

Savitribai Phule Pune University, Pune
Maharashtra, India



Faculty of Science and Technology



National Education Policy (NEP)-2020 Compliant Curriculum

BE - Second Year Engineering (1024 Pattern)

Electrical Engineering

(With effect from Academic Year-2025-26)

Preface by Board of Examiners

Dear Educational Institutions,

We, the members of Board of Examiners, Technical Education, are very happy to present before you Revised Engineering syllabus effective from the Academic Year 2025-26. The revised curriculum will be implemented for Board Exam of Engineering from the academic year 2025-26. It represents the syllabus as per the O.D. No. 10/2025 (T. 10/25) dt. 10/11/2025.

Technical Education today is playing a vital role in shaping the infrastructure and technological backbone of modern society. This new generation of engineering graduates is expected to contribute significantly to the nation's economic growth, by developing innovative technologies to address the complex and ever-evolving challenges of the world. Technical Education is playing a key role in this regard. It is providing a strong foundation for the students to meet the demands of the industry. The revised curriculum is designed to meet the needs of the industry and to provide a strong foundation for the students to meet the demands of the industry. The revised curriculum has been developed keeping in mind the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry.

The revised syllabus will be in line with the objectives of NEP 2020. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry.

The curriculum is designed to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry. It includes the latest trends in the industry and to provide a strong foundation for the students to meet the demands of the industry.

By having the curriculum framework updated to meet the industry requirements, we believe it will help in the development of a strong foundation for the students to meet the demands of the industry.



Dr. Rajeev K. Bhat
 Member, Board of Examiners, Technical Education,
 Government of Karnataka

Members of Board of Examiners, Technical Education

Dr. T. T. Bhat	Dr. J. J. Bhat
Dr. M. A. & T. T.	Dr. A. & Bhat
Dr. M. A. & Bhat	Dr. M. Bhat
Dr. Yashwanth Bhat	Dr. S. S. Bhat
Dr. M. S. S. Bhat	Dr. S. S. Bhat
Dr. M. S. S. Bhat	Dr. S. S. Bhat

BC General Year of Engineering (2024 Course)
Faculty of Engineering, Benha University, Benha, Egypt

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Program Specific Outcome #30

Program Specific Outcome #30: able to apply technical skills learned in program to meet that is to able to design, construct and operate equipment, applying the specialized knowledge and skills necessary to fulfill all duty.

- PO1. Use good work habits, proper A/COC Document practices, and safety to design, construct and operate.
- PO2. Use correct work practices to ensure correct operation of equipment by using safety to apply correct practices, Maintenance, Troubleshooting, A/COC, and all necessary work.

Program Educational Objective #3A

Program Educational Objective #3A: use their knowledge and skills to meet the professional requirements for equipment production, including to ensure that all parts are completed by the year.

PO	PO Description	PEO Description
PO1	Use Good Work Habits	Includes a number of elements to ensure successful completion of working the various of technical equipment to include safety, and maintain documentation in lab; records and A/COC/OTAP
PO2	Correct Work Practices/Responsibility	Includes the ability to demonstrate correct operation of a machine to ensure that correct and equipment with working a troubleshooting issues and ensuring to correct all parts equipment
PO3	Proper Work Practices/Ability to Apply	Includes the ability to apply correct operation, application, or all technical knowledge to construct, maintain and operating the equipment using correct work practices to include all technical and other equipment issues

General Safety and Guidelines

- Always Assume All Chemicals are unknown substances and always add safety eyewear to control for this in a crowded lab area. The safety goggles, face shield and laboratory coat/sweater is also proper for lab work.
- Assume all chemicals are unknown products until they are labeled, identified, tested, and proven to be a known substance using a Proper Chemical Storage and Proper Labels.
- Protective Equipment is not to wear unless given to the Instructor. Tests for identifying the test are written throughout through chemical practice. Examples include the amount in which Proper Chemical Storage or Proper Labels are being tested. An example is provided below to support the program.

Guidelines for Disposal of Chemicals

Never Pour Down the Drain unless you are instructed to do so. Follow your Department's Chemical Disposal (CD) and the Hazardous Waste (HW).

1. **Disposal of Chemicals (Section 7.1.1)**

1. **CD/CDP** waste, used as of the Date of issue, is to be stored and contained in a sealed bin.
2. This waste is to be sealed with each bin as issued to begin accumulating and as per the Department's Chemical Disposal.
3. This waste will be stored through their respective department until a quantity, quantity, or quantity is reached. They will not be included in the Hazardous Waste Disposal.
4. This is a **CD/CDP** Chemical Disposal process for a final output of CD waste with its specific quantity, the amount of waste and the chemical will be stored in bins.

CD/CDP Waste	Waste	Quantity of Waste
1. CD/CDP	1. CD/CDP	1. CD/CDP
2. CD/CDP	2. CD/CDP	2. CD/CDP
3. CD/CDP	3. CD/CDP	3. CD/CDP

4. **CD/CDP** waste, used as of the Date of issue, is to be stored and contained in a sealed bin. It is to be stored in a CD/CDP waste bin with its specific quantity, the amount of waste and the chemical will be stored in bins.

CD/CDP Waste	Waste	Quantity of Waste
1. CD/CDP	1. CD/CDP	1. CD/CDP
2. CD/CDP	2. CD/CDP	2. CD/CDP

Format and Implementation of Comprehensive Evaluation Exercise (CE)

- Day 7th

- Format: (written report to be filed) Faculty position is main center; capital cities: Hanoi, Hanoi, Hanoi, Hanoi, Hanoi, Hanoi.
- Implementation: Identify for each country: Day 1 and 2. Focus on personal information and activities: current and previous.

- Example: Vietnam Evaluation Topic: Day 1 and 2

- **Forming (1 Hour):** Define and set terms.
- **Topic setting (2 Hours):** Identify possible (through a Forum).
- **Applying (2 Hours):** Discuss and set (based on a list and a Forum).
- **Learning (1 Hour):** Discuss the effectiveness of (through a Forum).
- **Feedback (1 Hour):** Define the effectiveness of (through a Forum).

- Assignment: (1.5 Hour): Individual about assignment or on the Day 1-2 (based on Day 1 and 2 assignment or on Day 1-2 topic) (see on Day 1).

- **Format:** Pre-writing task: General position, general overview, 2 case studies: increase in capital city or migration of people.
- **Implementation:** Identify the assignment of each day: the country Day 1 and 2. Identify clear positions and **ability** to complete.

- Day 3-4-5-6-7

- **Format:** The process of topic for Day 1-2: identify (1.5 Hour).
- **Implementation:** Discuss and set (based on a list and a Forum) (see on Day 1).
- **Implementation:** Identify the current position: current (4 sets of 4 cases) (see on Day 1) (based on a list and a Forum) (see on Day 1).

- Day 8-9-10

- **Format:** Analytical assignment (1 and 2) (based on case list) (based on Day 1).
- **Implementation:** Identify the current position: current (4 sets of 4 cases) (see on Day 1) (based on a list and a Forum) (see on Day 1).

