

Shetkari Shikshan Prasarak Mandal's  
**KRISHNA MAHAVIDYALAYA, RETHARE BK**  
**DEPARTMENT OF ECONOMICS**  
**ECONOMICS OBE PROCESS**  
**Academic Year 2017-2018**

1. Course- Program outcome Matrix: The Program Outcomes are developed through the curriculum (curricular/co-curricular extra-curricular activities). The program outcomes are attained through course implementation. As an educator, one must know, "to which POs is his/her course contributing?". So that one can design the learning experiences, select teaching methods, and design the tool for assessment. Hence, establishing the Course-PO matrix is an essential step in the OBE. The course-program outcomes matrix indicates the correlation between the courses and program outcomes. The CO-PO matrix is the map of the list of courses contributing to the development of respective Pos.

The Template is provided in the table below

Sr. No	Course Title	PSO A	PSO B	PSO C	PSO D	PSO E	PSO F	PSO G
1.	Paper No-VII Micro Economics			√				
2.	Paper No-VIII Research Methodology in Economics-I							√
3.	Paper No-IX History of Economic Thoughts-I	√		√	√			
4.	Paper No-X Economics of Development	√				√		
5.	Paper No-XI International Economics-I	√	√	√	√	√	√	√
6.	Paper No-XII Market and Pricing	√		√				
7.	Paper No-XIII Research Methodology in Economics-II							√
8.	Paper No-XIV History of Economic Thoughts-II	√		√	√			
9.	Paper No-XV Economics of Planning	√				√	√	
10.	Paper No-XVI International Economics-I	√	√	√	√	√	√	√

## 2. Course Outcomes (for all courses):

The course outcomes are the statement that describes the knowledge & abilities developed in the student by the end of the course (subject) teaching. The focus is on the development of abilities rather than mere content. There can be 5 to 7-course outcomes of any course. These are to be written in specific terms and not in general. The list of Course Outcomes is Annexure-C attached herewith.

## 3. Set Target levels for Attainment of Course Outcomes:

The course outcome attainment is assessed in order to track the graduates' performance w.r.t target level of performance. CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess student's performance with respect to abilities (at the end of course teaching/by the end of the program) the course outcome attainment is measured/calculated. In order to calculate the program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done.

## 4. Set Target level for Attainment of Program Outcomes:

The program outcome attainment is assessed in order to track the graduates' performance w.r.t target level of performance. CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess student's performance with respect to abilities (at the end of course teaching/by the end of the program) the course outcome attainment and program outcome attainment are measured/calculated. The program outcome attainment is governed by curricular, co-curricular, and extra-curricular activities including the stakeholders' participation. The direct method and indirect method are adopted to calculate the PO attainment. **The direct method implies the attainment by course outcomes contributing to respective program outcomes. An indirect method is the satisfaction/feedback survey of stakeholders.** In order to calculate the program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done. The set target level is the set benchmark to ensure continuous improvements in the learners'/ graduates' performance.

## 5. Course Attainment Levels:

- a) CO attainment is defined/set at three levels;
- b) The CO attainment is based on end-term examination assessment and internal assessment;
- c) The Co attainment is defined at three levels in ascending order  
i. e.g. For end-term and internal examination;

Sr. No	Level	CO Attainments
1.	Level-1:	30% of students scored more than the class average
<b>2.</b>	<b>Level-2:</b>	<b>40% of students score more than the class average</b>
3.	Level-3	50% of students score more than the class average

. The target level is set (e.g. Level-2). It indicates that **the current target is level-2; 40% of students score more than the class average**. The CO attainment is measured and the results are obtained. Based on the results of attainment, corrective measures/remedial action is taken.

e. CO Attainment= 80% (Attainment level in end-term examination) + 20% (Attainment level in internal examination)

## 6. Program attainment Level:

- a. PO attainment is defined at five levels in ascending order;
- b. **The PO attainment is based on the average attainment level of corresponding courses (Direct Method) and feedback survey (Indirect method);**
- c. The PO attainment levels are defined/set as stated below;

Sr. No	Level	PO Attainments
1.	Level-1:	Poor: Greater than 0.5 and less than 1.0 (0.5>1)
2.	Level-2:	Average: 1.0 to 1.5
3.	<b>Level-3</b>	<b>Good: 3: 1.5 to 2.0</b>
4.	Level-4	Very Good: 2.0 to 2.5
5.	Level-5	Excellent: 2.5 to 3.0

d. The PO attainment target level is set/defined (say, Level-4). It implies that the department is aiming at a minimum level-4 (very good) in the performance of abilities by the graduates. Based upon the results of attainment, the remedial measures are taken;

e. PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

**7. The Results of CO Attainment: The Results of CO Attainment is provided in Annexure-B**

FOR EXAMPLE, COURSE CODE/TITLE: Paper XI: International Economics-I

e.g., For end-term and internal examination;

i. Level-1: 30% of students scored more than the class average

ii. Level-2: 40% of students score more than the class average

iii. Level-3: 50% of students score more than the class average

Paper No.VII. Micro Economics		
Average Marks in External examination:	26	
% Students score more than 26 is =6	60%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 9 is =06	50%	Level: 3
A(CO) Paper No.VII. Micro Economics		
	=	80% (3) +20% (3)
	=	2.4+0.6
	=	3

