

Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)



2.6.2 Evaluation of Attainment of COs, POs and
PSOs by the institution

**Mapping of attainment of COs and POs as
per Blooms' Taxonomy**

Academic Year : 2022-2023

2.6.2 : Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution
Attainment levels for COs:

For University Examinations	
Level 1	Below 45 % of students scoring more than average marks
Level 2	45-60% of students scoring more than average marks
Level 3	Above 60% of students scoring more than average marks

For Internal Examinations	
Level 1	Below 60 % of students scoring more than average marks
Level 2	60-80% of students scoring more than average marks
Level 3	Above 80% of students scoring more than average marks

Attainment levels for POs

PO Level	Target Attainment
Level 1	0.5 - 1.0
Level 2	1.0 - 1.5
Level 3	1.5 - 2.0
Level 4	2.0 - 2.5
Level 5	2.5 - 3.0

MAPPING OF COs and POs

Rubrics developed to validate POs for some courses

Assessment Tools:

Program	Courses Considered	Method of Assessment	Source File
Defined POs	For each PO, Contributing course, the attainment is obtained by mapping of POs with the corresponding COs	Direct Assessment 1) Internal evaluation <ul style="list-style-type: none">• Unit Tests• Assignments• Seminars• Presentation 2) External Evaluation <ul style="list-style-type: none">• Semester End Exam	Result Analysis

Correlation Level 1 : Slight (Low)

Correlation Level 1 : Moderate (Medium)

Correlation Level 1 : Substantial (High)

Mapping Factor (Correlation Level):

It determines the extent of mapping of COs with POs in at three levels:

Level 3 : Substantial / high mapping (high contribution towards the attainment)

Level 2 : Moderate / medium mapping (medium contribution towards the attainment)

Level 1 : Slight (low) mapping (little contribution towards the attainment)

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. English (Sem VI)	Twentieth Century English Literature –XIII	50	2	1.6	100	3	0.6	2.2
	Introduction to Literary Criticism and Terms –XIV	70	3	2.4	78	2	0.4	2.8
	American Literature OR Indian Writing in English –XV	100	3	2.4	90	3	0.6	3
	Project Work on History English Literature – XVI	100	3	2.4	90	3	0.6	3
M.A. S.Y. English (Sem IV)	Critical Theory	35.25	1	0.8	77	2	0.4	1.2
	Indian Writing in English	80.75	3	2.4	100	3	0.6	3
	English Language Teaching	55.4	2	1.6	85	3	0.6	2.2
	American Literature -D	52.8	2	1.6	79	2	0.4	2
Total =								19.4
Average =								2.4

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)
Department of Geography**

Calculation of Programme Outcomes Attainment for the Academic Year 2022-2023

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Geography (Sem VI)	Agricultural Geography of India - XII	94.44	3	2.4	92	3	0.6	3
	Geography of Natural Calamity -	94.44	3	2.4	96	3	0.6	3
	Practical - I	88.89	3	2.4	98	3	0.6	3
	Bio-Geography - XIV	90	3	2.4	94	3	0.6	3
	Practical - II	85	3	2.4	99	3	0.6	3
	Project Work -	85	3	2.4	91	3	0.6	3
M.A. S.Y. Geography (Sem IV)	Geography of Thoughts	100	3	2.4	90	3	0.6	3
	Urban Geography	92.31	3	2.4	92	3	0.6	3
	Rural Geography	100	3	2.4	94	3	0.6	3
	Practical - IV	100	3	2.4	96	3	0.6	3
Total =								30
Average =								3

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Department of History

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. History (Sem VI)	Fields of History	50	2	1.6	92	3	0.6	2.2
	Landmarks in the History of	74	3	2.4	90	3	0.6	3
	Nationalist Movements in South-	60	2	1.6	78	2	0.4	2
	Project Work	60	2	1.6	77	2	0.4	2
M.A. History (Sem IV)	Society and Culture in Medieval	65	3	2.4	92	3	0.6	3
	History of India (1901-1947)	75	3	2.4	88	3	0.6	3
	History of India (Circa 500 A.D.	58	2	1.6	90	3	0.6	2.2
	India After Independence (1947-	59	2	1.6	78	2	0.4	2
Total =								19.4
Average =								2.425

Ankushrao Tope College, Jalna (MS)

