NAAC REACCREDITED - 'A' GRADE

**SIES College of Arts, Science and Commerce
(Autonomous)
Affiliated to University of Mumbai**

Syllabus under NEP effective from June 2024

Programme: B.Sc.

Subject: Information Technology

Vocational Skill Course

Class: SYBSc(IT)

Semester : III

**Course Name
Green Computing**

**Choice Based Credit System (CBCS)
with effect from the academic year 2024-25**

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE, AUTONOMOUS, SION WEST

Semester III
Vocational Skill Course

This Core course is offered to students of BSc(IT) in Semester III, who have chosen Information Technology as Major & Minor subject

Name of Programme: Bachelor of Science **Subject:** Information Technology						
Class	**Semester**	**Course Code**	**Course Name**	**No. of lectures/ practical per week**	**Credits**	**Marks**
SYBSc(IT)	III	SIUITVS211	Green Computing	1L + 1P	2	50
P (Practical) = 2 Hours per week						

Course Name: Green Computing **Credits: 1 Type: Theory**	

Expected Course Outcomes

On completion of this course, students will be able to

1. Explain the importance of Green IT & some issues related to it.
2. Illustrate the use of cooling and minimizing power usage.
3. Find how to recycle e-waste, reduce paper waste and carbon footprint.
4. Describe the importance of the use of environmentally sustainable computers and electronic systems.
5. Examine the various global standards and initiatives in green computing.

Unit	Contents	No. of Lectures
Unit I	Green IT Overview, Minimizing Power Usage, Cooling, Changing the Way of Work, Going Paperless, Green Devices and Hardware, Greening Your Information Systems, Staying Green.	15

Course Name: Green Computing **Credits: 1   Type: Practical**
Expected Course Outcomes On completion of this course, students will be able to 1. Understand the importance of green IT ,initiate to go paperless, recycle e-waste. **Practical**
Project and Viva Voce
A project should be done based on the objectives and concepts of Green Computing. The project can be done individually or a group of two students. The students will have to present the project during the examination.(a working model can be included) A certified copy of the project report is essential to appear for the examination. A report of minimum 50 pages should be prepared. The report should have a font size of 12, Times new roman and 1.5 line spacing. The headings should have font size 14. The report should be hard bound.

References
1. Green IT, by Velte, Anthony Velte, Robert Elsenpeter, McGraw Hill Publication, 2008 Edition 2. Green Computing and Green IT Best Practice, by Jason Harris, Emereo Publication, 2008 Edition. 3. Green Computing Tools and Techniques for Saving Energy, Money and Resources by Bud E. Smith, CRC Press Publication, 2014 Edition

Scheme of Evaluation:

I) Continuous Internal Evaluation (20 Marks)	
Class Test	20 Marks
II) Practical Examination (30 Marks)	
Certified Journal	5 marks
Viva Voce	5 marks
Practical exam	20 marks