



Vidyavardhini's
A.V. College of Arts, K.M. College of Commerce & E.S.A. College of
Science, Vasai Road (W) 401202

10 Dec. 2023

Certificate Courses: 2022-2023

Please find attached the details of the certificate courses conducted by the college.

1. Certificate Course details conducted by the Department of Bachelor of Management Studies (BMS) on **Logistics and Supply Chain Management**
2. Certificate Course details conducted by the Department of Biotechnology **Elementary Course on Mathematics and Statistics**


Principal
PRINCIPAL
VIDYAVARDHINI'S A. V. COLLEGE OF
ARTS, K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
VASAI ROAD, DIST. PALGHAR
MAHARASHTRA - 401 202.

Vidyavardhini's

Annasaheb Vartak College of Arts, Kedarnath Malhotra College of Commerce & E. S.
Andrades College of Science, Vasai Rd. west, Palghar-401202

APPROVAL LETTER

To,

Date: 04/08 /2022

The HOD,

B. M. S.

As per your application dated 01/08/2022, this is to inform you that the Bridge course/Certificate course is approved. You can start the course for the fruitful outcome. Also try to enrol maximum number of students for this course.

Mate

IQAC Coordinator

IQAC CO-ORDINATOR

VIDYAVARDHINI'S
A. V. COLLEGE OF ARTS
K. M. COLLEGE OF COMMERCE,
E. S. A. COLLEGE OF SCIENCE,
Vasai Road, Dist. Palghar - 401 202.

[Signature]
PRINCIPAL

VIDYAVARDHINI'S A. V. COLLEGE OF
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VASAI ROAD, DIST. PALGHAR
MAHARASHTRA - 401 202.

Syllabus for certificate course

Logistics & Supply Chain Management (30 hrs)

Week 1: Introduction to Logistics and Supply Chain Management (3 hours)

- Definition and importance of logistics and supply chain management
- Historical development and evolution of logistics and supply chain management
- Key components and functions in a supply chain
- Supply chain challenges and opportunities

Week 2: Supply Chain Strategy (3 hours)

- Strategic planning in supply chain management
- Competitive advantages through effective supply chain strategies
- Aligning supply chain with business goals
- Supply chain risk management

Week 3: Demand Forecasting and Inventory Management (4 hours)

- Types of demand forecasting methods
- Inventory control and optimization
- Safety stock and reorder point calculations
- JIT (Just-In-Time) and EOQ (Economic Order Quantity)

Week 4: Transportation and Distribution (4 hours)

- Modes of transportation (road, rail, air, sea)
- Carrier selection and management
- Route optimization and logistics network design
- Last-mile delivery and urban logistics

Week 5: Warehousing and Material Handling (4 hours)

- Types of warehouses and their functions
- Warehouse layout and design
- Material handling equipment and technology
- Warehouse management systems (WMS)

Week 6: Procurement and Supplier Relationship Management (3 hours)

- Strategic sourcing and supplier selection
- Supplier evaluation and performance measurement
- Negotiation and contract management



- Supplier collaboration and risk mitigation

Week 7: Information Technology in Supply Chain Management (3 hours)

- Role of technology in supply chain optimization
- Enterprise Resource Planning (ERP) and its supply chain modules
- Internet of Things (IoT) and sensor technology
- Data analytics and supply chain visibility

Week 8: Sustainability and Ethical Considerations (2 hours)

- Sustainable supply chain practices
- Environmental and social responsibility
- Ethical issues in supply chain management

Week 9: Global Supply Chain Management (3 hours)

- Challenges and opportunities in global supply chains
- International logistics and documentation
- Incoterms and trade compliance
- Cultural and regulatory considerations

Week 10: Case Studies and Practical Applications (1 hours)

- Analysis of real-world supply chain challenges and solutions
- Group discussions and presentations
- Guest speakers from the industry (if possible)

Week 11: Final Exam and Review (1 hours)

- Review of course materials
- Assessment



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Certificate Course: Logistics & Supply Chain Management		
		Date: 11/8/22
		Time: 11.30 - 1.30
Sr No.	NAME	SIGN
1	Nikhil Sisodiya	Nikhil
2	Ansh Chaudhary	Ansh
3	Pooja Pawar	Pooja
4	Grindeti Aarthi	Grindeti
5	Durvesh Chaudhari	Durvesh
6	Sarab Alhake	Sarab
7	Pranav Shelar	Pranav
8	Rohit S. Poojary	Rohit S
9	Prashant. Ban	Prashant
10	Akshata Patil	Akshata
11	Pragati Vishe	Pragati
12	Janhavi Vaity	JANHAVI V
13	Soniya Dhumal	Soniya
14	Madhura Makare	Madhura
15	Neha Khedekar	Neha
16	Swara Raut	Swara
17	Janhavi Dubey	Janhavi
18	Bonam T. Yadav	Bonam
19	Anchal Kamble	Anchal
20	Misty Ayush	Misty

[Signature]
11/8/22



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Certificate Course: Logistics & Supply Chain Management

