





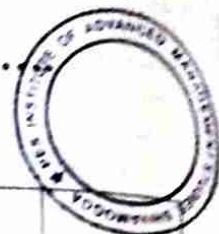
### Faculty Details

|                     |                      |
|---------------------|----------------------|
| Name of the Faculty | Ms. Tejaswini. V. R. |
| Designation         | Lecturer             |
| Department          | Computer Science     |

### Subject Details

|                     |                      |                     |                              |
|---------------------|----------------------|---------------------|------------------------------|
| Course              | BCA                  | Semester            | II - 'A' Sec                 |
| Subject Code        | BCA ೩.3              | Name of the Subject | Computational Mathematics-II |
| Type of the Subject | Core/Elective/Others | No. of Students     | 62                           |

With effect from ...09-12-2019..... to ...23-03-2020.....



### CLASS TIME TABLE

| PERIOD<br>DAY | 1<br>9-10             | 2<br>10-11            | 3<br>11-12     | 4<br>12-1             | 5<br>1-2 | 6<br>2-3                   | 7<br>3-4       | 8<br>4-5       |
|---------------|-----------------------|-----------------------|----------------|-----------------------|----------|----------------------------|----------------|----------------|
| MON           |                       | DF<br>(MDS)           | CM-II<br>(TVR) | C&LDS<br>(MHS)        |          | DS & AE Lab<br>(MHS & RDS) | Lab B2         | B2             |
| TUE           | KAN/HIN<br>(ACB, KUP) | DBMS<br>(RH)          | DF<br>(MDS)    | ENG<br>(RAR)          |          |                            |                |                |
| WED           |                       | ENG<br>(RAR)          | DBMS<br>(RH)   | KAN/HIN<br>(ACB, KUP) |          | DS & AE Lab<br>(MHS & RDS) | Lab B2         | B2             |
| THU           |                       | KAN/HIN<br>(ACB, KUP) | DBMS<br>(RH)   | ENG<br>(RAR)          |          | DF<br>(MDS)                | CM-II<br>(TVR) | C&LDS<br>(MHS) |
| FRI           | DBMS<br>(RH)          | KAN/HIN<br>(ACB, KUP) | CM-II<br>(TVR) | C&LDS<br>(MHS)        |          | DS & AE Lab<br>(MHS & RDS) | Lab B3         | B3             |
| SAT           | CM-II<br>(TVR)        | DF<br>(MDS)           | ENG<br>(RAR)   | C&LDS<br>(MHS)        |          |                            |                |                |

### INDIVIDUAL TIME TABLE

| PERIOD<br>DAY | 1<br>9-10 | 2<br>10-11 | 3<br>11-12     | 4<br>12-1 | 5<br>1-2 | 6<br>2-3 | 7<br>3-4 | 8<br>4-5 |
|---------------|-----------|------------|----------------|-----------|----------|----------|----------|----------|
| MON           |           |            | CM-II<br>(TVR) |           |          |          |          |          |
| TUE           |           |            |                |           |          |          |          |          |
| WED           |           |            |                |           |          |          |          |          |
| THU           |           |            |                |           |          |          | CM-II    |          |
| FRI           |           |            | CM-II          |           |          |          |          |          |
| SAT           | CM-II     |            |                |           |          |          |          |          |

## DETAILED SYLLABUS



### Unit I Graph Theory

Hours required as per Syllabus: 12 Hours

Definition of graph, graph as models, matrices and isomorphism, graph terminologies - definitions, properties and examples, Decomposition and special graphs. Paths, cycles and trails - connection in graphs, bipartite graphs, Eulerian Circuits. Vertex, degree, bijections paths, cycles and trails - connection in graphs.

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### Unit II Directed Graphs

Hours required as per Syllabus: 12 Hours

Definition of directed graph, properties and examples, vertex degrees, Trees and distance - basic properties, properties of trees, distance in trees and graphs, disjoint spanning trees, Spanning trees and enumeration of trees, Hamilton paths and Circuits, Decomposition of graphs, special graphs, Optimization and trees - minimum spanning tree, shortest paths, trees in computer science.

## DETAILED SYLLABUS



### Unit III & Statistics

Hours required as per Syllabus: 12 Hours

Definition, scope, characteristics, functions and limitations of statistics. Basic concepts - units/Individuals, populations/universe, sample, variable, attribute, discrete variable, continuous variable, qualitative and quantitative data, Stages of statistical method - collection, organization, presentation, analysis, interpretation of data. Classification of data - definition, objectives, types of classification, frequency class frequency, frequency distribution, discrete frequency distribution, continuous frequency distribution, inclusive & exclusive class, class limits, correction factor, open-end frequency distribution, mid-point or class mark, width/size of class, number of classes, cumulative frequency, frequency density, construction of FOT for discrete and continuous data. Tabulation - definition, objective, types of tables - one way/simple, two way and manifold tables.

