

Mechanism for framing Learning Outcomes and Measuring their

Attainment Step 1: Defining the Vision and Mission of the Department.

- Vision :**
1. विद्यार्थियों के गुणात्मक उन्नति पर ध्यान केंद्रित करना।
 2. सामाजिक मानवीय मूल्यों की रक्षा करना।
 3. हिंदी विषय के प्रति विद्यार्थियों में रुचि निर्माण करना।
 4. राष्ट्रीय एकता में बढ़ोत्तरी करना

- Mission :**
1. साहित्य आस्वादन तथा मूल्यांकन क्षमता का करना।
 2. हिंदी भाषा एवं साहित्य को समकालीन परिपेक्ष्य के साथ जोड़ देना।
 3. छात्रों को भाषिक कौशल्य द्वारा रोजगारन्मुख निर्माण करना।
 4. नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
 5. छात्रों की विचार क्षमता तथा कल्पनाशीलता का विकास करना।

Step 2: Defining Program Outcomes (PO's) and Program Specific Outcomes (PSO's) of the program.

Program Outcomes: B.A.

After completion of B. A. program Students will be able to,

- PO1: छात्रों को हिंदी के विभिन्न विधाओं के माध्यम से साहित्यकारों की रचनाओं का ज्ञान प्राप्त हुआ।
PO2: विद्यार्थियों को हिंदी भाषा की रुचि बढ़ गई।
PO3: विद्यार्थी का लेखन कौशल विकसित हुआ।
PO4: विद्यार्थियों को भाषा के विविध बोलियों का ज्ञान अवगत हुआ।

Program Specific Outcomes: B.A. Hindi

After completion of graduation in B. A. Hindi students will be able to,

- PSO1: छात्रों को रचनाकारों के विधाओं के माध्यम से उनकी जानकारी प्राप्त हुई।
PSO2: सामाजिक, सांस्कृतिक, राजनीतिक और साहित्य की जानकारी विद्यार्थियों को प्राप्त हुई।
PSO3: हिंदी की विभिन्न विधाओं के ज्ञान से छात्र के लेखन की रुचि बढ़ गई।
PSO4: हिंदी के पाठ्यक्रम का अध्ययन करने के बाद विद्यार्थियों की वैचारिक और संशोधन दृष्टि प्राप्त हुई।

Course Outcomes:

B.A.I Sem.- I हिंदी कविता पेपर – I

Course Outcomes: After successful completion of this course, the students will be able to:

- CO1 : आधुनिक हिंदी के प्रतिनिधि कविताओं की जानकारी प्राप्त हुई।
CO2: पद्यात्मक रचना के प्रति रुचि बढ़ गई।

B.A.I Sem.- II हिंदी गद्य साहित्य पेपर – II

Course Outcomes: After successful completion of this course, the students will be able to:

- CO3: हिंदी के प्रतिनिधि गद्य रचनाकारों का परिचय हुआ।
CO4: निबंध, एकांकी, व्यंग्य तथा कहानी आदि विधाओं के माध्यम से विद्यार्थियों की भावात्मक विकास हुआ।

B.A.II Sem.- III: अस्मितामूलक विमर्श और हिंदी गद्य साहित्य पेपर – III

Course Outcomes: After successful completion of this course, the students will be able to:

- CO5: कथा साहित्य का स्वरूप, तत्व एवं प्रकारों की जानकारी प्राप्त हुई।



CO6: कथा और कथेत्तर साहित्य को वर्तमान प्रासंगिकता के साथ अवगत किया ।

B.A.II Sem.- III हिंदी संत काव्य तथा राष्ट्रीय काव्यधारा पेपर – IV

Course Outcomes: After successful completion of this course, the students will be able to:

CO7: मध्यकालीन संत कवियों तथा आधुनिक हिंदी कविता की जानकारी प्राप्त हुई ।

CO8: विद्यार्थियों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण हुई ।

B.A.II Sem.- IV: हिंदी में रोजगार के अवसर पेपर – V

Course Outcomes: After successful completion of this course, the students will be able to:

CO9: हिंदी में रोजगार के अवसरों की जानकारी प्राप्त हुई।

CO10: विद्यार्थि रोजगार से आत्मनिर्भर होंगे।

B.A. II Sem.- अस्मितामूलक विमर्श और हिंदी पद्य साहित्य पेपर – VI

Course Outcomes: After successful completion of this course, the students will be able to:

CO11: ममता कालिया की व्यक्तित्व एवं कृतित्व की जानकारी प्राप्त हुई ।

CO12: कितने प्रश्न करो खंडकाव्य को आज के समकालीन परिप्रेक्ष्य में अवगत कराया।

CO13 : कितने प्रश्न करो खंडकाव्य के कथानक की जानकारी प्राप्त हुई ।

B.A. III Sem.-V विधा विशेष का अध्ययन- (पेपर- 7) DSE- E 6

Course Outcomes: After successful completion of this course, the students will be able to:

CO14: नाटककार कुसुम कुमार के साहित्य से छात्र परिचित हुए।

CO15: दिल्ली ऊंचा सुनती है नाटक को समकालीन परिप्रेक्ष्य में अवगत कराया।

CO16 : नाटककार कुसुम कुमार के विचारधारा की जानकारी मिली ।

B.A. III Sem.-V साहित्यशास्त्र (पेपर- 8) DSE – E 7

Course Outcomes: After successful completion of this course, the students will be able to:

CO17: साहित्य की काव्य तत्वों की जानकारी मिली।

CO18: साहित्य निर्मिती प्रक्रिया से अवगत कराया।

CO19: अलंकारों की जानकारी प्राप्त हुई।

B.A. III Sem.-V हिंदी साहित्य का इतिहास (पेपर- 9) DSE – E 8

Course Outcomes: After successful completion of this course, the students will be able to:

CO20: आदिकालीन और भक्तिकालीन विभिन्न परिस्थितियों की जानकारी मिली।

CO21: आदिकालीन तथा भक्तिकालीन प्रमुख संत कवियों के रचनाओं से अवगत हुए ।

B.A.III Sem.- V प्रयोजनमूलक हिंदी(पेपर-10) DSE – E 9

Course Outcomes: After successful completion of this course, the students will be able to:

CO22: छात्रों को पारिभाषिक शब्दावली और इलेक्ट्रॉनिक माध्यमों का परिचय हुआ।

CO23: रोजगार परक हिंदी भाषा की उपयोगिता से अवगत हुए ।

B.A. III Sem-V भाषा विज्ञान और हिंदी भाषा (पेपर- 11) DSE – E 10

Course Outcomes: After successful completion of this course, the students will be able to:

CO24: भाषा के विविध रूपों का तथा मानक वर्तनी और व्याकरण से अवगत हुए ।

CO25: हिंदी भाषा और हिंदी लिपि की जानकारी मिली ।

B.A. III Sem-VI विधा विशेष का अध्ययन (पेपर- 12) DSE E 131

Course Outcomes: After successful completion of this course, the students will be able to:

CO26: चंद्रकांता के व्यक्तित्व एवं कृतित्व का परिचय हुआ ।

CO27 :अंतिम साक्ष्य उपन्यास को समकालीन परिप्रेक्ष्य में प्रस्तुत किया ।

CO28: उपन्यास की तात्विक स्वरूप की जानकारी मिली।

B.A. III Sem-VI साहित्यशास्त्र और हिंदी आलोचना (पेपर- 13) DSE – E 132

Course Outcomes: After successful completion of this course, the students will be able to:

CO29: साहित्यशास्त्र के अंगों का परिचय हुआ ।



CO30: आलोचना के गुण और विशेषताओं की जानकारी मिली ।
CO31: काव्यशास्त्र को लेकर भारतीय चिंतन का परिचय प्राप्त करते हैं।

B.A. III Sem-VI हिंदी साहित्य का इतिहास (पेपर- 14) DSE – E 133

Course Outcomes: After successful completion of this course, the students will be able to:

CO32: रीतिकाल और आधुनिक काल के परिस्थिति और नामकरण की जानकारी मिली।

CO33: युग प्रवर्तक साहित्यकार और गद्य साहित्य से अवगत हुए ।

CO34: हिंदी के गद्य के विभिन्न विधाओं और रीतिकालीन साहित्य से परिचित हुए हैं।

B.A.III SEM-VI प्रयोजनमूलक हिंदी (पेपर-15) DSE– E 134

Course Outcomes: After successful completion of this course, the students will be able to:

CO35: पारिभाषिक शब्दावली तथा जनसंचार माध्यमों का परिचय हुआ।

CO36: अनुवाद के विविध अंगों की जानकारी मिली।

CO37: समकालीन समय में अनुवाद की उपयोगिता को अवगत कराया ।

B.A. III SEM-VI भाषा विज्ञान और हिंदी भाषा। (पेपर- 16) DSE – E 135

Course Outcomes: After successful completion of this course, the students will be able to:

CO38: भाषा की वैज्ञानिकता से परिचित हुए।

CO39: भाषा विज्ञान के प्रधान अंगों की जानकारी मिली ।

CO40: भाषा की शुद्धता के प्रति विद्यार्थी जागृत हुए ।



Step 4: Defining relation between Course Outcomes (COs) and POs/PSOs for each course to obtain overall CO mapping with each POs/PSOs. (Course Articulation Matrix)

In this step, CO's of each course are mapped with PO's & PSO's. A correlation is established between CO's and PO's / PSO's in the scale of 0 to 3. 0 if there is no correlation between CO's and PO's / PSO's, 1 being low, 2 being median and 3 being high.

For example, suppose program XYZ (say) has 4 PO's & 4 PSO's. Then, course articulation matrix for a course – 1 (say) with two CO's is as follows.

CO's – PO's & PSO's mapping matrix (1-low, 2-medium, 3-high, 0-No correlation)

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	3	2	2	1	3	2	3	3
CO 1.2	3	2	2	0	2	2	2	3

In the same way we have course articulation matrices for all courses in that Program.

CO's – PO's & PSO's mapping matrix (1-low, 2-medium, 3-high, 0-No correlation)

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	3	2	2	1	3	2	3	3
CO 1.2	3	2	2	0	2	2	2	3
CO 2.1	3	2	2	1	3	2	3	3
CO 2.2	2	2	2	0	2	2	2	3
CO 3.1	3	2	2	2	3	2	3	3
CO 3.2	2	2	1	1	3	2	2	3
CO 4.1	3	2	2	2	3	3	3	3
CO 4.2	3	2	2	1	2	2	2	3
CO 5.1	2	2	2	1	2	1	2	3
CO 5.2	1	2	3	0	1	2	2	3
CO 5.3	3	2	2	2	3	3	3	3
CO 5.4	2	2	3	1	2	2	2	3
CO 6.1	3	2	2	1	3	3	3	3



CO 6.2	2	2	2	1	2	2	2	3
CO 7.1	2	2	3	1	1	2	3	3
CO 7.2	1	2	2	0	1	2	2	3
CO 8.1	3	2	2	1	2	3	3	3
CO 8.2	3	2	2	1	2	2	3	3
CO 9.1	2	2	2	2	1	2	3	3
CO 9.2	1	2	2	2	0	1	2	3
CO 10.1	1	2	3	3	1	2	3	3
CO 10.2	1	2	2	3	0	2	2	3
CO 10.3	3	2	2	1	3	2	3	3
CO 10.4	2	2	2	1	2	3	2	3
CO 11.1	2	2	3	1	1	2	3	3
CO 11.2	2	2	2	1	1	2	3	3
CO 12.1	3	2	2	2	3	3	3	3
CO 12.2	3	2	2	1	2	3	2	3
CO 13.1	1	3	2	2	1	2	3	3
CO 13.2	1	2	3	1	1	2	3	3
CO 14.1	1	2	2	3	1	2	3	3
CO 14.2	1	2	2	3	0	2	3	3
CO 15.1	3	2	2	1	3	2	3	3
CO 15.2	3	2	2	0	2	2	2	3
CO 16.1	3	2	2	1	3	2	3	3
CO 16.2	2	2	2	0	2	2	2	3



Step 5: Development of overall CO's-PO's mapping matrix for all courses (Program ArticulationMatrix).

The CO levels corresponding to each PO/PSO in course articulation matrix are averaged to obtain overall level of relation of course with each PO & PSO. For example, the overall relation of course – 1 (say) are reported the following matrix.

CO's	PO's / PSO's							
	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO 1.1	3	2	2	1	3	2	3	3
CO 1.2	3	2	2	0	2	2	2	3
Average($X_{1,..,i}$)	3	2	2	0.5	2.5	2	2.5	3

Similarly, the overall level of relation of all the courses in the program is established. These levels are reported in the matrix form and this matrix is called as the program articulation matrix. For example, if the program XYZ has 16 courses then the program articulation matrix will be as follows.