Date: 11/8/22

Time: 11:30 - 1:30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	
2	Aash Chavhan	
3	Pooja Pawar	
4	Grindeti Aarthi	
5	Dinesh Chaudhari	
6	Saras Alhake	
7	Pranav Shelar	
8	Rohit S. Poojary	
9	Prashant. Bari	
10	Akshata Patil	
11	Pragati Vishe	
12	Janhavi Vaitu	
13	P. Soniya Dhumal	
14	Madhura Makare	
15	Neha Khedekar	
16	Swara Raut	
17	Janhavi Dubey	
18	Sonam J. Yadav	
19	Anchal Kamble	
20	Misty Ayush	

11/8/22



Certificate Course: Logistics & Supply Chain Management

Date: 13/8/22

Time: 11.30 - 1.30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	Nikhil
2	Ansh Chaughany	Ansh
3	Dinesh Chaudhary	Dinesh
4	Sarab Mhatre	Sarab
5	Pranav Shinde	Pranav
6	Payal Pooni	Payal
7	Grudeti Arathi	Grudeti
8	Rohit S. Poojary	Rohit S
9	Nishy Ajush	Nishy
10	Prashant Beni	Prashant
11	Akshata Patil	Akshata
12	Pragati Vishe	Pragati
13	Jankavi Vaity	Jankavi
14	Neha Khedekar	Neha
15	Madhura Makasee	Madhura
16	Soniya Dhumal	Soniya
17	Sorany T. Yadav	Sorany
18	Suvara Raut	Suvara
19	Jankavi Dubey	Jankavi
20	Anchal Kamble	Anchal

✓
13/8/22



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E.S.A. COLLEGE OF SCIENCE, VASAI ROAD, DIST - PALGHAR 401 202

Certificate Course: Logistics & Supply Chain Management

Date: 17/8/22

Time: 11:30 - 1:30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	Nikhil
2	Saransh T. Yadav	Saransh
3	Janhavi Dubey	Janhavi
4	Susara Raut	Raut
5	Anchal Kamble	Anchal
6	Neha Kholekar	Neha
7	Madhura Makasee	Madhura
8	Daniya Dhumal	Daniya
9	Akshata Pawar	Akshata
10	Pragati Vishe	Pragati
11	Janhavi Vaidy	JANHAVI
12	Rashant. Ben	Rashant
13	Misty Ayush	Misty
14	Rohit S. Poojary	Rohit
15	Grudeti Aarthi	Grudeti
16	Payal Poojary	Payal
17	Ansh Chaudhary	Ansh
18	Bhraw Shalase	Bhraw
19	Darvesh Chaudhary	Darvesh
20	Saras Matre	Saras

✓
17/8/22



Certificate Course: Logistics & Supply Chain Management

Date: 19/8/22

Time: 11:30 to 1:30

Sr No.	NAME	SIGN
--------	------	------

1.	Janhavi Dubey	Janhavi
2.	Swara Raut	Swara
3.	Sonam T. Yadav	Sonam
4.	Anchal Kamble	Anchal
5.	Neha Khedekar	Neha
6.	Madhura Makare	Madhura
7.	Sonika Dhumal	Sonika
8.	Janhavi Vaitte	Janhavi
9.	Pragati Vishe	Pragati
10.	Akshata Patil	Akshata
11.	Prashant. Boni	Prashant
12.	Rohit. S. Poojary	Rohit
13.	Mishy. Ayush	Mishy
14.	Gundeti Aarthi	Aarthi
15.	Payal Pawar	Payal
16.	Pranav Shelar	Pranav
17.	Ansh Chaudhary	Ansh
18.	Durvesh Chaudhary	Durvesh
19.	Sareh Akhate	Sareh
20.	Nikhil Sisodiya	Nikhil

✓
19/8/22



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Certificate Course: Logistics & Supply Chain Management

Date: 24/8/22
 Time: 11-30 - 1-30

Sr No.	NAME	SIGN
1	Nikhil Girdiya	<i>[Signature]</i>
2	Durvesh Chaudhari	<i>[Signature]</i>
3	Sahab Motare	<i>[Signature]</i>
4	Rohit S. Poojary	<i>[Signature]</i>
5	Mishra Ayush	<i>[Signature]</i>
6	Payal Pawar	<i>[Signature]</i>
7	Gundeti Aarthi	<i>[Signature]</i>
8	Pranav Shilar	<i>[Signature]</i>
9	Ash Chaudhary	<i>[Signature]</i>
10	Janhavi Dubey	<i>[Signature]</i>
11	Swarra Raut	<i>[Signature]</i>
12	Senam T. Yadav	<i>[Signature]</i>
13	Anchal Kamble	<i>[Signature]</i>
14	Prushant Beni	<i>[Signature]</i>
15	Janhavi Vaitu	<i>[Signature]</i>
16	Poojati Vishu	<i>[Signature]</i>
17	Akshata Patil	<i>[Signature]</i>
18	Neha Khedekar	<i>[Signature]</i>
19	Madhura Makare	<i>[Signature]</i>
20	Soniya Dhumal	<i>[Signature]</i>

[Signature]
24/8/22



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Certificate Course: Logistics & Supply Chain Management