### Unit IV Central Tendency

Hours required as per Syllabus: 12 Hours

Definition, average, arithmetic mean, mode, median, geometric mean and harmonic mean, advantages and disadvantages. Simple problems on arithmetic mean, geometric mean and harmonic mean. Measures of Dispersion - range, range coefficient, mean deviation, mean deviation coefficient and standard deviation, standard deviation coefficient (definitions only). Problems on mean deviation, mean deviation coefficient and standard deviation, standard deviation coefficient.

## DETAILED SYLLABUS

### Unit V

Hours required as per Syllabus:

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### Unit VI

Hours required as per Syllabus:

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**DETAILED SYLLABUS**

**Unit VII**

Hours required as per Syllabus:

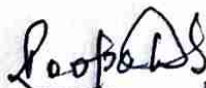
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**Hours / Week:** 4

**Hours / Semester:** 48

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HOD 3/1/2020

  
PRINCIPAL

LESSON PLAN AND ACTUAL DELIVERY



Unit: 3. Graph Theory

Objective:

| Sl. No. | Details of the topics               | Planned    |                      | Actual     |                      |
|---------|-------------------------------------|------------|----------------------|------------|----------------------|
|         |                                     | Date       | Period               | Date       | Period               |
| 1.      | Syllabus discussion                 | 9/12/2019  | 11:00<br>TO<br>12:00 | 9/12/2019  | 11:00<br>TO<br>12:00 |
| 2.      | Definition of graph                 | 10/12/2019 | 3:00<br>TO<br>4:00   | 12/12/2019 | 3:00<br>TO<br>3:00   |
| 3.      | Graph as models                     | 13/12/2019 | 11:00<br>TO<br>12:00 | 12/12/2019 | 3:00<br>TO<br>4:00   |
| 4.      | Matrices and isomorphism            | 14/12/2019 | 9:00<br>TO<br>10:00  | 14/12/2019 | 9:00<br>TO<br>10:00  |
| 5.      | Graph terminologies-<br>definitions | 16/12/2019 | 11:00<br>TO<br>12:00 | 16/12/2019 | 11:00<br>TO<br>12:00 |

Name of the Faculty & Signature

Tyabwini, V. R

HOD

7

PRINCIPAL



LESSON PLAN AND ACTUAL DELIVERY




Unit: 1. Graph theory

Objective:

| Sl. No. | Details of the topics            | Planned    |                      | Actual     |                      |
|---------|----------------------------------|------------|----------------------|------------|----------------------|
|         |                                  | Date       | Period               | Date       | Period               |
| 6.      | Properties and examples          | 19/12/2019 | 3:00<br>TO<br>4:00   | 19/12/2019 | 3:00<br>TO<br>4:00   |
| 7.      | Decomposition and special graphs | 20/12/2019 | 11:00<br>TO<br>12:00 | 20/12/2019 | 11:00<br>TO<br>12:00 |
| 8.      | Paths, cycles                    | 21/12/2019 | 9:00<br>TO<br>10:00  | 23/12/2019 | 11:00<br>TO<br>12:00 |
| 9.      | trails - Connection in graphs    | 23/12/2019 | 11:00<br>TO<br>12:00 | 23/12/2019 | 12:00<br>TO<br>1:00  |
| 10.     | Bipartite graphs                 | 26/12/2019 | 3:00<br>TO<br>4:00   | 28/12/2019 | 9:00<br>TO<br>10:00  |

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Tegawani, V. R

  
HOD 3/1/2020  
8

  
PRINCIPAL 3/1/2020

LESSON PLAN AND ACTUAL DELIVERY



Unit: 1 Graph theory.

Objective:

| Sl. No. | Details of the topics                                       | Planned    |                      | Actual     |                      |
|---------|---|------------|----------------------|------------|----------------------|
|         |   | Date       | Period               | Date       | Period               |
| 11.     | Eulerian Circuits   | 27/12/2019 | 11:00<br>TO<br>12:00 | 29/12/2019 | 11:00<br>TO<br>12:00 |
| 12.     | Vertex, degree, bijections paths.                           | 28/12/2019 | 9:00<br>TO<br>10:00  | 2/1/2020   | 3:00<br>TO<br>4:00   |
| 13.     | Cycles and trails-<br>Connection in graphs.                 | 30/12/2019 | 11:00<br>TO<br>12:00 | 3/1/2020   | 11:00<br>TO<br>12:00 |
| 14.     | Revision and previous<br>year question paper<br>discussion. | 30/01/2020 | 3:00<br>TO<br>4:00   | 4/1/2020   | 9:00<br>TO<br>10:00  |
| 15.     | Unit test   | 03/01/2020 | 11:00<br>TO<br>12:00 | 4/1/2020   | 10:00<br>TO<br>11:00 |