Program Articulation Matrix

ID	Course name	$X_{i,..,1}$	$X_{i,..,2}$	$X_{i,..,3}$	$X_{i,..,4}$	$X_{i,..,5}$	$X_{i,..,6}$	$X_{i,..,7}$	$X_{i,..,8}$
C_1	Course_1	3	2	2	0.5	2.5	2	2.5	3
C_2	Course_2	2.5	2	2	0.5	2.5	2	2.5	3
C_3	Course_3	2.5	2	1.5	1.5	3	2	2.5	3
C_4	Course_4	3	2	2	1.5	2.5	2.5	2.5	3
C_5	Course_5	1.5	2	2.5	0.5	1.5	1.5	2	3
C_6	Course_6	2.5	2	2.5	1.5	2.5	2.5	2.5	3
C_7	Course_7	2.5	2	2	1	2.5	2.5	2.5	3
C_8	Course_8	1.5	2	2.5	0.5	1	2	2.5	3
C_9	Course_9	3	2	2	1	2	2.5	3	3
C_{10}	Course_10	1.5	2	2	2	0.5	1.5	2.5	3
C_{11}	Course_11	1	2	2.5	3	0.5	2	2.5	3
C_{12}	Course_12	2.5	2	2	1	2.5	2.5	2.5	3
C_{13}	Course_13	2	2	2.5	1	1	2	3	3
C_{14}	Course_14	3	2	2	1.5	2.5	3	2.5	3
C_{15}	Course_15	1	2.5	2.5	1.5	1	2	3	3
C_{16}	Course_16	1	2	2	3	0.5	2	3	3



Step 6: Methodology for measuring of Course Outcomes (CO's), Program Specific Outcomes(PSO's) and Program Outcomes (PO's) and setting up the target level.

In this step, methodology for measuring the attainment level of learning outcomes is defined and the target levels for the batch are defined.

► **Methodology for the attainment of learning outcomes for this year:**

Details of a program:

- Name of the Program: XYZ
- Program has n_1 PO's, say, $PO_1, PO_2, \dots, PO_{n_1}$
- Program has n_2 PSO's, say, $PSO_1, PSO_2, \dots, PSO_{n_2}$

Let $n = n_1 + n_2$, total number of PO's and PSO's.

- For convenience, let us denote the PO's & PSO's $PO_1, PO_2, \dots, PO_{n_1}, PSO_1, PSO_2, \dots, PSO_{n_2}$ by P_1, P_2, \dots, P_n
- Program has m courses, say, C_1, C_2, \dots, C_m
- Each course C_i has k course outcomes (CO's) denoted as $CO_{i,1}, CO_{i,2}, \dots, CO_{i,k}$, $i = 1, 2, \dots, m$. and k represents the number of outcomes particularly that of course.

Course articulation matrices and program articulation matrix are obtained as discussed in previous steps. Let $X_{i,j,l}$ be the level of correlation of $CO_{i,j}$ with P_l where, $i = 1, 2, \dots, m$, $j = 1, 2, \dots, k$, $l = 1, 2, \dots, n$. Then, the overall CO levels with PO's & PSO's of course C_i is computed as

$$X_{i,l} = \frac{1}{k} \sum_{j=1}^k X_{ijl} \text{ Here } k \text{ be the number of outcome in the average course taken.}$$



► **Attainment of COs:**

The CO attainment levels are measured based on the results of the internal assessment and external examination conducted by the university. The CO attainment level based on internal assessment and external assessment are computed separately.

Attainment levels based on internal/external assessment method are defined as follows:

Level 1: Average of student marks belongs to the class 0% - 20% for that assessment method
Level 2: Average of student marks belongs to the class 20% - 40% for that assessment method
Level 3: Average of student marks belongs to the class 40% - 60% for that assessment method
Level 4: Average of student marks belongs to the class 60% - 80% for that assessment method
Level 5: Average of student marks belongs to the class 80%-100% for that assessment method

Let ALC_E and ALC_I be the CO attainment level of the course based on external assessment and internal assessment respectively. The overall CO attainment of the course is calculated by taking 100% weight age to external assessment .

$$ALC = ALC_E.$$

Let $ALC_1, ALC_2, \dots, ALC_m$ be the attainment levels of the courses C_1, C_2, \dots, C_m respectively. The overall course attainment levels are categorized as below,

- Level 1: Poor – if $0 < ALC_i \leq 1$,
- Level 2: Average – if $1 < ALC_i \leq 2$,
- Level 3: Good – if $2 < ALC_i \leq 3$,
- Level 4: Very Good – if $3 < ALC_i \leq 4$,
- Level 5: Excellent – if $4 < ALC_i \leq 5$.

For every course, we have set Very Good – Attained as target level that is we are aiming minimum level 4 (very good) and how the course status is attained in the performance of abilities of students.