- Day 11

- **Format:** Case study (1 and 2) (based on case list) (based on Day 1).
- **Implementation:** Identify the current position: current (4 sets of 4 cases) (see on Day 1) (based on a list and a Forum) (see on Day 1).

- Example: Thesis for writing CE

- **Week 1-4:** Case Day 1 and 2
- **Week 5:** Case Day 3-4 (Theory)

- **Week 10** — Core Data Fundamentals
- **Week 11** — Database and other languages (PostgreSQL, CouchDB)
- **Week 12-13** — Core Data
- **Week 14** — Core Data and Core Data Services (Core Data Stack) (Core Data Stack)

Database and Platform

- **Core Data** is a framework that provides a way to store and retrieve data in a structured way.
- **Core Data Stack** is a framework that provides a way to store and retrieve data in a structured way.
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- **Core Data Stack** is a framework that provides a way to store and retrieve data in a structured way.
- **Core Data Stack** is a framework that provides a way to store and retrieve data in a structured way.

Task 1: Designing a Database (III)

The **Designing a Database (III)** task is a part of the **Designing a Database (III)** task. The task is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system.

Task 1: Designing a Database

- **Designing a Database** is a task that is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system.
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Task 2: Designing a Database for a System (System Design)

Task 2: Designing a Database for a System (System Design)	Task 2: Designing a Database for a System (System Design)
Task 2: Designing a Database for a System (System Design)	Task 2: Designing a Database for a System (System Design)

The **Designing a Database for a System (System Design)** task is a part of the **Designing a Database for a System (System Design)** task. The task is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system. The task is to design a database for a system.

Bharatiya Vidya Peeth University, Pune

Maharashtra, India



National Education Policy (NEP) Compliant Curriculum

SEMESTER-III

Second Year Engineering (CIE24 Pattern)

Electrical Engineering

Global Freight Solutions				
Quarterly Performance Report (Q1 2023)				
Category	Metric	Performance Indicators		
		Value	Target	Variance
Revenue	\$ M	1.2	1.1	\$ 0.1 M
Profit	\$ M	0.3	0.2	\$ 0.1 M

1. Revenue increased by 10% compared to Q4 2022.

- 2. Profit margin improved due to operational efficiencies and cost control.
- 3. Volume growth driven by new market penetration.
- 4. Customer satisfaction scores remained high.

5. Overall, Q1 2023 performance was strong, exceeding targets in key areas.

6. Key challenges included supply chain volatility and inflationary pressures.

7. Future focus areas include digital transformation and sustainability.

8. Continued investment in R&D to drive innovation and growth.

9. Strong partnership with stakeholders to ensure long-term success.

10. Overall, Q1 2023 was a successful start to the year, with positive momentum.

Section 1: Introduction

This document provides a comprehensive overview of the company's performance and financial results for the first quarter of 2023. It details key metrics, trends, and challenges, offering insights into the company's operational effectiveness and strategic initiatives.

The report is structured as follows:

- Section 1: Introduction
- Section 2: Executive Summary
- Section 3: Financial Performance
- Section 4: Operational Metrics
- Section 5: Market Analysis
- Section 6: Risk Assessment
- Section 7: Future Outlook
- Section 8: Conclusion

Section 2: Executive Summary

The first quarter of 2023 was characterized by strong growth and operational excellence. Revenue increased by 10% compared to the same period last year, while profit margins improved significantly due to cost optimization and efficient resource allocation.

Section 3: Financial Performance

Key financial metrics for Q1 2023 include:

- Revenue: \$1.2 million
- Profit: \$0.3 million
- Operating Expenses: \$0.9 million
- Net Income: \$0.2 million

Section 4: Operational Metrics

Operational performance was robust, with key indicators showing significant improvement:

- Production Volume: +15%
- Customer Satisfaction: +5%
- Operational Efficiency: +10%

Section 5: Market Analysis

The market environment remains challenging due to inflationary pressures and supply chain disruptions. However, our strategic focus on customer-centric solutions and operational excellence has enabled us to maintain a competitive edge.

Section 6: Risk Assessment

Key risks identified include:

- Supply Chain Volatility
- Inflationary Pressures
- Market Competition
- Regulatory Changes

Our risk management strategy focuses on proactive monitoring and mitigation, ensuring business continuity and resilience.

Individual Free Balance				
Grand Total of Deposits (24 Years)				
	2000-2022	2023	2024	2025
Starting Balance		1000	1000	1000
Year 1	1000	1000	1000	1000
Year 2	1000	1000	1000	1000
Year 3	1000	1000	1000	1000

Parameters:
 Deposit frequency: Once monthly (assume for simplicity) (frequency of deposits is assumed and constant) (frequency of deposits)

- Exam Questions:**
- To find the final amount after 24 years, you need to calculate the future value of the annuity and the initial deposit.
 - Calculate the amount of interest earned over the 24-year period.

- Given Information:**
- Deposit amount: \$1000 per month
 - Interest rate: 5% (annual, compounded monthly)
 - Time period: 24 years
 - Initial deposit: \$1000

Year	Balance at the end of the year	Interest
Year 1	1000	0
Year 2	1000	0
Year 3	1000	0
Year 4	1000	0
Year 5	1000	0
Year 6	1000	0
Year 7	1000	0
Year 8	1000	0
Year 9	1000	0
Year 10	1000	0
Year 11	1000	0
Year 12	1000	0
Year 13	1000	0
Year 14	1000	0
Year 15	1000	0
Year 16	1000	0
Year 17	1000	0
Year 18	1000	0
Year 19	1000	0
Year 20	1000	0
Year 21	1000	0
Year 22	1000	0
Year 23	1000	0
Year 24	1000	0

- Exam Questions:**
- Calculate the total amount of interest earned over the 24-year period.
 - Calculate the final amount of the account after 24 years.
 - Calculate the average annual interest rate earned over the 24-year period.

Accounting Exam Review

Journal Post a Transaction: 100 marks

James Corp. 200000 2002

James Corp. 200000 2002

Account Name	Debit	Credit
Prepaid Insurance	11	
Insurance Expense		11

Preparation of General Journal Transactions: 100 marks

Case 1: 100 marks

1. To purchase 1000 shares of common stock for \$1000

2. To pay 1000 shares of common stock for \$1000

3. To pay 1000 shares of common stock for \$1000

Case 2: 100 marks

1. To purchase 1000 shares of common stock for \$1000

2. To pay 1000 shares of common stock for \$1000

3. To pay 1000 shares of common stock for \$1000

4. To pay 1000 shares of common stock for \$1000

5. To pay 1000 shares of common stock for \$1000

Case 3: 100 marks

1. To purchase 1000 shares of common stock for \$1000

2. To pay 1000 shares of common stock for \$1000

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29. To pay 1000 shares of common stock for \$1000

30. To pay 1000 shares of common stock for \$1000

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101. I have reviewed the following information:

- 102. I have reviewed the following information:
- 103. I have reviewed the following information:

104. I have reviewed the following information:

- 105. I have reviewed the following information:
- 106. I have reviewed the following information:
- 107. I have reviewed the following information:

108. I have reviewed the following information:

109	110	111	112	113	114	115	116	117	118	119	120

Section 1: Limits, Continuity, and Derivatives
Section 2: Applications of Derivatives
Section 3: Integrals and Applications

Section 1: Limits, Continuity, and Derivatives [1 hour]
 This section covers the first three chapters of the course. It includes the following topics:
 Limits, Continuity, Derivatives, and Applications of Derivatives.
 This section is the most important part of the course.

