Vidyavardhini's Annasaheb Vartak College of Arts, Kedarnath Malhotra College of Commerce & E. S. Andrades College of Science, Vasai Road (West), Palghar – 401 202

Proposal for Certificate Course

Date: 1st August 2022

76.

The IQAC Coordinator,

Sub.: Proposal to introduce Certificate Courses under the Department of Bachelor of Management Studies

The Department of Bachelor of Management Studies would like to start the following Certificate Course.

1. Logistics & Supply Chain Management

We will be grateful if you grant us permission to do so.

Thank you.



Yours faithfully,

Signature of the Head of Department

VIDYAVARDHIN'S A. V. COLLEGE OF ARTS, K. M. COLLEGE OF COMMERCE E. S. A. COLLEGE OF SCIENCE WASAI ROAD, DIST, PALGHAR

Vidyavardhini's

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

APPROVAL LETTER

To.

Date: 04/03 /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.

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. Paighar - 401 202.

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.

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)

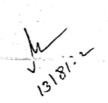
- Analysis of real-world supply chain challenges and solutions
- · Group discussions and presentations
- Guest speakers from the industry (if possible)

Week 11: Final Exam and Review (1 hours)

- · Review of course materials
- Assessment



	VIDYAVARDHINI'S	
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13.0.	A. COLLEGE OF SCIENCE, VASAI ROAD, DIST	' - PALGHAR 401 202
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E.S.	A. COLLEGE OF SCIENCE, VASAI ROAD, D	IST - PALGHAR 401 202
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ASSESSMENT

	Select the right answers to the Multiple-Choice Questions (MCQs)	20 Marks
	Name of the Student	
	signature	s Obtained:
		Sign-
1.	What is the primary goal of supply chain management? a. Maximizing customer satisfaction b. Minimizing costs c. Maximizing sales times	d. Minimizing lead
2.	Which of the following is a key component of logistics management? a. Supplier selection b. Marketing strategy c. Inventory forecasting	d. Employee training
	In the context of supply chain management, what does "lead time" rea. The time it takes to produce a product b. The time it takes for goods to rafter ordering c. The time it takes for a product to sell out d. The tsupplier to respond to an inquiry	ime it takes for a
	What is the primary purpose of safety stock in inventory managemen a. To maintain high inventory turnover b. To prevent stock outs during unex spikes or supply disruptions c. To reduce carrying costs d. To maximize utilization	storage space
	Which of the following is a key factor in demand forecasting for supplea. Historical sales data b. Supplier discounts c. Employee availability	
	What does the acronym RFID stand for in the context of supply chain a. Radio Frequency Identification b. Rapid File Delivery c. Retailer Fulfi Distribution d. Reverse Flow and Inventory Distribution	Ilment and
	a. Just-in-Time (JT) First-Out (LIFO)	Out (FIFO) d. Last-In-
8.	a. To reduce demand fluctuations fluctuations up the supply chain d. To reduce inventory carrying costs	
9.	Which document is used in international logistics to specify the type a goods being shipped and their value for customs purposes? a. Invoice b. Bill of Lading c. Certificate of Origin d. Page 1.	nd quantity of
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 c. A technology for tracking inventory in real-time d. A type of reverse logistics process	a central hub



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?	
YesNo	
2. Were you able to understand the basics of Logistics & Supplearly?	ply Chain Management
YesNo	••
3. Do you think this course will help you to prepare yourself for concepts related to the subject?	or learning further

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

Yes No

- 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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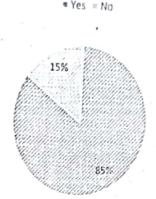
VIDYAVARDHINI S.A. V. COLLEGE OF ARTS, K. M. COLLEGE OF COMMERC E. S. A. COLLEGE OF SCIENCE VASAI ROAD, DIST, PALIGHAR VASAI ROAD, DIST, PALIGHAR

Feedback Analysis

Did you find the course helpful?

Response		Percenta
Yes	1	Percentage
No		85%
Total	20	15%





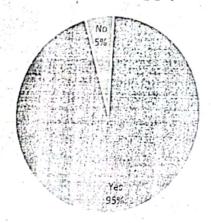
Were you able to understand the basics of Logistics & Supply Chain

Q. 2 Management clearly?

Response	Nos	Percentage	-
Yes	19	95%	٠,
No	1	5%	
Total	20		

Total 20

Logistic & Supply Chain



■ Yes

= No



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

Response	Nos	Percentage	1750
Yes	18		
No	2	12%	
Total	20		

Concepts Related to Subject



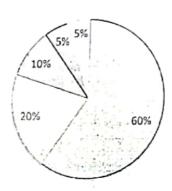
□Yes □No

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



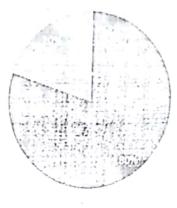
□Exit For Every Good □Good □Fair Poor



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

Response	Nos	Percentage	7 1110
Yes	16		
No	4	24%	
Total	20		

Doubt Clarification

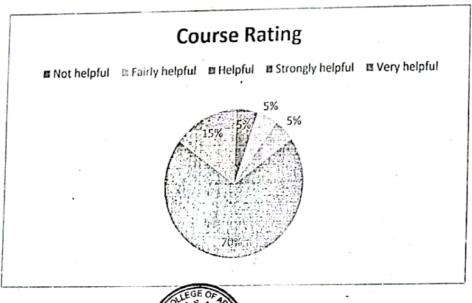


Yes # No

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%	4
Helpful		1	5%	
Strongly hel		14	70%	
Very helpful		3	15%	

Total 20





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. Bhayana Chauhan Course Coordinator

Mrs. Srimathi Narayanan Unaided Course Incharge

Dr. Mrs. Deepa Katre IQAC Coordinator

Dr. A.W. Ubale Principal







VIDYAVARDHINI'S Annasaheb Vartak College of Arts, Kedarnath Malhotra College of Commerce & E. S. Andrades College of Science.