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HOD

9

PRINCIPAL

LESSON PLAN AND ACTUAL DELIVERY



Unit: 2 Directed graphs

Objective:

| Sl. No. | Details of the topics                 | Planned    |                      | Actual     |                      |
|---------|---------------------------------------|------------|----------------------|------------|----------------------|
|         |                                       | Date       | Period               | Date       | Period               |
| 16.     | Definition of directed graph          | 04/01/2020 | 9:00<br>TO<br>10:00  | 05/01/2020 | 11:00<br>TO<br>12:00 |
| 17.     | Properties and examples               | 06/01/2020 | 11:00<br>TO<br>12:00 | 10/01/2020 | 11:00<br>TO<br>12:00 |
| 18.     | Vertex degrees                        | 09/01/2020 | 3:00<br>TO<br>4:00   | 11/01/2020 | 9:00<br>TO<br>10:00  |
| 19.     | Trees and distance - basic properties | 10/01/2020 | 11:00<br>TO<br>12:00 | 11/01/2020 | 10:00<br>TO<br>11:00 |
| 20.     | Properties of trees                   | 11/01/2020 | 9:00<br>TO<br>10:00  | 13/01/2020 | 11:00<br>TO<br>12:00 |

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HOD

10

16/01/2020

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LESSON PLAN AND ACTUAL DELIVERY



Unit: 3 Directed Graphs.

Objective:

| Sl. No. | Details of the topics                   | Planned    |                      | Actual    |                      |
|---------|---|------------|----------------------|-----------|----------------------|
|         |   | Date       | Period               | Date      | Period               |
| 21.     | distance in trees and graphs            | 13/01/2020 | 11:00<br>TO<br>12:00 | 16/1/2020 | 3:00<br>TO<br>4:00   |
| 22.     | Disjoint spanning trees                 | 16/01/2020 | 3:00<br>TO<br>4:00   | 18/1/2020 | 9:00<br>TO<br>10:00  |
| 23.     | Spanning trees and enumeration of trees | 17/01/2020 | 11:00<br>TO<br>12:00 | 18/1/2020 | 12:00<br>TO<br>1:00  |
| 24.     | Hamilton paths and circuits             | 18/01/2020 | 9:00<br>TO<br>10:00  | 20/1/2020 | 11:00<br>TO<br>12:00 |
| 25.     | Decomposition of graphs, Special graphs | 20/01/2020 | 11:00<br>TO<br>12:00 | 23/1/2020 | 3:00<br>TO<br>4:00   |

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HOD

11

26/1/2020

PRINCIPAL

26/1/2020

## LESSON PLAN AND ACTUAL DELIVERY



Unit: 2 Directed graphs.

Objective:

| Sl. No. | Details of the topics                                  | Planned    |                      | Actual     |                      |
|---------|--|------------|----------------------|------------|----------------------|
|         |  | Date       | Period               | Date       | Period               |
| 26.     | Optimization and tree-minimum spanning tree            | 23/01/2020 | 3:00<br>TO<br>4:00   | 24/1/2020  | 11:00<br>TO<br>12:00 |
| 27.     | Shortest paths<br>(Dijkstra's and Kruskal's Algorithm) | 24/01/2020 | 11:00<br>TO<br>12:00 | 25/01/2020 | 9:00<br>TO<br>10:00  |
| 28.     | Trees in Computer Science                              | 27/01/2020 | 11:00<br>TO<br>12:00 | 3/2/2020   | 11:00<br>TO<br>12:00 |
| 29.     | Revision and previous year question paper discussion.  | 30/01/2020 | 3:00<br>TO<br>4:00   | 6/2/2020   | 3:00<br>TO<br>4:00   |
| 30.     | Unit test  | 31/01/2020 | 11:00<br>TO<br>12:00 | 7/2/2020   | 11:00<br>TO<br>12:00 |

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Tejaswini. v. R.

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12

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LESSON PLAN AND ACTUAL DELIVERY



Unit: 2 Directed graphs.

Objective:

| Sl. No. | Details of the topics                                  | Planned    |                      | A          |
|---------|--|------------|----------------------|------------|
|         |  | Date       | Period               | Date       |
| 26.     | Optimization and tree-minimum spanning tree            | 23/01/2020 | 3:00<br>TO<br>4:00   | 24/01/2020 |
| 27.     | Shortest paths<br>(Dijkstra's and Kruskal's Algorithm) | 24/01/2020 | 11:00<br>TO<br>12:00 | 25/01/2020 |
| 28.     | Trees in Computer Science                              | 27/01/2020 | 11:00<br>TO<br>12:00 | 3/2/2020   |
| 29.     | Revision and previous year question paper discussion.  | 30/01/2020 | 3:00<br>TO<br>4:00   | 6/2/2020   |
| 30.     | Unit test  | 31/01/2020 | 11:00<br>TO<br>12:00 | 7/2/2020   |

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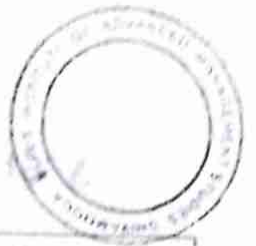
Tejaswini. v. R.