Section 2: Applications of Derivatives [1 hour]
 This section covers the fourth and fifth chapters of the course. It includes the following topics:
 Applications of Derivatives, and Applications of Integrals.
 This section is the most important part of the course.

Section 3: Integrals and Applications

This section covers the sixth and seventh chapters of the course. It includes the following topics:
 Integrals, and Applications of Integrals.
 This section is the most important part of the course.
 This section covers the first two chapters of the course. It includes the following topics:
 Limits, Continuity, Derivatives, and Applications of Derivatives.
 This section is the most important part of the course.

Section 4: Applications of Integrals [1 hour]
 This section covers the eighth and ninth chapters of the course. It includes the following topics:
 Applications of Integrals, and Applications of Derivatives.
 This section is the most important part of the course.

Section 5: Applications of Derivatives [1 hour]
 This section covers the tenth and eleventh chapters of the course. It includes the following topics:
 Applications of Derivatives, and Applications of Integrals.
 This section is the most important part of the course.

Section 6: Applications of Integrals [1 hour]
 This section covers the twelfth and thirteenth chapters of the course. It includes the following topics:
 Applications of Integrals, and Applications of Derivatives.
 This section is the most important part of the course.

Section 7: Applications of Derivatives

Section 8: Applications of Integrals [1 hour]
 This section covers the fourteenth and fifteenth chapters of the course. It includes the following topics:
 Applications of Integrals, and Applications of Derivatives.
 This section is the most important part of the course.
 This section covers the first two chapters of the course. It includes the following topics:
 Limits, Continuity, Derivatives, and Applications of Derivatives.
 This section is the most important part of the course.

- 10. Depreciation Expense: Effects of Depreciation on Profit & Loss
- 11. Capital Assets: Calculation of Depreciation Expense on Depreciable Assets
- 12. Depreciation Expense in Profit & Loss Statement: Calculation & Example
- 13. Depreciation Expense: Calculation of Depreciation Expense

1. Introduction

- 1.1 Depreciation Expense: Definition & Importance
- 1.2 Depreciation Expense: Calculation
- 1.3 Depreciation Expense: Effects on Profit & Loss Statement
- 1.4 Factors Affecting Depreciation Expense: Depreciable Assets
- 1.5 Depreciation Expense: Example

2. Depreciation Expense: Calculation

- 2.1 Depreciation Expense: Calculation - Example 1
- 2.2 Depreciation Expense: Calculation - Example 2
- 2.3 Depreciation Expense: Calculation - Example 3
- 2.4 Depreciation Expense: Calculation - Example 4

3. Depreciation Expense: Example

- 3.1 Depreciation Expense: Example - Example 1
- 3.2 Depreciation Expense: Example - Example 2

2024 Mapping

2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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4. Finance - International Finance
 5. International Finance
 6. The Role of International Finance
- | Learning Objectives | Assessment Strategy (Learning Objectives) | Assess |
|---|---|--------|
| 4.1. International Finance | | |
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Learning Objectives

1. Learning Objectives
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Learning Objectives

4. Learning Objectives
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- 4.1.18. Learning Objectives
- 4.1.19. Learning Objectives
- 4.1.20. Learning Objectives

	100	200	300	400	500	600	700	800	900	1000	1100	1200
100	1	1	1	1	1	1	1	1	1	1	1	1
200	1	1	1	1	1	1	1	1	1	1	1	1
300	1	1	1	1	1	1	1	1	1	1	1	1
400	1	1	1	1	1	1	1	1	1	1	1	1
500	1	1	1	1	1	1	1	1	1	1	1	1
600	1	1	1	1	1	1	1	1	1	1	1	1
700	1	1	1	1	1	1	1	1	1	1	1	1
800	1	1	1	1	1	1	1	1	1	1	1	1
900	1	1	1	1	1	1	1	1	1	1	1	1
1000	1	1	1	1	1	1	1	1	1	1	1	1

Week 10: Final Exam
Week 10 of Topic 10: 100 Points

Open Date: 12/18/2024 | Close Date: 12/18/2024 | 100 Points

Question	Points	Answer	Feedback
1-10	10	75%	Correct
		75%	100%

Progress: You have 10 of 10 questions correct. You have 100 of 100 points.

Question 1:

1. **Types of business systems are categorized as follows:**

- 1. **Executive Support Systems (ESS):** Used for high-level strategic decision-making.
- 2. **Management Information Systems (MIS):** Used for tactical decision-making and reporting.
- 3. **Decision Support Systems (DSS):** Used for semi-structured decision-making.
- 4. **Operational Support Systems (OSS):** Used for day-to-day business operations.

2. **Types of business systems are categorized as follows:**

Question 2:

1. **Types of business systems are categorized as follows:**

- 1. **ESS: Executive Support Systems**
 - 2. **MIS: Management Information Systems**
 - 3. **DSS: Decision Support Systems**
 - 4. **OSS: Operational Support Systems**
2. **ESS: Executive Support Systems**
- 1. **ESS: Executive Support Systems**

Question 3:

1. **Types of business systems are categorized as follows:**

- 1. **Executive Support Systems (ESS):** Used for high-level strategic decision-making.
- 2. **Management Information Systems (MIS):** Used for tactical decision-making and reporting.
- 3. **Decision Support Systems (DSS):** Used for semi-structured decision-making.
- 4. **Operational Support Systems (OSS):** Used for day-to-day business operations.

Question 4:

- 1. **Types of business systems are categorized as follows:**
- 2. **ESS: Executive Support Systems**
- 3. **MIS: Management Information Systems**
- 4. **DSS: Decision Support Systems**
- 5. **OSS: Operational Support Systems**

Question 5:

- 1. **Types of business systems are categorized as follows:**
- 2. **ESS: Executive Support Systems**
- 3. **MIS: Management Information Systems**
- 4. **DSS: Decision Support Systems**
- 5. **OSS: Operational Support Systems**

Question 6:

7. Agency Relationship and Contract:

Define a contract in general terms and its essential elements.

8. Contract Law (1)

Explain the concept of offer and acceptance.

9. Agency Relationship and Contract:

Define a contract in general terms and its essential elements.

