

**TEACHING PLAN**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**POST GRADUATE DIPLOMA IN COMPUTER APPLICATION**  
**SBMS COLLEGE, SUALKUCHI**  
**Session: 2018-2019**

|                    |                  |                  |         |
|--------------------|------------------|------------------|---------|
| <b>Department:</b> | Computer Science | <b>Semester</b>  | I       |
| <b>Course:</b>     | Core             | <b>Paper No:</b> | PGDCAP1 |
| <b>Credit:</b>     | 6                | <b>Marks:</b>    | 100     |

| <b>Paper:1</b>                  |                               |                    |              |                 |                       |
|---------------------------------|-------------------------------|--------------------|--------------|-----------------|-----------------------|
| <b>Paper Name: ICT Hardware</b> |                               |                    |              |                 |                       |
| <b>Unit</b>                     | <b>Course Content</b>         | <b>Allotted to</b> | <b>Hours</b> | <b>Month</b>    | <b>Date</b>           |
| I                               | Evolution of computer system, | Simanta Sarma      | 7 Hrs        | August-November | 1 August- 20 November |
| II                              | Hard Disk Drive:              | Simanta Sarma      | 10 Hrs       | August-November | 1 August- 20 November |
| III                             | Optical Media,                | Dipranjan Baishnab | 10 Hrs       | August-November | 1 August- 20 November |
| IV                              | Processor:                    | Amitabh Sarma      | 12 6Hrs      | August-November | 1 August- 20 November |
| V                               | Practical                     | Amitabh Sarma      | 10 Hrs       | August-November | 1 August- 20 November |

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| <b>Course:</b>     | <b>Core</b>             | <b>Paper No:</b> | <b>PGDCAP2</b> |
| <b>Credit:</b>     | <b>6</b>                | <b>Marks:</b>    | <b>100</b>     |

| <b>Paper:1I</b>                                  |                       |                    |              |                     |                          |
|--|-----------------------|--------------------|--------------|---------------------|--------------------------|
| <b>Paper Name: Introduction to C programming</b> |                       |                    |              |                     |                          |
| <b>Unit</b>                                      | <b>Course Content</b> | <b>Allotted to</b> | <b>Hours</b> | <b>Months</b>       | <b>Date</b>              |
| I  | Introduction to C     | Amitabh Sarma      | 7 Hrs        | August-<br>November | 1 August- 20<br>November |
| II   | Arrays and pointers   | Simanta Sarma      | 16 Hrs       | August-<br>November | 1 August- 20<br>November |
| III  | Structures and Files  | Amitabh Sarma      | 20 Hrs       | August-<br>November | 1 August- 20<br>November |
| IV   | Practical             | Amitabh Sarma      | 10 Hrs       | August-<br>November | 1 August- 20<br>November |

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| <b>Department:</b>  | <b>Computer Science</b>       | <b>Semester</b>    | <b>I</b>       |                     |                          |
| <b>Course:</b>  | <b>Core</b>                   | <b>Paper No:</b>   | <b>PGDCAP3</b> |                     |                          |
| <b>Credit:</b>  | <b>6</b>                      | <b>Marks:</b>      | <b>100</b>     |                     |                          |
| <b>Paper:III</b><br><p style="text-align: center;"><b>Paper Name: Overview of<br/>Operating System<br/>(DOS, Windows,<br/>UNIX / Linux and<br/>Shell Programming)</b></p> |                               |                    |                |                     |                          |
| <b>Unit</b>   | <b>Course Content</b>         | <b>Allotted to</b> | <b>Hours</b>   | <b>Month</b>        | <b>Month</b>             |
| I   | Introduction                  | Dipranjan Baishnab | 7 Hrs          | August-<br>November | 1 August- 20<br>November |
| II  | Types of operating systems    | Simanta Sarma      | 16 Hrs         | August-<br>November | 1 August- 20<br>November |
| III   | Operating System Organization | Amitabh Sarma      | 20 Hrs         | August-<br>November | 1 August- 20<br>November |
| IV  | Process Management            | Dipranjan Baishnab | 10 hrs         | August-<br>November | 1 August- 20<br>November |
| V   | Practical                     | Amitabh Sarma      | 10 Hrs         | August-<br>November | 1 August- 20<br>November |

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| <b>Department:</b>                   | <b>Computer Science</b> | <b>Semester</b>    | <b>I</b>       |                     |                          |
| <b>Course:</b>                       | <b>Core</b>             | <b>Paper No:</b>   | <b>PGDCAP4</b> |                     |                          |
| <b>Credit:</b>                       | <b>6</b>                | <b>Marks:</b>      | <b>100</b>     |                     |                          |
| <b>Paper:IV</b>                      |                         |                    |                |                     |                          |
| <b>Paper Name: OFFICE AUTOMATION</b> |                         |                    |                |                     |                          |
| <b>Unit</b>                          | <b>Course Content</b>   | <b>Allotted to</b> | <b>Hours</b>   | <b>Month</b>        | <b>Month</b>             |
| I                                    | Word Processing         | Dipranjan Baishnab | 7 Hrs          | August-<br>November | 1 August- 20<br>November |
| II                                   | Spreadsheet             | Simanta Sarma      | 16 Hrs         | August-<br>November | 1 August- 20<br>November |
| III                                  | Presentation Tools      | Amitabh Sarma      | 20 Hrs         | August-<br>November | 1 August- 20<br>November |
| IV                                   | DTP Software            | Dipranjan Baishnab | 10 hrs         | August-<br>November | 1 August- 20<br>November |
| V                                    | Practical               | Amitabh Sarma      | 10 Hrs         | August-<br>November | 1 August- 20<br>November |