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12

PRINCIPAL

LESSON PLAN AND ACTUAL DELIVERY



Unit: 3. Statistics

Objective:

| Sl. No. | Details of the topics  | Planned    |                | Actual     |                |
|---------|--|------------|----------------|------------|----------------|
|         |  | Date       | Period         | Date       | Period         |
| 31.     | Definition, scope, characteristics, functions and limitations of statistics  | 01/02/2020 | 9:00 TO 10:00  | 08/02/2020 | 9:00 TO 10:00  |
| 32.     | Basic concepts - units/individuals, populations/universe, sample, variable, attribute, discrete variable, continuous variable. | 03/02/2020 | 11:00 TO 12:00 | 11/02/2020 | 11:00 TO 12:00 |
| 33.     | Qualitative data and quantitative data.  | 06/02/2020 | 3:00 TO 4:00   | 13/02/2020 | 3:00 TO 4:00   |
| 34.     | Stages of statistical method - collection, organization, presentation, analysis and interpretation of data.                    | 07/02/2020 | 11:00 TO 12:00 | 14/02/2020 | 11:00 TO 12:00 |
| 35.     | Classification of data - definition, objectives, types of classification   | 08/02/2020 | 9:00 TO 10:00  | 18/02/2020 | 2:00 TO 3:00   |

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Tejaswini, v. R.

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13

PRINCIPAL

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LESSON PLAN AND ACTUAL DELIVERY

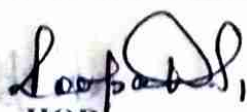


Unit: 3 Statistics

Objective:

| Sl. No. | Details of the topics   | Planned    |                      | Actual     |                      |
|---------|---|------------|----------------------|------------|----------------------|
|         |   | Date       | Period               | Date       | Period               |
| 36.     | Frequency, class frequency, frequency distribution, discrete frequency distribution, continuous frequency distribution. | 10/02/2020 | 11:00<br>TO<br>12:00 | 20/02/2020 | 2:00<br>TO<br>3:00   |
| 37.     | Inclusive class and exclusive class, class limits   | 13/02/2020 | 3:00<br>TO<br>4:00   | 20/02/2020 | 2:00<br>TO<br>4:00   |
| 38.     | Correction factor, open-end frequency distribution  | 14/02/2020 | 11:00<br>TO<br>12:00 | 24/02/2020 | 11:00<br>TO<br>12:00 |
| 39.     | mid-point or class mark, width / size of class  | 15/02/2020 | 9:00<br>TO<br>10:00  | 25/02/2020 | 2:00<br>TO<br>3:00   |
| 40.     | number of classes, cumulative frequency, frequency density  | 17/02/2020 | 11:00<br>TO<br>12:00 | 27/02/2020 | 3:00<br>TO<br>4:00   |

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Tejaswini. V.R.

  
 HOD  
 14

  
 PRINCIPAL



LESSON PLAN AND ACTUAL DELIVERY



Unit: 3 Statistics

Objective:

| Sl. No. | Details of the topics   | Planned    |                      | Actual    |                      |
|---------|---|------------|----------------------|-----------|----------------------|
|         |   | Date       | Period               | Date      | Period               |
| 41.     | Construction of FDT for discrete and continuous data.<br>(FDT = Frequency Distribution Table)         | 20/02/2020 | 3:00<br>TO<br>4:00   | 28/2/2020 | 11:00<br>TO<br>12:00 |
| 42.     | Tabulation - definition, objectives, types of tables - one way / simple, two way and manifold tables. | 22/02/2020 | 9:00<br>TO<br>10:00  | 28/2/2020 | 2:00<br>TO<br>3:00   |
| 43.     | Revision and previous year question paper discussion.   | 24/02/2020 | 11:00<br>TO<br>12:00 | 28/2/2020 | 3:00<br>TO<br>4:00   |
| 44.     | Unit test   | 27/02/2020 | 3:00<br>TO<br>4:00   | 29/2/2020 | 9:00<br>TO<br>10:00  |
| 45.     | Class room activity<br>"Presentation on "Importance of Statistics".                                   | 25/01/2020 | 9:00<br>TO<br>10:00  | 15/2/2020 | 9:00<br>TO<br>10:00  |

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HOD

15

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18/2/2020

LESSON PLAN AND ACTUAL DELIVERY



Unit: 4 Central Tendency

Objective:

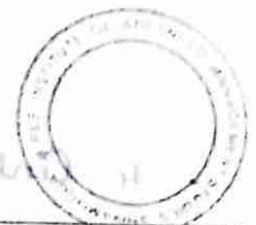
| Sl. No. | Details of the topics   | Planned    |                      | Actual                |                              |
|---------|---|------------|----------------------|-----------------------|------------------------------|
|         |   | Date       | Period               | Date                  | Period                       |
| 46.     | Definition, average, arithmetic mean, mode, median, geometric mean and harmonic mean, advantages and limitations. | 28/02/2020 | 11:00<br>TO<br>12:00 | 5/3/2020              | 9-10<br>9:00<br>TO<br>10:00  |
| 47.     | Simple problems on arithmetic mean  | 29/02/2020 | 9:00<br>TO<br>10:00  | 5/3/2020<br>6/3/2020  | 12-3<br>11:00<br>TO<br>12:00 |
| 48.     | Simple problems on arithmetic mean  | 02/03/2020 | 11:00<br>TO<br>12:00 | 6/3/2020<br>9/3/2020  | 11-12<br>9:00<br>TO<br>10:00 |
| 49.     | Simple problems on geometric mean   | 05/03/2020 | 3:00<br>TO<br>4:00   | 9/3/2020<br>9/3/2020  | 9-10<br>9:00<br>TO<br>3:00   |
| 50.     | Simple problems on geometric mean   | 06/03/2020 | 11:00<br>TO<br>12:00 | 9/3/2020<br>10/3/2020 | 9-10<br>9:00<br>TO<br>3:00   |

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Tejaswini, V.R.

