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Jr. College Index No. J 22.04.002

Criteria 2- Teaching Learning and Evaluation

Key Indicator 2.6 Student Performance and Learning Outcomes

Metric No. 2.6.2 Attainment of POs and COs are evaluated

Academic Year 2019-20

Sr. No.	Name of Department
1	English
2	Hindi
3	Marathi
4	History
5	Political Science
6	Psychology
7	Economics
8	Geography
9	Physical Education
10	Chemistry
11	Physics
12	Botany
13	Commerce

Shikshan Prasarak Sanstha's
Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF ENGLISH
ACADEMIC YEAR 2019-20

Programme Outcomes (PO) B.A.

Vision

To empower students in the rural drought-prone area of western Maharashtra through the study of English language and literature, fostering critical thinking, creativity, and communication skills that will enable them to thrive in a rapidly changing world.

Mission

1. To provide high-quality education in English language and literature to students in the rural drought-prone area of western Maharashtra, equipping them with the skills and knowledge necessary for personal and professional success.

2. To cultivate a love for literature, language, and creative expression among students, encouraging them to explore diverse cultural perspectives and develop their own unique voices.

3. To foster a supportive and inclusive learning environment that values diversity, promotes collaboration, and celebrates the rich heritage of the region.

4. To prepare students to be effective communicators, critical thinkers, and lifelong learners who can adapt to the demands of the 21st century globalized world.

5. To engage with the local community and leverage resources to create opportunities for students to apply their English language skills in real-world contexts, contributing to the socio-economic development of the region.

After completion of BA Programme student will be able to,

PO 1: Get insights into the socio-economic and political issues at local to global.

PO 2: Good employability Skills as per the current need of society to compete in the competitive world.

PO 3: Capable for addressing complex social and environmental issues from a problem oriented interdisciplinary perspective and also assess the its impact on the environment and society.

PO 4: To foster the practice of creative writing and studies in applied language skills.

Programme Specific Outcome (PSO)

PSO 1: After completion of the B.A. in English, students will communicate in English effectively which will be helpful to improve professional and social ethics.

PSO 2: Students will be confident at Listening, Speaking, Reading, and Writing skills.

PSO 3: Students will be a good reader of the literature and it will make them to study the different cultures through the literature.

PSO 4: Literature will change their attitude towards the personal and social life and it will be helpful to make them sensible person and responsible citizen.

Course Outcomes (CO)

Course 1: Modern Indian Writing in English Translation I

After successfully completing this course students will be able to:

CO 1.1: Understand the translated modern Indian Literature in English

CO 1.2: Study the short story as a form of Literature.

Course 2: Modern Indian Writing in English Translation II

After successfully completing this course students will be able to:

CO 2.1: Develop the literary competence among them.

CO 2.2: Study the poetry as a form of literature.

Course 3: Literature and Cinema I

After successfully completing this course students will be able to:

CO 3.1: Understand the film and its relationship to literature.

CO 3.2: Develop the critical approaches to engage with film adaptation.

Course 4: Partition Literature I

After successfully completing this course students will be able to:

CO 4.1: Create an awareness of partition scenario among them.

CO 4.2: Elaborate on the impact of partition on society.

Course 5: Literature and Cinema II

After successfully completing this course students will be able to:

CO 5.1: Acquire film literacy through working knowledge of basic film technology.

CO 5.2: Understand the issues and practices of cinematic adaptation.

Course 6: Partition Literature II

After successfully completing this course students will be able to:

CO 6.1: Understand the partition literature through short stories.

CO 6.2: Explain the hidden human dimensions of the partition.

Course 7: Introduction to Literary Criticism-I

After successfully completing this course students will be able to:

CO 7.1: Understand the major trends in criticism

CO 7.2: Interpret critical concepts.

Course 8: English Poetry-I

After successfully completing this course students will be able to:

CO 8.1: Trace the development of English Poetry from the days of Shakespeare to the contemporary India.

CO 8.2: Appreciate and Analyse poems properly.

Course 9: English Drama-I

After successfully completing this course students will be able to:

CO 9.1: Understand the different forms of Drama.

CO 9.2: Relate the drama to their ideological or Socio-political context.

Course 10: English Novel- I

After successfully completing this course students will be able to:

CO 10.1: Understand the different forms of Novel.

CO 10.2: Relate the Novel to their ideological or Socio-political context.

Course 11: Language and Linguistics-I
After successfully completing this course students will be able to:
CO 11.1 Understand the concept of communication
CO 11.2: Get knowledge of verities of the English Language.

Course 12: Introduction to Literary Criticism-II
After successfully completing this course students will be able to:
CO 12.1: Study the original contribution to literary criticism.
CO 12.2: Understand the meaning and appreciate the poems Critically.

Course 13: English Poetry-II
After successfully completing this course students will be able to:
CO 13.1: Understand the poetry gives intellectual, moral and linguistic pleasures.
CO 13.2: Get knowledge of poetry various cultures and traditions.

Course 14: English Drama-II
After successfully completing this course students will be able to:
CO 14.1: Improve their creative and imaginative faculties through the reading of drama.
CO 14.2: Know about various aspects of the drama.

Course 15: English Novel- II
After successfully completing this course students will be able to:
CO 15.1: Improve their creative and imaginative faculties through the reading of novel.
CO 15.2: Know about various aspects of the Novel.

Course 16: Language and Linguistics-II
After successfully completing this course students will be able to:
CO 16.1: Know the different levels of study of the English Language.
CO 16.2: Understand the Basic Units of Grammar.

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 matrixfor 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	2	1	3	2	1	2	3	3
CO 1.2	2	1	3	3	1	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	2	1	3	2	1	2	3	3
CO 1.2	2	1	3	3	1	2	2	3
CO 2.1	1	2	1	3	2	2	3	3
CO 2.2	2	1	2	3	1	2	3	3
CO 3.1	3	1	3	1	2	2	3	3
CO 3.2	**3**	**2**	**3**	**2**	**2**	**2**	**3**	3
CO 4.1	3	0	3	2	2	1	3	3
CO 4.2	3	1	3	1	2	1	2	3
CO 5.1	0	3	1	2	1	1	1	2
CO 5.2	0	3	2	1	3	1	3	3
CO 5.3	3	0	3	2	2	2	3	3
CO 5.4	3	0	3	2	3	2	3	3
CO 6.1	1	1	2	3	2	1	3	3
CO 6.2	2	2	3	2	2	2	2	3
CO 7.1	3	1	2	2	1	1	2	3

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

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

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	2	1	3	2	1	2	3	3
CO 1.2	2	1	3	3	1	2	2	3
Average ($X_{1,.,l}$)	2	1	3	2.5	1	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	2	1	3	2.5	1	2	2.5	3
C_2	Course_2	1.5	1.5	1.5	3	1.5	2	3	3
C_3	Course_3	3	1.5	3	1.5	2	2	3	3
C_4	Course_4	3	0.5	3	1.5	2	1	2.5	3
C_5	Course_5	0	3	1.5	1.5	2	1	2	2.5
C_6	Course_6	3	0	3	2	2.5	2	3	3
C_7	Course_7	1.5	1.5	2.5	2.5	2	1.5	2.5	3
C_8	Course_8	2.5	1.5	2.5	1.5	1.5	1.5	2.5	3
C_9	Course_9	3	2	2.5	1.5	2	2	3	3
C_{10}	Course_10	3	2	2.5	1.5	2	2	3	2.5
C_{11}	Course_11	1.5	3	2	2.5	1.5	2.5	1.5	3
C_{12}	Course_12	1	1	2	2.5	2	1	2	2.5
C_{13}	Course_13	2.5	3	3	1	3	0.5	3	3
C_{14}	Course_14	2.5	2.5	2	2.5	2.5	2	3	3
C_{15}	Course_15	2.5	2.5	2	2.5	2.5	2	3	3
C_{16}	Course_16	1.5	3	2.5	3	2	3	2.5	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, $PO_1, PO_2, \dots, PO_{n1}$
  - Program has n_2 PSO's, say, $PSO_1, PSO_2, \dots, PSO_{n2}$

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

  - For convenience, let us denote the PO's & PSO's $PO_1, PO_2, \dots, PO_{n1}, PSO_1, PSO_2, \dots, PSO_{n2}$ 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 $X_{i.l} = \frac{1}{k}\sum_{j=1}^{k} X_{ijl}$ Here k be 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:

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 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	Course name	ALC_i	Level	Status
C_1	Course_1	4	Very Good	Attained
C_2	Course_2	3	Good	Attained
C_3	Course_3	3	Good	Attained
C_4	Course_4	3	Good	Attained
C_5	Course_5	3	Good	Attained
C_6	Course_6	3	Good	Attained
C_7	Course_7	4	Very Good	Attained
C_8	Course_8	4	Very Good	Attained
C_9	Course_9	4	Very Good	Attained

C_{10}	Course_10	4	Very Good	Attained
C_{11}	Course_11	4	Very Good	Attained
C_{12}	Course_12	4	Very Good	Attained
C_{13}	Course_13	3	Good	Attained
C_{14}	Course_14	4	Very Good	Attained
C_{15}	Course_15	4	Very Good	Attained
C_{16}	Course_16	3	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: Direct1attainment level of the l^{th}, PO's & PSO's is calculated as follows.

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

ID	Course name	ALCi	$X_{i,.,1}$	$ALC_i * X_{i,.,1}$
C_1	Course_1	4	2	8
C_2	Course_2	3	1.5	4.5
C_3	Course_3	3	3	9
C_4	Course_4	3	3	9
C_5	Course_5	3	0	0
C_6	Course_6	3	3	9
C_7	Course_7	4	1.5	6
C_8	Course_8	4	2.5	10
C_9	Course_9	4	3	12
C_{10}	Course_10	4	3	12
C_{11}	Course_11	4	1.5	6
C_{12}	Course_12	4	1	4
C_{13}	Course_13	3	2.5	7.5
C_{14}	Course_14	4	2.5	10
C_{15}	Course_15	4	2.5	10
C_{16}	Course_16	3	1.5	4.5
				121.5
Sum		57		
$DALP_1=121.5/56$			2.1316	

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	2	1	3	2.5	1	2	2.5	3
2	3	1.5	1.5	1.5	3	1.5	2	3	3
3	3	3	1.5	3	1.5	2	2	3	3
4	3	3	0.5	3	1.5	2	1	2.5	3
5	3	0	3	1.5	1.5	2	1	2	2.5
6	3	3	0	3	2	2.5	2	3	3
7	4	1.5	1.5	2.5	2.5	2	1.5	2.5	3
8	4	2.5	1.5	2.5	1.5	1.5	1.5	2.5	3
9	4	3	2	2.5	1.5	2	2	3	3
10	4	3	2	2.5	1.5	2	2	3	2.5
11	4	1.5	3	2	2.5	1.5	2.5	1.5	3
12	4	1	1	2	2.5	2	1	2	2.5
13	3	2.5	3	3	1	3	0.5	3	3
14	4	2.5	2.5	2	2.5	2.5	2	3	3
15	4	2.5	2.5	2	2.5	2.5	2	3	3
16	3	1.5	3	2.5	3	2	3	2.5	3
Sum	57	34	29.5	38.5	33	32	28	42	46.5

