SREEKRISHNAPURAM
V.T. BHATTATHIRIPAD COLLEGE

Aided and Affiliated to University of Calicut, NAAC Accredited with B+ Grade

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CRITERION - II
TEACHING-LEARNING AND EVALUATION

2.6 Student Performance and Learning Outcomes

2.6.2. Attainment of POs and COs are evaluated.

Evaluation Procedure of POs and COs Attainment

Attainment of Programme Outcomes (POs) and Course Outcomes (COs)

Measurement and evaluation of the attainment level of POs and COs are very important aspects of Objective Based Education (OBE). The measurement and evaluation are done mainly through the **Direct** Measurement Method and **Indirect** Measurement Method.

Direct Measurement Methods include:

    a. Class Tests conducted by the Class Teachers

    b. Assignments/Seminars

    c. Summative Evaluation (University Semester Examinations)

The indirect method includes a Feedback survey conducted on the students at the end of each semester.

Weightage is given to Direct and Indirect Methods of evaluation as follows:

- 80% weightage is given to Direct Method
  - 30% Weightage is given to Class Tests
  - 30% Weightage is given to Assignment/Seminars
  - 40% Weightage is given to University Examinations
- 20% weightage is given to Indirect Method

Fixing the Target/Benchmark for COs and POs

A benchmark or Target level of attainment is pre-fixed for the COs and POs based on the past performance of the students. It is determined to know whether a particular CO or PO has been attained or not. A particular CO or PO is said to be attained only if the benchmark or target fixed for the COs and POs has been attained.

From past experience, Sreekrishnapuram V T Bhattathiripad College **has fixed 60% as a benchmark or target**. That means,

If a particular student attains 60% of the marks assigned for a particular CO, it is considered that the student attains that CO.

If 60% of the total students of the class attain a particular CO as per the benchmark, it is considered that the class has attained the CO.

Construction of CO Mapped Question Paper

The class test question paper is constructed in such a way that each CO is mapped with each question of the Question Paper. Proper care is given to ensure the fare representation for each COs. Then a blueprint is made for the question paper showing the COs, Cognitive Levels, Marks, and Time allotted for each question. This ensures the quality of the question paper.

CO Attainment Value and CO Attainment Percentage

To ascertain the PO Attainment Percentage, it is very important to calculate the CO Attainment Value of each student and the CO Attainment Percentage of the class.

CO Attainment Value of Each Student = Marks Obtained for CO1 * Weightage of CO1 in the Class Test Question Paper.
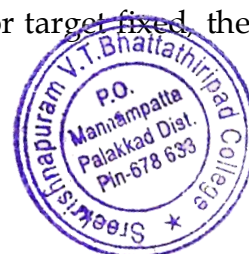
If the CO Attainment value of a student in a particular CO exceeds 60%, it is considered that the student attained that CO.

CO Attainment Percentage = $\frac{Number\ of\ Students\ who\ attained\ a\ Particular\ CO}{Total\ Number\ of\ Students\ in\ the\ Class}$ X 100

CO Attainment Levels

To evaluate the level of CO attainment, Sreekrishnapuram V T Bhattathiripad College follows the following guidelines:

- If 60% or more of the students meet the benchmark or target fixed, the level of the attainment of CO is considered as 3.
- If 40% of the students meet the benchmark or target fixed, the level of the attainment of CO is considered as 2.
- If 20% or less of the students meet the benchmark or target fixed, the level of the attainment of CO is considered as 1.
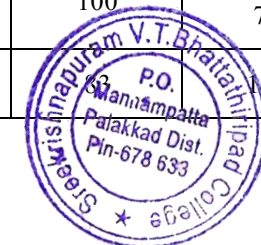
The Marksheet indicating the CO Attainment Value of each student and CO Attainment Percentage is given below as a sample:
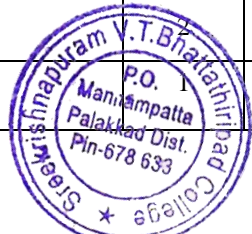
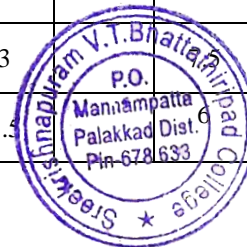|	QUESTION-WISE EVALUATION OF CLASS TEST ON MARKETING MANAGEMENT (19.06.2024)										
						Q5 (CO3) 8	Q6 (CO3) 8	Attainment Value of CO1	Attainment Value of CO2	% Attainment of CO3	Total
1	Abhijith	1.5	2	3	2.5		7	75	75	87.5	16
2	Abhijith K	1.5	2	3.5	4		8	83	100	100	19
3	Abhisha P S	2	2	2.5	1.5	5		75	58	62.5	13
4	Adarsh P	2	2	1	3		6	50	83	75	14
5	Adithya K Surendran	1	2	1			6	33	33	75	10
6	Adithya Krishna.K	1	1.5				6	17	25	75	8.5
7	Adithya S	1	2	4	3		6	83	83	75	16
8	Adithya V.U	1.5	2	3	3	3		75	83	37.5	12.5
9	Adithyalakshmi.M	1	2	4	4	7		83	100	87.5	18
10	Aiswarya M P	1.5	1.5	3	3	6		75	75	75	15
11	Ajaykrishnan. V	1	2	2	3	6		50	83	75	14
12	Akhil Krishna	1	2	2	4	6		50	100	75	15
13	Akshara A.P	1	1.5	3	3	6		67	75	75	14.5
14	Akshay K V	1	2	3	3	6		67	83	75	15
15	Akshay Nath R	1	2	3	3	7		67	83	87.5	16
16	Akshaya. C	1	2	3	4	6		67	100	75	16
17	Ambika T K	1	2	3	3		8	67	83	100	17