Paper No.VIII. Research Methodology in Economics-I		
Average Marks in External examination:	29	
% Students score more than 29 is = 5	50%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 9 is =5	42%	Level: 2
A(CO) Paper No.VIII. Research Methodology in Economics-I		
	=	80% (3) +20 % (2)
	=	2.4+0.4
	=	2.8

<b>Paper No.IX. History of Economic Thoughts-I</b>		
<b>Average Marks in External examination:</b>	27	
<b>% Students score more than 27 is =6</b>	60%	<b>Level: 3</b>
<b>Average Marks in Internal examination</b>	9	
<b>% Students score more than 9 is =5</b>	42%	<b>Level: 2</b>
<b>A(CO) Paper No.IX. History of Economic Thoughts-I</b>		
	=	<b>80% (3) 20%(2)</b>
	=	<b>2.4+0.4</b>
	=	<b>2.8</b>

<b>Paper NO. X. : Economics of Development</b>		
<b>Average Marks in External examination:</b>	29	
<b>% Students score more than 29 is = 06</b>	60%	<b>Level: 3</b>
<b>Average Marks in Internal examination</b>	8	
<b>% Students score more than 8 is =10</b>	67%	<b>Level: 3</b>
<b>A(CO) Paper NO. X. Economics of Development</b>		
	=	<b>80% (3) +20 %(3)</b>
	=	<b>2.4+0.6</b>
	=	<b>3</b>

<b>Paper No. XI: International Economics-I</b>		
<b>Average Marks in External examination:</b>	37	
<b>% Students score more than 37 is =7</b>	70%	<b>Level: 3</b>
<b>Average Marks in Internal examination</b>	9	
<b>% Students score more than 9 is =6</b>	50%	<b>Level: 3</b>
<b>A(CO) Paper No. XI: International Economics-I</b>		
	=	<b>80% (3) +20 %(3)</b>
	=	<b>2.4+0.6</b>
	=	<b>3</b>

<b>Paper XII: Market and Pricing</b>		
<b>Average Marks in External examination:</b>	29	
<b>% Students score more than 29 is = 5</b>	63%	<b>Level: 3</b>
<b>Average Marks in Internal examination</b>	9	
<b>% Students score more than 9 is =6</b>	50%	<b>Level: 3</b>
<b>A(CO) Paper XII: Market and Pricing</b>		
	=	<b>80% (3) +20% (3)</b>
	=	<b>2.4+0.6</b>
	=	<b>3</b>

**Paper No. XIII: Research Methodology in Economics-II**

Average Marks in External examination:	31	
% Students score more than 31 is =5	63%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 9 is =5	42%	Level: 2
<b>A(CO) Paper No. XIII: Research Methodology in Economics-II</b>		
	=	80% (3) +20%(2)
	=	2.4+0.4
	=	2.8

**Paper .NO. XIV: History of Economic Thoughts-II**

Average Marks in External examination:	37	
% Students score more than 37 is=5	63%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 9 is 6	50%	Level: 3
<b>A(CO) Paper .NO. XIV: History of Economic Thoughts-II</b>		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

**Paper No. XV Economics of Planning**

Average Marks in External examination:	31	
% Students score more than 31 is=4	50%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 8 is 10	83%	Level: 3
<b>A(CO) Paper No. XV Economics of Planning</b>		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

**Paper No. XVI International Economics-II**

Average Marks in External examination:	36	
% Students score more than 36 is=6	75%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 9 is 6	50%	Level: 3
<b>A(CO) Paper No. XVI International Economics-II</b>		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

Hence, the attainment level is Level-3 and the set target level is Level-2 and therefore the CO is Fully attained.

**Table No. 1.0: CO Attainment Level**

Course Title	Target Attainment	Course Attainment		Fully Attained/ Not Attained	Remedial Measures
	Level	Value %	Level		
Paper No-VII Micro Economics	2	55	3	Fully Attained	
Paper No-VIII Research Methodology in Economics-I	2	46	2	Fully Attained	
Paper No-IX History of Economic Thoughts-I	2	51	3	Fully Attained	
Paper No-X Economics of Development	2	62	3	Fully Attained	
Paper No-XI International Economics-I	2	60	3	Fully Attained	
Paper No-XII Market and Pricing	2	56	3	Fully Attained	
Paper No-XIII Research Methodology in Economics-II	2	52	3	Fully Attained	
Paper No-XIV History of Economic Thoughts-II	2	56	3	Fully Attained	
Paper No-XV Economics of Planning	2	66	3	Fully Attained	
Paper No-XVI International Economics-I	2	62	3	Fully Attained	

*Hence, the attainment level is Level-3 and the set target level is Level-2 , therefore the CO is fully attained.*

## 8. The Results of PO Attainment:

***The Results of PO attainment are provided in Annexure-B.***

FOR EXAMPLE: PO NO.: a (Note: Refer to point No. 11 above which describes the attainment level and set target attainment level).

PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

- **(PSO-A) = 80% (3+3+3+3+3+3+3)/7=3.00 + 20% (3+3+3+3+3+3)/7=3,**

**80% (3.00) + 20% (3) =6.00/2=3.00, i.e. Level-5, The Target Level is-3(3: 1.5 to 2.0),**

**Hence, PSO is attained.**

- **(PSO-B) = 80% (3+3)/2=3.00 + 20% (3+3)/2=3,**

**80% (3.00) + 20% (3) =6.00/2= 3.00, i.e. Level-5, The Target Level- 3(3: 1.5 to 2.0),**

**Hence, PSO is attained.**

- **(PSO-C) = 80% (3+3+3+3+3+3)/6=3.00 + 20% (3+3+3+3+3)/3=3,**

**80% (3.00) +20%(3) =6.00/2=3.00, i.e. Level-5, The Target Level is-3(3: 1.5 to 2.0),**

**Hence, PSO is attained.**

- **(PSO-D) = 80% (3+3+3+3)/4=3.00 + 20% (3+3+3+3)/4=3.00**

**80% (3.00)+20% (3)=6.00/2=3.00, i.e.Level-5, The Target Level is L-3(3: 1.5 to 2.0),Hence, PSO is attained.**

- **(PSO-E) = 80% (3+3+3+3)/4=3.00 + 20% (3+3+3+3)/4=3,**

**80% (3) + 20% (3) =3.00/2= 3.00, i.e. Level-5, The Target Level- 3(3: 1.5 to 2.0),**

**Hence, PSO is attained.**

- **(PSO-F) = 80% (3+3+3)/3=3.00 + 20% (3+3+3)/3=3,**

**80% (3) + 20% (3) =6.00/2=3.00, i.e. Level-5, The Target Level- 3(3: 1.5 to 2.0),**

**Hence, PSO is attained.**

- **(PSO-G) = 80% (3+3+3+3)/4=3.00 + 20% (3+3+3+3)/4=3, 80% (3.00) + 20% (3) =6.00/2=3.00, i.e. Level-5, The Target Level- 3(3: 1.5 to 2.0),**



Hence, PSO is attained.

**Table No. 2- POs/PSOs Attainment Level**

PO/PSO Number	Target Attainment Level-3, Very Good (3: 1.5 to 2.0)	PO/PSOs Attainment Level-5 Excellent: (2.5 to 3.0)		Fully Attained/ Not Attained	Remedial Measures
		Value	Level		
PSO-A	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-B	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-C	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-D	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-E	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-F	3	<b>3.00</b>	<b>5</b>	Fully Attained	-
PSO-G	3	<b>3.00</b>	<b>5</b>	Fully Attained	-

**Hence, the attainment level is Level-3 and the set target level is Level-2 and therefore the PO & PSO is partially attained.**

**9. Planned Actions for Course Attainment:**

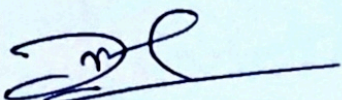
The courses for which the level attained is less than Level-2, the remedial measures will be taken in plan way that includes, tutorial, assignments, field work and remedial coaching.

**10. Planned Actions for Program Outcome Attainment: - Not Applicable.**

## ANNEXURE-B RESULTS OF CO-PO ATTAINMENT

Sr. No	Course Title	PSO-A	PSO-B	PSO-C	PSO-D	PSO-E	PSO-F	PSO-G
1.	Paper No-VII Micro Economics			3				
2.	Paper No-VIII Research Methodology in Economics-I							3
3.	Paper No-IX History of Economic Thoughts-I	3		3	3			
4.	Paper No-X Economics of Development	3				3		
5.	Paper No-XI International Economics-I	3	3	3	3	3	3	3
6.	Paper No-XII Market and Pricing	3		3				
7.	Paper No-XIII Research Methodology in Economics-II							3
8.	Paper No-XIV History of Economic Thoughts-II	3		3	3			
9.	Paper No-XV Economics of Planning	3				3	3	
10.	Paper No-XVI International Economics-I	3	3	3	3	3	3	3
<b>Average</b>		3	3	3	3	3	3	3

**Conclusion- Hence, on considering the set target levels and the attainment levels we can conclude that, the CO, PO & PSO is fully attained**



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