



# 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 Students' Performance and Learning Outcome



[www.vtb.ac.in](http://www.vtb.ac.in)



Mannampatta P.O., Palakkad - 678 633

## 2.6.2. Attainment of POs and COs are evaluated.

### The Present Status of OBE in the College (ERP - EMBASE Pro-suit)

#### ERP - EMBASE Pro-suit

The EMBASE Pro Suite is an advanced Education ERP (Enterprise Resource Planning) system designed to revolutionize the management and operations of educational institutions. As an Education ERP 4.0 solution, it leverages cutting-edge technology to offer a comprehensive and integrated platform that enhances the efficiency, productivity, and overall performance of schools, colleges, and universities.

Sreekrishnapuram V T Bhattathiripad College also transformed to the EMBASE Pro-suit system in 2022 itself. In the beginning, the college used the package for Attendance Monitoring of the students. Later from the academic year 2023 onwards, the teachers used the EMBASE for the easy implementation of Outcome Based Education (OBE).

Now, the teachers are in a position to evaluate the attainment of Programme Outcomes (POs) and Course Outcomes (COs) through this software on a single click.

The EMBASE administrator of the college enters the Programme Outcomes in the sight. Then the HODs of each department enter the Programme Specific Outcomes in the EMBASE Portal. Then the class tutor enters the Course Outcomes in the portal and also maps each POs with COs.

Then the class tutor constructs an Outcome Based Internal Question Paper and enters it into the portal. After the tutor takes the class test in the class based on the Course Outcome and evaluates the answer sheets, the tutor enters the marks of each question in the portal.

Now the tutor can download the Report on Attainment of POs and COs with just a single click!!!



## Step 1: Entering the Programme Outcome in the EMBASE Portal by Administrator

The screenshot displays the EMBASE Portal interface for Sreekrishnapuram V.T.Bhattathiripad College. The browser address bar shows the URL: `svtbcollege.embase.in/#/mentor/programme?helper_text=Shows+the+list+of+programmes+and+its+details.+When+click+on+the+programme,+goes+to+detailed+settings...`. The user is logged in as KAMAL RAJ MOHAN (1008).

The main content area is titled "Programmes > PO's" and lists the following Programme Outcomes (POs):

- Knowledge**: PO1. Attained in-depth knowledge and proficiency in the discipline selected for the Post Graduate Degree
- Analysis**: PO2. Demonstration of soft skills and practicing professional ethics
- Design**: PO3. Shows the ability to understand, analyze, and evaluate the concepts and practice of the discipline selected
- Develop**: PO4. Shows the ability to apply the learned theories and practice in real-life situations.
- Modern Tools**: PO5. The learner becomes employable according to the current demand of the industry and responsible citizens
- Society**: PO6. Demonstrate the ability to understand and solve emerging research problems

A sidebar on the left contains navigation options: Tutorship, My Profile, Students, Club, Attendance, Attendance Report, Events, Attendance overview, Assessments, External Marks, and Logout. A blue button at the bottom right of the main content area says "Add program objective +".



## Step 2: Entering Competence Threshold and Benchmarks of the Programme

The screenshot shows the 'Programmes > Benchmark' page for Sreekrishnapuram V.T.Bhattathiripad College. The page is for the year 2024-25. The 'Competence Threshold' is set to 35%. Below this, there are three benchmark levels defined by the percentage of students who got more than the target:

- Level 1: 30% of the students got more than target
- Level 2: 40% of the students got more than target
- Level 3: 60% of the students got more than target

The page also includes a 'Weightage Settings' button and 'Cancel'/'Save' buttons.





### Step 3: Entering Course Outcomes in the Portal by the class tutor

The screenshot shows a web browser window with the URL `svtbccollege.embase.in/#/mentor/course_attainment?helper_text=Course+attainment+is+the+part+of+Outcome+Based+Education+(OBE)+Course+attainment+set+up+the+...`. The page title is "Course Outcome" and the user is identified as "KAMAL RAJ MOHAN" with ID "1008". A "Show PO & PSO" button is visible in the top right. The main content area lists three Course Outcomes (CO 1, CO 2, CO 3) with their descriptions. A red rectangular box highlights the CO 1, CO 2, and CO 3 entries. The left sidebar contains a navigation menu with the following items: Tutorship, My Profile, Students, Club, Attendance, Attendance Report, Events, Attendance overview, Assessments, External Marks, and Logout. The college logo and name "Sreekrishnapuram V.T.Bhattathiripad College" are displayed at the top left of the sidebar.

Course Outcome	Description
CO 1	Explains the concepts, theories and practice related to Tax Planning in detail
CO 2	Apply the learned theories and practice in the process of assessment of various Persons
CO 3	Evaluate and appreciate the relevance of Tax Planning practice in modern times.



## Step 4: CO-PO Mapping

**Sreekrishnapuram V.T.Bhattathiripad College**

CO-PO Mapping

KAMAL RAJ MOHAN 1008

Add Gap

Co_PO	co1	co2
PO1 Knowledge	3	1
PO2 Analysis	1	3
PO3 Design	0	2
PO4 Develop	0	1
PO5 Modern Tools	0	0
PO6 Society	0	0
PO9 Team Work	0	0



Step 5: Entering the Mark by the subject teacher after the class test

The screenshot shows a web browser interface for the Sreekrishnapuram V.T.Bhattathiripad College. The browser address bar shows the URL: `svtbcollge.embase.in/#/mentor/course_attainment?helper_text=Course+attainment+is+the+part+of+Outcome+Based+Education+(OBE).+Course+attainment+set+up+the+...`. The page title is "Mark Entry". The user is logged in as KAMAL RAJ MOHAN (1008). The main content area displays the student's profile for ATHIRA K, with Roll No : 290 and Adm No : 125/2022. The marks entry table is as follows:

Roll No	Marks	Roll No	Marks
1	2 /2	2	2 /2
3	4 /4	4	3 /4
5	7 /8		

At the bottom, there is a navigation bar for Roll No, with a legend indicating Marked (grey circle), Not-Marked (light grey circle), and Selected (blue circle). The roll number 290 is currently selected.



