



**Maratha Vidya Prasarak Samaj's**  
**KARMAVEER SHANTARAMBAPU KONDAJI WAVARE**  
**ARTS, SCIENCE AND COMMERCE COLLEGE, CIDCO**

**Uttamnagar, Nashik- 422 008 (Maharashtra)**

Principal

**Prof. (Dr) S. K. Kushare**  
M.Sc., Ph. D.

Affiliated to Savitribai Phule Pune University Id. No. PU/NS/ASC/047/1993  
AISHE C-42086 NAAC Re-accredited 'A' Grade (III Cycle 2017-22, CGPA 3.20)  
Best College Award of Savitribai Phule Pune University Pune in 2009-10 and 2021-22

**Internal Quality Assurance Cell**

**Criterion II**

**2.6.2 Attainment of PO's and CO's are evaluated. Explain with evidence in a maximum of 500 Words**

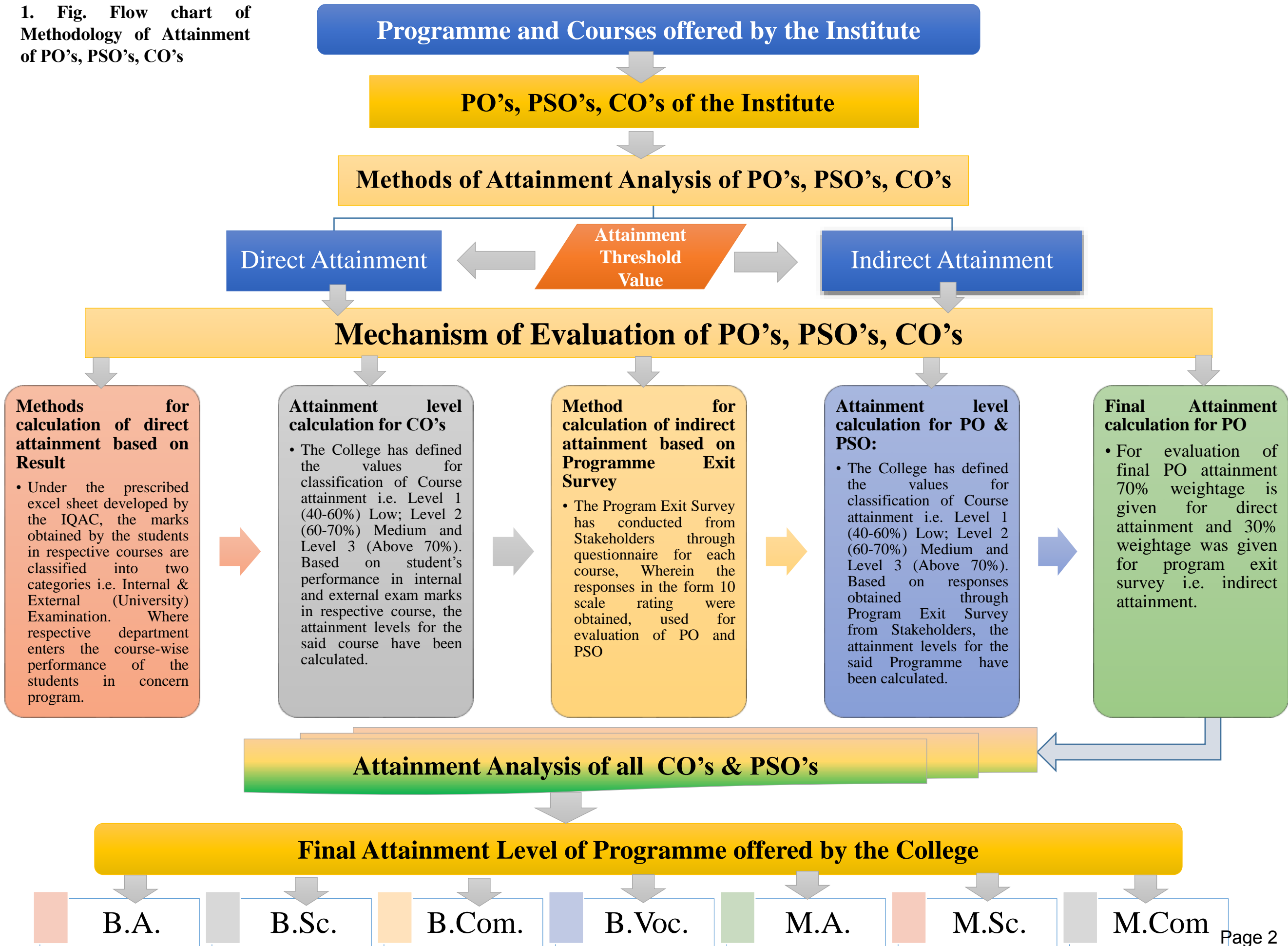
**Response: Supportive Documents**

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1. Fig. Flow chart of Methodology of Attainment of PO's, PSO's, CO's





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**Programmes offered by Institution**

Sr. No.	Programme /courses	Duration	UG/PG	Year of Start
I	B.A.	3 Years	UG	1993-1994
II	B.Sc.	3 Years	UG	1993-1994
III	B.Com	3 Years	UG	1993-1994
IV	B. Voc	3 Years	UG	2018-2019
V	M.A.	2 Years	PG	2009-2010
VI	M.Sc.	2 Years	PG	2009-2010
VII	M.Com.	2 Years	PG	2009-2010
1	B.A. Economics	3 Years	UG	2000-2001
2	B.A. English	3 Years	UG	2000-2001
3	B.A. Geography	3 Years	UG	2000-2001
4	B.A. Hindi	3 Years	UG	2000-2001
5	B.A. History	3 Years	UG	2000-2001
6	B.A. Marathi	3 Years	UG	2000-2001
7	B.A. Politics	3 Years	UG	2000-2001
8	B.A. Psychology	3 Years	UG	2000-2001
9	B.A. Sociology	3 Years	UG	2000-2001
10	B.Sc. Botany	3 Years	UG	2000-2001
11	B.Sc. Chemistry	3 Years	UG	2000-2001
12	B.Sc. Computer Science	3 Years	UG	1998-1999