Sr. No.	ALC_i* $X_{i,.,1}$	ALCi* $X_{i,.,2}$	ALCi* $X_{i,.,3}$	ALCi* $X_{i,.,4}$	ALCi* $X_{i,.,5}$	ALCi* $X_{i,.,6}$	ALCi* $X_{i,.,7}$	ALCi* $X_{i,.,8}$
1	8	4	12	10	4	8	10	12
2	4.5	4.5	4.5	9	4.5	6	9	9
3	9	4.5	9	4.5	6	6	9	9
4	9	1.5	9	4.5	6	3	7.5	9
5	0	9	4.5	4.5	6	3	6	7.5
6	9	0	9	6	7.5	6	9	9
7	6	6	10	10	8	6	10	12
8	10	6	10	6	6	6	10	12
9	12	8	10	6	8	8	12	12
10	12	8	10	6	8	8	12	10
11	6	12	8	10	6	10	6	12
12	4	4	8	10	8	4	8	10
13	7.5	9	9	3	9	1.5	9	9
14	10	10	8	10	10	8	12	12
15	10	10	8	10	10	8	12	12
16	4.5	9	7.5	9	6	9	7.5	9
Sum	121.5	105.5	136.5	118.5	113	100.5	149	165.5
DALP $_l$	2.1316	1.8509	2.3947	2.0789	1.9825	1.7632	2.614	2.9035

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* $_l$

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 $2 < ALC_i \leq 2.5$,

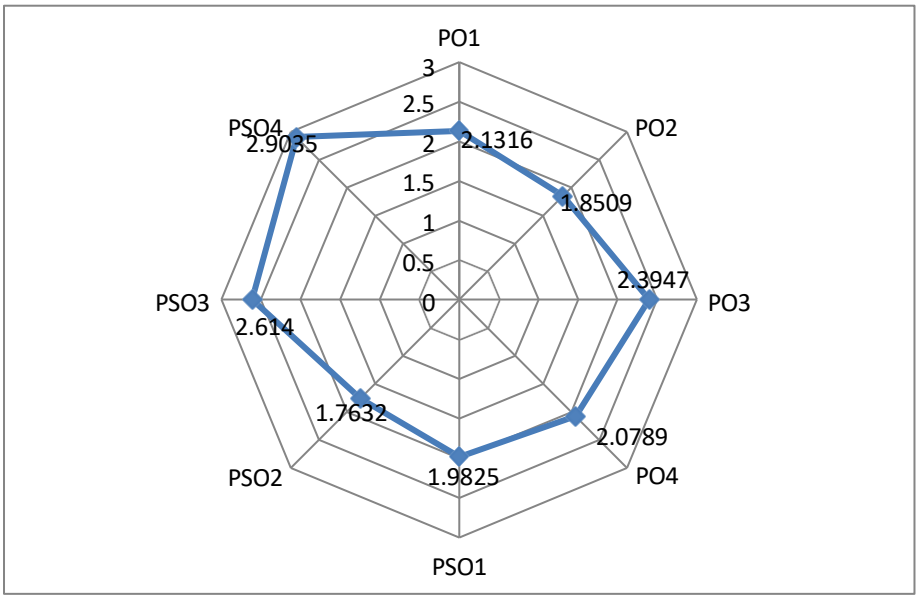
Level 5: Excellent – if $2.5 < ALC_i \leq 3$.

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* $_l$	Level	Status
PO1	2.1316	Very Good	Attained
PO2	1.8509	Good	Not Attained
PO3	2.3947	Very Good	Attained
PO4	2.0789	Very Good	Attained
PSO1	1.9825	Good	Not Attained
PSO2	1.7632	Good	Not Attained
PSO3	2.614	Excellent	Attained
PSO4	2.9035	Excellent	Attained

P_l 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-3 are addressed bydesigning 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 tothan P_l.

Shikshan Prasarak Sansth's

Padmabhushan Vasantraodad Patil Mahavidyalaya, Kavathe Mahankal

Department of Hindi

Academic Year 2019-20

Mechanism for framing Learning Outcomes and Measuring their

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

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

Mission : 1.साहित्य आस्वादन तथा मूल्यांकन क्षमता को निर्माण 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 रूचि 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 माध्यमसे 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 रूचि 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 विद्यार्थीयों 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 अंगो 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 अंगो की जानकारी मिली।

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

B.A. III SEM-VI भाषा विज्ञान और हिंदी भाषाI (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|

Shikshan Prasarak Sanstha's

Padmabhushan Pasantraodada Patil Mahavidyalaya,Kavathe Mahankal

DEPARTMENT OF MARATHI

Academic Year 2019-20

Vision :

मराठी भाषेचा सखोल आणि सर्वांगीण अभ्यास करून विद्यार्थ्यांना मराठी साहित्य संस्कृती आणि परंपरेची समृद्ध माहिती प्रदान करणे. विद्यार्थ्यांना मराठी भाषेच्या माध्यमातून वैचारिक सांस्कृतिक आणि सामाजिक प्रगती साधण्यास प्रोत्साहित करणे.

Mission :

1. मराठी भाषेच्या व्याकरण, साहित्य आणि इतिहासाचा सखोल अभ्यास करणे.
2. विद्यार्थ्यांच्या वाचन, लेखन, संभाषण आणि श्रवण कौशल्यांचा विकास करणे.
3. मराठी साहित्याच्या विविध प्रकारांचा (कविता, कथा, नाटक, निबंध इ.) परिचय करून देणे.
4. मराठी संस्कृती, परंपरा आणि आधुनिकतेचा संगम साधणे.
5. विद्यार्थ्यांना मराठीतील सृजनशीलता, चिंतनशीलता आणि सांस्कृतिक अभिमान निर्माण करणे.
6. मराठी भाषेच्या अभ्यासातून सामाजिक, सांस्कृतिक आणि नैतिक मूल्यांचे संवर्धन करणे.
7. विद्यार्थ्यांना मराठी भाषेच्या माध्यमातून वैयक्तिक आणि सामाजिक समस्यांचे समाधान शोधण्यास प्रोत्साहित करणे.

Program Outcomes (PO's).

After completion of graduate in B. A students will be able to :

Po 1: लेखन, वाचन ,श्रवण ,भाषण, आकलन कौशल्य विकसित झाली.

Po 2 : विद्यार्थ्यांचा शब्दसंग्रह समृद्ध होऊन सर्जनशील लेखनाला चालना मिळाली.

Po 3 : विद्यार्थ्यांचा व्यक्तीमत्त्व विकास झाला.

Po 4 : विद्यार्थ्यांमध्ये मातृभाषा ,राष्ट्रीयएकात्मता, आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण झाली.

Program Specific Outcomes (PSO's)

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

Pso 1 : भाषिक कौशल्य विकसित होऊन विद्यार्थ्यांचा शब्दसंग्रह समृद्ध झाला.

Pso 2 : प्राचीन वांङ्मयापासून आधुनिक वांङ्मयापर्यंतचे विविध साहित्य प्रकार,प्रवाह, लेखक ,कवी यांची ओळख झाली.

Pso 3 : सामाजिक ,सांस्कृतिक ,साहित्यिक जाण येऊन सर्जनशील लेखनाला चालना मिळाली.

Pso 4 : आंतरजालावरील लेखनपद्धती समजून घेऊन प्रसारमाध्यमातील अर्थार्जनाच्या संधी आणि उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भातील ज्ञान संपादन करता आले.

Course outcomes (Co's)

Course : 1) - आवश्यक अनुषंगिक निवड (CGE - 1): मराठी "शब्दसंहिता" - अ.

Co1 : विद्यार्थ्यांची मराठी भाषा आणि साहित्यविषयी अभिरुची विकसित झाली.

Co2 : मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय झाला.

Course : 2) - आवश्यक अनुषंगिक निवड (CGE -2): मराठी "शब्दसंहिता" - ब.

Co3 : विद्यार्थ्याचा व्यक्तिमत्व विकास घडून विविध स्पर्धा परीक्षांची तयारी करता आली.

Co4 : निबंध लेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्य विकसित करता आली.

Course : 3) - विद्याशाखीय विशेष गाभा (DSC-A1): मराठी "अक्षरबंध". - १.

Co5 : भास्कर चंदनशिव यांच्या निवडक कथांचे आकलन करता आले.

Co6 : चित्रपट माध्यमाविषयी ज्ञान संपादन करता आले.

Course :4) - विद्याशाखीय विशेष गाभा (DSC-A13) : मराठी "अक्षरबंध". - २.

Co7 : लोकनाथ यशवंत यांच्या निवडक कवितेचे आकलन करता आले.

Co8 : वृत्तपत्रीय लेखनातील बातमी, अग्रलेख, वाचकांचा पत्रव्यवहार ,नाटक /चित्रपट परीक्षण याविषयी ज्ञान संपादन करता आले.

Course : 5) - विद्याशाखीय विशेष गाभा (DSC-C1) :

" काय डेंजर वारा सुटलाय..!" (नाटक) :मराठी भाषिक कौशल्य.- ३.

Co9 : नाटक या वांङ्मय प्रकाराचे आकलन होऊन नाट्याभ्यासाद्वारे प्रयोगरुप नाटक व नाट्यक्षेत्रातील ज्ञान संपादन करता आले.

Co10 : विद्यार्थ्यांमध्ये संवाद लेखन कौशल्य विकसित झाली.

Course : 6) - विद्याशाखीय विशेष गाभा (DSC- C2):

" काव्यगंध " :मराठी भाषिक कौशल्य - ४

Co11 : मराठी काव्यपरंपरा व प्रवाहांची ओळख करून घेता आली.

Co 12 : प्रात्यक्षिकाद्वारे काव्यलेखन कौशल्ये विकसित झाली.

Course : 7) - विद्याशाखीय विशेष गाभा (DSC- C25)

"माती, पंख आणि आकाश " (आत्मचरित्र): मराठी भाषिक कौशल्य.

Co13 : आत्मचरित्र या वांङ्मय प्रकाराची ओळख करून आत्मवृत्तपर लेखन कौशल्ये विकसित करता आली.

Co14 : आत्मचरित्रकाराच्या व्यक्तिमत्वाची जडणघडण आणि त्याचा समकाल समजून घेता आला; तसेच वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेता आले.

Course : 8) - विद्याशाखीय विशेष गाभा (DSC- C25)

"जुगाड " (कादंबरी): मराठी भाषिक कौशल्ये.

Co15 : कादंबरी वांङ्मय प्रकाराची ओळख झाली व कादंबरी लेखनाचे स्वरूप व विशेष यांचे ज्ञान झाले.

Co 16 : व्रत्तांतलेखनाची कौशल्ये विकसित झाली.

Course : 9) -विद्याशाखीय विशेष निवड (DSE- E1)

"काव्यशास्त्र" - VII.

Co17 : पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजले आणि साहित्याची निर्मितीप्रक्रिया व त्याचे स्वरूप याविषयी आकलन झाले.

