



**Computer Science Paper VIII**  
**Practical course based on BS52203 and BS52204**  
**[Discipline Specific Course-II]**

Semester: V

Credits: 2

Subject Code: BSP52208

Lectures: 36

**Course Outcomes:**

**At the end of this course, the learner will be able to:**

- Design dynamic and interactive Web pages.
- Develop program based on Core-PHP, Server Side Scripting Language and PHP- Database handling
- Apply statistical methods for data preprocessing
- Apply visualization techniques to represent data for analysis

**Unit 1: Assignments based on web technologies- BS52203**

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- Assignment-1: HTML, CSS, Box Model, Navigation Bar
- Assignment-2: Bootstrap
- Assignment-3: Function and String
- Assignment-4: Arrays
- Assignment-5: Files
- Assignment-6: Databases (PHP-PostgreSQL)

**Unit 2: Assignments based on Foundations of Data Science - BS52204**

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- Assignment-1: The Data Science environment
- Assignment-2: Loading the dataset
- Assignment-3: Basic statistical operations
- Assignment-4: Data preprocessing
- Assignment-5: Data Visualization with (matplotlib/seaborn/tableau)

Board of Studies	Name	Signature (in white cell)
Chairperson (HoD)	Ms. Ashwini Kulkarni	14/08/21
Faculty	Ms. Swati Pulate	14/08/21
Faculty	Ms. Smita Borkar	14/08/21
Subject Expert (Outside SPPU)	Prof. Mr. Aniket Nagane	14/08/21
Subject Expert (Outside SPPU)	Dr. Manisha Divate	14/08/21
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Alumni	Ms. Mamta Choudhary	14/08/21

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