Department of Political Science

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. Political Science (Sem VI)	Indian Political Thinker	90.32	3	2.4	96	3	0.6	3
	Western Political Thinker	85.32	3	2.4	92	3	0.6	3
	Political Ideologies	50.32	2	1.6	90	3	0.6	2.2
	Project Works	100	3	2.4	94	3	0.6	3
M.A. Political Science (Sem IV)	Constitutional Process in India	80	3	2.4	90	3	0.6	3
	Political Analysis	41.5	1	0.8	88	3	0.6	1.4
	South Asia and the World	72	3	2.4	90	3	0.6	3
	Dr.B.R.Ambedkar on Caste:A Study	80	3	2.4	96	3	0.6	3
Total =								21.6
Average =								2.7

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Economics (Sem VI)	Research Methodology OR Regional Economics	40	1	0.8	92	3	0.6	1.4
	Industrial Economics OR Foreign Trade and International Institutions	63.33	3	2.4	94	3	0.6	3
	Indian Economic Thinker OR Economic Thought of Dr.B.R.Ambedkar and Mahatma Phule OR Econometrics OR Economy of Maharashtra	71.43	3	2.4	96	3	0.6	3
	Project Works	85.71	3	2.4	96	3	0.6	3
M.A. S.Y. Economics (Sem IV)	Indian Economic Policy	80	3	2.4	89	3	0.6	3
	Indian Public Finance	52.75	2	1.6	92	3	0.6	2.2
	Financial Markets	65.25	3	2.4	78	2	0.4	2.8
	Development Economics	40.5	1	0.8	93	3	0.6	1.4
Total =								19.8
Average =								2.48

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Marathi

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Marathi (Sem VI)	Pashchatya sahitya vichar	40	1	0.8	90	3	0.6	1.4
	Vyakran v nibandh lekhan	53.33	2	1.6	88	3	0.6	2.2
	Madhyyugin Marathi vangmayacha itihās(1601 to 1818)	50	2	1.6	94	3	0.6	2.2
	Prakalp karya	75	3	2.4	92	3	0.6	3
M.A. S.Y. Marathi (Sem IV)	History of Marathi Language & Sociolinguistic Study	28	1	0.8	90	3	0.6	1.4
	Streams in Moder Marathi Literature : (Rural & Feminists Literature)	55	2	1.6	88	3	0.6	2.2
	Folk-Lore: Nature, Types & Characterstics	58	2	1.6	87	3	0.6	2.2
	Modern Literature of Marathawada	52	2	1.6	85	3	0.6	2.2
Total =								16.8
Average =								2.1

Ankushrao Tope College, Jalna (MS)

Department of Hindi

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Hindi (Sem VI)	Bhaktikalin Kavy - XIII	81.81	3	2.4	88	3	0.6	3
	Aadhunik hindi sahitya ka itihās - XIV	36.36	1	0.8	90	3	0.6	1.4
	Sahityshastr-XV	60	2	1.6	89	3	0.6	2.2
	Prakalp karya-XVI	100	3	2.4	90	3	0.6	3
M.A. S.Y. Hindi (Sem IV)	Bhartiy Sahity : Uttarvrg	40.45	1	0.8	88	3	0.6	1.4
	Hindi Bhasha Ka Itihās	80	3	2.4	95	3	0.6	3
	Swatrntryuttor Hindi Kavita	65.75	3	2.4	96	3	0.6	3
	Madhymlekhan	82.25	3	2.4	92	3	0.6	3
Total =								20
Average =								2.5

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)
Department of Urdu**

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Urdu (Sem VI)	Khaka Aur Swaneh –XIII	66	3	2.4	92	3	0.6	3
	Safar Nama Aur Reportage - XIV	66	3	2.4	82	3	0.6	3
	Jadeed Zarai Iblagh Aur Tarjuma Nigari -XV	50	2	1.6	88	3	0.6	2.2
	Project Work	75	3	2.4	94	3	0.6	3
Total =								11.2
Average =								2.8