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16

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LESSON PLAN AND ACTUAL DELIVERY

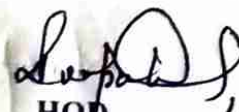


Unit: 4 Central Tendency.

Objective:

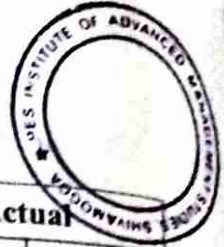
| Sl. No. | Details of the topics   | Planned    |                      | Actual            |                             |
|---------|---|------------|----------------------|-------------------|-----------------------------|
|         |   | Date       | Period               | Date              | Period                      |
| 51.     | Simple problems on harmonic mean  | 07/03/2020 | 9:00<br>TO<br>10:00  | 9/3<br>10/3/2020  | 11-12<br>2:00<br>TO<br>3:00 |
| 52.     | Simple problems on harmonic mean  | 09/03/2020 | 11:00<br>TO<br>12:00 | 10/3<br>10/3/2020 | 2-3<br>2:00<br>TO<br>3:00   |
| 53.     | Measures of Dispersion: Definition and simple problems on range and range coefficient | 12/03/2020 | 3:00<br>TO<br>4:00   | 10/3<br>12/3/2020 | 11:00<br>TO<br>12:00        |
| 54.     | Simple problems on range and range coefficient  | 13/03/2020 | 11:00<br>TO<br>12:00 | 12/03/2020        | 11:00<br>TO<br>12:00        |
| 55.     | Simple problems on mean deviation and mean deviation coefficient                      | 14/03/2020 | 9:00<br>TO<br>10:00  | 13/3/2020         | 4:00<br>TO<br>5:00          |

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 Tejashwini V. R.

  
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LESSON PLAN AND ACTUAL DELIVERY



Unit: 4. Central Tendency.

Objective:

| Sl. No. | Details of the topics  | Planned    |                      | Actual    |                      |
|---------|--|------------|----------------------|-----------|----------------------|
|         |  | Date       | Period               | Date      | Period               |
| 56.     | Simple problems on mean deviation and mean deviation coefficient         | 16/03/2020 | 11:00<br>TO<br>12:00 | 13/3/2020 | 11:00<br>TO<br>12:00 |
| 57.     | Simple problems on standard deviation and standard deviation coefficient | 19/03/2020 | 3:00<br>TO<br>4:00   | 13/3/2020 | 3:00<br>TO<br>3:00   |
| 58.     | Simple problems on standard deviation and standard deviation coefficient | 20/03/2020 | 11:00<br>TO<br>12:00 | 13/3/2020 | 3:00<br>TO<br>4:00   |
| 59.     | Revision and previous year question paper discussion.                    | 21/03/2020 | 9:00<br>TO<br>10:00  |           |                      |
| 60.     | Unit test  | 23/03/2020 | 11:00<br>TO<br>12:00 |           |                      |

Name of the Faculty & Signature

Tejaswini. V.R.

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18

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PRINCIPAL 24/3/2020

**SELF ANALYSIS OF SYLLABUS COVERAGE**



| Unit     | Duration | No. of Hours |                | No. of Hours Deviated | Reason for Deviation                            | Initials of Faculty | Remarks  | Initials of HOD/Principal |
|----------|----------|--------------|----------------|-----------------------|---|---------------------|--|---------------------------|
|          |          | Planned      | Actually Taken |                       |   |                     |  |                           |
| UNIT I   | From:    | 9/12/2019    | 9/12/2019      | 01                    | More examples were given                        | [Signature]         | Suggested to solve Previous Q.P. by students             | [Signature]<br>22/1/2020  |
|          | To:      | 3/1/2020     | 4/1/2020       |                       |   |                     |  |                           |
| UNIT II  | From:    | 4/1/2020     | 6/1/2020       | 01                    | More example problems were solved               | [Signature]         | Suggested to solve More Problems during Revision         | [Signature]<br>22/02/2020 |
|          | To:      | 31/1/2020    | 1/2/2020       |                       |   |                     |  |                           |
| UNIT III | From:    | 1/2/2020     | 8/2/2020       | 00                    | Revision and unit test takes extra two classes. | [Signature]         | Time   | [Signature]<br>24/3/2020  |
|          | To:      | 27/2/2020    | 29/2/2020      |                       |   |                     |  |                           |
| UNIT IV  | From:    | 28/2/2020    | 5/3/2020       | 01                    | More examples were given                        | [Signature]         | Suggested to do revision for Statistics related chapters | [Signature]<br>24/3/2020  |
|          | To:      | 23/3/2020    | 13/3/2020      |                       |   |                     |  |                           |
| UNIT V   | From:    |              |                |                       |   |                     |  |                           |
|          | To:      |              |                |                       |   |                     |  |                           |
| UNIT VI  | From:    |              |                |                       |   |                     |  |                           |
|          | To:      |              |                |                       |   |                     |  |                           |
| UNIT VII | From:    |              |                |                       |   |                     |  |                           |
|          | To:      |              |                |                       |   |                     |  |                           |

Name of the Faculty & Signature

Tejaswini. v.R.