At the end we will have attainment levels of all the courses,

ID	Course name	ALC_i	Level	Status
C_1	Course_1	4	Very Good	Attained
C_2	Course_2	3	Good	Not Attained
C_3	Course_3	3	Good	Not Attained
C_4	Course_4	3	Good	Not Attained
C_5	Course_5	4	Very Good	Attained
C_6	Course_6	5	Excellent	Attained



C ₇	Course_7	3	Good	Not Attained
C ₈	Course_8	3	Good	Not Attained
C ₉	Course_9	4	Very Good	Attained
C ₁₀	Course_10	4	Very Good	Attained
C ₁₁	Course_11	5	Excellent	Attained
C ₁₂	Course_12	5	Excellent	Attained
C ₁₃	Course_13	3	Good	Not Attained
C ₁₄	Course_14	3	Good	Not Attained
C ₁₅	Course_15	4	Very Good	Attained
C ₁₆	Course_16	4	Very Good	Attained

Step 7: Calculation of attainment levels of PO's and PSO's.

► Attainment of PO's & PSO's:

The attainment of PO's & PSO's are calculated using direct method. In direct method the attainment of PO's & PSO's are calculated through the attainment levels of courses. The course attainment values (ALC_i, i = 1, 2, 3, ..., m.) and the overall level of relation of course with each PO and PSO (X_{i, l}, i = 1, 2, 3, ..., m, l = 1, 2, 3, ..., n.) are used to compute direct attainment level of each PO and PSO.

Direct Assessment: Direct attainment level of the lth, PO's & PSO's is calculated as follows.

$$DALP_l = \frac{1}{\sum_{i=1}^m ALC_i} \sum_{i=1}^m x_{i,l} * ALC_i, l=1,2,\dots,n.$$

ID	Course name	ALC _i	X _{i, l}	ALC _i * X _{i, l}
C ₁	Course_1	4	3	12
C ₂	Course_2	3	2.5	7.5
C ₃	Course_3	3	2.5	7.5
C ₄	Course_4	3	3	9
C ₅	Course_5	4	1.5	6
C ₆	Course_6	5	2.5	12.5
C ₇	Course_7	3	2.5	7.5
C ₈	Course_8	3	1.5	4.5
C ₉	Course_9	4	3	12
C ₁₀	Course_10	4	1.5	6
C ₁₁	Course_11	5	1	5
C ₁₂	Course_12	5	2.5	12.5
C ₁₃	Course_13	3	2	6



C_{14}	Course_14	3	3	9
C_{15}	Course_15	4	1	4
C_{16}	Course_16	4	1	4
				125
Sum		60		
$DALP_1=125/60$			2.08333	

Similarly, we have to find attainment levels of all PO's and PSO's.

Sr. No.	ALC _i	X _{i,.,1}	X _{i,.,2}	X _{i,.,3}	X _{i,.,4}	X _{i,.,5}	X _{i,.,6}	X _{i,.,7}	X _{i,.,8}
1	4	3	2	2	0.5	2.5	2	2.5	3
2	3	2.5	2	2	0.5	2.5	2	2.5	3
3	3	2.5	2	1.5	1.5	3	2	2.5	3
4	3	3	2	2	1.5	2.5	2.5	2.5	3
5	4	1.5	2	2.5	0.5	1.5	1.5	2	3
6	5	2.5	2	2.5	1.5	2.5	2.5	2.5	3
7	3	2.5	2	2	1	2.5	2.5	2.5	3
8	3	1.5	2	2.5	0.5	1	2	2.5	3
9	4	3	2	2	1	2	2.5	3	3
10	4	1.5	2	2	2	0.5	1.5	2.5	3
11	5	1	2	2.5	3	0.5	2	2.5	3
12	5	2.5	2	2	1	2.5	2.5	2.5	3
13	3	2	2	2.5	1	1	2	3	3
14	3	3	2	2	1.5	2.5	3	2.5	3
15	4	1	2.5	2.5	1.5	1	2	3	3
16	4	1	2	2	3	0.5	2	3	3
Sum	60	34	32.5	34.5	21.5	28.5	34.5	41.5	48



