Science/Arts/Commerce – For All Streams)

Proposed Units for Self learning/Non-evaluation For the Academic year 2020-2021 only under COVID-19 situation  
Theory

Chapter no	Chapter Name	Unit for Self Learning/ Non-evaluative	Page No
1	Basics of Information Technology	1.4 Introduction to GNU/Linux to why learn and Use GNU/Linux (Self learning for Science, Arts and Commerce)  1.6 Network Configuration to client server architecture ..... SMTP: Simple Mail Transfer Protocol. A protocol for sending email messages to the Server on the Internet. (Self-learning for Science Stream only)	7-11  12-13
2	Introduction to DBMS	2.7 Data Model Up to durability 2.9 Introduction to SQL 2.10 Categories of SQL Commands  ----- (Self-learning for Science, Arts and Commerce) -----	23-24 26 27
3	Impressive Web designing	Client Side Scripting (Self-learning for Arts and Commerce Streams only)	42-52
4	Cyber law	IT Act of India 2000 (Self-learning for Science, Arts and Commerce)-	65-66

### Skill Oriented Practical's (For All Streams)

SOP No	Chapter Name	SOP No for Self Learning/ Non-evaluative	Page No
1	Daily Computing	SOP no 2	72
5	Digital content creation	SOP no 1 and SOP no 3	112
6	DBMS(PostgreSQL)	SOP no 1, SOP no 2, SOP no 3	113-117

Stream specific criteria to conduct minimum number of Practicals for the academic year 2020-2021 ONLY under COVID-19 situation

Sr	SOP Name	Science	Arts	Commerce
01	Daily Computing	Any 02	Any 02	Any 02
02	HTML 5	Any 03	Any 03	Any 03
03	Client Side Scripting (JavaScript)	Any 02	-----	-----
04	Accounting Package	-----	-----	Any 02
05	Digital Content Creation (GIMP, Inkscape)	-----	Any 02	-----
Total		07	07	07
The students should perform minimum 7 practicals as specified above				

**ATOMIC ENERGY JUNIOR COLLEGE  
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**SUBJECT: INFORMATION TECHNOLOGY(97)-XII**

**TEXT BOOK:** Information Technology (For Science) from MSBSHSE, Pune 411004

SLNO	THEORY	PRACTICAL
1	<b>Advanced Web Technology:</b> Revision of HTML Tags, Links, Images, Tables, List, Forms, CSS (inline, Internal, External), selector, Inserting Audio	Program using Forms, Client side Image Mapping, SOP1,2,3
2	<b>Advanced Web Technology:</b> Inserting Video	Program using Cascading Style Sheet
3	<b>Advanced Web Technology:</b> Image mapping, Inline frame, website hosting	Programs using <input>,<audio>,<video>, SOP-4,5,6
4	<b>Introduction to Search Engine Optimization:</b> Introduction, Types of SEO, Techniques, Optimizing websites, SEO Audit <b>Emerging Technology:</b> Introduction, Applications, Types, advantages and disadvantages of IOT, Cloud Computing, AI, 5G	Program using Using Cascading Style Sheet SOP-7,8
5	<b>Advanced Javascript:</b> Revision of Class XI: Introduction, Difference in Client and Server side Scripting, Variables, popup boxes, statements, If statement, Function, inbuilt function. Event handling Switch-case statement, Looping statement	<b>Advanced Javascript:</b> Javascript pgms using popup boxes, if statement, loop statements SOP-1,2,3
6	<b>Advanced Javascript:</b> Document object model: Java Script Events and Event Handling, List of Objects, Properties, Events, Methods, <b>Server Side Scripting(PHP):</b> Introduction, server side scripting, features of php, php variables, comments	<b>Advanced Javascript:</b> Javascript pgms using Events, loop statements, switch-case, objects SOP-4,5,6,7
7	<b>Server Side Scripting(PHP):</b> Control structures in PHP: if statement, if else statement, Loop structures in PHP, Function, string function, PHP arrays, multidimensional arrays, form handling	<b>Server Side Scripting(PHP):</b> Programs using if, if else statement, loop structure SOP-1,2,3,4
8	<b>Server Side Scripting(PHP):</b> Get Vs Post, form connectivity with database, create database connection object, cookies and session in PHP <b>E-Commerce and E-Governance:</b> Definition and Scope, Electronic Data Interchange, Internet Commerce Security issues	<b>Server Side Scripting(PHP):</b> Programs using form, get ,post , database connection. SOP-5,6,7

## Std XII Information Technology (Science - 97)

Proposed Units for Self learning/Non-evaluation for the academic year 2020-2021 only under COVID-19 situation

### Theory (Science - 97)

Chapter no	Chapter Name	Unit for Self Learning/ Non-evaluative	Page No
3	Advanced JavaScript	i) Math object	45
		ii) Date Object	46
		iii) Array object	47
4	Emerging Technologies	4.3 AI (section only)	56
5	Server-Side Scripting(PHP)	i) PHP Associative Array	66
		ii) Multidimensional Array	67
		iii) Form Connectivity with Database	70-73

### Skill Oriented Practical (Subject Code 97)

Chapter no	Chapter Name	SOP No for Self Learning/ Non-evaluative	Page No
3	Advanced JavaScript	SOP 6,SOP 7	95
5	Server-Side Scripting(PHP)	SOP 3,SOP 4, SOP 5,SOP 6	96

The minimum Criteria to Conduct number of Practicals for the academic year 2020-2021 ONLY under COVID-19 situation

A)	Advanced Web Designing	- Any 3
B)	Advanced JavaScript	- Any 2
C)	Server-Side Scripting (PHP)	- Any 2
	Total	- 07

The students should perform minimum 7 practicals as specified above.