[Signature]

HOD

24/3/2020

[Signature]

PRINCIPAL



**PLANS FOR PORTIONS COVERAGE**

| Sl. No. | Syllabus Details       | Proposed               | No. of Units Covered   |
|---------|------------------------|------------------------|------------------------|
| 1.      | Up to Internal Test-I  | Unit-1<br>Unit-2       | Unit-1<br>Unit-2       |
| 2.      | Up to Internal Test-II | Unit-3<br>Unit-4 (50%) | Unit-3<br>Unit-4 (30%) |
| 3.      | Up to Semester End     | Unit-4                 | Unit-4                 |

Name of the Faculty & Signature *Tejaswini. V.R* HOD *24/6/2020* PRINCIPAL

**PORTIONS COVERED ACTUALLY**

| DURATION               |                            | END OF 1 <sup>st</sup> MONTH | END OF 2 <sup>nd</sup> MONTH | END OF 3 <sup>rd</sup> MONTH | END OF SEMESTER              |
|------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| DETAILS                | COVERAGE IN TERMS OF UNITS | 01                           | 02                           | 03                           | 04                           |
|                        | % OF NO. OF UNITS          | 25%                          | 50%                          | 75%                          | 100%                         |
| SIGNATURE OF FACULTY   |                            | <i>[Signature]</i>           | <i>[Signature]</i>           | <i>[Signature]</i>           | <i>[Signature]</i>           |
| SIGNATURE OF HOD       |                            | <i>[Signature]</i> 16/1/2020 | <i>[Signature]</i> 18/2/2020 | <i>[Signature]</i> 18/2/2020 | <i>[Signature]</i> 24/3/2020 |
| SIGNATURE OF PRINCIPAL |                            |                              |                              |                              |                              |

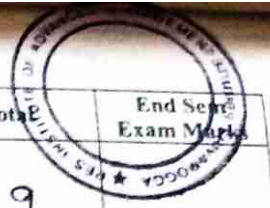
Name of the Faculty & Signature *Tejaswini, V.R* HOD *24/6/2020* PRINCIPAL *24/6/2020*



## INTERNAL MARKS

**Note:** The allotments of Internal Assessment Marks are as per requirement of the course.

| Sl. No. | Register No. | Name of the Student     | IA Test-I | IA Test-II | Missed IA | Skill Development | Seminar | Attendance | Total | End Sem Exam Marks |
|---------|--------------|-------------------------|-----------|------------|-----------|-------------------|---------|------------|-------|--------------------|
| 1       | BC190901     | Aaren Kumar Maben       | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 2       | BC190902     | Abdul Razak. K.         | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 3       | BC190903     | Abhinam. B.S.           | 05        | 08         | —         |                   |         |            | 07    |                    |
| 4       | BC190904     | Adithya. D. G.          | 10        | 09         | —         |                   |         |            | 10    |                    |
| 5       | BC190906     | Aishwarya. S.           | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 6       | BC190907     | Akshatha. A.S.          | 13        | 17         | —         |                   |         |            | 15    |                    |
| 7       | BC190908     | Akshatha. M.            | AB        | 17         | 32        |                   |         |            | 17    |                    |
| 8       | BC190909     | Anagha Bhoopalam.T.R.   | 18        | 16         | —         |                   |         |            | 17    |                    |
| 9       | BC190911     | Anjali. P.K.            | 17        | 17         | —         |                   |         |            | 17    |                    |
| 10      | BC190912     | Ankith. H.D.            | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 11      | BC190914     | Anvitha. S.             | 12        | 11         | —         |                   |         |            | 12    |                    |
| 12      | BC190915     | Arfaath. B.S.           | 18        | 13         | —         |                   |         |            | 16    |                    |
| 13      | BC190916     | Arpitha. S. Sannagoudar | 19        | 14         | —         |                   |         |            | 17    |                    |
| 14      | BC190917     | Banda Sandhya           | 16        | AB         | 26        |                   |         |            | 15    |                    |
| 15      | BC190919     | Bharani. B.S.           | 10        | AB         | 24        |                   |         |            | 11    |                    |