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| <b>Course:</b>     | <b>Core</b>             | <b>Paper No:</b> | <b>PGDCAP5</b> |
| <b>Credit:</b>     | <b>6</b>                | <b>Marks:</b>    | <b>100</b>     |

| <b>Paper:V                      Paper Name: Introduction to Database Management System</b> |  |                    |              |                     |                          |
|--|--|--------------------|--------------|---------------------|--------------------------|
| <b>Unit</b>  | <b>Course Content</b>                        | <b>Allotted to</b> | <b>Hours</b> | <b>Months</b>       | <b>Date</b>              |
| I  | Introduction to Database Management Systems  | Simanta Sarma      | 16Hrs        | August-<br>November | 1 August- 20<br>November |
| II   | Entity Relationship and Enhanced ER Modeling | Simanta Sarma      | 12 Hrs       | August-<br>November | 1 August- 20<br>November |
| III  | Relational Data Model                        | Amitabh Sarma      | 07 Hrs       | August-<br>November | 1 August- 20<br>November |
| IV   | Database Design                              | Dipranjan Baishnab | 16Hrs        | August-<br>November | 1 August- 20<br>November |
| V  | Practical                                    | Amitabh Sarma      | 10 Hrs       | August-<br>November | 1 August- 20<br>November |

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| <b>Department:</b> | <b>Computer Science</b> | <b>Semester</b>  | <b>II</b>      |
| <b>Course:</b>     | <b>Core</b>             | <b>Paper No:</b> | <b>PGDCAP6</b> |
| <b>Credit:</b>     | <b>6</b>                | <b>Marks:</b>    | <b>100</b>     |

| <b>Paper:1</b>                                   |                                     |                    |              |              |                   |
|--|-------------------------------------|--------------------|--------------|--------------|-------------------|
| <b>Paper Name: Data Structure and Algorithms</b> |                                     |                    |              |              |                   |
| <b>Unit</b>                                      | <b>Course Content</b>               | <b>Allotted to</b> | <b>Hours</b> | <b>Month</b> | <b>Date</b>       |
| I  | <b>Definition, Linked Structure</b> | Simanta Sarma      | 07Hrs        | January-May  | 17 January-20 May |
| II   | Linked Structure                    | Amitabh Sarma      | 10 Hrs       | January-May  | 17 January-20 May |
| III  | Stacks and Queues<br>Binary Trees   | Amitabh Sarma      | 12 Hrs       | January-May  | 17 January-20 May |
| IV   | Searching Sorting                   | Amitabh Sarma      | 16Hrs        | January-May  | 17 January-20 May |
| V  | Practical                           | Amitabh Sarma      | 10 Hrs       | January-May  | 17 January-20 May |

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| <b>Course:</b>     | <b>core</b>             | <b>Paper No:</b> | <b>PGDCAP7</b> |
| <b>Credit:</b>     | <b>6</b>                | <b>Marks:</b>    | <b>100</b>     |

| <b>Paper:II</b>                   |  |                    |              |               |                   |
|-----------------------------------|--|--------------------|--------------|---------------|-------------------|
| <b>Paper Name: Web Technology</b> |  |                    |              |               |                   |
| <b>Unit</b>                       | <b>Course Content</b>                                      | <b>Allotted to</b> | <b>Hours</b> | <b>Months</b> | <b>Date</b>       |
| I                                 | Web page design  | Simanta Sarma      | 10 Hrs       | January-May   | 17 January-20 May |
| II                                | Creating interactive and dynamic web pages with JavaScript | Dipranjan Baishnab | 10 Hrs       | January-May   | 17 January-20 May |
| III                               | Extensible Markup Language (XML)                           | Dipranjan Baishnab | 10 Hrs       | January-May   | 17 January-20 May |
| IV                                | Web Browsers Client/Server Computing                       | Dipranjan Baishnab | 10 Hrs       | January-May   | 17 January-20 May |
| V                                 | Practical  | Dipranjan Baishnab | 10 Hrs       | January-May   | 17 January-20 May |

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| <b>Course:</b>     | <b>Core</b>             | <b>Paper No:</b> | <b>PGDCAEL3</b> |
| <b>Credit:</b>     | <b>6</b>                | <b>Marks:</b>    | <b>100</b>      |

| <b>Paper :III                      Paper Name: Computer Graphics</b> |                            |                    |              |              |                   |
|--|----------------------------|--------------------|--------------|--------------|-------------------|
| <b>Unit</b>  | <b>Course Content</b>      | <b>Allotted to</b> | <b>Hours</b> | <b>Month</b> | <b>Date</b>       |
| I  | Introduction               | Amitabh Sarma      | 14 Hrs       | January-May  | 17 January-20 May |
| II   | Input devices              | Amitabh Sarma      | 07 Hrs       | January-May  | 17 January-20 May |
| III  | Line Driving Algorithms    | Amitabh Sarma      | 07 Hrs       | January-May  | 17 January-20 May |
| IV   | Introduction to Multimedia | Dipranjan Baishnab | 14Hrs        | January-May  | 17 January-20 May |
| V  | Practical                  | Amitabh Sarma      | 10 Hrs       | January-May  | 17 January-20 May |

Simanta Sarma

**HOD**

**Department of Computer Science**