13	B.Sc. Mathematics	3 Years	UG	2019-2020
14	B.Sc. Microbiology	3 Years	UG	2000-2001
15	B.Sc. Physics	3 Years	UG	2000-2001
16	B.Sc. Zoology	3 Years	UG	2000-2001
17	B. Com Business Administration	3 Years	UG	2000-2001
18	B. Com Cost and Works Accounting	3 Years	UG	2000-2001
19	B. Com Marketing Management	3 Years	UG	2000-2001
20	B. Voc. Food Processing Technology	3 Years	UG	2018-2019
21	B. Voc. Electrical Appliances Maintenance & Repairing	3 Years	UG	2018-2019
22	B. Voc. Yoga & Naturopathy	3 Years	UG	2020-2021
23	M. A. Economics	2 Years	PG	2009-2010



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M.Sc., Ph. D.

Sr. No.	Programme /courses	Duration	UG/PG	Year of Start
24	M. A. English	2 Years	PG	2002-2003
25	M. A. Hindi	2 Years	PG	2009-2010
26	M. A. Marathi	2 Years	PG	2002-2003
27	M.A./M.Sc. Geography	2 Years	PG	2008-2009
28	M. Sc. Botany	2 Years	PG	2021-2022
29	M. Sc. Chemistry	2 Years	PG	2009-2010
30	M. Sc. Computer Science	2 Years	PG	2008-2009
31	M. Sc. Physics	2 Years	PG	2016-2017
32	M. Sc. Zoology	2 Years	PG	2021-2022
33	M.Com. Business Administration	2 Years	PG	2003-2004
34	M.Com. Advanced Cost Accounting and Cost System	2 Years	PG	2022-2023
35	Ph.D. Research Centre in Chemistry	5 Years	Ph.D.	2021-2022
36	Ph.D. Research Centre in Commerce	5 Years	Ph.D.	2022-2023
37	B.Voc. Diploma in Yoga	1 Years	Diploma	2020-2021
38	B.Voc. Diploma in Sustainable Agriculture	1 Years	Diploma	2020-2021
39	B.Voc. Diploma in Medical Laboratory Technology	1 Year	Diploma	2020-2021
40	B.Voc. Diploma in Sericulture	1 Year	Diploma	2020-2021
41	B.Voc. Diploma in English for Practical Purposes	1 Year	Diploma	2020-2021