Date: 6/9/22
 Time: 11:30 - 1:30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	
2	Ansh Chauchary	
3	Payal Powar	
4	Gundeti Arathi	
5	Rohit S. Poojary	
6	Nishi Ayush	
7	Pragati Vishe	
8 to 9	Akshata Paril	
9	Madhura Makase	
10	Saniya Dhumal	
11	Neha Khedekar	
12	Janhavi Dubey	
13	Swarna Raut	
14	Vasam T. Yadav	
15	Janhavi Vaitly	
16	Bushant Bon	
17	Irandu Shelar	
18	Durvesh Chaudhari	
19	Sarad Mhatre	
20	Anchal Kamble	

6/9/22



Certificate Course: Logistics & Supply Chain Management

Date: 8/9/22

Time: 11:30-1:30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	Nikhil
2	Dimple Chaudhari	D
3	Sagar Mhatre	Sagar
4	Pranav Shelkar	P
5	Pooja Pawar	Pooja
6	Grudeti Arathi	Grudeti
7	Mishra Ayush	Mishra
8	Robit S. Poojary	Robit S
9	Rushant Buri	Rushant
10	Akshata Patil	Akshata
11	Pragati Vishe	Pragati
12	Janhavi Vaitly	JANHAVI.V.
13	Neha Khedekar	Neha
14	Madhura Makare	Madhura
15	Soniya Thumal	Soniya
16	Anchal Kambale	Anchal
17	Sonam J. Yadav	Sonam
18	Swarna Raut	Swarna
19	Janhavi Dubey	Janhavi
20	Ansh Chaudhary	Ansh



8/9/22

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Certificate Course: Logistics & Supply Chain Management		
		Date: 14/9/22
		Time: 120-130
Sr No.	NAME	SIGN
1	Nikhil G. Sodhiya	
2	Saksh Mhatre	
3.	Durvesh Chaudhan	
4.	Ansh Chauhan	
5.	Bhanshu Shobhar	
6	Payal Pawar	
7.	Grindeti Aarti	
8	Nishu Anush	
9	Rohit S. Poojary	
10	Prashant. Bari	
11.	Akshata Patil	
12]	Poojari Vishe	
13	Janhavi Vaity	
14	Neha Khedekar	
15.	Soniya Dhamal	
16.	Madhura Makare	
17.	Anchal Kamble	
18	Sanam T. Yadav	
19	Suama Raut	
20	Janhavi Dubey	



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Certificate Course: Logistics & Supply Chain Management		
		Date: 15/9/22
		Time: 11.30-1.30
Sr No.	NAME	SIGN
1	Nikhil Sisodiya	<i>Nikhil</i>
2	Swara Raut	<i>Swara</i>
3	Soram J. Yadav	<i>Soram</i>
4	Tanhai Dubey	<i>Tanhai</i>
5	Anchal Kambale	<i>Anchal</i>
6	Neha Khodekar	<i>Neha</i>
7	Madhura Makare	<i>Madhura</i>
8	Saniya Dhumal	<i>Saniya</i>
9	Akshada Patil	<i>Akshada</i>
10	Pragati Visha	<i>Pragati</i>
11	Krushant Beni	<i>Krushant</i>
12	Nistya Ayush	<i>Nistya</i>
13	Rohit S. Poojary	<i>Rohit</i>
14	Grundeti Parthi	<i>Grundeti</i>
15	Pooja Pooja	<i>Pooja</i>
16	Ansh Chaudhary	<i>Ansh</i>
17	Yashu Shelar	<i>Yashu</i>
18	Saras Alhatre	<i>Saras</i>
19	Dumesh Chaudhari	<i>Dumesh</i>
20	Krushant Beni	<i>Krushant</i>



K
15/9/22

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Certificate Course: Logistics & Supply Chain Management		
		Date: 16/9/22
		Time: 11:30 - 1:30
Sr No.	NAME	SIGN
1	Nikhil .Sisodiya	Nikhil
2	Ansh Chauchang	Ansh
3	Sarab Mhatre	Sarab
4	Darsh Chaudhari	Darsh
5	Pranav Shelar	Pranav
6	Payal Pawar	Payal
7	Giandeti, Aarthi	Aarthi
8	Prashant Bani	Prashant
9	Rohit S. Poojary	Rohit S
10	Misty Agush	Misty
11	Akshata Patil	Akshata
12	Pragati Vishe	Pragati
13	Janhavi Vaity	JANHAVI V
14	Neha Khatekar	Neha
15	Soniya Dhumal	Soniya
16	Madhura Makasee	Madhura
17	Anchal Kamble	Anchal
18	Sarany T-Yadav	Sarany
19	Suama Raut	Suama
20	Janhavi Dubey	Janhavi



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16/9/22

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Certificate Course: Logistics & Supply Chain Management		
		Date: 17/9/22
		Time: 11.30 - 1.30
Sr No.	NAME	SIGN
1	Nikhil Sisodiya	
2	Ansh Chauhan	
3	Durvesh Chandani	
4	Sarav Mhatre	
5	Pranav Natar	
6	Payal Pawar	
7	Gundeti Arathi	
8	Rohit S. Poojary	
9	Nistya Ayush	
10	Prashant Ban	
11	Akshata Patel	
12	Pragati Vishe	
13	Janhari Vaitly	
14	Neha Khedekar	
15	Madhura Makare	
16	Soniya Dhumal	
17	Anchal Kamble	
18	Sonam T. Yadav	
19	Swarna Raut	
20	Janhari Dubey	