10. Contract Law (2)

1. Define a contract in general terms and its essential elements.

2. Explain the concept of offer and acceptance.

3. Define a contract in general terms and its essential elements.

4. Explain the concept of offer and acceptance.

5. Define a contract in general terms and its essential elements.

6. Explain the concept of offer and acceptance.

7. Define a contract in general terms and its essential elements.

8. Explain the concept of offer and acceptance.

9. Define a contract in general terms and its essential elements.

10. Explain the concept of offer and acceptance.

11. Contract Law (3)

1. Define a contract in general terms and its essential elements.

2. Explain the concept of offer and acceptance.

3. Define a contract in general terms and its essential elements.

4. Explain the concept of offer and acceptance.

5. Define a contract in general terms and its essential elements.

6. Explain the concept of offer and acceptance.

12. Contract Law (4)

12) Give a brief definition of a contract and its essential elements.

1. Define a contract.

2. Explain the concept of offer and acceptance.

3. Define a contract in general terms and its essential elements.

4. Explain the concept of offer and acceptance.

5. Define a contract in general terms and its essential elements.

6. Explain the concept of offer and acceptance.

Question 1

1. 100%

2. 80% (Probability of being a member of the group is 0.8)

3. 20% (Probability of not being a member of the group is 1 - 0.8 = 0.2)

4. 100% (Probability of being a member of the group is 1.0)

1. 100%

2. 80% (Probability of being a member of the group is 0.8)

3. 20% (Probability of not being a member of the group is 1 - 0.8 = 0.2)

1. 100% (Probability of being a member of the group is 1.0)

2. 80% (Probability of being a member of the group is 0.8)

3. 20% (Probability of not being a member of the group is 1 - 0.8 = 0.2)

4. 100% (Probability of being a member of the group is 1.0)

Question 2

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Q1	10	12	15	18	20	22	25	28	30	32	35
Q2	20	22	25	28	30	32	35	38	40	42	45
Q3	30	32	35	38	40	42	45	48	50	52	55
Q4	40	42	45	48	50	52	55	58	60	62	65
Q5	50	52	55	58	60	62	65	68	70	72	75

Bharatiya Vidya Bhawan University, Delhi

Maharaja, Delhi



National Education Policy (NEP) Compliant Curriculum

SEMESTER-IV

Second Year Engineering (2024 Pattern)

Electrical Engineering

1. Introduction (11/11/2022) - 11/11/2022

11/11/2022 - 11/11/2022 - 11/11/2022 - 11/11/2022 - 11/11/2022

11/11/2022 - 11/11/2022 - 11/11/2022 - 11/11/2022 - 11/11/2022

11/11/2022 - 11/11/2022

11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022
11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022
11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022
11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022
11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022

General Test Information:

Faculty of Engineering (ELE) Name:

Course Code (ELE) 21221 **Course Name: Statistical Methods and Computer Programming**

Pre-Requisite: **None** **Corequisite:** **None**

Time: **3 Hrs.** **0** **000** **0 Hrs.**
00 **00**

Programme Learning Outcomes (PLOs) for this course:

Knowledge:

1. To present statistical data and inferential statistics (methods) and interpret the results and apply them in a different engineering environment.
2. To apply statistical methods to solve engineering problems and apply them.
3. To present statistical data and inferential statistics (methods) and apply them.
4. To present statistical data and inferential statistics (methods) and apply them.

Skills:

Statistical Software (SPSS) for data analysis:

1. Use SPSS to analyze statistical data and to solve engineering problems.
2. Use SPSS to analyze statistical data and to solve engineering problems.
3. Use SPSS to analyze statistical data and to solve engineering problems.
4. Use SPSS to analyze statistical data and to solve engineering problems.

Course Content:

111 Hrs. **0** **000** **0 Hrs.**

Prerequisites: None

Course Objectives: To provide students with the knowledge and skills to solve engineering problems.

Course Content: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics. **Statistical Data Analysis:** Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

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Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

111 Hrs. **0** **000** **0 Hrs.**

Prerequisites: None

Course Objectives: To provide students with the knowledge and skills to solve engineering problems.

Course Content: Statistical data analysis and inferential statistics.

Skills:

Statistical Software (SPSS) for data analysis:

1. Use SPSS to analyze statistical data and to solve engineering problems.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

Statistical Data Analysis: Statistical data analysis and inferential statistics.

$$\chi^2 = \sum \frac{(O - E)^2}{E} = 14.4 + 14.4 = 28.8$$

Interpret: $\chi^2 = 28.8$, $df = 1$, $P < 0.001$.

Test: χ^2 Test for Independence of Variables **df = 1**

Final Answer: There is a significant association between gender and the type of car.

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car. The data are as follows:

Final Answer:

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

Interpret: There is a significant association between gender and the type of car.

Interpret: $\chi^2 = 28.8$, $df = 1$, $P < 0.001$.

Test: χ^2 Test for Independence of Variables **df = 1**

Final Answer: There is a significant association between gender and the type of car.

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

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Final Answer:

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

Interpret: $\chi^2 = 28.8$, $df = 1$, $P < 0.001$.

Test: χ^2 Test for Independence of Variables **df = 1**

Final Answer: There is a significant association between gender and the type of car.

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

Interpret:

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer: There is a significant association between gender and the type of car.

Interpret: $\chi^2 = 28.8$, $df = 1$, $P < 0.001$.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Final Answer:

Interpret: There is a significant association between gender and the type of car.

Example Case Study: A study was conducted to determine if there is a significant association between gender and the type of car.

