

ShikshanPrasarakSanstha's

PadmabhushanVasatraodadaPatilMahavidyalaya,KavatheMahankal

DEPARTMENTOFPSYCHOLOGY

AcademicYear-2022-2023

MechanismforframingLearningOutcomesandMeasuringtheirAttainment

Step1:DefiningtheVisionandMissionofthe Department.

Vision:To cultivate a comprehensive understanding of human behavior, foster critical thinking, and prepare students for diverse careers in psychology and related fields through rigorous academic training, research opportunities, and community engagement.

Mission:The mission of the Psychology undergraduate program is to provide a comprehensive understanding of psychological principles, foster critical thinking, and prepare students for diverse careers and advanced studies in psychology through rigorous coursework, research opportunities, and practical experiences.

Step2:DefiningProgramOutcomes(PO's)andProgramSpecificOutcomes(PSO's)oftheprogram.

ProgramOutcomes(PO's)

After successfully completing B.A. Program students will be able to:

| | |
|-----|--|
| PO1 | Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology. |
| PO2 | Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives. |
| PO3 | Understand the issues of environmental contexts and sustainable development. |
| PO4 | Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes. |

ProgramSpecificOutcomes(PSO's)

After successfully completing B.A. Psychology Program students will be able to:

| | |
|------|--|
| PSO1 | Apply their knowledge of psychology to effectively solve problems and address issues related to human behavior. |
| PSO2 | Apply psychological principles, theories and research results to a wider range of personal, social, cultural and organizational situations and problems. |
| PSO3 | Understand the importance of adhering to ethical principles, respecting diversity and accepting their own personal and professional limitations. They will use their knowledge of ethics to analyze situations in a thoughtful, deliberate manner. |
| PSO4 | Demonstrate an awareness of and respect for socio-cultural diversity on a local and global level. |

Step3:DefiningCourseOutcomes(CO's)ofeachcourseinaProgram.

CourseOutcomes(CO's)

B.A.I(Sem.I)

Course1:FoundationsofPsychology

| | |
|--------------|--|
| CO1.1 | UnderstandthefieldofPsychology,PerceptionandSleep. |
| CO1.2 | GraspLearningandMemoryProcesses. |

B.A.I(Sem.II)

Course2:GeneralPsychology

| | |
|--------------|---|
| CO2.1 | KnowtheconceptsofIntelligenceandMotivation. |
| CO2.2 | ComprehendtheconceptsofEmotionandPersonality. |

B.A.II(Sem.III)

Course3:PsychologyforLiving

| | |
|--------------|---|
| CO3.1 | FamiliarwiththenatureofPsychologyforLiving. |
| CO3.2 | KnowthenatureofBetterHealth,Stress,MentalDisordersandHelpingBehavior. |

B.A.II(Sem.III)

Course4:SocialPsychology

| | |
|--------------|--|
| CO4.1 | AwarewiththenatureofSocialPsychology. |
| CO4.2 | GetknowledgeoftheconceptsofSocialPerception,SelfandAttitude. |

B.A.II(Sem.IV)

Course5:ModernSocialPsychology

| | |
|--------------|--|
| CO5.1 | UnderstandtheconceptsofLiking(Attraction)andSocialInfluence. |
| CO5.2 | GraspthePro-socialBehaviorandAggression. |

B.A.II(Sem.IV)

Course6:AppliedPsychology

| | |
|--------------|--|
| CO6.1 | FamiliarwiththeApplicationsofthepsychologyinPersonalcontrol,Decision Making,Personalgrowth,AtWorkandLeisure. |
| CO6.2 | ApplytheskillsinMakingandkeepingfriendsandLoveandCommitment. |

B.A.III(Sem.V)

Course7:CognitivePsychology

| | |
|--------------|---|
| CO7.1 | AwaretheapproachestoHumanCognition,VisualPerceptionand Attention. |
| CO7.2 | GrasptheprocessesofMemory,EmotionsandConsciousness. |

B.A.III(Sem.V)

Course8:Cross-CulturalPsychology

| | |
|--------------|--|
| CO8.1 | GetknowledgethefieldofCross-culturalPsychologyandKeyConcepts. |
| CO8.2 | UnderstandtheconceptsofEtics,Emics,EthnocentrismandIndigenousPsychology, CultureandIntelligence,PrejudiceandParentalPractices,CultureandAbnormality. |

B.A.III(Sem.V)**Course9:Psychopathology**

| | |
|--------------|--|
| CO9.1 | FamiliarwiththefieldofPsychopathologyandPerspectivesofPsychopathology. |
| CO9.2 | UnderstandthenatureofAnxietydisorder,OCD,MoodDisorderandSuicide. |

B.A.III(Sem.V)**Course10:CurrentTrendsInPsychology**

| | |
|---------------|--|
| CO10.1 | AwarewiththeemergingnewtrendsInPsychology. |
| CO10.2 | GraspandlearnmoreaboutHealth,CriminalandCyberPsychology. |