17/9/22

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Certificate Course: Logistics & Supply Chain Management		
		Date: 21/9/22
		Time: 11:30 - 1:30
Sr No.	NAME	SIGN
1	Nikhil Sisodiya	Nikhil
2	Ansh Chaudhary	Ansh
3	Piyal Poores	Piyal
4	Crundeti Aarthi	Aarthi
5	Misty Akush	Misty
6	Rohit S. Poojary	Rohit P
7	Dunesh Chaudhary	Dunesh
8	Sahas Akhate	Sahas
9	Prerav. Shelar	Prerav
10	Prashant. Bari	Prashant
11	Akshate Pari	Akshate
12	Poojari Vishe	Poojari
13	Janhavi Vaitly	JANHAVI
14	Neha Khedekar	Neha
15	Madhusen Makare	Madhusen
16	Soniya Dhurnal	Soniya
17	Anchal Kamble	Anchal
18	Sonam T. Yadav	Sonam
19	Suvarna Raut	Suvarna
20	Janhavi Dubey	Janhavi



✓
21/9/22

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Certificate Course: Logistics & Supply Chain Management

Date: 22/9/22
Time: 11.30 - 1.30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	
2	Dinesh Ebraudhari	
3	Saras Mhatre	
4	Ansh Chauhan	
5	Priyanshu Dhanu	
6	Pooja Power	
7	Gurdeep Aarshi	
8	Rohit S. Poojar-y	
9	Mishy Ajush	
10	Rashmi Ban	
11	Akshata Paril	
12	Poojati vishe	
13	Janhavi Vaitly	
14	Neha Khedkar	
15	Soniya Dhumal	
16	Madhura Makare	
17	Anchal Kamble	
18	Sonam T. Yadav	
19	Suvarra Raut	
20	Janhavi Dubey	



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E.S.A. COLLEGE OF SCIENCE, VASAI ROAD, DIST - PALGHAR 401 202

Certificate Course: Logistics & Supply Chain Management

Date: 23/9/22
Time: 11:30 - 1:30

Sr No.	NAME	SIGN
1	Nikhil Sisodiya	<i>Nikhil</i>
2	Ansh Chavhan	<i>Ansh</i>
3	Pranav Shinde	<i>Pranav</i>
4	Dinesh Chaudhari	<i>Dinesh</i>
5	Sarab Mhatre	<i>Sarab</i>
6	Payal Pawar	<i>Payal</i>
7	Utandeti Adarsh	<i>Adarsh</i>
8	Misty Ayush	<i>Misty</i>
9	Rohit S. Bhojary	<i>Rohit</i>
10	Bushant. Boni	<i>Bushant</i>
11	Akshata Patil	<i>Akshata</i>
12	Pragati Vishe	<i>Pragati</i>
13	Janhavi Vaitly	<i>Janhavi</i>
14	Neha Khedekar	<i>Neha</i>
15	Madhura Makare	<i>Madhura</i>
16	Soniya Dhumal	<i>Soniya</i>
17	Anirudh Kamble	<i>Anirudh</i>
18	Sonam T. Yadav	<i>Sonam</i>
19	Suvarna Raut	<i>Suvarna</i>
20	Janhavi Dubey	<i>Janhavi</i>



Ju
23/9/22

ASSESSMENT

Select the right answers to the Multiple-Choice Questions (MCQs)

20 Marks

Name of the Student- _____
Class- _____
Signature- _____

Marks Obtained: _____
Examiner's Sign- _____

- 1. What is the primary goal of supply chain management?**
a. Maximizing customer satisfaction b. Minimizing costs c. Maximizing sales d. Minimizing lead times
- 2. Which of the following is a key component of logistics management?**
a. Supplier selection b. Marketing strategy c. Inventory forecasting d. Employee training
- 3. In the context of supply chain management, what does "lead time" refer to?**
a. The time it takes to produce a product b. The time it takes for goods to reach the customer after ordering c. The time it takes for a product to sell out d. The time it takes for a supplier to respond to an inquiry
- 4. What is the primary purpose of safety stock in inventory management?**
a. To maintain high inventory turnover b. To prevent stock outs during unexpected demand spikes or supply disruptions c. To reduce carrying costs d. To maximize storage space utilization
- 5. Which of the following is a key factor in demand forecasting for supply chain planning?**
a. Historical sales data b. Supplier discounts c. Employee availability d. Marketing budget
- 6. What does the acronym RFID stand for in the context of supply chain management?**
a. Radio Frequency Identification b. Rapid File Delivery c. Retailer Fulfillment and Distribution d. Reverse Flow and Inventory Distribution
- 7. Which inventory management approach aims to minimize inventory levels while still meeting customer demand?**
a. Just-in-Time (JIT) b. Economic Order Quantity (EOQ) c. First-In-First-Out (FIFO) d. Last-In-First-Out (LIFO)
- 8. What is the primary goal of the "bullwhip effect" in supply chain management?**
a. To reduce demand fluctuations up the supply chain b. To increase lead times c. To amplify demand d. To reduce inventory carrying costs
- 9. Which document is used in international logistics to specify the type and quantity of goods being shipped and their value for customs purposes?**
a. Invoice b. Bill of Lading c. Certificate of Origin d. Packing List
- 10. In supply chain management, what is "cross-docking"?**
a. A shipping method involving crossing borders without customs checks b. A strategy for minimizing transportation costs by consolidating shipments in a central hub c. A technology for tracking inventory in real-time d. A type of reverse logistics process