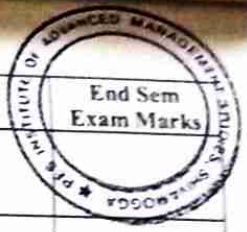


| Sl. No. | Register No. | Name of the Student   | IA Test-I | IA Test-II | Missed IA | Skill Development | Seminar | Attendance | Total | End Sem Exam Marks |
|---------|--------------|-----------------------|-----------|------------|-----------|-------------------|---------|------------|-------|--------------------|
| 16      | BC190923     | Bhoomika T. S.        | 19        | 19         | -         |                   |         |            | 19    |                    |
| 17      | BC190925     | Chandana G. K.        | AB        | 16         | 28        |                   |         |            | 15    |                    |
| 18      | BC190926     | Chethan Kumar         | 19        | AB         | 30        |                   |         |            | 18    |                    |
| 19      | BC190927     | Chintan S. U.         | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 20      | BC190928     | Chiranth S.           | 14        | 12         | -         |                   |         |            | 13    |                    |
| 21      | BC190929     | Divya C. B.           | 20        | 18         | -         |                   |         |            | 19    |                    |
| 22      | BC190931     | Gobanulla Khan        | AB        | 18         | 28        |                   |         |            | 16    |                    |
| 23      | BC190933     | Habub Ur Rahaman      | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 24      | BC190935     | Hemanth D. G.         | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 25      | BC190937     | Jayanth C. G.         | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 26      | BC190938     | Karan S. N.           | 10        | 12         | -         |                   |         |            | 11    |                    |
| 27      | BC190939     | Kavana G. S.          | 17        | AB         | 32        |                   |         |            | 17    |                    |
| 28      | BC190940     | Kavana P.             | 16        | 15         | -         |                   |         |            | 16    |                    |
| 29      | BC190942     | Kirankumar Thorath K. | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 30      | BC190945     | Royala D'Souza        | 16        | 16         | -         |                   |         |            | 16    |                    |





| Sl. No. | Register No. | Name of the Student     | IA Test-I | IA Test-II | Missed IA | Skill Development | Seminar | Attendance | Total | End Sem Exam Marks |
|---------|--------------|-------------------------|-----------|------------|-----------|-------------------|---------|------------|-------|--------------------|
| 31      | BC190946     | Madathala Rajashekar    | 07        | AB         | 24        |                   |         |            | 10    |                    |
| 32      | BC190947     | Madhura. G. P.          | 20        | 20         | -         |                   |         |            | 20    |                    |
| 33      | BC190948     | Madhura. H.S.           | 10        | 08         | -         |                   |         |            | 09    |                    |
| 34      | BC190949     | Maithili Bhat           | 13        | 15         | -         |                   |         |            | 16    |                    |
| 35      | BC190951     | Manasa. D. A            | 19        | 12         | -         |                   |         |            | 16    |                    |
| 36      | BC190952     | Manasa. K.C.            | 19        | 13         | -         |                   |         |            | 16    |                    |
| 37      | BC190955     | Manoj. S. M.            | 14        | 02         | -         |                   |         |            | 08    |                    |
| 38      | BC190956     | Manoj. S.               | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 39      | BC190958     | Mirza Faizan Baig       | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 40      | BC190959     | Mohammed Faiz           | AB        | AB         | 20        |                   |         |            | 10    |                    |
| 41      | BC190960     | Mohammed Sabeel         | 17        | 17         | -         |                   |         |            | 17    |                    |
| 42      | BC190962     | Mohammed Sameer Sulthan | 19        | 16         | -         |                   |         |            | 18    |                    |
| 43      | BC190966     | Neha Kousar. G.         | 19        | 14         | -         |                   |         |            | 17    |                    |
| 44      | BC190967     | Nishanth. M. R.         | 120       | 08         | -         |                   |         |            | 10    |                    |
| 45      | BC190971     | Padmanabha. M. Shanbhag | AB        | AB         | 20        |                   |         |            | 10    |                    |



| Sl. No. | Register No. | Name of the Student    | IA Test-I | IA Test-II | Missed IA | Skill Development | Seminar | Attendance | Total |
|---------|--------------|------------------------|-----------|------------|-----------|-------------------|---------|------------|-------|
| 46      | BC190974     | Pooja. H.S.            | 20        | 08         | —         |                   |         |            | 14    |
| 47      | BC190975     | Poojitha. S.           | 20        | 17         | —         |                   |         |            | 19    |
| 48      | BC190979     | Preethi. T.R.          | 12        | 11         | —         |                   |         |            | 12    |
| 49      | BC190982     | Raghuram. A.P.         | AB        | 11         | 20        |                   |         |            | 11    |
| 50      | BC190987     | Raziq Pasha            | AB        | 16         | 24        |                   |         |            | 14    |
| 51      | BC190990     | Sadiya Fathima         | 15        | 17         | —         |                   |         |            | 16    |
| 52      | BC190991     | Safin Banu             | 18        | 13         | —         |                   |         |            | 16    |
| 53      | BC190993     | Sameer Mubaveer        | AB        | AB         | 20        |                   |         |            | 10    |
| 54      | BC190994     | Samiya Khanum. A       | AB        | 10         | 24        |                   |         |            | 11    |
| 55      | BC190996     | Shamanth. S.           | AB        | AB         | 20        |                   |         |            | 10    |
| 56      | BC190997     | Sharlin. P.D.          | 16        | 13         | —         |                   |         |            | 15    |
| 57      | BC191003     | Sneha. D.              | 19        | 11         | —         |                   |         |            | 15    |
| 58      | BC191012     | Umme Salma             | AB        | 08         | 24        |                   |         |            | 10    |
| 59      | BC191013     | Varsha. C.H.           | 19        | 17         | —         |                   |         |            | 18    |
| 60      | BC191016     | Vyohak Harish Revankar | 20        | 18         | —         |                   |         |            | 19    |