(Affiliated to the University of Mumbal)

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. ②: 0250 - 2332017 Email: t23avcollegevasai@gmail.com ● Website: www.avc.ac.in

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

010

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 <u>Elementary Course in Mathematics & Statistics</u> 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,

PRINCIPAL

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

ELEMENTARY COURSE IN MATHEMATICS ANS 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. I 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 $\lim_{x \to 1} \frac{x^2 + 3x + 2}{x + 1}$ \mathcal{F}
 - 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) $Y = x^{10} + 10^x + c^x$

ii) $Y = x_1 e^x$.

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

1277/1227



PRINCIPAL PRINCIPAL

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

- 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.

V					
1 X	5	10	15	20	25
C				20	22
I	2	5	8	Š	3
			.,	-/	, ,

- Q 5 a) Explain the term probability.
 - b)) Find expectation and variance for the following probability distribution.

X	2	4	6	8	7
Probability	0.2	0.25	. 0.25	0.3	1
		• 1 • • • • • • • • • • • • • • • • • •			٦, ٠٠,
thrown simultane	cously. Find the	probability tha	it the sum of the	Ex 7	•. /
ces is i) exactly I	2 ii) less than 3.			~ B	ک با
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c) Two dice are thrown simultaneously. Find the probability that the sum of the uppermost faces is i) exactly 12 ii) less than 3.

VIDYAVARDHINPS A.V. COLLEGE OF ARTS, K.M. COLLEGE OF COMMERCE & E.S.A. COLLEGE OF SCIENCE, VASAI ROAD, DIST - PALGHAR 401 202

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

Sr.	Roll No.	Name of Student		1 .						
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3	05	Samyak Gainwad	Surge	Sony	Samo	Some	A		Same	Samue
4	07	RUTH GONSALVES	345	A	th		oth:	th:	th.	料,
5	08	satyendra R. Cuypta	Durken.	Burghy	Buch	وليون	Buth	A	الميلين الم	Quet.
6	09	Sheetal. M. Gupta	hosty			hagia			Acodo	Anontal
7	12	Priya A Kale	PrixI	prive		BA.	Priyer			more
8	13	Sakshi R. Kanojia	_	1	A	Saleshi	satehi	solu	Sakehi	Sotulai
9	15	Khan Afrein M	A Kron		A.Khan		A.Khan	Victori	A. 14100	Alchan
10	18		Donales	Ponder			-	Rorder		Analas
11	19	APARHA HAIR	parna	Apurus	forme		-	Acares		Towns.
12	21	Divyonshu. J. Panky	فيسنك	Dras	Dras	Due	Dead	A-	toxelli	Warsh.
13	22	Ashni D. Patel	Antori	Knpilil	A	Knyhatis	Kntary			
14	24		UPahi	Pahi	urahi)	urakil	A	Pari	(Pabil	Yah'
15			Potou		Potde		Poldi	Vota.		Potda

Total number of candidates Present

15+07=22

Name & Signature of Subject

Teacher

VIDYAVARDHINI. VASAI ROAD (W). 401 202.

03/04/2025 Date:

PRINCIPAL

IDYAVARDHINI'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 A.V. COLLEGE OF ARTS, K.M. COLLEGE OF COMMERCE & E.S.A. COLLEGE OF SCIENCE, VASAI ROAD, DIST – PALGHAR 401 202

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

			Dates							,
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15										

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Total number of candidates Present	22	
Name & Signature of Subject	in Bhasicult	mgh a ni
Teacher		

Date: 03/04/2023



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IDYAVARDHINI'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 A.V. COLLEGE OF ARTS, K.M. COLLEGE OF COMMERCE & E.S.A. COLLEGE OF SCIENCE, VASAI ROAD, DIST – PALGHAR 401 202

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

Room	No.	Semi	aur Hull Bioter	h '					
Date		osto	4/2023	Т	Time 9		am to 11 am'		
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	- D II	N.	Signature of the	Sr.	Ro	II No.	Signature	of the	
Sr. No.	Kon	No.	Candidate	No.	100	11110.	Candio		
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MARKSHEET FOR STUDENTS APPEARING FOR F.Y. B.Sc. (BIOTECHNOLOGY) ELEMENTARY COURSE EXAMINATION (MATHEMATICS & STATISTICS)

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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 (0.5108). This is to certify that CHAKRABORTY ADITYA PRABIR of First Year B.Sc. (Biotechnology) Course, Roll No. 02 has

Place: May 3, 2023

Place: Vasai Road (West)

क्षेड्रंडर. Arofessor Mathematics & Statistics

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Asst./Professor Mathematics & Statistics

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his / her eligibility to F.Y. B.Sc Biotechnology course as per University Ordinance (0.5108). completed the elementary Course in Mathematics and Statistics during the Academic Year 2022-2023 for confirmation of This is to certify that GUPTA SATYENDRA RAJENDRA of First Year B.Sc. (Biotechnology) Course, Roll No. 08 has

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A Asst Professor Mathematics & Statistics

Date: May 3, 2023

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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).

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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)

VIDYAVARDASST. Professor Mathematics & Stati tics

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