Sr. No.	ALC _i * X _{i, ., 1}	ALC _i * X _{i, ., 2}	ALC _i * X _{i, ., 3}	ALC _i * X _{i, ., 4}	ALC _i * X _{i, ., 5}	ALC _i * X _{i, ., 6}	ALC _i * X _{i, ., 7}	ALC _i * X _{i, ., 8}
1	12	8	8	2	10	8	10	12
2	7.5	6	6	1.5	7.5	6	7.5	9
3	7.5	6	4.5	4.5	9	6	7.5	9
4	9	6	6	4.5	7.5	7.5	7.5	9
5	6	8	10	2	6	6	8	12
6	12.5	10	12.5	7.5	12.5	12.5	12.5	15
7	7.5	6	6	3	7.5	7.5	7.5	9
8	4.5	6	7.5	1.5	3	6	7.5	9
9	12	8	8	4	8	10	12	12
10	6	8	8	8	2	6	10	12
11	5	10	12.5	15	2.5	10	12.5	15
12	12.5	10	10	5	12.5	12.5	12.5	15
13	6	6	7.5	3	3	6	9	9
14	9	6	6	4.5	7.5	9	7.5	9
15	4	10	10	6	4	8	12	12
16	4	8	8	12	2	8	12	12
Sum	125	122	130.5	84	104.5	129	155.5	180
<i>DALP_i</i>	2.08333	2.03333	2.175	1.4	1.74167	2.15	2.59167	3

Step 8: Comparison of target level with obtained PO attainment.

In this step the target level of PO's and PSO's attainment are compared with obtained *DALP_i*. Attainment levels are defined as stated below.

Level 1: Poor – if $0 < ALC_i \leq 1$,

Level 2: Average – if $1 < ALC_i \leq 1.5$,

Level 3: Good – if $1.5 < ALC_i \leq 2$,

Level 4: Very Good – if $2 < ALC_i \leq 2.5$,

Level 5: Excellent – if $2.5 < ALC_i \leq 3$.

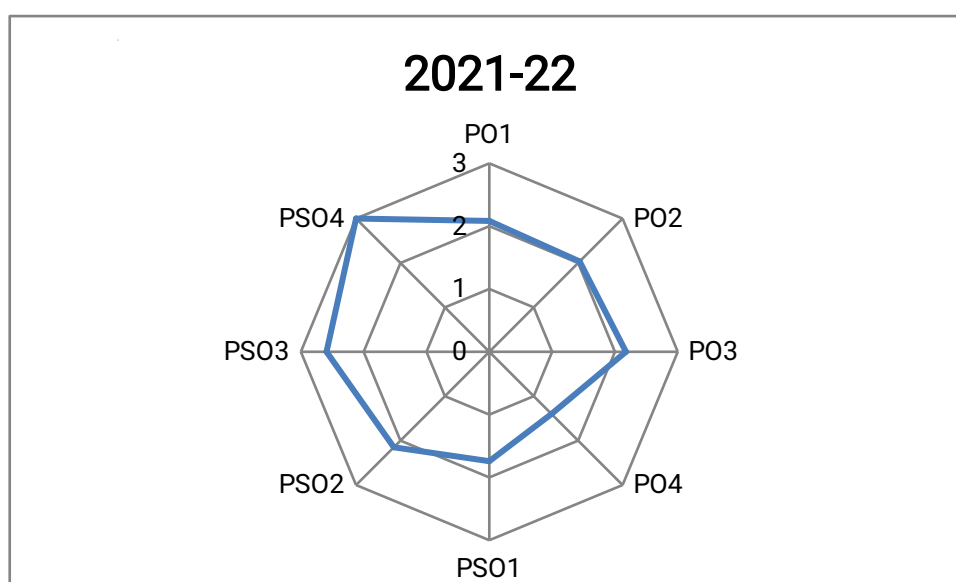
For every PO's and PSO's, we have set level 4 as target level that is we are aiming minimum level 4 (very good) in the performance of abilities of students.



Attainment level of all the POs and PSOs

PO's	<i>DALP_i</i>	Level	Status
P01	2.083333	Very Good	Attained
P02	2.033333	Very Good	Attained
P03	2.175	Very Good	Attained
P04	1.4	Average	Not Attained
PS01	1.741667	Good	Not Attained
PS02	2.15	Very Good	Attained
PS03	2.591667	Very Good	Attained
PS04	3	Excellent	Attained

P_i attainment target level say, 4, indicates that, the department is aiming minimum level-4(very good) in the performance of abilities of students.



Step 9: Planned actions:

Remedial Actions:

Planned actions for course attainment: Courses having course level less than level-4 are addressed by designing the different remedial measures like assignment/tutorials/remedial teaching.

Planned actions for program outcome attainment: PO's and PSO's with level attainment less than level-4 are addressed by planning remedial measures for the corresponding courses with respect to than P_i .