Co18 : ललित व ललितेतर साहित्याचे स्वरूप साहित्याचे प्रयोजन आणि भाषेतील अलंकार समजून घेता आले.

Course : 10) - विद्याशाखीय विशेष निवड (DSE-E2)

"भाषाविज्ञान आणि मराठी भाषा "- VIII.

Co19 : भाषोत्पत्ती संबंधित ज्ञान भाषाविज्ञानाचा परिचय व भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेता आला.

Co20 : मराठी भाषेविषयी विद्यार्थ्यांची आवड विकसित होऊन स्वनविचार,रुपविचार व वाक्यविचारांचा परिचय झाला.

Course : 11) - विद्याशाखीय विशेष निवड (DSE- E3)

"मराठी वांङ्मयाचा इतीहास" – IX

Co21 : मराठी वांङ्मयाचे स्वरूप , वैशिष्ट्यांसह स्थूल परिचय होऊन कालिक भेद लक्षात आले.

Co22 : मराठी वांङ्मयातील महत्त्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय होऊन मध्ययुगीन मराठी वांङ्मयाच्या गद्य, पद्य रचनेचे विशेष लक्षात आले.

Course : 12) - विद्याशाखीय विशेष निवड (DSE- E4)

"मराठी भाषा : उपयोजन आणि सर्जन"- X.

Co23 : सर्जनशील लेखन प्रक्रिया समजून वैचारिक लेखनाचे स्वरूप व वैशिष्ट्ये याविषयी ज्ञान प्राप्त झाले.

Co24 : शोधनिबंध व प्रकल्पलेखन कौशल्ये विकसित होऊन आंतरजालावरील मराठी लेखनपद्धतीविषयी ज्ञान संपादन झाले.

Course :13) -विद्याशाखीय विशेष निवड(DSE-E5)

“वांङ्मय प्रवाहाचे अध्ययन : ग्रामीण साहित्य - XI.

Co25 : ग्रामीण वांङ्मयाची प्रवाहाच्या प्रेरणा व स्वरूप समजून घेतले.

Co26 : अनेक ग्रामीण साहित्यिकांचा परिचय झाला व ग्रामीण साहित्यातील वैशिष्ट्ये आशयस्वरूप,अभिव्यक्तीविशेष आणि भाषिक वैभवाचे ज्ञान मिळाले.

Course :14) - विद्याशाखीय विशेष निवड (DSE- E126)

"काव्यशास्त्र" - XII.

Co27 : शब्दशक्ती, रसविचार, काव्यानंदमिमांसा व साहित्याची भाषा याविषयी ज्ञान प्राप्त झाले.
Co28 : भाषेतील छंद व वृत्ते यांचा परिचय झाला.

Course : 15) - विद्याशाखीय विशेष निवड (DSE - E127)

"भाषाविज्ञान आणि मराठी भाषा" -XIII.

Co29 : मराठी भाषेची वर्णव्यवस्था समजून घेऊन ध्वनि व अर्थ परिवर्तनाची कारणे व प्रकार यांची माहिती मिळाली.
Co30 : प्रमाणभाषा व बोलीभाषेचे स्वरूप विशेष समजून घेता आले.

Course : 16) - विद्याशाखीय विशेष निवड (DSE - E128)

"मराठी वांङ्मयाचा इतिहास" -XIV.

Co31 : मराठी वांङ्मयातील साहित्यिक व त्यांच्या साहित्यकृती याविषयी ज्ञान प्राप्त झाले.
Co32 : मराठी साहित्याचे स्वरूप व विशेष यांचे ज्ञान प्राप्त झाले.

Course : 17) -विद्याशाखीय विशेष निवड (DSE- E129)

" मराठी भाषा : उपयोजन आणि सर्जन" -XV.

Co33 : प्रसारमाध्यमातील अर्थार्जनाच्या संधी , मुद्रितशोधनाची पद्धत आणि भाषिक कौशल्य यांचा परिचय झाला.
Co34 : स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून; उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन केले.

Course : 18) - विद्याशाखीय विशेष निवड (DSE - E130)

“वांङ्मय प्रकाराचे अध्ययन: दलित साहित्य” XVI.

Co35 : दलित साहित्यप्रवाहाचे स्वरूप आणि संकल्पना तसेच वैशिष्ट्ये समजून घेतले.
Co36 : दलित साहित्यामधील शैक्षणिक, सामाजिक ,संस्कृतीक,राजकीय पर्यावरण व कौटुंबिक भावविश्व तसेच ; बहुजन व उपेक्षितांच्या जीवनाचे आकलन झाले.

Shikshan Prasarak Sanstha`s
Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF HISTORY

(Academic Year 2019-20)

Vision: To develop students' critical thinking, analytical skills, and appreciation for diverse perspectives. The History Department aspires to cultivate a sense of Global Awareness and Ethical Responsibility among students.

Mission: The department seeks to prepare students for informed and active participation in a Globalized World, understanding Historical Contexts and their relevance to Contemporary Global Issues, fostering a sense of Global Citizenship and Social Responsibility.

Programme Outcomes (Pos)
After completing B. A. degree programme, students will be able to:

PO 1: Respect core constitutional values like equality, social justice secularism and scientific approach.
PO 2: Get acquainted with and respect the common cultural heritage of pluralism and mutual respect.
PO 3: Become a responsible and dutiful citizen.
PO 4: Get well acquainted with the social, economic, political, historical and geographical facts and trends in India as well as in the world.

Programme Specific Outcomes (PSOs)
After Completion of B.A. in History students will be able to:

PSO 1: Being a subject of social science, History has its own value in society and human life. It helps the students to develop their ethical and social value.
PSO 2: There is huge potentiality in future of a history student. Various options are opened to history students to choose their career. First of all, history is a subject from primary education level to higher study, so they can engage themselves in teaching profession in primary, secondary and post-secondary schools.
PSO 3: History is also helpful for those who are preparing for WBCS and SSC. A history student may choose his or her career in journalism or any other editorial board. They may get job in museum, archives and libraries. Beside those, in the field of research and archaeology they may proceed.
PSO 4: Sensitivity to gender and social inequities as well as acquaintance with the Historical trajectories of these issues.

Course Outcomes (Cos)

B.A.I (Sem. I)

Course 1: Rise of the Maratha Power (1600-1707) (I) DSE

CO 1.1 To describe fundamentals causes of rise of Maratha power.

CO 1.2 To discuss the Chhatrapati Shivaji Maharaja's achievement till 1664.

B.A.I (Sem. II)

Course 2: Polity, society and Economy under the Marathas (1600-1707) (II) DSE

CO 2.1 Describe the forts from multiple viewpoints- as sources of history, as centres of control, as sites of historical events, and as heritage sites.

CO 2.4 To explain the policy and contribution of Chhatrapati Shivaji Maharaj.

B.A.II (Sem. III)

Course 3: History of Modern Maharashtra (1900 to 1960) (III) DSC

CO 3.1 Explain the beginnings and growth of nationalist consciousness in Maharashtra.

CO 3.2 Explain the contribution of Maharashtra to the national movement.

B.A.II (Sem. III)

Course 4: History of India (1757-1857) (IV) DSC

CO 4.1 Tell the colonial policy adopted by the company to consolidate its rule in India.

CO 4.2 Find the structural changes initiated by colonial rule in Indian Economy.

B.A.II (Sem. IV)

Course 5: History of Modern Maharashtra (1960-2000) (V) DSC

CO 5.1 Explain the contribution of eminent leaders of Maharashtra.

CO 5.2 To critique the economic transformation of Maharashtra.

B.A.II (Sem. IV)

Course 6: History of India (1858-1947) (VI) DSC

CO 6.1 Explain the events which lead to the growth of nationalism in India.

CO 6.4 Identify events leading to emergence of national consciousness in India.

B.A.III (Sem. V)

Course 7: History of Ancient India

CO 7.1 Students will develop the ability to understand and interpret literature within its historical and cultural contexts and they learn to identify and classify different archaeological source and apply archaeological methods.

CO 7.2 A comprehensive understanding of the Harappan civilization's culture, social structure, and daily life.

B.A.III (Sem. V)

Course 8: History of Mughal India (1526-1707 AD)

CO 8.1 Critically analyse primary and secondary sources related to Mughal India, including texts, inscriptions, and artifacts.

CO 8.4 Students will examine the social hierarchy, economic activities, and trade networks during the Mughal era, understanding their impact on both local and international scales.

B.A.III (Sem. V)

Course 9: History of USA

CO 9.1 Students will analyse the causes, major events, and outcomes of the American Revolution and they will explore the historical context, key figures, and debates that shaped the drafting and ratification of the American Constitution.

CO 9.2 The role of social movements and public policies in expanding democratic principles, assessing how marginalized groups have influenced and transformed American democratic practices over time.

B.A.III (Sem. V)

Course 10: Expansion and Downfall of Maratha Power (1707 to 1761)

CO 10.1 To know about Civil War in Maharashtra and contribution of Balaji Vishwanath to the Maratha Power and the role of Bajirao- I in Maratha History.

CO 10.2 Describe the Third Battle of Panipat (1761) and causes of the defeat of the Marathas.

B.A.III (Sem. V)

Course 11: Introduction to Historiography

CO 11.1 Explain the meaning, nature and kind of History and the importance of sources.

CO 11.2 Describe the process of process and tools of writing History.

B.A.III (Sem.VI)

Course 12: History of Ancient India (From 600 BC to 650 AD)

CO 12.1 To describes the Ideological background of Ancient India (Buddha, Jain, Ajivikas.

CO 12.2 Explain the great kings in Ancient India in the age of Gupta and Post Gupta period.

B.A.III (Sem.VI)

Course 13: History of Mughal India (1526-1707 AD)

CO 13.1 Identify the various sources for writing Medieval Indian history.

CO 13.2 Explain important developments in religion, society and culture.

B.A.III (Sem.VI)

Course 14: History of USA (1865 to 1945)

CO 14.1 Explain the Economic growth of Capitalism, labour movement, changes in agriculture.

CO 14.2 Describe the Emergence of USA as an imperial power and America`s role between two World War.

B.A.III (Sem.VI)

Course 15: Expansion and Downfall of Maratha Power (1762 to 1818)

CO 15.1 Explain the Maratha Power under Peshawa Madhavrao-I, Barbhai Conspiracy, contribution of Mahadaji Shinde and Nana Phadanvis to the Maratha Power.

CO 15.2 Describe the causes of Decline of the Maratha Power and Socio-Economic-Religious conditions under the Peshawa`s.

B.A.III (Sem.VI)

Course 16: Introduction to Historiography.

CO 16.1 Explain the Importance, types and Administration of the Forts and Museums.

CO 16.2 Explain the contribution of Historians to the writing of Maratha History.

ShikshanPrasarak Sanstha`s
PadmabhushanVasantraodada Patil Mahavidyalaya,KavatheMahankal

Department of Political Science
Academic Year 2019-2020

Vision: To develop students' critical thinking, analytical skills, and appreciation for diverse perspectives.