ANSWER KEY ASSESSMENT

1. B
2. A
3. B
4. B
5. A
6. A
7. A
8. C
9. A
10. B



Feedback Form for Course on Logistics Supply & Management

Name of Student- _____

Class- _____

1. Did you find the course helpful?

- Yes
- No

2. Were you able to understand the basics of Logistics & Supply Chain Management clearly?

- Yes
- No

3. Do you think this course will help you to prepare yourself for learning further concepts related to the subject?

- Yes
- No

4. What do you think of the teaching method adopted by the teacher?

- Excellent
- Very Good
- Good
- Fair
- Poor

5. Were all your doubts clarified by the teacher during the course?


- Yes
- No

6. How would you rate the course on a scale of 1 to 5?

1- Not helpful, 2- Fairly helpful, 3 - Helpful, 4- Strongly helpful, 5- Very helpful



Signature- _____

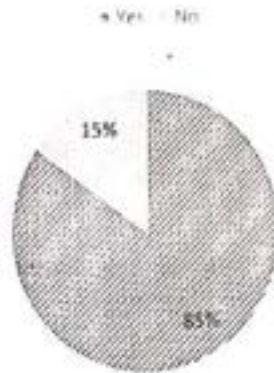

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VIDYAVARDHINI'S A. V. COLLEGE OF
ARTS, K. M. COLLEGE OF SCIENCE
E. S. A. COLLEGE OF COMMERCE
VASAJ ROAD, DIST. PALGHAR
MAHARASHTRA - 401 202.

Feedback Analysis

Q. 1 Did you find the course helpful?

Response	Nos	Percentage	
Yes	17	85%	
No	3	15%	
Total	20		

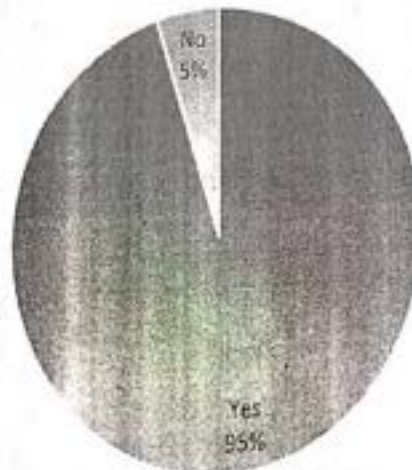
IS COURSE HELPFUL



Q. 2 Were you able to understand the basics of Logistics & Supply Chain Management clearly?

Response	Nos	Percentage	
Yes	19	95%	
No	1	5%	
Total	20		

Logistic & Supply Chain

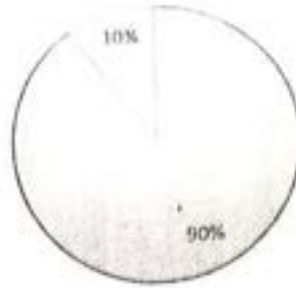


Q. 3

Do you think this course will help you to prepare yourself for learning

Response	Nos	Percentage	
Yes	18	106%	
No	2	12%	
Total	20		

Concepts Related to Subject

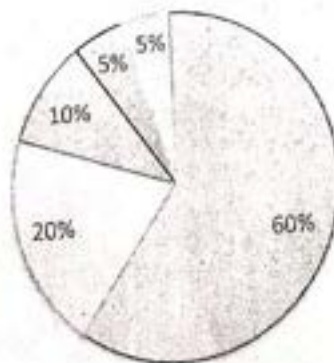


Yes No

4 How did you find the teaching method of the teacher for the course?

Response	Nos	Percentage	
Excellent	12	60%	
very Good	4	20%	
Good	2	10%	
Fair	1	5%	
Poor	1	5%	
Total	20		

Teaching Method of Teacher



Excellent very Good Good Fair Poor



Q. 5

Were all your doubts clarified by the teacher during the course?

Response	Nos	Percentage
Yes	16	94%
No	4	24%
Total	20	

Doubt Clarification



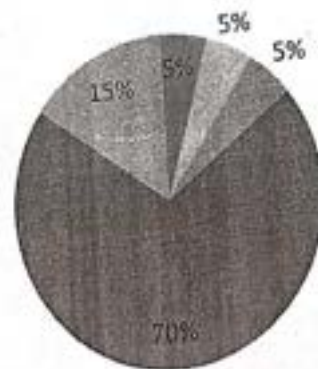
Q. 6

How would you rate the course on a scale of 1 to 5?

Response	No	Perc
Not helpful	1	5%
Fairly helpfu	1	5%
Helpful	1	5%
Strongly hel	14	70%
Very helpful	3	15%
Total	20	

Course Rating

■ Not helpful ■ Fairly helpful ■ Helpful ■ Strongly helpful ■ Very helpful





**Department of BMS
Vidyavardhini's, Annasaheb Vartak
College, Vasai Road, Palghar-401 202.**

"Certificate Course on Logistics & Supply Chain Management"

Certificate

is presented to

Student of Department of Bachelor of Management Studies, Vidyavardhini's, Annasaheb Vartak College, Vasai Road, Palghar-401202 for participation in "Certificate Course on Logistics & Supply Chain Management" a 30 Hours Course during August and September 2022.