| Sl. No. | Register No. | Name of the Student   | IA Test-I | IA Test-II | Missed IA | Skill Development | Seminar | Attendance | Total | End Sem Exam Marks |
|---------|--------------|-----------------------|-----------|------------|-----------|-------------------|---------|------------|-------|--------------------|
| 61      | BC191018     | yashaswini. G.        | 19        | 18         | -         |                   |         |            | 19    |                    |
| 62      | BC190961     | Mohammed Salim Suhail | 17        | 18         | -         |                   |         |            | 18    |                    |
| 63      |              |                       |           |            |           |                   |         |            |       |                    |
| 64      |              |                       |           |            |           |                   |         |            |       |                    |
| 65      |              |                       |           |            |           |                   |         |            |       |                    |
| 66      |              |                       |           |            |           |                   |         |            |       |                    |
| 67      |              |                       |           |            |           |                   |         |            |       |                    |
| 68      |              |                       |           |            |           |                   |         |            |       |                    |
| 69      |              |                       |           |            |           |                   |         |            |       |                    |
| 70      |              |                       |           |            |           |                   |         |            |       |                    |
| 71      |              |                       |           |            |           |                   |         |            |       |                    |
| 72      |              |                       |           |            |           |                   |         |            |       |                    |
| 73      |              |                       |           |            |           |                   |         |            |       |                    |
| 74      |              |                       |           |            |           |                   |         |            |       |                    |
| 75      |              |                       |           |            |           |                   |         |            |       |                    |

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24/6/2020

**COMPARITIVE STATEMENT - PERCENTAGE ANALYSIS**




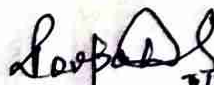
| Sl. No. | PARTICULARS                 | IA-1   | IA-2   | MISSED IA | UNIVERSITY EXAM |
|---------|-----------------------------|--------|--------|-----------|-----------------|
| 1       | Number of Students attended | 40     | 42     | 27        |                 |
| 2       | Number of Students Passed   | 38     | 41     | 27        |                 |
| 3       | Number of Students Failed   | 02     | 01     | 00        |                 |
| 4       | Number of Students Absent   | 22     | 20     | 00        |                 |
| 5       | Pass Percentage             | 95%.   | 97.6%. | 100%.     |                 |
| 6       | Pass Marks Average          | 79.1%. | 70.3%. | 71%.      |                 |

**COMPARITIVE STATEMENT - RANGE OF MARKS**

| Sl. No. | RANGE OF MARKS | IA-1 | RANGE OF MARKS | IA-2 | RANGE OF MARKS | MISSED IA | UNIVERSITY EXAM |
|---------|----------------|------|----------------|------|----------------|-----------|-----------------|
| 1       | 0 - 7          | 02   | 0 - 7          | 01   | 0 - 7          | —         |                 |
| 2       | 8 - 12         | 07   | 8 - 12         | 11   | 8 - 12         | 16        |                 |
| 3       | 12 - 15        | 09   | 12 - 15        | 11   | 12 - 15        | 11        |                 |
| 4       | 16 - 20        | 22   | 16 - 20        | 19   | 16 - 20        | —         |                 |
| 5       |                |      |                |      |                |           |                 |
| 6       |                |      |                |      |                |           |                 |
| 7       |                |      |                |      |                |           |                 |
| 8       |                |      |                |      |                |           |                 |
| TOTAL   |                | 40   |                | 42   |                | 27        |                 |

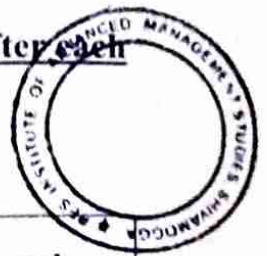
**Note:** The range of marks should be defined based on the course.

Name of the Faculty & Signature  
  
 Tejaswini. V. R.

  
 HOD 24/6/2020

  
 Principal 24/6/2020

**Remedial measures and Corrective Action taken for Result Improvement after each  
Component of IA Test**



**ACTION PLAN**

| Examination                     | Percentage of Failure | Corrective and Preventive Action Proposed                    | Corrective and Preventive Action Taken |
|---------------------------------|-----------------------|--|--|
| Internal Assessment Test-I      | 5%                    | Extra work assigned to the <del>the</del> concerned students | Assignments have been submitted.       |
| Internal Assessment Test-II     | 2-3%                  | -  | -                                      |
| Missed Internal Assessment Test | 0                     | -  | -                                      |

Name of the Faculty & Signature

T. J. Awini. V. R.

HOD

*[Signature]*  
24/6/2020

PRINCIPAL

*[Signature]*  
24/6/2020