Mission: Inspire a lifelong engagement with Indian Constitution and prepare students for careers in education, public service, law, and beyond.

Programme Outcomes (Pos)
After completing B. A. degree programme, students will be able to:

PO 1: Get insights into the socio-economic and political issues at local to global.

PO 2: Good employability skills as per the current need of society to compete in the Competitive world.

PO 3: Capable of addressing complex social and environmental issues from a problem Oriented interdisciplinary perspective and also assess the its impact on the environment and society.

PO 4: To foster the practice of creative writing and studies in applied language skills.

Programme Specific Outcomes (PSOs)
After Completion of B.A. in Political Science students will be able to:

PSO 1: Academic Competence- Create awareness about political science, students will understand relation between three organs of the government, namely the legislature, the executive and the judiciary.

PSO 2: Research Competence- Acquiring the skills to conduct research, gather relevant information, and use appropriate resources to support academic work.

PSO 3: Critical Thinking- Developing the ability to analyze and evaluate information critically, drawing informed conclusions and forming arguments based on evidence.

PSO 4: Professional Competence- Recognizing ethical dilemmas and applying ethical principles in real-life situations. Working effectively as part of a team, respecting diverse perspective and contributing constructively.

Course Outcomes (Cos)

B.A.I (Sem. I)

Course 1: Introduction to Political Science (I) DSE

CO 1.1 Understands the meaning, nature, scope and the Sub-disciplines of Political Science.

CO 1.2 Getting the meaning, features and importance of State & Democracy with key concepts.

B.A.I (Sem. II)

Course 2: Indian Constitution (II) DSE

CO 2.1 Acquiring knowledge of historical background, basic features &Philosophy of Indian Constitution.

CO 2.4 Knowing legislative, executive functions of India & Procedure of judiciary.

B.A.II (Sem. III)

Course 3: Political Process in India (III) DSC

CO 3.1 Students will understand Indian Federalism & Centre-State relations.

CO 3.2 Understands electoral process, party system in India &various issues in Indian politics.

B.A.II (Sem. III)

Course 4: Indian political Thought Part-I (IV) DSC

CO 4.1 The students will understand Political views of Kautilya& Mahatma Phule.

CO 4.2 Students will be able to understand political thoughts of Ranade&Tilak.

B.A.II (Sem. IV)

Course 5: Local Self Government in Maharashtra (V) DSC

CO 5.1 To know about Historical Background of Local Self Government.

CO 5.2 Getting basic knowledge of Rural Local Self Government&Urban Local Self Government.

B.A.II (Sem. IV)

Course 6: Public Administration (VI) DSC

CO 6.1 Students will understand both personnel level administration and financial administration in India.

CO 6.2 To understand delegated legislation, new trends in public administration.

B.A.III (Sem. V)

Course 7: Modern Government (VII) DSC

CO 7.1 Getting basic knowledge & approaches of Political Theory. Knowing Behavioural movement in Political Science.

CO 7.2 Acquiring knowledge about concepts of Power, Authority and Legitimacy.

B.A.III (Sem. V)

Course 8: Public Administration (VIII) DSE

CO 8.1 Acquiring information about various concepts in Public Administration &Getting knowledge about Organization, its Bases, Principles and Units.

CO 8.2 Understanding the interface between citizens & Public Administration and other agencies in society and Public Administration.

B.A.III (Sem. V)

Course 9: International politics (IX) DSC

CO 9.1 Getting acquainted with the concepts and dimension of International Politics.

CO 9.2 To know the working of international and regional organizations and the new world orderthat emerged after the end of cold war.

B.A.III (Sem. V)

Course 10: Constitution of United States of America (X) DES-E-230

CO 10.1 Students will be familiar with basic theory of comparative politics& be able to understand constitutionalism, federalism.

CO 10.2 Students shall understand party system and pressure groups and its functioning.

B.A.III (Sem. V)

Course 11: Classical Western Political Thought (XI) DSE

CO 11.1 Students will get acquainted with the western tradition from Plato to Rousseau.

CO 11.2 Students will understand the evolution of western Political idea &be able to study historical aspects of western state and society.

B.A.III (Sem.VI)

Course 12: Modern Political Concepts (XII) DSC

CO 12.1 Student will know modern concepts such as Feminism, Multiculturalism, Environmentalism and Civil Society etc.

CO 12.2 This will enable students to have comprehensive idea of contemporary scenario in political science.

B.A.III (Sem.VI)

Course 13: Administrative Thinkers (XIII) DSE

CO 13.1 Student will know the Political System and the process of formation of Maharashtra.

CO 13.2 Student will know the movements, pressure groups and political parties in Maharashtra.

B.A.III (Sem.VI)

Course 14: Foreign Policy of India (XIV)

CO 14.1 Student will understand, ‘what is the foundation andobjectivesof ForeignPolicy’.

CO 14.2 Student will come to know India’s relation with super powers and neighboring countries.

B.A.III (Sem.VI)

Course 15: Constitution of China and Sweden (XV) DSE

CO 15.1 To familiarizes students with composition, functions, and law making process of legislative bodies in UK and USA.

CO 15.2 To introduce the Judicial System and the role of Pressure Groups in the Politics of UK and USA.

B.A.III (Sem.VI)

Course 16: Modern Western Political Thought (XVI) DSE

CO 16.1 The students will understand Political views of J. S. Mill, Karl Marx, Gramsci & Hannah Arendt.

CO 16.2 The students will get acquainted with various aspects of state and society with western perspective.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF PSYCHOLOGY

Academic Year- 2019-2020

Vision: To cultivate a comprehensive understanding of human behaviour, 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.

Program Outcomes (PO's)

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

PO 1	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.
PO 2	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.
PO 3	Understand the issues of environmental contexts and sustainable development.
PO 4	Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Program Specific Outcomes (PSO's)

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

PSO 1	Apply their knowledge of psychology to effectively solve problems and address issues related to human behavior.
PSO 2	Apply psychological principles, theories and research results to a wide range of personal, social, cultural and organizational situations and problems.
PSO 3	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.
PSO 4	Demonstrate an awareness of and respect for socio-cultural diversity on a local and global level.

Course Outcomes (CO's)

B.A. I (Sem. I)

Course 1: Foundations of Psychology

CO 1.1 Understand the field of Psychology, Perception and Sleep.
CO 1.2 Grasp Learning and Memory Processes.

B.A. I (Sem. II)

Course 2: General Psychology

CO 2.1 Know the concepts of Intelligence and Motivation.
CO 2.2 Comprehend the concepts of Emotion and Personality.

B.A. II (Sem. III)

Course 3: Psychology for Living

CO 3.1 Familiar with the nature of Psychology for Living.
CO 3.2 Know the nature of Better Health, Stress, Mental Disorders and Helping Behavior.

B.A. II (Sem. III)

Course 4: Social Psychology

CO 4.1 Aware with the nature of Social Psychology.
CO 4.2 Get knowledge of the concepts of Social Perception, Self and Attitude.

B.A. II (Sem. IV)

Course 5: Modern Social Psychology

CO 5.1 Understand the concepts of Liking (Attraction) and Social Influence.
CO 5.2 Grasp the Pro-social Behavior and Aggression.

B.A. II (Sem. IV)

Course 6: Applied Psychology

CO 6.1 Familiar with the Applications of the psychology in Personal control, Decision Making, Personal growth, At Work and Leisure.
CO 6.2 Apply the skills in Making and keeping friends and Love and Commitment.

B.A. III (Sem. V)

Course 7: Cognitive Psychology

CO 7.1 Aware the approaches to Human Cognition, Visual Perception and Attention.
CO 7.2 Grasp the processes of Memory, Emotions and Consciousness.

B.A. III (Sem. V)

Course 8: Applied Social Psychology

CO 8.1 Get knowledge of the field of Applied Social Psychology.
CO 8.2 Apply the knowledge in the field of Media, Diversity and Personal Relationships.

B.A. III (Sem. V)

Course 9: Psychopathology

CO 9.1 Familiar with the field of Psychopathology and Perspectives of Psychopathology.
CO 9.2 Understand the nature of Anxiety disorder, OCD, Mood Disorder and Suicide.

B.A. III (Sem. V)

Course 10: Educational Psychology

CO 10.1 Know the field of Educational Psychology.
CO 10.2 Aware of the Learning-Teaching Concepts, Various views of Learning and Motivation in learning as well as teaching.

B.A. III (Sem. V)

Course 11: Practical (Experiments)

CO 11.1 Familiar with Psychological Experiments and some Statistical methods.
CO 11.2 Learn the skills for conducting experiments and writing their reports.

B.A. III (Sem. VI)

Course 12: Psychological Testing

CO 12.1 Comprehend the field of Psychological Testing in general.
CO 12.2 Know the nature and uses of Intelligence, Achievement and Personality tests.

B.A. III (Sem. VI)

Course 13: Counselling Psychology

CO 13.1 Get knowledge of the field of Counselling Psychology.
CO 13.2 Apply the skills in the field of Career, School and College counselling.

B.A. III (Sem. VI)

Course 14: Personal Psychology

CO 14.1 Aware with the field of Personal Psychology.
CO 14.2 Understand the nature and learn Communicate Effectively, Value Diversity and Goal Achievement.

B.A. III (Sem. VI)

Course 15: Psychology of Organizational Behaviour

CO 15.1	Familiar with the field of Organizational Behavior.
CO 15.2	Comprehend the nature and importance of Personality, Job satisfaction, Leadership, Group Behavior and Organizational Change.

B.A. III (Sem. VI)

Course 16: Practical (Psychological Tests)

CO 16.1	Get Knowledge of the Psychological tests and some statistical methods.
CO 16.2	Learn the skills for administering Psychological Tests and writing their reports.

Shikshan Prasarak Sanstha`s
Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF ECONOMICS

(Academic Year 2019-20)

Vision: To be a premier hub of economic education and research, empowering students with the expertise and ethical grounding to drive sustainable development and social progress.

Mission: To provide a transformative education in economics, fostering critical thinking, and a commitment to ethical and sustainable economic practices.

Programme Outcomes (Pos)
After completing B. A. degree programme, students will be able to:

PO 1: Get insights into the socio-economic and political issues at local to global.
PO 2: Good employability skills as per the current need of society to compete in the competitive world.
PO 3: Capable for addressing complex social and environmental issues from a problem-oriented, interdisciplinary perspective and also assess its impact on the environment and society.
PO 4: To foster the practice of creative writing and studies in applied language skills

Programme Specific Outcomes (PSOs)
After Completion of B.A. in Economics students will be able to:

PSO 1: Students will be able to analyse the economic and institutional arrangements of firms, industries, organizations, specific regions and countries.
PSO 2: Students will understand the role of government and regulatory framework in the process of economic development.
PSO 3: Apply research knowledge in economics
PSO 4: Students will be able to analysis the current issues of the economies.