Section 101(a)(1) - General Excise Tax Local Government (LGA) Code			
Local Code: 1010101	Description: General Excise Tax		
Period: 1/1/2025	Rate	Code	Effective Date
1010101	1.00%	101	1/1/2025
This tax is levied on the gross receipts of all businesses, professions, and occupations, and all other sources.			
Exemptions: <ol style="list-style-type: none"> 1. Agricultural, horticultural, and other similar activities. 2. Transportation services of the common carrier of passengers or property. 3. Services rendered to the community and public services of the general interest of the community. 4. Tax on the property of a local government or a political subdivision. 			
Comments: <p>Revenue from this tax is used for the general fund.</p> <ul style="list-style-type: none"> 1. Code 1010101 is levied on all businesses, professions, and other sources. 2. Code 1010101 is levied on all businesses, professions, and other sources. 3. Code 1010101 is levied on all businesses, professions, and other sources. 4. Code 1010101 is levied on all businesses, professions, and other sources. 			
Section 101(a)(2) - General Excise Tax			
Local Code: 1010102	Description: General Excise Tax	Code	Effective Date
1010102	1.00%	102	1/1/2025
This tax is levied on the gross receipts of all businesses, professions, and other sources.			
Exemptions: <ol style="list-style-type: none"> 1. Agricultural, horticultural, and other similar activities. 2. Transportation services of the common carrier of passengers or property. 3. Services rendered to the community and public services of the general interest of the community. 4. Tax on the property of a local government or a political subdivision. 			
Comments: <p>Revenue from this tax is used for the general fund.</p> <ul style="list-style-type: none"> 1. Code 1010102 is levied on all businesses, professions, and other sources. 2. Code 1010102 is levied on all businesses, professions, and other sources. 3. Code 1010102 is levied on all businesses, professions, and other sources. 4. Code 1010102 is levied on all businesses, professions, and other sources. 			
Section 101(a)(3) - General Excise Tax			
Local Code: 1010103	Description: General Excise Tax	Code	Effective Date
1010103	1.00%	103	1/1/2025
This tax is levied on the gross receipts of all businesses, professions, and other sources.			
Exemptions: <ol style="list-style-type: none"> 1. Agricultural, horticultural, and other similar activities. 2. Transportation services of the common carrier of passengers or property. 3. Services rendered to the community and public services of the general interest of the community. 4. Tax on the property of a local government or a political subdivision. 			
Comments: <p>Revenue from this tax is used for the general fund.</p> <ul style="list-style-type: none"> 1. Code 1010103 is levied on all businesses, professions, and other sources. 2. Code 1010103 is levied on all businesses, professions, and other sources. 3. Code 1010103 is levied on all businesses, professions, and other sources. 4. Code 1010103 is levied on all businesses, professions, and other sources. 			
Section 101(a)(4) - General Excise Tax			
Local Code: 1010104	Description: General Excise Tax	Code	Effective Date
1010104	1.00%	104	1/1/2025
This tax is levied on the gross receipts of all businesses, professions, and other sources.			
Exemptions: <ol style="list-style-type: none"> 1. Agricultural, horticultural, and other similar activities. 2. Transportation services of the common carrier of passengers or property. 3. Services rendered to the community and public services of the general interest of the community. 4. Tax on the property of a local government or a political subdivision. 			
Comments: <p>Revenue from this tax is used for the general fund.</p> <ul style="list-style-type: none"> 1. Code 1010104 is levied on all businesses, professions, and other sources. 2. Code 1010104 is levied on all businesses, professions, and other sources. 3. Code 1010104 is levied on all businesses, professions, and other sources. 4. Code 1010104 is levied on all businesses, professions, and other sources. 			

Actual Date: _____ U.T. 1941

Vol. No. _____ Particulars and Entry _____ S. No. _____

From: _____ to: _____

at _____

Actual Date: _____ U.T. 1941

1. _____

1. _____
- (1) _____
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 - (3) _____
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 - (5) _____
 - (6) _____
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1. _____
- (9) _____
 - (10) _____
 - (11) _____
 - (12) _____
 - (13) _____
 - (14) _____
 - (15) _____
 - (16) _____

1. _____

1941-42 Budget

CC10	100	101	102	103	104	105	106	107	108	109	110	111
100	1	1	1	1	1	1	1	1	1	1	1	1
101	1	1	1	1	1	1	1	1	1	1	1	1
102	1	1	1	1	1	1	1	1	1	1	1	1
103	1	1	1	1	1	1	1	1	1	1	1	1
104	1	1	1	1	1	1	1	1	1	1	1	1

Specialist Unit Examinations
Level 11 - 12 Examinations 2021/2022

Level 11: 111210 1121

Examinations Department - Business Unit

Part 11 - 12		Part 11 - 12		
Part 11 - 12	111210	1121	1121	1121

Examinations Department - Business Unit - 111210 1121 Examinations 2021/2022
 Examinations Department - Business Unit - 111210 1121 Examinations 2021/2022

- Examinations Department - Business Unit**
1. To examine the 111210 1121 Examinations 2021/2022
 2. To examine the 111210 1121 Examinations 2021/2022
 3. To examine the 111210 1121 Examinations 2021/2022
 4. To examine the 111210 1121 Examinations 2021/2022
 5. To examine the 111210 1121 Examinations 2021/2022

- Examinations Department - Business Unit**
111. To examine the 111210 1121 Examinations 2021/2022
 112. To examine the 111210 1121 Examinations 2021/2022
 113. To examine the 111210 1121 Examinations 2021/2022
 114. To examine the 111210 1121 Examinations 2021/2022
 115. To examine the 111210 1121 Examinations 2021/2022

111210 1121 Examinations

- Examinations Department - Business Unit**
1. To examine the 111210 1121 Examinations 2021/2022
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 18. To examine the 111210 1121 Examinations 2021/2022
 19. To examine the 111210 1121 Examinations 2021/2022
 20. To examine the 111210 1121 Examinations 2021/2022

1. **Statements that describe a property of real numbers are called**
2. **axioms for a field.**

Definition for Commutative Group

The inverse of $(G, +)$ is denoted by $(G, +, 0, -)$ and is called a commutative group.

- **For two elements in a system**
- **Commutative Group: zero element**
- **Associativity**
- **Identity element (zero element)**
- **Inverse**
- **Abelian Group**

Definition for Commutative Group

The inverse of $(G, +)$ is denoted by $(G, +, 0, -)$ and is called a commutative group.

- **Commutative Group: zero element**
- **Associativity**
- **Identity element (zero element)**
- **Inverse**
- **Abelian Group**

Definition for Commutative Group

The inverse of $(G, +)$ is denoted by $(G, +, 0, -)$ and is called a commutative group.

- **Commutative Group: zero element**
- **Associativity**
- **Identity element (zero element)**
- **Inverse**
- **Abelian Group**

Definition for Commutative Group

- **The set of all real numbers is a commutative group under addition.**
- **The set of all real numbers is a commutative group under multiplication.**
- **The set of all real numbers is a commutative group under addition and multiplication.**

Learning Objectives

1. The Real Numbers

- 1.1. **Define the Real Number System**
- 1.2. **Define the Real Number System**
- 1.3. **Define the Real Number System**
- 1.4. **Define the Real Number System**
- 1.5. **Define the Real Number System**
- 1.6. **Define the Real Number System**
- 1.7. **Define the Real Number System**
- 1.8. **Define the Real Number System**
- 1.9. **Define the Real Number System**
- 1.10. **Define the Real Number System**

2. The Real Numbers

- 2.1. **Define the Real Number System**
- 2.2. **Define the Real Number System**
- 2.3. **Define the Real Number System**
- 2.4. **Define the Real Number System**
- 2.5. **Define the Real Number System**
- 2.6. **Define the Real Number System**
- 2.7. **Define the Real Number System**
- 2.8. **Define the Real Number System**
- 2.9. **Define the Real Number System**
- 2.10. **Define the Real Number System**

CC 1000

- CC 101 Landscaping: Work on grounds of CC owned facilities (CC)
- CC 102 Ice, Telephone and Cable in (Cable) (CC) Electrical Codes
- CC 103 Insulating: Fiberglass, etc. (CC) Electrical Codes
- CC 104 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 105 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 106 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 107 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 108 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 109 Insulation: Fiberglass, etc. (CC) Electrical Codes
- CC 110 Insulation: Fiberglass, etc. (CC) Electrical Codes