B.A.III(Sem.V)**Course11:Practical(Experiments)**

| | |
|---------------|--|
| CO11.1 | FamiliarwithPsychologicalExperimentsandsomeStatisticalmethods. |
| CO11.2 | Learntheskillsforconductingexperimentsandwritingtheirreports. |

B.A.III(Sem.VI)**Course12:PsychologicalTesting**

| | |
|---------------|---|
| CO12.1 | ComprehendthefieldofPsychologicalTestingin general. |
| CO12.2 | KnowthenatureandusesofIntelligence,AchievementandPersonality tests. |

B.A.III(Sem.VI)**Course13:CounsellingPsychology**

| | |
|---------------|--|
| CO13.1 | GetknowledgeofthefieldofCounsellingPsychology. |
| CO13.2 | ApplytheskillsinthefieldofCareer,SchoolandCollege counselling. |

B.A.III(Sem.VI)**Course14:DevelopmentalPsychology**

| | |
|---------------|---|
| CO14.1 | AwarewiththefieldofLifespanDevelopmental. |
| CO14.2 | UnderstandthenatureandprocessesintheInfancy,Childhood,Adolescenceand Adulthoodperiod. |

B.A.III(Sem.VI)**Course15:PsychologyofOrganizationalBehavior**

| | |
|---------------|---|
| CO15.1 | FamiliarwiththefieldofOrganizationalBehavior. |
| CO15.2 | ComprehendthenatureandimportanceofPersonality,Jobsatisfaction,Leadership, Group Behavior and Organizational Change. |

B.A.III(Sem.VI)**Course16:Practical(PsychologicalTests)**

| | |
|---------------|---|
| CO16.1 | GetKnowledgeofthePsychologicaltestsandsomestatisticalmethods. |
| CO16.2 | LearntheskillsforadministeringPsychologicalTestsandwritingtheirreports. |

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 |
| CO1.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO1.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |

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 |
| CO1.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO1.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO2.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO2.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO3.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO3.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO4.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO4.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO5.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO5.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO6.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO6.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO7.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO7.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO8.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO8.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO9.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO9.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO10.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO10.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO11.1 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |
| CO11.2 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |
| CO12.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO12.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |

| | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|
| CO13.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO13.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO14.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO14.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO15.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO15.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO16.1 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |
| CO16.2 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |

Step5:DevelopmentofoverallCO's-PO'smappingmatrixforallcourses(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 |
| CO1.1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO1.2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| Average ($X_{1,..,i}$) | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |

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 19 courses then the program articulation matrix will be as follows.

ProgramArticulationMatrix

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

Step 6: Methodology for measuring of Course Outcomes (CO's), Program Specific Outcomes(PSO's)andProgramOutcomes(PO's)andsettingupthetargetlevel.

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

$$X_{i,,} = \frac{\sum_k X_{i,j,l}}{k}, \text{ Here } k \text{ is the number of outcomes in the average course taken.}$$

➤ 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:

Level1: Average of student marks belong to the class 0% -20% for that assessment method

Level2: Average of student marks belong to the class 20% -40% for that assessment method

Level3: Average of student marks belong to the class 40% -60% for that assessment method

Level4: Average of student marks belong to the class 60% -80% for that assessment method

Level5: Average of student marks belong 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 80% weightage to external assessment and 20% weightage to internal assessment.

$$ALC = 0.2 * ALC_I + 0.8 * ALC_E.$$

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 Good – Attained as target level that is we are aiming minimum level 3 (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 | Coursename | ALC_i | Level | Status |
|----------|------------|---------|----------|----------|
| C_1 | Course_1 | 4 | veryGood | Attained |
| C_2 | Course_2 | 4 | veryGood | Attained |
| C_3 | Course_3 | 4 | veryGood | Attained |
| C_4 | Course_4 | 3 | Good | Attained |
| C_5 | Course_5 | 4 | VeryGood | Attained |
| C_6 | Course_6 | 4 | VeryGood | Attained |
| C_7 | Course_7 | 3 | Good | Attained |
| C_8 | Course_8 | 3 | Good | Attained |
| C_9 | Course_9 | 3 | Good | Attained |
| C_{10} | Course_10 | 3 | Good | Attained |
| C_{11} | Course_11 | 3 | Good | Attained |
| C_{12} | Course_12 | 3 | Good | Attained |
| C_{13} | Course_13 | 3 | Good | Attained |
| C_{14} | Course_14 | 3 | Good | Attained |
| C_{15} | Course_15 | 3 | Good | Attained |
| C_{16} | Course_16 | 4 | VeryGood | Attained |

Step 7: Calculation of attainment level 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 ($ALC_i, i=1,2,3,\dots,m$) and the overall level of relation of course with each PO and PSO ($X_{i,l}, i=1,2,3,\dots,m, l=1,2,3,\dots,n$) are used to compute direct attainment level of each PO and PSO.

Direct Assessment: Direct attainment level of the l^{th} PO's & PSO's is calculated as follows.