Course Outcomes (Cos)

B.A.I (Sem. I)

Course 1: Indian Economy Paper – (I) DSE

CO 1.1 Understand nature and characteristics of Indian economy

CO 1.2 Know growth, feature and impact of Indian population

B.A.I (Sem. II)

Course 2: Indian Economy Paper (II) DSE

CO 2.1 Understand role of agriculture and industrial sector in process of economic development

CO 2.2 Know role of service sector in process of economic development and implementation and impact of economic reforms

B.A.II (Sem. III)

Course 3: Macro Economics-I Paper (III) DSC

CO 3.1 Realize macro-economic variables, macro-economic theories of output and employment

CO 3.2 Analyse impact of change in general price level and consumption and investment function.

B.A.II (Sem. III)

Course 4: Money and Banking Paper No. (IV) DSC

CO 4.1 Understand Indian financial market and the practical banking

CO 4.2 Understand the organise structure and function of Reserve Bank of India and banking practices in India

B.A.II (Sem. IV)

Course 5: Macro Economics-II Paper (V) DSC

CO 5.1 Understands phases of business cycle and Expresses public finance and economic development.

CO 5.2 Explains export, import and foreign trade deficit and balance of payment concepts

B.A.II (Sem. IV)

Course 6: Money and Banking Paper (VI) DSC

CO 6.1 Know Indian Financial System and Financial Institutions.

CO 6.4 Know Banking Reform such as Narasimhan Committee, IDF in banking, Payment Bank, Small Finance Bank and E- banking services

B.A.III (Sem. V)

Course 7: Principles of Micro Economics- I VII) DSC E-71

CO 7.1 Understand consumer decision making, consumer behaviour and the concept of utility and satisfaction

CO 7.2 Derive revenue and cost figures as well as curves and production

B.A.III (Sem. V)

Course 8: Economics of Development (VIII) DSE E-72

CO 8.1 Identify the dimensions of development

CO 8.2 Know the theories of economic development and realise the role of state in economic development

B.A.III (Sem. V)

Course 9: International Economics- I (IX) DSC E-73

CO 9.1 Explain international trade and the measurement of gains from international trade

CO 9.2 Distinguish different rates of exchange and measure the terms of trade

B.A.III (Sem. V)

Course 10: Research Methodology in Economics-I (X) DES-E-74

CO 10.1 Get acquainted with the basic concepts of research and its methodologies.

CO 10.2 Select and define appropriate research problem and parameters.

B.A.III (Sem. V)

Course 11: History of Economic Thoughts- I (XI) DSE E-75

CO 11.1 Understand the basic economic ideas of various economic thinkers of the world

CO 11.2 Understand the development of economic thoughts

B.A.III (Sem.VI)

Course 12: Principles of Micro Economics-II (XII) DSC E-196

CO 12.1 Identify the market structure and analyse the economic behaviour of individual firms and markets

CO 12.2 Analyse a firm's profit maximising strategies under different market conditions and the factor pricing

B.A.III (Sem.VI)

Course 13: Economics of Planning (XIII) DSE E-197

CO 13.1 Get acquainted with economic planning and its importance in development and planning machinery in India

CO 13.2 Evaluate sectorial performance of the Indian economy and Compare and analyse Indian models of economic development

B.A.III (Sem.VI)

Course 14: International Economics- II (XIV) DSE E-198

CO 14.1 Distinguish between balance of trade and balance of payments, analyse the balance of payments

CO 14.2 Understand the various types of foreign capital and the impact of international institutions on Indian economy

B.A.III (Sem.VI)

Course 15: Research Methodology in Economics-II (XV) DSE E-199

CO 15.1 Understand the sampling techniques as a method of data collection and use techniques of data analysis in research

CO 15.2 Write a research report, thesis and a research proposal

B.A.III (Sem.VI)

Course 16: History of Economic Thoughts- II (XVI) DSE E-200

CO 16.1 Understand the economic concepts and theories of Neo-Classical and Indian thinkers.

CO 16.2 Understand the development of economic thoughts

Shikshan Prasarak Sanstha`s
Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF GEOGRAPHY

Academic Year 2019-20

Vision - To achieve the excellence with academic advanced knowledge by dedicated teaching and promoting knowledge in the discipline of Geography"

Mission - "We are committed to advancing geographical knowledge and promoting sustainability through interdisciplinary collaboration, experiential learning, and inclusive educational practices, preparing our students to address complex societal issues."

Programme Outcomes (Pos)
After completing B. A. degree programme, students will be able to:

PO 1: Get information about the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.
PO 2: Gains the knowledge of quantitative methods and their ability of statistical and cartographical Methods to solve the geographical problems.
PO 3: Know the basic concepts and terminologies used in Geography like interior of the earth, plate. tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
PO 4: Understand the basic disciplines in Geography and its sub branches.

Programme Specific Outcomes (PSOs)
After Completion of B.A. in Geography students will be able to:

PSO 1: Have got comprehensive knowledge in the discipline of Geography.
PSO 2: Apply geographical knowledge in their day to day life like being alert about disasters, weather and climatic change.
PSO 3: Acquire basic knowledge of surveying methods and map making technique.
PSO 4: Get information about various economic activities of man and their spatial temporal distribution.

Course Outcomes (Cos)

B.A.I (Sem. I)

Course 1: - B. A. I DSE – 1 Physical Geography

CO 1.1 know the latest concepts in Physical Geography (continental drift, plate tectonic, cycle of erosion).

CO 1.2 Understand the Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere and the work of denudation agents and their associated landforms and the interior structure of the earth.

B.A.I (Sem. II)

Course 2: B. A. I DSE – 2 Human Geography

CO 2.1 Student should know human races, population composition and different population theories.

CO 2.4 To Examine patterns of settlement and the agricultural types, problems and prospects.

B.A.II (Sem. III)

Course 3: B.A. II DSE - 3 Soil Geography

CO 3.1 Understand soil processes, soil formation and soil properties.

CO 3.2 Understand the classification, characteristics and distribution of soils.

B.A.II (Sem. III)

Course 4: B.A. II DSE - 4 Resource Geography

CO 4.1 Understands the concept of resource and studies the classification, examine the major resources

CO 4.2 Knows the sustainable resource development.

B.A.II (Sem. IV)

Course 5: B.A. II Geography DSE - 5 OCEANOGRAPHY

CO 5.1 The students familiarize with the basic and fundamental concepts of oceanography a branch of Physical Geography.

CO 5.2 With this study, students understand marine is key resource for the development of any country and to know physical and chemical properties of oceans.

B.A.II (Sem. IV)

Course 6: B.A. II Course – 6 Agricultural Geography

CO 6.1 Understand the role of agricultural determinants towards the changing cropping pattern.

CO 6.4 understand agricultural concepts and modern technologies used in agriculture, implementation of the Green Revolution in India.

B.A.III (Sem. V)

Course 7: Physical Geography of India

CO 7.1 Understanding physical setup of the country

CO 7.2 Student will be able to understand climate of India

B.A.III (Sem. V)

Course 8: Economic Geography

CO 8.1 In depth understanding about the economic geography.

CO 8.2 Understanding of the transport and trade.

B.A.III (Sem. V)

Course 9: Research Methodology

CO 9.1 Understand how to create and plan geographic research projects.

CO 9.2 Recognize the importance of ethics in conducting geographic research.

B.A.III (Sem. V)

Course 10: Economic Geography of India

CO 10.1 Understand basic concept in economic geography and the relationship between human activities and resources.

CO 10.2 Understand the economic situation at global level and apply this knowledge at local level.

B.A.III (Sem. V)

Course 11: Urban Geography

CO 11.1 Understood the basic concepts in urban Geography

CO 11.2 Understand the impact of site and situation on settlements & types of urban and rural settlements.

B.A.III (Sem.VI)

Course 12: Political Geography

CO 12.1 Understand how and why states are organized.

CO 12.2 Learn the relation between government and its people and the influence of political power on Geographical space.

B.A.III (Sem.VI)

Course 13: Map work and Map Reading

CO 13.1 Learn the importance of map making and map reading

CO 13.2 Understand the concept of scale and map projections.

B.A.III (Sem.VI)

Course 14: Advanced Techniques and Field work.

CO 14.1 Be able to understand the importance of field work and use of advanced techniques (GIS & GPS) in Geography

CO 14.2 Learn how to analyse Geographical data with the help of computer.

Shikshan Prasarak Sanstha`s
Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF PHYSICAL EDUCATION
Academic Year 2019-20

Mechanism for framing Learning Outcomes and Measuring their Attainment

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

Vision: To give all students opportunities and experiences that lead to the achievement of total wellness and result in a longer and healthier life.

Mission: To create awareness of the importance and benefits of physical activities in day-to-day life and encourage regular physical activities for a positive health life -style.

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

Programme Outcomes (Pos)

After completing B. A. degree programme, students will be able to:

PO 1:	Understand the disciplinary content knowledge, application of pedagogical content knowledge to teaching of physical education (Content Knowledge)
PO 2:	Use effective communication skills and strategies to enhance student engagement & learning.
PO 3:	Use appropriate technology to enhance teaching and learning and enhance personal and professional productivity (Proficiency in technology)
PO 4:	Identify diverse needs, plan inclusive classroom experiences and facilitate guidance and counselling programs for differently abled students (Inclusion)
PO5:	Foster relationships and collaboration with colleague's parent's community to support student's growth and wellbeing (Collaboration)

Programme Specific Outcomes (PSOs)

After Completion of B.A. in Physical Education students will be able to:

PSO 1:	Awareness – Create awareness about physical fitness and sports.
PSO 2:	Understand different training methods of Physical Education.
PSO 3:	Knowledge- Apply knowledge of physical education and sports for personality development.
PSO 4:	Ethics – Learn different values including hard work, respect, cooperation, teamwork etc.
PSO5:	Practical Knowledge – Apply the practical knowledge for different play grounds and rules of different games.

Course Outcomes (Cos)

B.A.I (Sem. I)

Course 1: Course 1: Introduction of Physical Education (I) DSE

CO 1.1 The meaning, definition, concepts of physical education.

CO 1.2 The changing concepts of physical education.

CO 1.3 Aim and Objectives of Physical Education

CO 1.4 Practical knowledge of Indian game and athletics

B.A.I (Sem. II)

Course 2: Foundation of Physical Education (II) DSE

CO 2.1 Understand the body posture and its characteristics.

CO 2.2 Learn physical fitness factors and theories of Play.

CO 2.3 Practical knowledge of Ball game and Yoga.

B.A.II (Sem. III)

Course 3: History of the Physical Education III) DSC

CO 3.1 Understand the physical education in ancient period of India.

CO 3.2 Knowledge of Olympic Games.

CO 3.3 Practical Knowledge of Indian game and athletics.

B.A.II (Sem. III)

Course 4: Organization and Administration in Physical Education(IV) DSC

CO 4.1 Understand organization and administration.

CO 4.2 Learn different tournaments of Shivaji University.

CO 4.2 Practical knowledge of Ball game and Yogasanas.

B.A.II (Sem. IV)

Course 5: History of the Physical Education (V) DSC

CO 5.1 Understand the development of physical education in India.

CO 5.2 Learn different institutions of sports and awards.

CO 5.3 Practical knowledge of Suryanamaskara.