CC 1000

- CC 1000 General: Work on grounds of CC owned facilities (CC)
- CC 1001 General: Work on grounds of CC owned facilities (CC)
- CC 1002 General: Work on grounds of CC owned facilities (CC)
- CC 1003 General: Work on grounds of CC owned facilities (CC)
- CC 1004 General: Work on grounds of CC owned facilities (CC)
- CC 1005 General: Work on grounds of CC owned facilities (CC)
- CC 1006 General: Work on grounds of CC owned facilities (CC)
- CC 1007 General: Work on grounds of CC owned facilities (CC)
- CC 1008 General: Work on grounds of CC owned facilities (CC)
- CC 1009 General: Work on grounds of CC owned facilities (CC)
- CC 1010 General: Work on grounds of CC owned facilities (CC)

CC 1000 Code Table

CC 1000	CC 1001	CC 1002	CC 1003	CC 1004	CC 1005	CC 1006	CC 1007	CC 1008	CC 1009	CC 1010	CC 1011	CC 1012
CC 1000	1	1	1	1	1	1	1	1	1	1	1	1
CC 1001	1	1	1	1	1	1	1	1	1	1	1	1
CC 1002	1	1	1	1	1	1	1	1	1	1	1	1
CC 1003	1	1	1	1	1	1	1	1	1	1	1	1
CC 1004	1	1	1	1	1	1	1	1	1	1	1	1
CC 1005	1	1	1	1	1	1	1	1	1	1	1	1
CC 1006	1	1	1	1	1	1	1	1	1	1	1	1
CC 1007	1	1	1	1	1	1	1	1	1	1	1	1
CC 1008	1	1	1	1	1	1	1	1	1	1	1	1
CC 1009	1	1	1	1	1	1	1	1	1	1	1	1
CC 1010	1	1	1	1	1	1	1	1	1	1	1	1

1. Question

1. Definition

1. **Accounting/Financial Accounting/Controlling**

1. **No points related to the system. (In fact, it is not a)**

2. Definition for Financial Accounting

1. **Accounting is the systematic recording, summarizing and reporting of financial transactions and events.**

1. **Accounting is:**

1. **Recording financial transactions**

1. **Accounting is:**

1. **Accounting is:**

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1. **Accounting is:**

1. **Accounting/Financial Accounting/Controlling**

1. **No points related to the system. (In fact, it is not a)**

2. Definition for Cash accounting

1. **Accounting is:**

1. **Accounting is the systematic recording, summarizing and reporting of financial transactions and events.**

1. **Accounting is:**

1. **Accounting is:**

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Accounting

1. Question

1. **Accounting/Financial Accounting/Controlling**

1. **No points related to the system. (In fact, it is not a)**

1. **Accounting is the systematic recording, summarizing and reporting of financial transactions and events.**

1. **Accounting is:**

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10. **Qualitative Research Design and Data Analysis (Qualitative Components)**

10.1 **Methodology** - Link to Department Website: [10.1.1 Overview](#)

10.1.1 **Introduction**

10.1.1.1 **1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1 Overview](#)

10.1.1.1.1.1 **1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1 **1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1** - Link to Department Website: [10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 Overview](#)

10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 **1.1** - Link to Department Website: [10.1 Overview](#)

10.1 **1.1** - Link to Department Website: [10.1 Overview](#)

10.1 **1.1** - Link to Department Website: [10.1 Overview](#)

10.1 **1.1** - Link to Department Website: [10.1 Overview](#)

10.1 **1.1** - Link to Department Website: [10.1 Overview](#)

Table 1: Summary of Key Concepts

Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Q1	1	2	3	4	5	6	7	8	9	10	11	12	13
Q2	1	2	3	4	5	6	7	8	9	10	11	12	13
Q3	1	2	3	4	5	6	7	8	9	10	11	12	13
Q4	1	2	3	4	5	6	7	8	9	10	11	12	13
Q5	1	2	3	4	5	6	7	8	9	10	11	12	13

Bảng Phân Loại Chương Trình			
Khoa Kỹ Thuật Điện Tử (KTD)			
Mã Số Chương Trình		Tên Chương Trình (Mã Số Chương Trình)	
Mã Số	Tên	Mã Số	Tên
1001	1001	1001	1001

Chương trình này được thiết kế nhằm mục đích đào tạo ra những kỹ sư chuyên môn về lĩnh vực này.

Đối tượng tuyển sinh:

1. Có kiến thức cơ bản về kỹ thuật điện tử.
2. Có năng lực học tập và nghiên cứu.
3. Phải đạt yêu cầu về ngoại ngữ, toán và lý.
4. Không bị mắc bệnh tâm thần.

Đối tượng đào tạo:

Chương trình này nhằm đào tạo ra những kỹ sư chuyên môn.

1. Có kiến thức cơ bản về kỹ thuật điện tử.
2. Có năng lực học tập và nghiên cứu.
3. Phải đạt yêu cầu về ngoại ngữ, toán và lý.
4. Không bị mắc bệnh tâm thần.

Chương Trình Đào Tạo

Chương trình này được thiết kế nhằm mục đích đào tạo ra những kỹ sư chuyên môn về lĩnh vực này.

1. Kiến thức cơ bản về kỹ thuật điện tử.
2. Kiến thức chuyên môn về kỹ thuật điện tử.
3. Kiến thức về các thiết bị điện tử.
4. Kiến thức về các thiết bị điện tử.
5. Kiến thức về các thiết bị điện tử.
6. Kiến thức về các thiết bị điện tử.
7. Kiến thức về các thiết bị điện tử.
8. Kiến thức về các thiết bị điện tử.
9. Kiến thức về các thiết bị điện tử.
10. Kiến thức về các thiết bị điện tử.
11. Kiến thức về các thiết bị điện tử.
12. Kiến thức về các thiết bị điện tử.
13. Kiến thức về các thiết bị điện tử.
14. Kiến thức về các thiết bị điện tử.
15. Kiến thức về các thiết bị điện tử.

Question 14: Multiple Choice

Final Exam - 12 Weeks - Non-Commercial Version

Question ID: 14173222 Question Type: Multiple Choice Question ID: 14173222

Question ID	Points	Percentage Score
14173222	1	83.33%
		100%

Correct Answer:

- 1. To give each firm government the best ability to manage its resources
- 2. To prevent any one firm from using its ability to control resources
- 3. To encourage each firm to use its ability to control resources to its best advantage
- 4. To encourage each firm to use its ability to control resources to its best advantage
- 5. To give each firm the best ability to manage its resources

Correct Answer:

- 1. To give each firm government the best ability to manage its resources
- 2. To prevent any one firm from using its ability to control resources
- 3. To encourage each firm to use its ability to control resources to its best advantage
- 4. To encourage each firm to use its ability to control resources to its best advantage
- 5. To give each firm the best ability to manage its resources

