

**DIPLOMA IN BUSINESS ANALYTICS**

# **ASSIGNMENTS**

**DBA – 1<sup>ST</sup> SEMESTER**



**(SESSION 2024-2025)**

**Centre for Distance and Online Education (CDOE)  
Guru Jambheshwar University of Science & Technology  
Hisar - 125001**

**CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**  
**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

**Course: Principles of Business Management**  
**Paper Code: DBA-101**

**Semester: 1<sup>st</sup>**  
**Total Marks=30**

**Important Instructions**

- Attempt all questions from each assignment given below.
- Each assignment carries 15 marks.
- All questions are to be attempted in legible handwriting on plane white A-4 size paper.

**ASSIGNMENT-I**

1. Define the term “Commerce”. Explain the components of commerce.
2. Explain the process of management in details.
3. Describe the principles of scientific management.

**ASSIGNMENT-II**

1. What do you mean by Organizing? Explain the organizational structure for large scale business operations.
2. Define the term Explain the different techniques for controlling
3. What do you mean by Leadership? Explain the different approaches of leadership.

**Prepared by:**  
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**CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**  
**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

**Course: Fundamental of Business Analytics**  
**Paper Code: DBA-102**

**Semester: 1<sup>st</sup>**  
**Total Marks=30**

**Important Instructions**

- Attempt all questions from each assignment given below.
- Each assignment carries 15 marks.
- All questions are to be attempted in legible handwriting on plane white A-4 sizepaper.

**ASSIGNMENT-I**

4. What are the key features of business analytics? Please provide an example of its application.
5. Explain the role of Descriptive Analytics in business decision-making and provide an example of how it can be used.
6. Describe the steps involved in the business analytics process, including data collection, processing, analysis, and interpretation. Explain the importance of each step and how it contributes to deriving actionable insights from data.

**ASSIGNMENT-II**

4. What are the key techniques involved in data wrangling, and why is this process critical for data analysis? Provide examples of challenges that might be encountered during data wrangling.
5. How do the four characteristics of big data—volume, velocity, variety, and veracity—impact the approach to analyzing and processing data? Provide examples of how each characteristic presents unique challenges and opportunities in big data analytics.
6. Explain the role of business analytics in decision-making processes within organizations. How does it contribute to achieving a competitive advantage?

**Prepared by:**  
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**CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**  
**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

**Course: Business Statistics**  
**Paper Code: DBA-103**

**Semester: 1<sup>st</sup>**  
**Total Marks=30**

**Important Instructions**

- Attempt all questions from each assignment given below.
- Each assignment carries 15 marks.
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**ASSIGNMENT-I**

1. What do you mean by probability? Describe the major applications of normal distribution.
2. Write a short note on the followings
  - a) Conditional Probability
  - b) Bayes Theorem
3. Elaborate the Hypothesis testing procedure in details.

**ASSIGNMENT-II**

1. Explain the four statistical test of hypothesis testing with their suitability.
2. Describe the techniques of Regression Analysis.
3. Write down the various methods of measuring the Indices.

**Prepared by:**  
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**CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**

**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

**Course: Computer Applications in Business**

**Paper Code: DBA-104**

**Semester: 1<sup>st</sup>**

**Total Marks=30**

**Important Instructions**

- Attempt all questions from each assignment given below.
- Each assignment carries 15 marks.
- All questions are to be attempted in legible handwriting on plane white A-4 size paper.

**ASSIGNMENT-I**

1. Define computer system. Explain block diagram of computer system also specify any peripheral device in detail.
2. Explain memory in computer system with different type of memory.
3. What is computer software? Discuss the types of computer software with example.

**ASSIGNMENT-II**

1. Why mail merge is important for an organization explain with example. Write the steps used in mail merge with suitable diagram.
2. What do mean by network in computer system. Illustrate the different network with suitable diagram.
3. Explain operating system and its function in detail.

**Prepared by:**

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**CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**  
**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

**Course: Database Management System**  
**Paper Code: DBA-105**

**Semester: 1<sup>st</sup>**  
**Total Marks=30**

**Important Instructions**

- Attempt all questions from each assignment given below.
- Each assignment carries 15 marks.
- All questions are to be attempted in legible handwriting on plane white A-4 sizepaper.

**ASSIGNMENT-I**

1. Compare and contrast file systems with database systems. What are the key characteristics that distinguish a database approach?
2. What are the primary responsibilities of a Database Administrator (DBA)? Discuss how these responsibilities contribute to the effective management of a database system.
3. Define entity types, attributes, and relationships in the context of the E-R model. How can you represent these elements in an E-R diagram?

**ASSIGNMENT-II**

1. Explain the process of normalization. What are database anomalies, and how does normalization help eliminate them?
2. Describe the ACID properties of transactions in database systems. Why are these properties essential for maintaining the integrity of a database?
3. Discuss the significance of locking techniques and time-stamp ordering in maintaining data consistency.

**Prepared by:**  
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