B.A.II (Sem. IV)

Course 6: Organization and Administration in Physical Education (VI) DSC

CO 6.1 Understand methods of tournaments.

CO 6.2 Learn playground facilities and sports equipment.

CO 6.3 Practical knowledge of ground marking.

B.A.III (Sem. V)

Course 7: Health Education (VII) DSC

CO 7.1 The Meaning, definitions, Nature and scope of Health Education.

CO 7.2 Personal Health, and Factors influencing on Health.

CO 7.3 Social Health, Communicable diseases Causes & Prevention (HIV / AIDS, Malaria, Dengue, Chikungunya, Swine Flu, Corona etc.)

CO 7.4 Health of the Community, Health problems in family, Community, School and Colleges.

B.A.III (Sem. V)

Course 8: Recreation in Physical Education (VIII) DSE

CO 8.1 Concept, Definitions, Nature and function of Rhythm.

CO 8.2 Need & Importance of Rhythmic exercise.

CO 8.3 Meaning, Definitions, Concept of Recreation, Aim & Objectives of recreation

CO 8.4 Recent trends in recreation Hiking, Trekking, Sports camps and Competitions, Aerobics and Zumba

B.A.III (Sem. V)

Course 9: Yoga (IX) DSC

CO 9.1 Aim, Objectives and Scope of Yoga in Human Life

CO 9.2 Yoga and Physical Health: Promotive, Preventive and Curative aspects Of Physical Health

CO 9.3 Yoga and Mental Health: Nature of problems, Promotive, Preventive and Curative aspects of mental health through Yogic practices.

B.A.III (Sem. V)

Course 10: Anatomy And Physiology (X) DES-E-230

CO 10.1 Introduction OF Anatomy, Physiology and Physiology of exercises

CO 10.2 The cell and its parts

CO 10.3 Structure, classification and Functions OF Skeletal System, Muscular System, Respiratory System.

B.A.III (Sem. V)

Course 11: Dietetics And Nutrition (XI) DSE

CO 11.1 Need & importance Diet components Carbohydrates, Proteins, Fats, vitamins. Mineral Fibers and water.

CO 11.2 Meaning, Definition and sources Of Balance Diet.

CO 11.3 Malnutrition

CO 11.4 Causes, sign and symptoms OF Underweight and Obesity.

B.A.III (Sem.VI)

Course 12: Health Education Program (XII) DSC

CO 12.1 Health Program and Importance of exercises in health and fitness. Drugs, Alcohol and Tobacco-Adverse effect on performance.

CO 12.2 Need Importance and Scope of Population Education, Role of Health education in population education.

CO 12.3 Aims & Objectives program and projects World Health Organization, WHO in india and HIV / AIDS - causes, symptoms and prevention.

B.A.III (Sem.VI)

Course 13: Research In Physical Education (XIII) DSE

CO 13.1 Concept, Meaning and Definition of Research.

CO 13.2 Types of research

CO 13.3 Research Process, Stages in research process.

B.A.III (Sem.VI)

Course 14: Yoga And Health (XIV)

CO 14.1 Relationship of Yoga with Emotional Health and Structure of Human body and yogasanas.

CO 14.2 Effect of yogic exercises on respiratory and nervous system.

CO 14.3 Psychophysical basis of promoting sports career and Contribution of yogic practices for the development of Sports performances.

B.A.III (Sem.VI)

Course 15: Anatomy and Physiology of Exercise (XV) DSE

CO 15.1 Circulatory System: Blood, Heart structure and function, Blood pressure, Pulse, Blood groups, Oxygen debt.

CO 15.2 Organ of digestive system (Mouth, teeth, salivary glands, pharynx, oesphages, stomach, smalland large intestine, pancreas, liver, structure and function - in brief.

CO 15.3 Excretory System: Structure and function of Kidney and skin, Nervous System: Structure of brain and spinal cord, Reflex action.

B.A.III (Sem.VI)

Course 16: Dietetics and Hygiene (XVI) DSE

CO 16.1 Food sources and their effect (Natural food, Impure food, Processed food, Stimulants)

CO 16.2 Meaning, Need and importance Athlete Diet.

CO 16.3 Immunity (Personal hygiene - desirable hygiene habits) and School Health program.

Shikshan Prasarak Sanstha's

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA,

Kavathe Mahankal, Dist.- Sangli

Department of Chemistry

(Academic Year 2019-20)

Vision

The Chemistry Department is committed to prepare competitive and professional graduates within an innovative and intellectually stimulating environment, support other academic programs by offering quality chemistry learning experiences, conduct basic and applied research of national and international impact, build proactive partnerships with industry and offer effective training and educational and technical services to the society. To achieve excellence in teaching and research.

Mission

- Enhance the basic and applied research framework in the Chemistry Department.
- To empower through knowledge and information.
- To develop, enhance, and improve the quality of human resources.
- To cultivate resolute moral and ethical values through good chemical practices.
- To meet contemporary regional and national needs and anticipate future social and economic development.
- Build partnerships with the industry to increase employability skills.

Program Outcomes (Pos)

After completion of this program student will be able to,

PO1: Facilitate the coordination between classical academics and societal needs

PO2: Apply practical knowledge to industrial application and for developing methods

PO3: Cope up with the challenges and the advances in the science

PO4: Acquire the ability of critical analysis of different issues.

Program Specific Outcomes (PSO's)

After completion of this program student will be able to,

PSO1: Cater the needs and the challenges of chemical and metallurgical industries.

PSO2: Handle sophisticated instruments used for different analysis.

PSO3: Work in pharmaceutical industries

PSO4: Cope up for higher education such as post-graduation and research

Course Outcomes (CO's)

B.Sc. (Sem I)

DSC-3A-Course I (Inorganic chemistry)

After completing the course students will able to,

CO-1.1 Foster the ability and to aquire the knowledge of terms, facts, concept principles of atomic structure and ionic bonding

CO-1.2 Develop the proper aptitude and interest towards the concepts of inorganic chemistry like VBT and MOT

DSC-4A Course II (Organic Chemistry)

CO:2.1 Learn fundamentals of chemistry stereochemical aspects and nomenclature of stereoisomers.

CO:2.2 Understood concept of aromaticity Preparation reactions of cycloalkanes cycloalkenes and alkadienes.

B.Sc. I (Sem II)

DSC- 3B: Course III (Physical Chemistry)

CO:3.1 Understand the basic concepts of thermodynamics thermochemistry and free energy change in chemical reaction.

CO:3.2 Understand different theory of gases factors affecting rate of reactions and theories of reaction rates

DSC-4B-Course IV (Analytical Chemistry)

CO:4.1 Understand the basic methods of analysis techniques of sampling basic principle of chromatography and important aspect of titrimetric analysis.

CO:4.2 Acquire the knowledge about physical methods of water analysis chemical methods of water analysis along with basic aspects of fertilizers.

Course V Laboratory course (practical)

CO:5.1 Understood the kinetics of various reaction

CO:5.2 Acquire the knowledge of analysis of organic compounds

CO:5.3 Acquire the knowledge of simple techniques such as paper chromatography, quantitative analysis

CO:5.4 Determine the strength of mineral acid

B.Sc. II (Sem III)

DSC-C3-Course VI (Physical Chemistry)

CO:6.1 Understand conductivity, transport number of the aqueous solutions with different applications surface tension viscosity refractive index and surface phenomena at heterogeneous surfaces.

CO:6.2 Learn the various nuclear phenomena techniques of measurement of nuclear radiations and third order reaction

DSC-C4-Course VII (Industrial Chemistry)

CO:7.1 Understood the basic concepts in Industrial Chemistry and electroplating

CO:7.2 Acquire the knowledge of Indian paper industry, Soaps and Detergents

B.Sc. II (Sem IV)

DSC-D3- Course VIII (Inorganic chemistry)

CO:8.1 Understood the meaning of terminologies, concepts of co ordination chemistry and chelation

CO:8.2 Understood the periodicity of P block, 3d series elements and inorganic qualitative analysis

DSC-D4-Course IX (Organic Chemistry)

CO:9.1 To impart knowledge about Preparation synthesis reactivity and applications of carboxylic acids carbohydrates Amines and Diazonium Salts

CO:9.2 Understood the basic knowledge conformational analysis of organic compounds nomenclature and reactivity of aldehydes and ketones

Course X Laboratory course (practical)

CO:10.1 Understood the kinetics of various reaction and use of instruments for different analytical application

CO:10.2 Acquire the knowledge of Preparation, analysis of organic compounds and mixture.

CO:10.3 Foster the knowledge of extraction, purification of various metals and the analysis of inorganic compounds and mixture.

CO:10.4 Perform the quantitative analysis of various analytes

B.Sc. III (Sem V)

DSE-ES-Course XI (Inorganic Chemistry)

CO:11.1 Acquire the knowledge of Acids bases and bonding in transition metal complexes

CO:11.2 Understood the metals, semiconductor, superconductors, organometallic compounds and catalysis

DSE-E6-Course XII (Organic Chemistry)

CO:12.1 Understand the energy associated parameters chromophore, auxo chrome, calculation of Amax, vibrational transitions, regions of IR spectrum and functional group recognition.

CO:12.2 Get the knowledge of magnetic non-magnetic nuclei, shielding-deshelling, chemical shift, splitting pattern molecular ion, fragmentation pattern and different types of ions produced. Also, able to solve problems based on UV-Vis, IR, NMR, Mass Spectral data and predict the structure of organic compound with the help of provided spectral data

DSE-E7-Course XIII (Physical Chemistry)

CO:13.1 Understand elementary quantum mechanics quantum Chemistry and spectroscopy Knowledge

CO:13.2 Learn different aspects of Photochemistry solutions and electrochemistry

DSC-E8-Course XIV (Analytical Chemistry)

CO:14.1 Learn the techniques of gravimetric analysis potentiometric titrations and acquire the knowledge of instrumental analysis of alkali and alkaline earth elements by using flame photometry

CO:14.2 Understand working applications of optical methods as an analytical tool and Quality control practices in analytical industries/laboratories

B.Sc. III (Sem VI)

DSC-F-5-Course XV (Inorganic Chemistry)

CO.15.1 Impart the advances in coordination Chemistry, Nuclear chemistry and its societal applications

CO:15.2 Understood the Chemistry of f block Elements, extraction of iron and steel and Role of various metals in Bio inorganic chemistry

DSE-F6-Course-XVI (Organic Chemistry)

CO:16.1 Knowledge of different organic reactions reagents used in organic transformations and retrosynthesis of some organic compounds.

CO:16.2 Learn electrophilic addition to >C-C<CC bond and get knowledge of alkaloids and terpenoids understand chemistry of some pharmaceutical drugs

DSE-F7-Course XVII (Physical Chemistry)

CO:17.1 Know Phase equilibria, phase rule, Thermodynamics and solid-state chemistry

CO:17.2 Learn Chemical kinetics and understanding the knowledge of distribution law

DSC-F-8-Course XVIII (Industrial chemistry)

CO:18.1 Understand the process of manufacture of sugar industrial heavy chemicals and synthesis of various polymers

CO:18.2 Understand the petroleum Industry need of use of eco-friendly fuels and Understanding

Course XIX Laboratory course (practical)

CO:19.1 Apply practical knowledge to industrial application and for developing methods

CO 19.2 Understood the kinetics of various reaction

CO 19.3 Handle instruments for different analytical application.