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## Internal Quality Assurance Cell

### Criterion-II : Key Indicators 2.5 *Evaluation Process and Reforms*

#### 2.6.2 Attainment of PO's, PSO's, Course Outcomes CO's

**Methods Policy Document of Attainment of Programme outcomes and course outcomes are evaluated by the institution.**

The college has its own unique system to evaluate attainment of CO, PO and PSO which is based on final year result analysis and program exit survey for particular program run in the college. The IQAC of the college has designed the unique excel sheet for all the calculation of attainment of CO, PO and PSO for all the faculties.

Performance of the students in internal and external examination of respective courses at their final examination (2021-22) have been used to evaluate the Course outcome (CO) called **Direct Total Attainment**.

The Program Exit Survey has conducted from Stakeholders (Final year students, Alumni, Parents, Teachers, Industrial experts etc.) through common questionnaire for all the courses to evaluate Program Outcomes and Program Specific Outcomes (PO, PSO) called as **Indirect Total Attainment**.

For the evaluation of attainment, the College has decided 50% threshold value representing attainment of CO and PO learned by students in respective program. The threshold value is the base value upon which marks are to be consider for the further calculation of Course attainment. The attainment has classified in to 3 level i.e. Level 1 (40-60%); Level 2 (60-70%) and Level 3 (Above 70%).

#### **Mechanism of evaluation for CO, PO & PSO:**

**1. Method for calculation of direct attainment based on result:** Under the prescribed excel sheet developed by the IQAC, the marks obtained by the students in respective courses are classified into two categories i.e. Internal & External (University) Examination. Where respective department enters the course-wise performance of the students in concern program.

**2. Attainment level calculation for CO:** The College has defined the values for classification of Course attainment i.e. Level 1 (40-60%) Low; Level 2 (60-70%) Medium and Level 3 (Above

70%). Based on student's performance in internal and external exam marks in respective course, the attainment levels for the said course have been calculated.

**3. Method for calculation of indirect attainment based on Programme Exit Survey:** The Program Exit Survey has conducted from Stakeholders through questionnaire for each course, wherein the responses in the form 10 scale rating were obtained, used for evaluation of PO and PSO. The questions are as follows:

- a) How will you rate to the Course Content under Specific Programme provides adequate knowledge and skills about the Course?
- b) How will you rate the Programme assign by Parent university is able to inculcate Critical & analytical thinking among the student?
- c) How will you rate the students are able to create, select and apply appropriate techniques &resources according to the need of modern Society?
- d) How will you rate the students are able to design Solutions for Complex Societal, Cultural, technical and Environmental Problems through knowledge given by Specific Programme?
- e) How will you rate the students are able to functioning effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings?

**4. Attainment level calculation for PO & PSO:** The College has defined the values for classification of Course attainment i.e. Level 1 (40-60%) Low; Level 2 (60-70%) Medium and Level 3 (Above 70%). Based on responses obtained through Program Exit Survey from Stakeholders, the attainment levels for the said Programme have been calculated.

**5. Final Attainment calculation for PO:** For evaluation of final PO attainment 70% weightage is given for direct attainment and 30% weightage was given for program exit survey i.e. indirect attainment.

Ref. Flow Chart of Methodology



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**Attainment Analysis Results of**  
**Programme Outcome (PO's) Programme Specific Outcomes (PSO's), Course Outcomes (CO's)**  
**Academic Year (2021-2022)**

