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DEPARTMENT OF ECONOMICS

ECONOMICS OBE PROCESS

Academic Year 2021-2022

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 Corse-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	PO1 -A	PO2 -B	PO 3-C	PO4- D	PO5 -E	PO 6-F	PO7 -G
1.	DSE E-71Principles of Economics-I	√				√		
2.	DSE-E-72Economics of Development	√			√		√	
3.	DSE-E73International Economics	√		√	√		√	
4.	DSE-E74 Research Methodology in Economics-I	√		√				√
5.	DSE-E75History of Economic Thoughts-I	√			√			√
6.	DSE-E196Principles of Micro Economics-II	√				√		
7.	DSE-E197Economics of planing	√	√		√		√	
8.	DSE-E198 International Economics-II	√		√	√		√	
9.	DSE-E-199Research Methodology in Economics-II	√		√				√
10.	DSE-E-200 History of Economic Thoughts-II	√			√			√

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
2.	Level-2:	40% of students score more than the class average
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.	Level-3	Good: 3: 1.5 to 2.0
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 IX: DSE-E1 Mathematical Physics

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.DSE -E-71 -Principles of Micro Economics - I		
Average Marks in External examination:	25	
% Students score more than 25 is =8	80%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper No.VII.DSE -E-71 -Principles of Micro Economics - I		
	=	80% (3) +20% (3)
	=	2.4+0.6
	=	3

Paper No.VIII.DSE-E-72 Economics of Development		
Average Marks in External examination:	26	
% Students score more than 26 is = 5	50%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper No.VIII.DSE-E-72 Economics of Development		
	=	80% (3) +20 % (3)
	=	2.4+0.6
	=	3

Paper No.IX.DSE-E-73 International Economics-I		
Average Marks in External examination:	26	
% Students score more than 26 is =7	70%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper No.IX.DSE-E-73 International Economics-I		
	=	80% (3) 20%(3)
	=	2.4+0.6
	=	3

Paper NO. X. : DSE-E- 74 ,Research Methodology in Economics -I		
Average Marks in External examination:	27	
% Students score more than 27 is = 07	70%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper NO. X. : DSE-E- 74 ,Research Methodology in Economics -I		
	=	80% (3) +20 %(3)
	=	2.4+0.6
	=	3

Paper No. XI: DSE-E ,75 History of Economic Thoughts -I		
Average Marks in External examination:	26	
% Students score more than 26 is =7	70%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is =10	80%	Level: 3
A(CO) Paper No. XI: DSE-E ,75 History of Economic Thoughts -I		
	=	80% (3) +20 %(3)
	=	2.4+0.6
	=	3

Paper XII: DSE-E-196 Principles of Micro Economics -II		
Average Marks in External examination:	25	
% Students score more than 25 is = 8	80%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper XII: DSE-E-196 Principles of Micro Economics -II		
	=	80% (3) +20% (3)
	=	2.4+0.6
	=	3

Paper No. XIII: DSE-E- 197 Economics of Planning		
Average Marks in External examination:	29	
% Students score more than 29 is =9	90%	Level: 3
Average Marks in Internal examination	9	
% Students score more than 8 is =10	100%	Level: 3
A(CO) Paper No. XIII: DSE-E- 197 Economics of Planning		
	=	80% (3) +20%(3)
	=	2.4+0.6
	=	3

Paper .NO. XIV: DSE-E-198 International Economics-II		
Average Marks in External examination:	29	
% Students score more than 29 is=10	100%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is 10	100%	Level: 3
A(CO) Paper .NO. XIV: DSE-E-198 International Economics-II		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

Paper No. XV DSE- E-199 Research Methodology-II		
Average Marks in External examination:	29	
% Students score more than 29 is=10	100%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is 10	100%	Level: 3
A(CO) Paper No. XV DSE- E-199 Research Methodology-II		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

Paper No. XVI DSE- E-200 History of Economic Thought-II		
Average Marks in External examination:	28	
% Students score more than 28 is=10	100%	Level: 3
Average Marks in Internal examination	8	
% Students score more than 8 is 10	100%	Level: 3
A(CO) Paper No. XVI DSE- E-200 History of Economic Thought-II		
	=	80% (3) +20(3)
	=	2.4+0.6
	=	3

Table No. 1.0: CO Attainment Level

Course Title	Target Attainment	Course Attainment		Fully Attained/ Not Attained	Remedial Measures
	Level	Value %	Level		
DSE E-71 Principles of Economics-I	2	90	3	Fully Attained	
DSE-E-72 Economics of Development	2	75	3	Fully Attained	
DSE-E73 International Economics	2	85	3	Fully Attained	
DSE-E74 Research Methodology in Economics-I	2	85	3	Fully Attained	
DSE-E75 History of Economic Thoughts-I	2	75	3	Fully Attained	
DSE-E196 Principles of Micro Economics-II	2	90	3	Fully Attained	
DSE-E197 Economics of planning	2	95	3	Fully Attained	
DSE-E198 International Economics-II	2	90	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).

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).

$$\bullet \text{ (PSO-A) } = 80\% \frac{(3+3+3+3+3+3+3+3+3+3)}{10}=3.00 + 20\% \frac{(3+3+3+3+3+3+3+3+3+3)}{10}=3,$$

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.

$$\bullet \text{ (PSO-B) } = 80\% (3)/1=3.00 + 20\% (3)/1=3,$$

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.

$$\bullet \text{ (PSO-C) } = 80\% (3+3+3+3)/4=3.00 + 20\% (3+3+3+3)/4=3,$$

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

Hence, PSO is attained.

$$\bullet \text{ (PSO-D) } = 80\% (3+3+3+3+3+3)/6=3.00 + 20\% (3+3+3+3+3+3)/6=3.00$$

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.**

$$\bullet \text{ (PSO-E) } = 80\% (3+3)/2=3.00 + 20\% (3+3)/2=3,$$

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.

$$\bullet \text{ (PSO-F) } = 80\% (3+3+3+3)/4=3.00 + 20\% (3+3+3+3)/4=3,$$

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.

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

Hence, PSO is attained.



9. Planned Actions for Course Attainment:

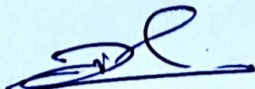
The courses for which the level attained is less than Level-2, the remedial measures will be taken in plan way that includes, tutorial, assignments, field work and remedial coaching.


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.	DSE E-71 Principles of Economics-I	3				3		
2.	DSE-E-72 Economics of Development	3			3		3	
3.	DSE-E73 International Economics	3		3	3		3	
4.	DSE-E74 Research Methodology in Economics-I	3		3				3
5.	DSE-E75 History of Economic Thoughts-I	3			3			3
6.	DSE-E196 Principles of Micro Economics-II	3				3		
7.	DSE-E197 Economics of planning	3	3		3		3	
8.	DSE-E198 International Economics-II	3		3	3		3	
9.	DSE E-71 Principles of Economics-I	3		3				3
10.	DSE-E-72 Economics of Development	3			3			3
Average		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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