CO:19.4 Foster the knowledge of extraction, purification of various metals the analysis of inorganic compounds and mixture

CO 19.5 Analyze the commercial samples such as talcum powder, milk sample etc

CO:19.6 Acquire the knowledge of preparation of organic compounds though green chemistry approach

CO 19.7 Carry out qualitative analysis of organic mixture

CO:19.8 Work in chemistry related industries.

DEPARTMENT OF PHYSICS

Academic Year 2019-20

Mechanism for framing Learning Outcomes and Measuring their Attainment

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

Vision

The department of Physics is committed to prepare the competitive and professional graduates by providing stimulating environment and support. It has commitment to advancing scientific knowledge educating students and contributing to society.

Mission

Our mission is to provide rigorous and comprehensive education in preparing the students for successful career in academics, industry and beyond. We are dedicated to conducting cutting edge research, addressing fundamental questions in Physics and applying our findings to address global challenges. Through collaboration, mentorship we strive to inspire curiosity, critical thinking and lifelong passion for science.

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

Program outcomes (PO's)

After successful completion of B Sc students will be able to,

PO 1 acquire the knowledge with facts.

PO 2 understand the basic concepts, fundamental principles and scientific theories.

PO 3 develop scientific outlook with respect to science subject.

Po 4 analyse the scientific idea systematically and critically.

Program Specific Outcomes (PSO's)

After successful completion of three-year degree program in physics a student should able to

1 Gain knowledge of physics through theory & practical.

2 Demonstrate solve & understand major concepts in all discipline of physics

3 Solve problems & also think methodically, independently & draw logical conclusion

4 Create an awareness of impact of physics or society & development outside the community.

5 Employ scientific Knowledge to design carryout record & analyze the results of physics experiments

Step 3: Defining Course Outcomes (CO's) of each course in a Program.

Course outcomes (CO's)

After completion of the courses,
CO1—
1 Students are able to Understand and identify scalar and vector and physical quantities.
2 1 Students are able to Understand the conceptual evolution of conservation laws of momentum and energy
CO2—
1 Students gain basic knowledge of mechanics and revise basic concept of stress, strain and Elastic constants.
2 Students are exposed to different phenomena-a in physics and can
understand applications of different phenomena in physics
CO3 ----
1 Students are able to study physical significance of gradient, curl and divergence.
2 Gain information about concept of energy density in electric field and capable of applying the concepts to solve numerical.
CO4----
1 Students are able to solve problems related with electric and magnetic field
2 Get idea of Maxwell's equations
CO5 Practical..
1 Awareness of importance of physics developed
2 Students gain skill of handling of instruments
3. Students get knowledge of mechanics
4. Awareness of handling of electronic appliances developed.
CO6-----
1 Studied laws of thermodynamics
2 Students expertise in measurement of temperature with different thermometers.
CO7------
1 Students understand nature of waves and oscillations
2 They studied properties of Sound waves.
CO8 ------
1 Students studied laws of Statistical mechanics
2 Studied TDS equations.
CO9------
1 Students can understand different optical phenomena & can handle polarimeter to determine specific rotation of ppl
2 They can use knowledge of optics for various applications in society and develop research attitude
CO10 Practical…
1 Students gain skill of measurement of thermal conductivity of different metals by various methods.
2 Students are exposed to study of effect of heat on properties of matter
CO11 practical
1 Students can understand properties of sound
2. Students exposed to different properties of light by using various optical instruments
CO12-------
1 Students can understand idea of partial diff equations
2 Students can analyze properties of complex no. and can solve special type integrals.
CO13-----
1 Students well understand wave nature of matter particle.
2 They understand 1D &3D wave equation and use to solve problems. Gain skill how to use Operators
CO14------

1 Students studied various equations and principles and their applications in classical mechanics
2 Students exposed to special theory of relativity and charged particle dynamics.
CO 15--------
1 Students understand working and practical application of transistors; ICs, OPAMPS.
2 They can build electronic circuits and get knowledge about logic circuits.
3 Develop skill of use of CRO.
CO 16-------
1 Students exposed to nuclear properties with detectors and accelerator
2 Get knowledge about elementary particles and their classification.
CO 17-------
1 Students gain knowledge about magnetic properties of materials
2 Students are exposed to research in Materials science.
C18-- ---
1 Develop research skills in astronomy and can study Cosmos and it's origin
2. Develop scientific vision and can use for Society
3 Well understand Atomic and Molecular spectra.
CO19-------
1 Gain knowledge about renewable energy sources.
2 Creates awareness about research in nanomaterial and Super capacitors.
CO20 Practical….
1 Research attitude developed among students.
2 Job oriented skill developed
CO21 Practical
1 Awareness of use of nonconventional energy sources is developed
2 Students can apply practical knowledge to design logic circuits
CO22. Practical ------
1 Gain knowledge about safety of electronic instruments.
2 Students expertise in use of Optical instruments
CO23 Practical…..
1 Expertise in how to use CRO
2 Gain skill of using electric instruments and use of physics for Society.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department of Botany

Academic Year 2019-20

Mechanism for framing Learning Outcomes and Measuring theirAttainment

Step1: Definingthe Vision and Mission ofthe Department.

Vision –

The Department of Botany is a fostering ground for an individual's comprehensive development and to inculcate fraternal spirit for scientific work & ability to pursue studies far beyond graduation and effective contribution to the society.

Mission –

- To impart knowledge is the basic aim of education. The students are expected acquire the knowledge of Plants science, natural phenomenon, manipulation of environment by man.
- Understanding the scientific terms, concepts, facts, phenomenon etc.
- To develop scientific attitude which is the major objective.
- This makes the students open minded, cirtical observations, curiosity, thinking etc.
- Appreciation of the subject, contributions of scientists, scientific methods, scientific programs etc.

Step2: DefiningProgramOutcomes (PO's)and ProgramSpecificOutcomes(PSO's)oftheprogram.

Programoutcomes(PO's)

Aftercompletionof**B. Sc**.**Botany**ProgramStudentswill beableto,

PSO 1: To acquire the knowledge with facts.
PSO 2: To understand the basic concepts, fundamental principles and scientific theories
PSO 3: To develop scientific outlook with respect to science subjects.
PSO 4: To analyze the given scientific data critically and systematically.

ProgramSpecificOutcomes(PSO's)

After completion of graduation in **B. Sc. Botany**students will beable to,

1. To know the scope and importance of the plant systematics.
2. To understand plant morphology, nomenclature and classification
3. To prepare and demonstrate herbarium and to understand importance of Botanical gardens.
4. To examine internal organization of plant organs.

Step3:DefiningCourseOutcomes(CO's)ofeachcourseinaProgram.

Courseoutcomes(CO's)

Course1: Microbes, Algae and Biofertilizers

Atthe endofthiscourse studentswill beable to,

C01.1- Understand the diversity among microbes, Algae and Fungi.

CO1.2- Know the Economic Importance of Microbes, Algae and Fungi.

Course2:Cell Biology and analytical techniques

Atthe endofthiscourse studentswill beableto,

CO2.1- Understand the morphological diversity of the BryophytesPteridophytes and gymnosperms.

CO2.2- Understand the economic importance of the BryophytesPteridophytes and gymnosperms.

Course3: Mycology, Phytopathology and Mushroom cultivation

At the end of this course students will be able to,

CO3.1- Understand the scope of ecology.

CO3.2- Understand the adaptations in plants.

Course4: Archegoniate

At the end of this course students will be able to,

CO4.1 Understand the diversity of Angiosperms.

CO4.2 Understand the Phylogeny of angiosperms -A general account of the origin of Angiosperms.

Course5: PracticalI

CO5.1-Students can understand Gardening skills, Nursery techniques,Plant identification and herbarium techniquePlant resources and preservation technique of Indian native seeds or land races

CO5.2-Students can understand water analysis,Germplasm conservation (in-vivo)

Course6:Plant systematics and Anatomy

At the end of this course students will be able to,

CO6.1- To know the scope and importance of the plant systematics.

CO6.2- To understand plant morphology, nomenclature and classification

Course7: Genetics and Molecular Biology

At the end of this course students will be able to,

CO7.1- To understand the principles of Mendelian inheritance and gene interaction.

CO7.2- To differentiate between structural and numerical variations in chromosomes.

Course8:Plant Ecology and Economic botany

Atthe endofthiscourse studentswill beable to,

CO8.1- To understand core concepts of biotic and abiotic components.

CO8.2- To gain and insight in to the diverse ecosystem, related food web and ecological pyramids.

Course9: Plant physiology, Nursery and Gardening techniques

Atthe endofthiscourse studentswill beable to,

CO9.1- To understand various physiological processes in plants.

CO9.2- To understand significance and mechanism of photosynthesis.

Course10:PracticalII&Practical III

Atthe endofthiscourse studentswill beable to,

CO10.1- Students will able to identify the plants

CO10.2-Students will be able to present scientific hypotheses.

Course11: Genetics and Plant Breeding

Atthe endofthiscourse studentswill beable to,

CO11.1- To understand Mendelian and Neo-mendelian genetics and mechanism of crossing over and linkage and mutation.

CO11.2- To understand Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pure line Selection and Clonal selection.

Course12:Microbiology, Plant Pathology and Mushroom Culture Technology

Atthe endofthiscourse studentswill beable to,

CO12.1- Understand the Microbial Genetics and Recombination in Bacteria.

CO12.2- Understand the scope and importance of Mushroom cultivation.

Course13:Cytology and Research Techniques in Biology

Atthe endofthis coursestudents will be able to,

CO13.1-To gain knowledge about "Cell Science".

CO13.2- Know the details of Microscopy, Chromatography and cultural techniques in Botany.

Course14:Horticulture and Gardening

Attheendofthiscoursestudentswillbeable to,

CO14.1-To know the importance of Pomoculture, Olericulture, Floriculture and Land scape gardening and infrastructure for nursery.

CO14.2-To get the knowledge of Horticultural produce and management of pest and diseases.

Course15:Plant Biochemistry and Molecular Biology

Attheendofthiscoursestudentswillbeableto,

COS15.1-Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharides.They will learn about the Significance of Carbohydrates and understand the Properties of saturated fatty acids, and unsaturated fatty acids.

COS15.2-Understand the protein - structure and classification and protein biosynthesis in prokaryotes and eukaryotes.

Course16:Bioinformatics, Biostatistics and Economic Botany

Attheendofthiscoursestudentswillbeableto,

COS16.1-To know the scope and branches of Binformatics, biological data bases and applications.

COS16.2-To understand the collection and presentation biostatical data, Census method and sampling methods, classification, tabulation and graphical representation.

Course17:Plant biotechnology and Palaeobotany

Attheendofthiscoursestudentswillbeableto,

COS17.1- Know about the genomic organization of living organisms and understanding the fundamentals of Recombinant DNA Technology, DNA fingerprinting, molecular DNA markers, PCR and concept of gene bank.

