

Shetkari Shikshan Prasarak Mandal's
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DEPARTMENT OF MARATHI
MARATHI OBE PROCESS
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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 his/her course in 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	A	B	C	D	E	F
1.	Marathi Paper VII काव्यशास्त्र	√				√	√
2.	Marathi Paper VIII भाषाविज्ञान आणि मराठी भाषा	√	√	√	√		√
3.	Marathi Paper : मराठी वाङ्मयाचा इतिहास	√		√		√	√
4.	Marathi Paper X : मराठी भाषा उपयोजन आणि सर्जन	√	√	√	√	√	√
5.	Marathi Paper XI वाङ्मय प्रवाहाचे अध्ययन : ग्रामीण	√				√	√
6.	Marathi Paper XII: काव्यशास्त्र	√				√	√
7.	Marathi Paper XIII भाषाविज्ञान आणि मराठी भाषा	√	√	√	√	√	√

8.	Marathi Paper XIV : मराठी वाङ्मयाचा इतिहास	√		√		√	√
9.	Paper XV : मराठी भाषा उपयोजन आणि सर्जन	√	√	√	√		√
10.	Marathi Paper XVI वाङ्मय प्रवाहाचे अध्ययन : दलित	√	√			√	√

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 course (subject) teaching. The focus is on development of abilities rather than mere content. There can be 5 to 7 course outcomes of any course. These are to be written in the specific terms and not in general. The list of Course Outcomes is the part of **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. The CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess students' performance with respect to abilities (at the end of course teaching/by the end of program) the course outcome attainment are 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. The 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 program) the course outcome attainment and program outcome attainment is 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 is adopted to calculate the PO attainment. **The direct method implies the attainment by course outcomes contributing to respective program outcomes. And indirect method is the satisfaction/feed-back 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% students scored more than class average
2.	Level-2:	40% students score more than class average
3.	Level-3	50% students score more than 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 class average**. The CO attainment is measured and the results are obtained. Based on the results of attainment, the corrective measures/remedial action are 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 feed-back survey (Indirect method);**
- c. The PO attainment levels are defined/set as stated below;

Sr. No	Level	PSO 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 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: Marathi **Paper VII** : काव्यशास्त्र

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

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

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

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

Paper VII: काव्यशास्त्र		
Average Marks in External examination:	26	
% Students score more than 26 is	50.0	Level 3
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper VII काव्यशास्त्र		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper VIII: भाषाविज्ञान आणि मराठी भाषा		
Average Marks in External examination:	21	
% Students score more than 21 is	50	Level 3
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper VIII भाषाविज्ञान आणि मराठी भाषा		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper IX :मराठी वाङ्मयाचा इतिहास		
Average Marks in External examination:	18	
% Students score more than 18 is	50	Level 3
Average Marks in Internal examination	10	
% Students score more than 9 is	100	Level 3
A(CO) Paper No IX मराठी वाङ्मयाचा इतिहास		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper X : मराठी भाषा उपयोजन आणि सर्जन		
Average Marks in External examination:	22	
% Students score more than 22 is	62.5	Level 3
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper X : मराठी भाषा उपयोजन आणि सर्जन		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper XI वाङ्मय प्रवाहाचे अध्ययन : मध्ययुगीन		
Average Marks in External examination:	26	
% Students score more than 26 is	50	Level 3
Average Marks in Internal examination	10	
% Students score more than 9 is	100	Level 3
A(CO) Paper XI वाङ्मय प्रवाहाचे अध्ययन : ग्रामीण		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper XII: काव्यशास्त्र		
Average Marks in External examination:	24	
% Students score more than 24 is	50	Level 3
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper XII काव्यशास्त्र		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper XIII: भाषाविज्ञान आणि मराठी भाषा		
Average Marks in External examination:	25	
% Students score more than 25 is	75	Level 3
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper XIII भाषाविज्ञान आणि मराठी भाषा		
	=	80% (3) +20 (3)
	=	2.4+0.6
	=	3

Paper XIV :मराठी वाङ्मयाचा इतिहास		
Average Marks in External examination:	18	

% Students score more than 18 is	37.5	Level 2
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper No XIV मराठी वाङ्मयाचा इतिहास		
=	80% (2) +20 (3)	
=	1.6+0.6	
=	2.2	

Paper XV: मराठी भाषा उपयोजन आणि सर्जन		
Average Marks in External examination:	21	
% Students score more than 21 is	37.5	Level 2
Average Marks in Internal examination	10	
% Students score more than 10 is	100	Level 3
A(CO) Paper XV : मराठी भाषा उपयोजन आणि सर्जन		
=	80% (2) +20 (3)	
=	1.6+0.6	
=	2.2	

Paper XVI वाङ्मय प्रवाहाचे अध्ययन : मध्ययुगीन		
Average Marks in External examination:	23	
% Students score more than 23 is	37.5	Level 2
Average Marks in Internal examination	10	
% Students score more than 9 is	100	Level 3
A(CO) Paper XVI वाङ्मय प्रवाहाचे अध्ययन : ग्रामीण		
=	80% (2) +20 (3)	
=	1.6+0.6	
=	2.2	