18	Anaswara. K	1	2	2	3.5	7.5		50	92	93.75	16
19	Anaswara.K.R	1.5	2	4			8	92	33	100	15.5
20	Anaswara.P	1	2		4		8	17	100	100	15
21	Anishma. A	1.5	2	3	4	6		75	100	75	16.5
22	Anjali B	1	0.5	3	3	6		67	58	75	13.5
23	Anurag	1.5	1.5	4	4		6	92	92	75	17
24	Anusmaya T M							0	0	0	0
25	Arshida Sherin. S	1	2	4	2	6		83	67	75	15
26	Arun T R	1	1	2	3		5	50	67	62.5	12
27	Ashtami P.B	1		3	2	6	2	67	33	100	14
28	Aswathi C V	1	2	4	4		7.5	83	100	93.75	18.5
29	Aswin M							0	0	0	0
30	Athulya.M	2	2	4	3.5	6		100	92	75	17.5
31	Avin.V	1	1	1	3			33	67	0	6
32	Babitha.G							0	0	0	0
33	Bharadwaaj Krishna	1	2	3				67	33	0	6
34	Chandana Krishnan K K	1.5	2	4				92	33	0	7.5
35	Diljith.D	2	2	3	2	3		83	67	37.5	12
36	Fasna K E	2	2	4	3.5		8	100	92	100	19.5
37	Fathimath Jasira E K	2	2	4	1.5	7		83	58	87.5	15.5

38	Fathimath Shifa. V	1	2	3	1	5		67	50	62.5	12
39	Hareesh K V	1.5	2	4	3.5	6		92	92	75	17
40	K. Sneha	2	2	4	3.5		8	100	92	100	19.5
41	Kavya A. P	1	2	3	4		5	67	100	62.5	15
42	Kishan U	2	1.5	4	3.5		6	100	83	75	17
43	Mohamed Sinan K	1.5	2	4	4		6	92	100	75	17.5
44	Muhammed Sinan P A	1	1.5	3	4	5		67	92	62.5	14.5
45	Navaneeth Krishna P M	1	2	3	4	6		67	100	75	16
46	Naveena K	2		4	4	6		100	67	75	16
47	Nidha. N	1.5	2	4	4	6		92	100	75	17.5
48	Niranjana.N	1.5	1.5	3	4	7		75	92	87.5	17
49	Nithya M	1.5	2	3.5	3.5		7	83	92	87.5	17.5
50	Nivya. H	1	1	3	3		5	67	67	62.5	13
51	Parameswaran M K	1	2	3.5	2.5		6	75	75	75	15
52	Preejith M	1	2	2		2		50	33	25	7
53	Punyathirtha Babu							0	0	0	0
54	Ragitha.S	1	2	3	3		3	67	83	37.5	12
55	Raheesa K K	1	2	4	3.5		3	83	92	37.5	13.5
56	Raniya K	2		4	3			100	50	93.75	16.5
57	Ranjini Krishnan. M	1.5	2	4	3.5		6	92	92	75	17

No	Name										
58	Rida	2	2	4	3		4	100	83	50	15
59	Sandra. T							0	0	0	0
60	Sivin Krishna K	1	1	2	2		5	50	50	62.5	11
61	Sooraj C							0	0	0	0
62	Sruthi V P	1		3	3.5		7	67	58	87.5	14.5
63	Sumayya Parveen.P.M							0	0	0	0
64	Syam Mohandas	1.5	2	3	3		7.5	75	83	93.75	17
65	Thrishamol C S	2	2	1.5	3	4		58	83	50	12.5
66	Vaibhav K.M	1	2	4	4	6		83	100	75	17
67	Varsha T. P	2	2	4	3		7.5	100	83	93.75	18.5
68	Vrinda Krishna K K	2	2	3	4	4		83	100	50	15

Number of Students appeared for the examination	62	62	62	
Number of Students who Attained the COs	49	47	50	
Attainment Percentage of COs	79.03	75.81	80.65	
Number of Students required as per benchmark	37	37	37	
Status of CO Attainment	Attained	Attained	Attained	
Level of CO Attainment	3	3	3	

Number of Students who appeared for the Examination: 62

Number of Students who shall attain the COs as per Benchmark = 62 X 0.06 = 37

PO Attainment Percentage

Sreekrishnapuram V T Bhattathiripad College has meticulously constructed the Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) and mapped the COs with POs and PSOs scientifically. The mapping of COs of Marketing Management is given below as a sample:

Course Name: BCM2C02: Marketing Management

MAPPING OF COs WITH POs

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	1	-	0.67	-	0.33	0.33	1	0.33	-	0.67
CO2	0.33	0.67	1	-	0.33	0.67	0.33	1	-	1
CO3	0.33	0.67	1	-	0.67	0.67	0.33	1	-	1

Correlation Levels:

Level	Correlation
-	Nil
0.33	Slightly / Low
0.67	Moderate / Medium
1	Substantial / High

As the last step, we calculate the PO attainment Percentage in order to evaluate the effectiveness of the courses offered in a programme. For this purpose, Course Outcome Weightage calculated in the Mapping and Course Attainment Percentage are used. PO attainment percentage for a particular PO is calculated as follows:

PO Attainment Percentage = (Attainment Percentage of Contributing CO X Weightage of particular CO) + (Attainment Percentage of another Contributing CO X Weightage of that particular CO)/ Total Weightage of Contributing COs