COS17.2- Understanding the Genetic Engineering and principle and basic protocols for Plant Tissue Culture.

Course18:Biofertilizers and Herbal Drug Technology

Attheendofthiscoursestudentswillbeableto,

COS18.1- Understand the importance, types and study of bacterial, blue green algal, mycorrhizal and trichodermal biofertilizers and methods of vermicomposting.

COS18.2- To Know the importance of herbal medicines, classification of crude drugs and applications of herbs in cosmetics, facemasks, bath oil and perfumes.

Course19:PracticalIV,V,VI&VII

COS19.1- Students can understand to examine the structure of DNA.

COS19.2- Students can identify the common plant diseases according to geographical locations and device control measures.

COS19.3- Students can understand to compared the effect of chromosomal abnormalities in numerical as well as structural changes leading to genetic disorders.

COS19.4- Students can conceptual understanding of plant genetic resources, plant breeding, gene bank and gene pool.

COS19.5- Students can understand the herbal preparations of churns, decoction, hair oil and shampoo.

COS19.6- Students can understand the micrometry, microphotography and microtomy techniques.

COS19.7- Students can understand the varices branches of horticulture, fruit and vegetable crops, floriculture, medicinal and aromatic plants.

COS19.8- Students can understand the different landscaping practices and garden design.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe-*Mahankal.*

Department of Commerce
Program and Course Outcomes
Bachelor of Commerce – B.Com
Year 2019-2020

Mechanism for framing Learning Outcomes and Measuring their Attainment

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

Vision

1. To strengthen the teaching of commerce and applications of commerce
2. To occupy a significant place in the field of commerce by offering distinguishedeffective and on-going opportunities to the students.
3. To popularize the Department as center for excellence in Commerce.

Mission

1. To produce potential graduates having sound knowledge of major various concepts of Commerce.
2. To develop the entrepreneurship techniques that can be applied in various domains of research areas.
3. Promoting a culture of ethical behavior, social responsibility, and lifelong learning.
4. Better understanding of this interdisciplinary subject will result into fruitful outcomes for the betterment of science and society.

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

PO 1 Students can synthesize values through the three year degree program of Bachelor of Commerce which helps build character that is unique to a commerce graduate and contributes a lifelong way of thinking that influences their holistic development.

PO 2 After completing a three-year Bachelor of Commerce (B.Com.) course; Students will be able to apply comprehensive knowledge, understanding and ability to analyse financial data, interpret economic trends to make informed decisions

PO 3 The students will develop application skills in the domain of Accountancy, Management, Auditing, Taxation, Economics, Commerce, Costing, Marketing And Finance.

PO 4 This program improves logical thinking, statistical and accounting skills. Competing globally requires communication skills, confidence and practical awareness Employability in the corporate world and development into a resourceful and responsible citizen India.

Program Specific Outcomes (PSO's)

After completion of **B. Com** Programme Students will be able to,

PSO1: Maintaining books of accounts and small medium scale industrial units

PSO2: Students will learn relevant managerial accounting career skill applying

both

quantity and quantitative knowledge to their future careers in business.

PSO3: Aware the knowledge about basic concept corporate accounting

PSO4: Builds abilities become successful entrepreneurs prepare a business plan set up and own venture.

Step 3: Defining Course Outcomes (CO's) of each course in a Program.

Course outcomes (CO's)

After completing this course, students will be able:

Course: 1 Management Principles and Application -Paper-I

CO01: To get an idea about motivation concept and theories

CO02: To develop their leadership skill, coordination and control, green management

Course2: Management Principles and Application -Paper-II

CO 01 To provide basic knowledge of concepts and principles of marketing.
CO 02 The students will be aware with four basic elements of marketing i.e.4Ps in and he will be armed with various Skills about branding, advertisement

Course3: Industrial Management Paper – I
CO01 Understanding the concept Industrial Management, Work Environment
CO02 Acquaintance with the Plant Maintenance, Financial Management

Course4: Industrial Management Paper – II
CO01 Knowledge about the Human Resource Management.
CO02 Acquaintance with the Employee Training and Recent Trends in HRM

Course5: Industrial Management Paper-III
CO01 Understanding the Meaning concept of Production Management and PPC, Inventory Management
CO02 Acquaintance with the Productivity, Logistic Management

Course6 Industrial Management Paper-IV

CO01 Knowing the meaning and concept about the Employee Remuneration.

CO02 Acquaintance with the Industrial Relations, Employee Safety, Health and Moral, HR accounting.

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 matrixfor 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	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0

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	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0
CO 2.1	2	2	1	2	0	0	3	1
CO 2.2	1	2	1	0	1	0	3	2
CO 3.1	2	3	3	2	0	0	2	1
CO 3.2	3	2	2	2	1	2	3	3
CO 4.1	2	2	1	0	2	2	1	1
CO 4.2	1	1	2	0	1	1	1	3
CO 5.1	2	3	3	0	2	0	0	1
CO 5.2	0	2	3	3	3	2	1	0
CO 6.1	1	1	3	3	2	1	3	2
CO 6.2	3	0	2	1	3	2	0	2

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

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	2	0	1	1	2	0	1	1
CO 1.2	3	1	0	1	3	1	0	0
Average ($X_{1,.,l}$)	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5

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.

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	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5
C_2	Course_2	1.5	2	1	1	0.5	0	3	1.5
C_3	Course_3	2.5	2.5	2.5	2	0.5	1	2.5	2
C_4	Course_4	1.5	1.5	1.5	0	1.5	1.5	1	2
C_5	Course_5	1	2.5	3	1.5	2.5	1	0.5	0.5
C_6	Course_6	2	0.5	2.5	2	2.5	1.5	1.5	2

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, $PO_1, PO_2, \dots, PO_{n1}$
  - Program has n_2 PSO's, say, $PSO_1, PSO_2, \dots, PSO_{n2}$

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

  - For convenience, let us denote the PO's & PSO's $PO_1, PO_2, \dots, PO_{n1}, PSO_1, PSO_2, \dots, PSO_{n2}$ 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 $X_{i.l} = \frac{1}{k} \sum_{j=1}^{k} X_{ijl}$ Here k 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% weightage 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 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	Course name	$X_{i,.,1}$	Level	Status
C_1	Course_1	3	Good	Attained
C_2	Course_2	3	Good	Attained
C_3	Course_3	4	Very Good	Attained
C_4	Course_4	4	Very Good	Attained
C_5	Course_5	4	Very Good	Attained
C_6	Course_6	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 l^{th}, PO's & PSO's is calculated as follows.

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

ID	Course name	ALCi	$X_{i,.,1}$	$ALC_i * X_{i,.,1}$
C_1	Course_1	3	2.5	7.5
C_2	Course_2	3	1.5	4.5
C_3	Course_3	4	2.5	10
C_4	Course_4	4	1.5	6
C_5	Course_5	4	1	4
C_6	Course_6	4	2	8
Sum		22		40
			$DALP_1$ = 40/22	1.8182

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	3	2.5	0.5	0.5	1	2.5	0.5	0.5	0.5
2	3	1.5	2	1	1	0.5	0	3	1.5
3	4	2.5	2.5	2.5	2	0.5	1	2.5	2
4	4	1.5	1.5	1.5	0	1.5	1.5	1	2
5	4	1	2.5	3	1.5	2.5	1	0.5	0.5
6	4	2	0.5	2.5	2	2.5	1.5	1.5	2
Sum	22	11	9.5	11	7.5	10	5.5	9	8.5

Sr. No.	ALC_i* $X_{i,.,1}$	ALCi* $X_{i,.,2}$	ALCi* $X_{i,.,3}$	ALCi* $X_{i,.,4}$	ALCi* $X_{i,.,5}$	ALCi* $X_{i,.,6}$	ALCi* $X_{i,.,7}$	ALCi* $X_{i,.,8}$
1	7.5	1.5	1.5	3	7.5	1.5	1.5	1.5
2	4.5	6	3	3	1.5	0	9	4.5
3	10	10	10	8	2	4	10	8
4	6	6	6	0	6	6	4	8
5	4	10	12	6	10	4	2	2
6	8	2	10	8	10	6	6	8
Sum	40	35.5	42.5	28	37	21.5	32.5	32
DALP $_l$	1.8182	1.6136	1.9318	1.2727	1.6818	0.9773	1.4773	1.4545

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 $_l$*

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 $2 < ALC_i \leq 2.5$,

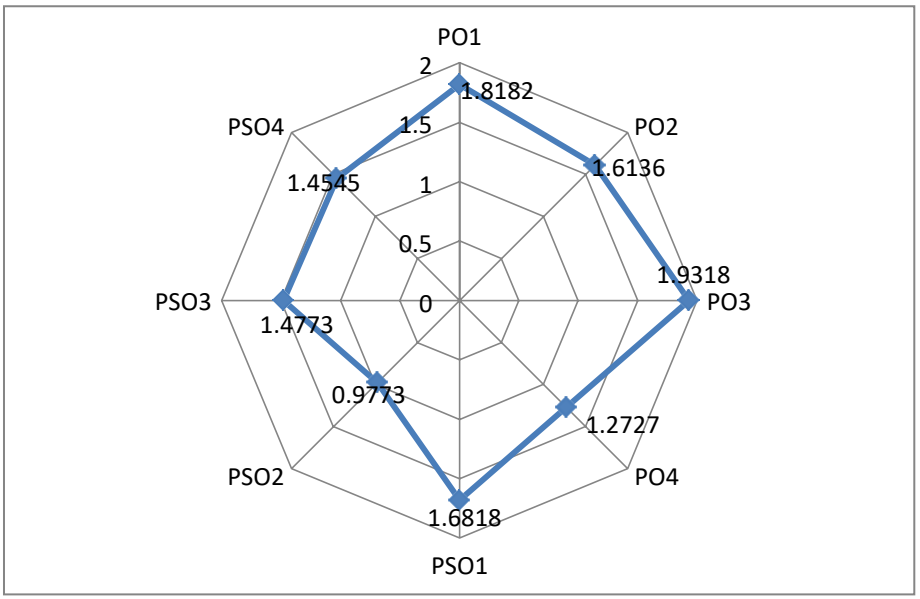
Level 5: Excellent – if $2.5 < ALC_i \leq 3$.

For every PO's and PSO's, we have set level 3 as target level that is we are aiming minimum level 3 (good) in the performance of abilities of students.

Attainment level of all the POs and PSOs

PO's	*DALP* $_l$	Level	Status
PO1	1.8182	Good	Attained
PO2	1.6136	Good	Attained
PO3	1.9318	Good	Attained
PO4	1.2727	Average	Not Attained
PSO1	1.6818	Good	Attained
PSO2	0.9773	Poor	Not Attained
PSO3	1.4773	Average	Not Attained
PSO4	1.4545	Average	Not Attained

P_l attainment target level say, 3, indicates that, the department is aiming minimum level-3 (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 bydesigning 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-3 are addressed by planning remedial measures for the corresponding courses with respect tothan P_l.