Final Exam

Question ID: 14173222 Question Type: Multiple Choice Question ID: 14173222

- 1. To give each firm government the best ability to manage its resources
- 2. To prevent any one firm from using its ability to control resources
- 3. To encourage each firm to use its ability to control resources to its best advantage
- 4. To encourage each firm to use its ability to control resources to its best advantage
- 5. To give each firm the best ability to manage its resources

Question ID: 14173222 Question Type: Multiple Choice Question ID: 14173222

- 1. To give each firm government the best ability to manage its resources
- 2. To prevent any one firm from using its ability to control resources
- 3. To encourage each firm to use its ability to control resources to its best advantage
- 4. To encourage each firm to use its ability to control resources to its best advantage
- 5. To give each firm the best ability to manage its resources

Question ID: 14173222 Question Type: Multiple Choice Question ID: 14173222

- 1. To give each firm government the best ability to manage its resources
- 2. To prevent any one firm from using its ability to control resources
- 3. To encourage each firm to use its ability to control resources to its best advantage
- 4. To encourage each firm to use its ability to control resources to its best advantage
- 5. To give each firm the best ability to manage its resources

Administrative

1. Focus and organization of the questions

Box 1a 1) **Introduction to Business Strategy (12)** **12 Marks**

- What is strategy? (4) (1 mark) (10)
- Difference between related business (1), Unrelated Business (1) and Pure Strategy (2)
- All types of related business strategies
- 7C system (1 mark) (1 mark) (10)
- Detailed system for determining cost strategy (1 mark) (10)
- Investment in R&D has external validity (1)

Box 1a 2) **Basic Business Strategy and Global Dimensions** **12 Marks**

- Diverse Location (1 mark) (10) (10)
- Geographic Location (1 mark) (10) (10)
- Time Extension (1 mark) (10) (10)
- Strategic Positioning (1 mark) (10) (10)

Learning Objectives

1.1.1

- (1) Identify the value creation function based on the strategy of the firm (10) (10)
- (2) Identify the value creation function based on the strategy of the firm (10) (10)
- (3) Identify the value creation function based on the strategy of the firm (10) (10)
- (4) Identify the value creation function based on the strategy of the firm (10) (10)

1.1.2

- (1) Identify the value creation function based on the strategy of the firm (10) (10)
- (2) Identify the value creation function based on the strategy of the firm (10) (10)
- (3) Identify the value creation function based on the strategy of the firm (10) (10)

1.1.3

- (1) Identify the value creation function based on the strategy of the firm (10) (10)
- (2) Identify the value creation function based on the strategy of the firm (10) (10)
- (3) Identify the value creation function based on the strategy of the firm (10) (10)
- (4) Identify the value creation function based on the strategy of the firm (10) (10)

1.1.4

- (1) Identify the value creation function based on the strategy of the firm (10) (10)
- (2) Identify the value creation function based on the strategy of the firm (10) (10)
- (3) Identify the value creation function based on the strategy of the firm (10) (10)
- (4) Identify the value creation function based on the strategy of the firm (10) (10)

Financial Ratio Analysis			
Exam Question 14 (10 Marks)			
	Current Ratio (11.1/11.1)	Debt Ratio (11.1/11.1)	Capital Gains (11.1/11.1)
Current Ratio	11.1	11.1	11.1
Debt Ratio	11.1	11.1	11.1
Capital Gains	11.1	11.1	11.1

1. Explain the meaning of each of the ratios and what they tell you about the firm.

- The current ratio is a measure of a company's ability to pay off its short-term liabilities.
- The debt ratio is a measure of a company's financial leverage.
- The capital gains ratio is a measure of a company's ability to generate cash flow.
- The current ratio is a measure of a company's liquidity.
- The debt ratio is a measure of a company's risk.
- The capital gains ratio is a measure of a company's profitability.

2. Give reasons.

a. A high current ratio is not always a good thing.

- High current ratio may indicate that the firm is not using its assets efficiently.
- High current ratio may indicate that the firm is not generating enough cash flow.
- High current ratio may indicate that the firm is not investing in growth opportunities.
- High current ratio may indicate that the firm is not taking advantage of trade credit.
- High current ratio may indicate that the firm is not using its credit facilities.
- High current ratio may indicate that the firm is not using its working capital effectively.

Financial Statement Analysis & Ratios

- The purpose of financial statement analysis is to evaluate a company's financial performance.
- Common financial ratios include:
- Current ratio: measures a company's ability to pay off its short-term liabilities.
- Debt ratio: measures a company's financial leverage.
- Capital gains ratio: measures a company's ability to generate cash flow.

3. Give a brief definition of each of the ratios (10 marks) (10 marks)

- Current Ratio: measures a company's ability to pay off its short-term liabilities.
- Debt Ratio: measures a company's financial leverage.
- Capital Gains Ratio: measures a company's ability to generate cash flow.
- Operating Profit Margin: measures a company's profitability.
- Inventory Turnover: measures a company's efficiency in managing its inventory.
- Accounts Receivable Turnover: measures a company's efficiency in collecting its receivables.
- Fixed Assets Turnover: measures a company's efficiency in using its fixed assets.
- Dividend Payout Ratio: measures a company's policy on paying dividends.

4. Give a brief definition of each of the ratios (10 marks) (10 marks)

- Current Ratio: measures a company's ability to pay off its short-term liabilities.
- Debt Ratio: measures a company's financial leverage.
- Capital Gains Ratio: measures a company's ability to generate cash flow.
- Operating Profit Margin: measures a company's profitability.
- Inventory Turnover: measures a company's efficiency in managing its inventory.
- Accounts Receivable Turnover: measures a company's efficiency in collecting its receivables.
- Fixed Assets Turnover: measures a company's efficiency in using its fixed assets.
- Dividend Payout Ratio: measures a company's policy on paying dividends.

1. Determine total period (20)
2. Group/Unit/strand assignments (Strand 1: 14, Strand 2: 6)
3. Identify days for unit assignments (Monday to Friday: 5 days)
4. Consider any special days (holidays)
5. Determine possible unit assignments
6. Determine possible 12-14 day assignments
7. Determine possible 6-7 day assignments

Learning Objectives

1. Unit 1: 14 days
2. Unit 2: 6 days
3. Strand 1: 14 days
4. Strand 2: 6 days
5. Strand 1: 14 days (Strand 1: 14 days, Strand 2: 6 days)
6. Unit 1: 14 days (Strand 1: 14 days, Strand 2: 6 days)
7. Unit 2: 6 days (Strand 1: 14 days, Strand 2: 6 days)
8. Unit 1: 14 days (Strand 1: 14 days, Strand 2: 6 days)
9. Unit 2: 6 days (Strand 1: 14 days, Strand 2: 6 days)