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

| ID | Coursename | ALC_i | $X_{i,1}$ | $ALC_i * X_{i,1}$ |
|----------|------------|---------|-----------|-------------------|
| C_1 | Course_1 | 4 | 3 | 12 |
| C_2 | Course_2 | 4 | 3 | 12 |
| C_3 | Course_3 | 4 | 3 | 12 |
| C_4 | Course_4 | 3 | 3 | 9 |
| C_5 | Course_5 | 4 | 3 | 12 |
| C_6 | Course_6 | 4 | 3 | 12 |
| C_7 | Course_7 | 3 | 3 | 9 |
| C_8 | Course_8 | 3 | 3 | 9 |
| C_9 | Course_9 | 3 | 3 | 9 |
| C_{10} | Course_10 | 3 | 3 | 9 |
| C_{11} | Course_11 | 3 | 3 | 9 |
| C_{12} | Course_12 | 3 | 3 | 9 |

| | | | | |
|----------|-----------|----|---|-----------------|
| C_{13} | Course_13 | 3 | 3 | 9 |
| C_{14} | Course_14 | 3 | 3 | 9 |
| C_{15} | Course_15 | 3 | 3 | 9 |
| C_{16} | Course_16 | 4 | 3 | 12 |
| Sum | | 54 | | 162 |
| | | | | $DALP_I=174/58$ |
| | | | | 3 |

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 | 3 | 3 | 3 | 2 | 2 |
| 2 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 3 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 4 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 5 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 6 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 7 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 8 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 9 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 10 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 11 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |
| 12 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 13 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 14 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 15 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 16 | 4 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 |
| Sum | 54 | 48 | 32 | 30 | 48 | 48 | 48 | 34 | 32 |

| 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 | 12 | 12 | 12 | 8 | 8 |
| 2 | 12 | 8 | 8 | 12 | 12 | 12 | 8 | 8 |
| 3 | 12 | 8 | 8 | 12 | 12 | 12 | 8 | 8 |
| 4 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 5 | 12 | 8 | 8 | 12 | 12 | 12 | 8 | 8 |
| 6 | 12 | 8 | 8 | 12 | 12 | 12 | 8 | 8 |
| 7 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 8 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 9 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 10 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 11 | 9 | 6 | 3 | 9 | 9 | 9 | 9 | 6 |
| 12 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 13 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 14 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 15 | 9 | 6 | 6 | 9 | 9 | 9 | 6 | 6 |
| 16 | 12 | 8 | 4 | 12 | 12 | 12 | 12 | 8 |
| Sum | 162 | 108 | 101 | 162 | 162 | 162 | 115 | 108 |
| $DALP_i$ | 3 | 2 | 1.8704 | 3 | 3 | 3 | 2.1296 | 2 |

Step8: 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 $2 < ALC_i \leq 2.5$,

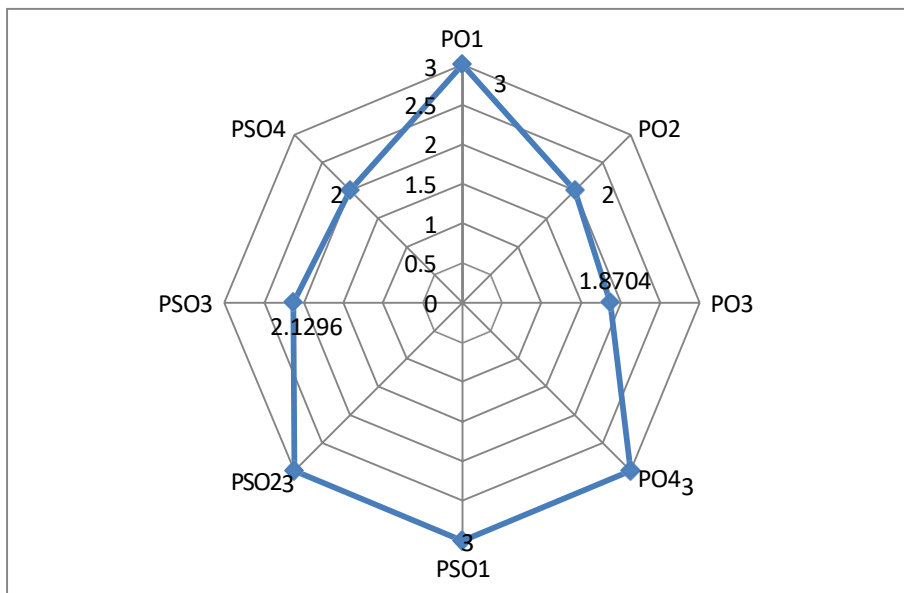
Level 5: Excellent – if $2.5 < ALC_i \leq 3$.

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 | $DALP_i$ | Level | Status |
|------|----------|-----------|--------------|
| PO1 | 3 | Excellent | Attained |
| PO2 | 2 | Good | Not Attained |
| PO3 | 1.8704 | Good | Not Attained |
| PO4 | 3 | Excellent | Attained |
| PSO1 | 3 | Excellent | Attained |
| PSO2 | 3 | Excellent | Attained |
| PSO3 | 2.1296 | Very Good | Attained |
| PSO4 | 2 | Good | Not Attained |

P_i attainment target levels 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-3 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 P_i .


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