**Attainment Level of Programme Outcomes (PO'S)**

B.A.	B.Sc.	B.Com.	B.Voc.	M.A.	M.Sc.	M.Com.
2.68	2.71	2.29	3.00	2.32	2.73	2.76

**Attainment Level of Programme Specific Outcomes (PSO's)**

	Level of Attainment					
	Low	Medium	High			
	1	2	3			
	Base Value (level)					
<b>B.A.</b>	<b>B.Sc.</b>	<b>B.Com.</b>	<b>B.Voc.</b>	<b>M.A.</b>	<b>M.Sc.</b>	<b>M.Com.</b>
<ul style="list-style-type: none"> <li>Economics</li> <li>English</li> <li>Geography</li> <li>Hindi</li> <li>History</li> <li>Marathi</li> <li>Politics</li> <li>Psychology</li> <li>Sociology</li> </ul>	<ul style="list-style-type: none"> <li>Botany</li> <li>Chemistry</li> <li>Computer Science</li> <li>Mathematics</li> <li>Microbiology</li> <li>Physics</li> <li>Zoology</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Cost and Works Accounting</li> <li>Marketing Management</li> </ul>	<ul style="list-style-type: none"> <li>Food Processing Technology</li> <li>Electrical Appliances Maintenance &amp; Repairing</li> </ul>	<ul style="list-style-type: none"> <li>Economics</li> <li>English</li> <li>Hindi</li> <li>Marathi</li> </ul>	<ul style="list-style-type: none"> <li>Geography</li> <li>Chemistry</li> <li>Computer Science</li> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>

PSO (BA)	Level	Attainment Analysis
Economics	2.76	<a href="#">View Doc</a>
English	2.25	<a href="#">View Doc</a>
Geography	2.65	<a href="#">View Doc</a>
Hindi	2.76	<a href="#">View Doc</a>
History	3.00	<a href="#">View Doc</a>
Marathi	3.00	<a href="#">View Doc</a>
Politics	2.79	<a href="#">View Doc</a>
Psychology	2.39	<a href="#">View Doc</a>
Sociology	2.56	<a href="#">View Doc</a>

PSO (B.Sc)	Level	Attainment Analysis
Botany	2.67	<a href="#">View Doc</a>
Chemistry	2.75	<a href="#">View Doc</a>
Comp. Sci.	3.00	<a href="#">View Doc</a>
Mathematics	2.55	<a href="#">View Doc</a>
Microbiology	2.75	<a href="#">View Doc</a>
Physics	2.57	<a href="#">View Doc</a>
Zoology	2.68	<a href="#">View Doc</a>

PSO (B.Com)	Level	Attainment Analysis
Business Administration	2.37	<a href="#">View Doc</a>
Cost & Works Accounting	2.27	<a href="#">View Doc</a>
Marketing Management	2.24	<a href="#">View Doc</a>

PSO (M.Com)	Level	Attainment Analysis
Business Administration	2.79	<a href="#">View Doc</a>

PSO (B. Voc)	Level	Attainment Analysis
Food Processing Technology	3.00	<a href="#">View Doc</a>
Electrical Appliances Maintenance & Repairing	3.00	<a href="#">View Doc</a>

PSO (MA)	Level	Attainment Analysis
Economics	2.76	<a href="#">View Doc</a>
English	2.09	<a href="#">View Doc</a>
Hindi	1.92	<a href="#">View Doc</a>
Marathi	2.50	<a href="#">View Doc</a>

PSO (MSc)	Level	Attainment Analysis
Geography	2.68	<a href="#">View Doc</a>
Chemistry	2.61	<a href="#">View Doc</a>
Comp. Sci.	3.00	<a href="#">View Doc</a>
Physics	2.66	<a href="#">View Doc</a>

PSO (B. Voc- Diploma)	Level	Attainment Analysis
Diploma in Yoga	3.00	<a href="#">View Doc</a>
Diploma in Sustainable Agriculture	2.97	<a href="#">View Doc</a>
Diploma in Medical Laboratory Technology	3.00	<a href="#">View Doc</a>
Diploma in Sericulture	3.00	<a href="#">View Doc</a>
Diploma in English for Practical Purposes	2.51	<a href="#">View Doc</a>

UG	PG	Diploma
2.67	2.70	2.90



  
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**Academic Year (2020-2021)**