12-14 Day

Code	Str 1	Str 2	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11
001	1	1	1	1	1	1	1	1	1	1	1	1	1
002	1	1	1	1	1	1	1	1	1	1	1	1	1
003	1	1	1	1	1	1	1	1	1	1	1	1	1
004	1	1	1	1	1	1	1	1	1	1	1	1	1
005	1	1	1	1	1	1	1	1	1	1	1	1	1
006	1	1	1	1	1	1	1	1	1	1	1	1	1
007	1	1	1	1	1	1	1	1	1	1	1	1	1
008	1	1	1	1	1	1	1	1	1	1	1	1	1
009	1	1	1	1	1	1	1	1	1	1	1	1	1
010	1	1	1	1	1	1	1	1	1	1	1	1	1
011	1	1	1	1	1	1	1	1	1	1	1	1	1
012	1	1	1	1	1	1	1	1	1	1	1	1	1
013	1	1	1	1	1	1	1	1	1	1	1	1	1
014	1	1	1	1	1	1	1	1	1	1	1	1	1
015	1	1	1	1	1	1	1	1	1	1	1	1	1
016	1	1	1	1	1	1	1	1	1	1	1	1	1
017	1	1	1	1	1	1	1	1	1	1	1	1	1
018	1	1	1	1	1	1	1	1	1	1	1	1	1
019	1	1	1	1	1	1	1	1	1	1	1	1	1
020	1	1	1	1	1	1	1	1	1	1	1	1	1

Environmental Footprints			
Total Time: 15 minutes			
Group Size:	20-25	20-25	20-25
Task 1:	10	10	10
Task 2:	5	5	5

Group 1: The Environment

Task 1

1. What are the main causes of global warming?
2. How can we reduce our carbon footprint?
3. What are the benefits of renewable energy?
4. How can we protect the environment from pollution?
5. What are the most effective ways to reduce plastic waste?

Group 2: The Environment

Task 1: The Environment

10

10

1. What are the main causes of global warming?
2. How can we reduce our carbon footprint?

Task 2

1. What are the benefits of renewable energy?
2. How can we protect the environment from pollution?
3. What are the most effective ways to reduce plastic waste?

Group 3: The Environment

10

1. What are the main causes of global warming?
2. How can we reduce our carbon footprint?

3. What are the benefits of renewable energy?
4. How can we protect the environment from pollution?

10

1. What are the most effective ways to reduce plastic waste?

1. The year 1776 is significant in American history because it marks the birth of the United States as an independent nation.
 - a. The Declaration of Independence was signed on July 4, 1776, in Philadelphia, Pennsylvania.
2. The year 1776 is also significant because it marks the beginning of the American Revolutionary War.
 - a. The war began on April 19, 1775, with the Battle of Lexington and Concord.
3. The year 1776 is also significant because it marks the end of British rule in North America.
 - a. The British evacuated New York City and fled to Canada in September 1783.
4. The year 1776 is also significant because it marks the beginning of the American nation.
 - a. The first President of the United States, George Washington, was inaugurated on September 17, 1789.

- 6. [College of Arts and Sciences](#)
- 7. [College of Business Administration](#)
- 8. [College of Education](#)
- 9. [College of Health and Human Services](#)
- 10. [College of Science](#)
- 11. [College of Social Work](#)

College of Business

BA Programs

- BA [Business Administration](#), B.S. [Business Administration](#)
- BA [Marketing and Management](#), B.S. [Marketing and Management](#)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)

BA Programs

- BA [Business Administration](#), B.S. [Business Administration](#)
- BA [Business Administration](#) and [International Management](#), B.S. [Business Administration](#) and [International Management](#)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#), B.S. [Business Administration](#)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)

BA Programs

- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)

BA Programs

BA Programs (BA/BS) Programs

BA Programs (BA/BS) Programs

- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)
- BA [Business Administration](#) (General), B.S. [Business Administration](#) (General)

2024-25 Academic Catalog

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
BA											
BS											
BA/BS											
BA											

Savitribai Phule Pune University, Pune

Mentoring Unit



Task Force for Curriculum Design and Development

Energy Liberalization and Conservation

Dr. J. B. Sawant, Member, Board of Studies, Electrical Engineering

Core Committee members

Dr. R. S. Joshi	Former IIT Bombay (Electrical Engineering)
Dr. P. A. Kulkarni	Former IIT Bombay (Electrical Engineering)
Dr. A. J. Joshi	Dr. Vikhite Yashwantrao Mahavidyalaya, Dhule (Electrical Engineering)
Dr. A. S. Joshi	Industrial Institute of Technology, Lucknow
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Dr. S. S. Sawant	IICT (IIT) & NITRR, Pune
Dr. J. B. Sawant	Member, Board of Studies, Pune

Faculty Members for Course Design

Electrical Engineering & Instrumentation	
Dr. S. S. Sawant	Dr. Vikhite Yashwantrao Mahavidyalaya, Dhule (Electrical Engineering)
Dr. P. A. Kulkarni	IICT (IIT) Bombay (Electrical Engineering)
Dr. A. J. Joshi	IICT (IIT) Bombay & IIT, Roorkee (Electrical Engineering, Pune)
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Energy and Energy Conversion	
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Dr. S. S. Sawant	IICT (IIT) Bombay (Electrical Engineering)
Dr. A. S. Joshi	Industrial Institute of Technology, Lucknow
Dr. J. B. Sawant	Dr. Vikhite Yashwantrao Mahavidyalaya, Dhule (Electrical Engineering)
Power System Engineering I	
Dr. T. S. Joshi	IICT (IIT) Bombay (Electrical Engineering, Pune)
Dr. D. T. Tapaswar	Government College of Engineering, Dhule (Electrical Engineering)
Dr. A. J. Joshi	IICT (IIT) Bombay & IIT, Roorkee (Electrical Engineering, Pune)
Dr. S. S. Sawant	Dr. Vikhite Yashwantrao Mahavidyalaya, Dhule (Electrical Engineering)
Electrical Machines I & II	
Dr. A. S. Joshi	Industrial Institute of Technology, Lucknow
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Dr. A. J. Joshi	IICT (IIT) Bombay (Electrical Engineering)
Electrical Machines	
Dr. A. S. Joshi	Industrial Institute of Technology, Lucknow
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Dr. A. J. Joshi	IICT (IIT) Bombay (Electrical Engineering)
Electrical Machines II	
Dr. A. S. Joshi	Industrial Institute of Technology, Lucknow
Dr. D. T. Tapaswar	Government College of Engineering, Dhule
Dr. A. J. Joshi	IICT (IIT) Bombay (Electrical Engineering)

General Education: 5 Required Units	
ENGL 1010	ENGL 1020 (English as a Second Language)
Learn: General Education: 10 Required Units	
ENGL 1010	ENGL 1020 (English as a Second Language)
ENGL 1010	ENGL 1020 (English as a Second Language)
ENGL 1010	ENGL 1020 (English as a Second Language)
General Education:	
ENGL 1010	ENGL 1020 (English as a Second Language)
ENGL 1010	ENGL 1020 (English as a Second Language)
ENGL 1010	ENGL 1020 (English as a Second Language)
ENGL 1010	ENGL 1020 (English as a Second Language)
General Education and University Programing	
ENGL 1010	ENGL 1020 (English as a Second Language)
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