**Dr. Mrs. Abhilasha
Magar
Convener**

**Mrs. Bhavana Chauhan
Course Coordinator**

**Mrs. Srimathi Narayanan
Unaided Course Incharge**

**Dr. Mrs. Deepa Katre
IQAC Coordinator**

**Dr. A.W. Ubale
Principal**



PRINCIPAL
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VIDYAVARDHINI'S
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And Junior Colleges
NAAC Accredited B++ Grade

Prin. Dr. Arvind W. Ubale
M.Com., MSW (TISS), MMS,
D.B.M., Ph.D.

Residence :
A-201, Ajanta Park, Behind Amber Hotel,
Near Shahad Rly. Station, Kalyan (W),
Dist. Thane, Pin - 421 103.
Mobile : 7718802963

Vasai Road (West) - 401 202, Dist. Palghar, Maharashtra. ☎ : 0250 - 2332017
Email : t23avcollegevasai@gmail.com • Website : www.avc.ac.in

Ref. No. : AVC/MU Enrol/269/2023-2024

OIC

November 4, 2023
Date : _____

To
The Deputy Registrar
University of Mumbai,
Enrolment Section
'Vidyanagari' Santacruz (East)
Mumbai - 400 098

Sir,

Sub: Submission of report of Elementary Course in Mathematics & Statistics
First Year B.Sc. (Biotechnology) students Academic Year 2022-2023
(Under Ordinance No. UG/282/2007 Dated 16th June 2007)

With reference to the above subject, I have to inform you that we have admitted total 22 students to the F.Y. B.Sc. (Biotechnology) class for the Academic Year 2022-2023 without Mathematics as one of the subjects at the H.S.C. Exam.

We have conducted Elementary Course in Mathematics & Statistics for these students as per Ordinance No. UG/282/2007 Dated 16th June.

I request you to accept relevant documents of this report for further process of their confirmation of enrolment for the academic year 2022-2023.

Thanking you,

Yours faithfully,



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ELEMENTARY COURSE IN MATHEMATICS AND STATISTICS.

Max. Marks : 50

- Instructions : 1) Q. 1 is compulsory.
2) Attempt any TWO sub questions from Q. 2 to Q. 5.
3) Each question is of 10 marks.

Q. 1 Choose the correct option.

a) Derivative of exponential function e^x is

- i) 0 ii) 1 iii) e^x iv) $\log x$.

b) An equation of the form $f(x) = k$, is calledfunction.

- i) Constant ii) exponential iii) trigonometric iv) quadratic.

c) Find mean. Given X: 0, 3, 5, 7, 9, 12

- i) 2 ii) 3 iii) 6 iv) 10

d) What are the outcomes when a dice is thrown twice?

- i) 6 ii) 36 iii) 0 iv) infinity.

e) Decile is a method that is used to divide a distribution into equal parts.

- i) 0 ii) 1 iii) 10 iv) 100.

Q 2 a) Explain the term series and sequence with suitable example.

b) Evaluate $\lim_{x \rightarrow 1} \frac{x^2 + 3x + 2}{x + 1}$ 3

c) If $f(x) = x^3 + 10x + 100$, then find the value of i) $f(1)$ ii) $f(1/2)$.

Q 3 a) Evaluate $\int \frac{x^2 - 2x + 1}{x - 1} dx$.

111 105.25

b) Differentiate the following w.r.t. x i) $Y = x^{10} + 10^x + e^x$ ii) $Y = x \cdot e^x$.

c) Find the sum of first 50 natural numbers and whole numbers.

1275/1025

$\frac{x^2}{2} + x + c$

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Q 4 a) Write advantages and disadvantages of median and mode.

b) Draw Histogram for the following data.

Class-mark	10-30	30-50	50-70	70-90	90-110
Frequency	4	7	10	6	4

c) Find standard deviation for the following data.

X	5	10	15	20	25
f	2	5	8	5	3

Q 5 a) Explain the term probability.

b) Find expectation and variance for the following probability distribution.

X	2	4	6	8
Probability	0.2	0.25	0.25	0.3

c) Two dice are thrown simultaneously. Find the probability that the sum of the uppermost faces is i) exactly 12 ii) less than 3.

$E(X) = 5.3$
 $V(X) = 3.3$
 $V(X) = 4.9$

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ATTENDANCE SHEET FOR STUDENTS
F.Y. B.Sc. (BIOTECHNOLOGY) ELEMENTARY COURSE IN
MATHEMATICS & STATISTICS
(15 HRS.)