Step 6: Indirect Assessment by taking Exit Level feedback from the students

The screenshot displays a web application interface for 'Indirect Assessment'. The left sidebar identifies the institution as Sreekrishnapuram V.T.Bhattathirpad College and lists various navigation options. The main content area is divided into three sections corresponding to Course Outcomes (COs):

- CO 1:** Question: Curriculum transaction is successful in attaining the deep knowledge and understanding regarding the concept Tax Planning.
- CO 2:** Question: Curriculum transaction helps to attain the practical knowledge in applying the theory in practice.
- CO 3:** Question: Curriculum transaction enables the learner to evaluate and appreciate the concept of Tax Planning.

The user profile 'KAMAL RAJ MOHAN 1008' is visible in the top right corner of the interface.

Three questions are asked each representing each COs.





## Step 7: Taking report on the Attainment of POs and COs

The screenshot shows a web browser window with the URL `svtbcollge.embase.in/#/mentor/course_attainment?helper_text=Course+attainment+is+the+part+of+Outcome+Based+Education+(OBE).+Course+attainment+set+up+the+...`. The page is titled "Report" and shows the following data:

	Direct	Indirect
Total Weightage	80%	20%
Total Attainment	2.40	0.6
Course Attainment		3

At the bottom of the page, there are two buttons: "Download Report" (highlighted in red) and "Export to mail".

You can download the detailed report on the attainment of the POs and COs in just one click.



# **Sample Report on Attainment of POs and COs**

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## CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details	
Course Code & Name	MCM3C15 - Income Tax: Law, Practice and Tax Planning II
Teaching Staff	KAMAL RAJ MOHAN
Semester	4
Number of Enrolled Students	19
Programme	MCom
Syllabus	MCom 2020-21 Admn

Programme Details	
Programme Name	MCom
Head of the Department	



## **Step 1:**

### **Program Outcome (PO)**

PO1: PO1. Attained in-depth knowledge and proficiency in the discipline selected for the Post Graduate Degree

PO2: PO2. Demonstration of soft skills and practicing professional ethics

PO3: PO3. Shows the ability to understand, analyze, and evaluate the concepts and practice of the discipline selected

PO4: PO4. Shows the ability to apply the learned theories and practice in real-life situations.

PO5: PO5. The learner becomes employable according to the current demand of the Industry and responsible citizens

PO6: PO6. Demonstrate the ability to understand and solve emerging research problems

PO9:

### **Program Specific Outcome (PSO)**

### **Program Educational Objectives (PEO)**



**Step 2:**

## CO-PO Correlation

	Description	PO
<b>CO 1</b>	Explains the concepts, theories and practice related to Tax Planning in detail	PO2, PO3, PO4, PO1
<b>CO 2</b>	Apply the learned theories and practice in the process of assessment of various Persons	PO2, PO3, PO4, PO1
<b>CO 3</b>	Evaluate and appreciate the relevance of Tax Planning practice in modern times.	PO1, PO2, PO3, PO4

## CO-PO Mapping

	PO1	PO2	PO3	PO4
<b>CO 1</b>	3	1	0	0
<b>CO 2</b>	1	3	2	1
<b>CO 3</b>	1	0	0	0
<b>AVERAGE</b>	1.67	1.33	0.67	0.33

## CO-PSO Mapping



**Step 3:**

Weightage, Benchmark and Attainment

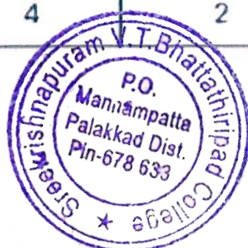
Weightage			
Direct Assessment	Internal	20	80
	External	80	
Indirect Assessment	Course Evaluation Survey		20

Benchmark and Attainment			
Level	Benchmark	Strength	Attainment
Level 1	30% Students got more than target	(30% of Student strength): 5.70	1
Level 2	40% Students got more than target	(40% of Student strength): 7.60	2
Level 3	60% Students got more than target	(60% of Student strength): 11.40	3

**Step 4**

Course Attainment for each CO: Direct Assessment for Various Internal Examination

	CO	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
Internal 1	CO 1	4	2	16	3
	CO 2	12	6	14	3
	CO 3	4	2	17	3





Course Attainment for CO: Direct Attainment External

External Examination	CO	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
	CO 1	-	-	-	0.00
	CO 2				
	CO 3				

\*Competency Threshold Mark

Step 5:

Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

Indirect Assessment	CO	Average Attainment	Attainment
	CO 1	3	3.00
	CO 2	3	
	CO 3	3	

Step 6:

Direct Attainment

	CO 1	CO 2	CO 3	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3.00	80	2.40
<b>Direct Attainment Total</b>						<b>3</b>

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	80%	2.40
Indirect Attainment	3.00	20%	0.60
<b>Course Outcome Attainment</b>			<b>3.00</b>
<b>Course Outcome Attainment Percentage</b>			<b>100.00%</b>

  
Signature of Teacher



  
Signature of HOD

  
**PRINCIPAL**  
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