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	Course Attainment Value	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
Marathi Paper VII काव्यशास्त्र	3	2	Fully Attained	
Marathi Paper VIII भाषाविज्ञान आणि मराठी भाषा	3	2	Fully Attained	
Marathi Paper : मराठी वाङ्मयाचा इतिहास	3	2	Fully Attained	
Marathi Paper X : मराठी भाषा उपयोजन आणि सर्जन	3	2	Fully Attained	
Marathi Paper XI वाङ्मय प्रवाहाचे अध्ययन : ग्रामीण	3	2	Fully Attained	
Marathi Paper XII: काव्यशास्त्र	3	2	Fully Attained	
Marathi Paper XIII भाषाविज्ञान आणि मराठी भाषा	3	2	Fully Attained	
Marathi Paper XIV : मराठी वाङ्मयाचा इतिहास	2	2	Fully Attained	
Paper XV : मराठी भाषा उपयोजन आणि सर्जन	2	2	Fully Attained	
Marathi Paper XVI वाङ्मय प्रवाहाचे अध्ययन : दलित	2	3	Fully Attained	

8. The Results of PSO 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).

$$(PSO-A) = 80\% \quad (3+3+3+3+3+3+3+2+2+2)/10 \quad =2.7 \quad + \quad 20\%$$

$$(3+3+3+3+3+3+3+3+3+3)/10 = 3,$$

80% (2.7) + 20% (3) = 5.7/2 = **2.85**, i.e. Level-5. The Target Level is Level-3. (3:1.5 to 2.0)

Hence, PO is attained

$$(PSO-B) = 80\% (3+3+3+2+2)/05 = 2.2 + 20\% (3+3+3+3+3)/5 = 3,$$

80% (2.2) + 20% (3) = 5.2/2 = **2.6** i.e. Level-5. The Target Level is Level-3. (3:1.5 to 2.0)

Hence, PO is attained

$$\text{(PSO-C)} = 80\% (3+3+3+3+2+2)/06=2.66 + 20\% (3+3+3+3+3+3)/6=3,$$

$$80\% (2.66) + 20\% (3) = 3 = 5.66/2 = 2.83 \text{ i.e. Level-5. The Target Level is Level-3.}$$

Hence, PO is attained

$$\text{(PSO-D)} = 80\% (3+3+3+2)/04=2.75 + 20\% (3+3+3+3/4 = 3,$$

$$80\% (2.75) + 20\% (3) = 5.75/2 = 2.87 \text{ i.e. Level-5. The Target Level is Level-3.}$$

Hence, PO is attained

$$\text{(PSO-E)} = 80\% (3+3+3+3+3+3+2+2)/08 = 2.75 + 20\% (3+3+3+3+3+3+3+3)/8 = 3,$$

$$80\% (2.75) + 20\% (3) = 5.75/2 = 2.87 \text{ i.e. Level-5. The Target Level is Level-3.}$$

Hence, PO is attained

$$\text{(PSO-F)} = 80\% (3+3+3+3+3+3+3+3+2+2+2)/10 = 2.7 + 20\%$$

$$(3+3+3+3+3+3+3+3+3+3)/10 = 3$$

$$80\% (2.7) + 20\% (3) = 5.7/2 = 2.85 \text{ i.e. Level-5. The Target Level is Level-3.}$$

Hence, PO is attained

Table No. 2. PSO Attainment Level

PO/PSO Number	Target Attainment Level -3 Very Good .3:1.5 to2.0)	PO/PSOs Attainment Value Excellent (2.5 to 3)		Fully Attained/ Not Attained	Remedial Measures
		Value	Level		
PSO-A	3	2.85	5	Fully Attained	
PSO-B	3	2.6	5	Fully Attained	
PSO-C	3	2.83	5	Fully Attained	
PSO-D	3	2.87	5	Fully Attained	
PSO-E	3	2.87	5	Fully Attained	
PSO-F	3	2.85	5	Fully 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
1.	Marathi Paper VII काव्यशास्त्र	3				3	3
2.	Marathi Paper VIII भाषाविज्ञान आणि मराठी भाषा	3	3	3	3		3
3.	Marathi Paper : मराठी वाङ्मयाचा इतिहास	3		3		3	3
4.	Marathi Paper X : मराठी भाषा उपयोजन आणि सर्जन	3	3	3	3	3	3
5.	Marathi Paper XI वाङ्मय प्रवाहाचे अध्ययन : ग्रामीण	3				3	3
6.	Marathi Paper XII: काव्यशास्त्र	3				3	3
7.	Marathi Paper XIII भाषाविज्ञान आणि मराठी भाषा	3	3	3	3	3	3
8.	Marathi Paper XIV : मराठी वाङ्मयाचा इतिहास	2		2		2	2
9.	Paper XV : मराठी भाषा उपयोजन आणि सर्जन	2	2	2	2		2
10.	Marathi Paper XVI वाङ्मय प्रवाहाचे अध्ययन : दलित	2	2			2	2
Average		2.85	2.6	2.83	2.87	2.87	2.85



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