Sr. No.	Roll No.	Name of Student	Dates							
			13/12/21	14/12/21	15/12/21	16/12/21	17/12/21	18/12/21	19/12/21	20/12/21
1	01	Aditya Chakrabarty	A	A	A	A	A	A	A	A
2	03	Bhakti Chavan	Bhakti	Bhakti	Bhakti	Bhakti	A	Bhakti	Bhakti	Bhakti
3	05	Samyukta Gawade	Samyukta	Samyukta	Samyukta	Samyukta	A	Samyukta	Samyukta	Samyukta
4	07	RUTH GONSALVES	Rth	A	Rth	Rth	Rth	Rth	Rth	Rth
5	08	Satyendra R. Gupta	Satyendra	Satyendra	Satyendra	Satyendra	Satyendra	A	Satyendra	Satyendra
6	09	Sheetal. M. Gupta	Sheetal	Sheetal	A	Sheetal	Sheetal	Sheetal	Sheetal	Sheetal
7	12	Priya. A. Kale	Priya	Priya	Priya	A	Priya	Priya	Priya	Priya
8	13	Sakshi R. Kanodia	Sakshi	Sakshi	A	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
9	15	Khan Adnan. M	Akhan	Akhan	Akhan	A	Akhan	Akhan	Akhan	Akhan
10	18	ADITYA D. MALAP	Aditya	Aditya	Aditya	A	Aditya	Aditya	Aditya	Aditya
11	19	APARNA NAIK	Aparna	Aparna	Aparna	Aparna	Aparna	Aparna	A	Aparna
12	21	Dhyaneshu J. Parkey	Dhyaneshu	Dhyaneshu	Dhyaneshu	Dhyaneshu	Dhyaneshu	A	Dhyaneshu	Dhyaneshu
13	22	Ashvi D. Patil	Ashvi	Ashvi	A	Ashvi	Ashvi		Ashvi	Ashvi
14	24	Urvi Dipak Patil	Urvi	Urvi	Urvi	Urvi	A	Urvi	Urvi	Urvi
15	25	Yishakha K. Potdar	Potdar	A	Potdar	Potdar	Potdar	Potdar	Potdar	Potdar

Total number of candidates Present 15+07 = 22

Name & Signature of Subject

Teacher

M. Banirath

(Signature)

Date: 03/04/2022



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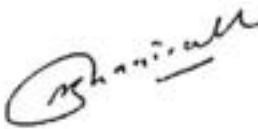
ATTENDANCE SHEET FOR STUDENTS
F.Y. B.Sc. (BIOTECHNOLOGY) ELEMENTARY COURSE IN
MATHEMATICS & STATISTICS
(15 HRS.)

Sr. No.	Roll No.	Name of Student	Dates							
			13/2	17/2	21/2	27/2	7/3	13/3	20/3	27/3
16	25	Pranaveshin Patil	Raw	Raw	Raw	A	Raw	Raw	Raw	Raw
17	30	Arpib Toriy	Arpib Kambale	Arpib Kambale	Arpib A	Arpib Kambale	Arpib Kambale	Arpib Kambale	Arpib Kambale	Arpib Kambale
18	39	Ashish Kambale	Arpib Kambale	Arpib Kambale	Arpib A	Arpib Kambale	Arpib Kambale	Arpib Kambale	Arpib Kambale	Arpib Kambale
19	42	Sahil Patil	Arpib Patil	Arpib Patil	Arpib Patil	Arpib A	Arpib Patil	Arpib Patil	Arpib Patil	Arpib Patil
20	44	Dhaneshree Mendapara	IP	IP	IP	A	IP	IP	IP	IP
21	45	Suresh Choudhary	IP	A	IP	IP	IP	IP	IP	IP
22	46	Ramesh Solanki	Raw	Raw	Raw	Raw	Raw	A	Raw	Raw
8										
9										
10										
11										
12										
13										
14										
15										

Total number of candidates Present

15+7=22

Name & Signature of Subject Teacher

M. Bhasirullah 

Date: 03/04/2023



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ATTENDANCE SHEET FOR STUDENTS APPEARING FOR
F.Y. B.Sc. (BIOTECHNOLOGY) ELEMENTARY COURSE EXAMINATION
(MATHEMATICS & STATISTICS)

Room No. Seminor Hall Biotech.
 Date 03/04/2023 Time 9 am to 11 am.
 Class FY BSc Biotech Subject Elementary Course In Maths & S.
 Seat No. From 02 To 46.

Sr. No.	Roll No.	Signature of the Candidate	Sr. No.	Roll No.	Signature of the Candidate
1	01	<u>Vinay</u>	17	43	<u>Manish</u>
2	03	<u>Bhavan</u>	20	44	<u>UP</u>
3	05	<u>Sanyal</u>	21	45	<u>Ho</u>
4	07	<u>Shy</u>	22	46	<u>Harish</u>
5	08	<u>Shreyas</u>			
6	09	<u>Arun</u>			
7	12	<u>Priyansh</u>			
8	13	<u>Sakshi</u>			
9	15	<u>A.K.M.D</u>			
10	18	<u>Anshul</u>			
11	19	<u>Anuraag</u>			
12	21	<u>Dhruv</u>			
13	22	<u>Arinpatel</u>			
14	24	<u>Pahl</u>			
15	25	<u>Potdar</u>			
16	26	<u>Ravi</u>			
17	36	<u>Arpit</u>			
18	39	<u>Kamble</u>			

Total number of candidates Present

22

Name of the Junior Supervisor

M. Bhaskar

Bhaskar
Signature
Jr. Supervisor

Signature
Sr. Supervisor



Date: 03/04/2023
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**MARKSHEET FOR STUDENTS APPEARING FOR
F.Y. B.Sc. (BIOTECHNOLOGY) ELEMENTARY COURSE EXAMINATION
(MATHEMATICS & STATISTICS)**