**Attainment Level of Programme Outcomes (PO'S)**

B.A.	B.Sc.	B.Com.	B.Voc.	M.A.	M.Sc.	M.Com
2.82	2.97	2.59	3.00	2.56	2.93	2.76

**Attainment Level of Programme Specific Outcomes (PSO's)**

Programme	Level of Attainment			
	Low	Medium	High	
	Base Value (level)	1	2	3
<b>B.A.</b>				
<ul style="list-style-type: none"> <li>Economics</li> <li>English</li> <li>Geography</li> <li>Hindi</li> <li>History</li> <li>Marathi</li> <li>Politics</li> <li>Psychology</li> <li>Sociology</li> </ul>				
<b>B.Sc.</b>				
<ul style="list-style-type: none"> <li>Botany</li> <li>Chemistry</li> <li>Computer Science</li> <li>Mathematics</li> <li>Microbiology</li> <li>Physics</li> <li>Zoology</li> </ul>				
<b>B.Com.</b>				
<ul style="list-style-type: none"> <li>Business Administration</li> <li>Cost and Works Accounting</li> <li>Marketing Management</li> </ul>				
<b>B.Voc.</b>				
<ul style="list-style-type: none"> <li>Food Processing Technology</li> <li>Electrical Appliances Maintenance &amp; Repairing</li> </ul>				
<b>M.A.</b>				
<ul style="list-style-type: none"> <li>Economics</li> <li>English</li> <li>Hindi</li> <li>Marathi</li> </ul>				
<b>M.Sc.</b>				
<ul style="list-style-type: none"> <li>Geography</li> <li>Chemistry</li> <li>Computer Science</li> <li>Physics</li> </ul>				
<b>M.Com.</b>				
<ul style="list-style-type: none"> <li>Business Administration</li> </ul>				

PSO (BA)	Level	Attainment Analysis
Economics	2.66	<a href="#">View Doc.</a>
English	2.79	<a href="#">View Doc.</a>
Geography	2.74	<a href="#">View Doc.</a>
Hindi	3.00	<a href="#">View Doc.</a>
History	2.76	<a href="#">View Doc.</a>
Marathi	3.00	<a href="#">View Doc.</a>
Politics	2.89	<a href="#">View Doc.</a>
Psychology	2.60	<a href="#">View Doc.</a>
Sociology	2.93	<a href="#">View Doc.</a>

PSO (B.Sc)	Level	Attainment Analysis
Botany	2.99	<a href="#">View Doc.</a>
Chemistry	2.95	<a href="#">View Doc.</a>
Comp. Sci.	3.00	<a href="#">View Doc.</a>
Mathematics	2.97	<a href="#">View Doc.</a>
Microbiology	2.95	<a href="#">View Doc.</a>
Physics	2.97	<a href="#">View Doc.</a>
Zoology	3.00	<a href="#">View Doc.</a>

PSO (B.Com)	Level	Attainment Analysis
Business Administration	2.50	<a href="#">View Doc.</a>
Cost & Works Accounting	2.62	<a href="#">View Doc.</a>
Marketing Management	2.66	<a href="#">View Doc.</a>

PSO (M.Com)	Level	Attainment Analysis
Business Administration	2.76	<a href="#">View Doc.</a>

PSO (B. Voc)	Level	Attainment Analysis
Food Processing Technology	3.00	<a href="#">View Doc.</a>
Electrical Appliances Maintenance & Repairing	3.00	<a href="#">View Doc.</a>

PSO	Level	Attainment Analysis
Economics	2.76	<a href="#">View Doc.</a>
English	1.51	<a href="#">View Doc.</a>
Hindi	3.00	<a href="#">View Doc.</a>
Marathi	3.00	<a href="#">View Doc.</a>

PSO	Level	Attainment Analysis
Geography	3.00	<a href="#">View Doc.</a>
Chemistry	2.71	<a href="#">View Doc.</a>
Comp. Sci.	3.00	<a href="#">View Doc.</a>
Physics	3.00	<a href="#">View Doc.</a>

PSO (B. Voc- Diploma)	Level	Attainment Analysis
Diploma in Yoga	3.00	<a href="#">View Doc.</a>
Diploma in Sustainable Agriculture	2.93	<a href="#">View Doc.</a>
Diploma in Medical Laboratory Technology	3.00	<a href="#">View Doc.</a>
Diploma in Sericulture	3.00	<a href="#">View Doc.</a>
Diploma in English for Practical Purposes	3.00	<a href="#">View Doc.</a>

UG	PG	Diploma
2.85	2.75	2.98



  
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