Exam Nos.	Marks	Marks in Words	Exam Nos.	Marks	Marks in Words
02	<u>38</u>	<u>Three Eight</u>	45	<u>27</u>	<u>Two Seven</u>
03	<u>29</u>	<u>Two Nine</u>	46	<u>33</u>	<u>Three Three</u>
05	<u>27</u>	<u>Two Seven</u>			
07	<u>40</u>	<u>four zero</u>			
08	<u>38</u>	<u>Three Eight</u>			
09	<u>41</u>	<u>four one</u>			
12	<u>34</u>	<u>Three four</u>			
13	<u>41</u>	<u>four one</u>			
15	<u>26</u>	<u>Two Six</u>			
18	<u>41</u>	<u>four one</u>			
19	<u>39</u>	<u>Three Nine</u>			
21	<u>42</u>	<u>four two</u>			
22	<u>34</u>	<u>Three four</u>			
24	<u>42</u>	<u>four two</u>			
25	<u>39</u>	<u>Three Nine</u>			
26	<u>38</u>	<u>Three Eight</u>			
30	<u>31</u>	<u>Three one</u>			
39	<u>43</u>	<u>four Three</u>			
42	<u>21</u>	<u>Two one</u>			
44	<u>41</u>	<u>four one</u>			



Name of Examiner M. Bharirath



Signature M. Bharirath

Date: 03/04/2023



Vidya Vardhini's Anasahab Vartak College of Arts, Kedarnath Malhotra College of Commerce
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Vasai Road (West), Dist - Palghar 401 202, Maharashtra

Affiliated to the University of Mumbai

CERTIFICATE

This is to certify that **CHAKR. BORTY ADITYA PRABIR** of First Year B.Sc. (Biotechnology) Course, Roll No. 02 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)

Asst. Professor Mathematics & Statistics



[Signature]

Srinivasa

H.O.D. Biotechnology Department

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[Signature]
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& E.S. Andrades College of Science
Vasai Road (West), Dist - Palghar 401 202, Maharashtra

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CERTIFICATE

This is to certify that CHAVAN BHAKTI VIJAYANAND of First Year B.Sc. (Biotechnology) Course, Roll No. 03 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)

Asst. Professor Mathematics & Statistics

H.O.D. Biotechnology Department

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CERTIFICATE

This is to certify that **GAIKV AD SAMYAK HARISH** of First Year B.Sc. (Biotechnology) Course, Roll No. 05 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)


Asst. Professor Mathematics & Statistics


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CERTIFICATE

This is to certify that **GONSA LYES RUTH WILLIAM** of First Year B.Sc. (Biotechnology) Course, Roll No. 07 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F. Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)

Ruth Williams
Asst. Professor Mathematics & Statistics

Srinath

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Srinath
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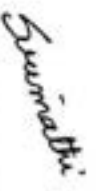
CERTIFICATE

This is to certify that **GUPTA : ATYENDRA RAJENDRA** of First Year B.Sc. (Biotechnology) Course, Roll No. 08 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)


Asst. Professor Mathematics & Statistics




H.O.D. Biotechnology Department

UNAIDED COURSES (UG & PG) RECHARGE
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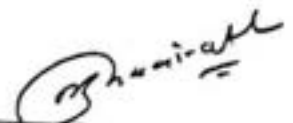
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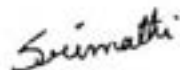
CERTIFICATE

This is to certify that **GUPTA SHEETAL MANOJ** of First Year B.Sc. (Biotechnology) Course, Roll No. 09 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)




Asst. Professor Mathematics & Statistics


H.O.D. Biotechnology Department
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K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
VASAI ROAD (W)-DIST. PALGHAR - 401-202




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& E.S. Andrades College of Science
Vasai Road (West), Dist - Palghar 401 202, Maharashtra

Affiliated to the University of Mumbai

CERTIFICATE

This is to certify that **KALE PI IYA ANANDRAO** of First Year B.Sc. (Biotechnology) Course, Roll No. 12 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).

Date: May 3, 2023
Place: Vasai Road (West)



M. N. Anand
Asst. Professor Mathematics & Statistics

S. Umalkh
H.O.D. Biotechnology Department
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K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
VASAI ROAD (W), DIST. PALGHAR - 401 202



S. Umalkh
PRINCIPAL
VIDYAVARDHINI'S A. V. COLLEGE OF ARTS
K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
VASAI ROAD, DIST. PALGHAR
MAHARASHTRA - 401 202



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& E.S. Andrades College of Science
Vasai Road (West), Dist - Palghar 401 202, Maharashtra

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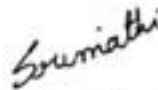
CERTIFICATE

This is to certify that KANOJIA SAKSHI RAJENDRA PRASAD of First Year B.Sc. (Biotechnology) Course, Roll No. 13 has completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of his / her eligibility to F.Y. B.Sc. Biotechnology course as per University Ordinance (O.5108).


Date: May 3, 2023
Place: Vasai Road (West)




Asst. Professor Mathematics & Statistics


H.O.D. Biotechnology Department
INCHARGE
UNAIDED COURSES (UG & PG)
VIDYAVARDHINI'S A. V. COLLEGE OF ARTS
K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
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E. S. A. COLLEGE OF SCIENCE
VASAI ROAD, DIST. PALGHAR
MAHARASHTRA - 401 202