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)
Department of Sociology**

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B. A. T.Y. Sociology (Sem VI)	Sociological Theories	81.39	3	2.4	92	3	0.6	3
	Social Research Methods	58.13	2	1.6	89	3	0.6	2.2
	Social Disorganization in Contemporary India	68.75	3	2.4	88	3	0.6	3
	Project	100	3	2.4	96	3	0.6	3
M.A. S.Y. Sociology (Sem IV)	Classical ISociological Tradition: Weber, Pareto, Cooley and Mead	56	2	1.6	92	3	0.6	2.2
	Development-An Indian Experience	70.25	3	2.4	88	3	0.6	3
	Social Demography - II	80	3	2.4	94	3	0.6	3
	Criminology - II	68	3	2.4	93	3	0.6	3
Total =								22.4
Average =								2.8

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
BCA Science T.Y. (Sem VI)	Software Testing and Quality Assurance	92	3	2.4	100	3	0.6	3
	Computer Graphics - II	88	3	2.4	100	3	0.6	3
	Java Server Pages (JSP)	96	3	2.4	100	3	0.6	3
	Data Mining	50	2	1.6	100	3	0.6	2.2
	Cloud Computing	80	3	2.4	100	3	0.6	3
	Advanced Programming with PHP	88	3	2.4	100	3	0.6	3
	Pr.Based on JSP, PHP/ASP.Net	90	3	2.4	100	3	0.6	3
	Pr.Based on Comp. Graphics, Core Java - II	93	3	2.4	100	3	0.6	3
	Pr.Based on Ethical Hacking/DCN,PHP/ASP.NET	94	3	2.4	100	3	0.6	3
	Major Project	96	3	2.4	100	3	0.6	3
Total =								29.2
Average =								2.92

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Botany

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Botany (Sem VI)	GENETICS AND BIOTECHNOLOGY - XIX	45	2	1.6	90	3	0.6	2.2
	MICROBIOLOGY AND DISEASE MANAGEMENT - XX	75.55	3	2.4	88	3	0.6	3
	PRACTICAL - XVII	100	3	2.4	92	3	0.6	3
	PRACTICAL - XVIII	100	3	2.4	94	3	0.6	3
Total =								11.2
Average =								2.8

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Chemistry

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Chemistry (Sem VI)	INORGANIC CHEMISTRY-XVI	65.57	3	2.4	93	3	0.6	3
	ORGANIC CHEMISTRY -XVII	50.81	2	1.6	94	3	0.6	2.2
	Chemistry-Pr-XV	100	3	2.4	90	3	0.6	3
	Chemistry-Pr-XVIII	100	3	2.4	92	3	0.6	3
Total =								11.2
Average =								2.8

Matsyodari Shikshan Sanstha's

Ankushrao Tope College, Jalna (MS)

Department of Microbiology

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Microbiology (Sem VI)	Recombinant DNA Technology	37	1	0.8	100	3	0.6	1.4
	Industrial Microbiology	37	1	0.8	100	3	0.6	1.4
	Practical	100	3	2.4	90	3	0.6	3
	Practical	100	3	2.4	96	3	0.6	3
Total =								8.8
Average =								2.2

Department of Physics

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Physics (Sem VI)	ATOMIC AND MOLECULAR PHYSICS AND LASER	41	2	1.6	91	3	0.6	2.2
	NON CONVENTIONAL ENERGY SOURCE AND OPTICAL FIBER	41	2	1.6	93	3	0.6	2.2
	PRACTCAL	100	3	2.4	96	3	0.6	3
	PRACTICAL	100	3	2.4	92	3	0.6	3
Total =								10.4
Average =								2.6

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Mathematics (Sem VI)	REAL ANALYSIS – II	0	0	0	0	0	0	0
	ABSTRACT ALJEBRA – II	30.76	1	0.8	94	3	0.6	1.4
	ORDINARY DIFFERENTIAL EQUATION - II	15.38	1	0.8	96	3	0.6	1.4
Total =								2.8
Average =								0.933333

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Zoology

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Zoology (Sem VI)	EVOLUTION	85	3	2.4	90	3	0.6	3
	FISHERY SCIENCE-II	60	2	1.6	88	3	0.6	2.2
	PRACTICAL	100	3	2.4	96	3	0.6	3
	PRACTICAL	100	3	2.4	92	3	0.6	3
Total =								11.2
Average =								2.8

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Sc Computer Science	Data Communication and Networking	80	3	2.4	88	3	0.6	3
	Ethics and Cyber Law	45	2	1.6	92	3	0.6	2.2
	E-Commerce	100	3	2.4	90	3	0.6	3
	Project	100	3	2.4	76	2	0.4	2.8
Total =								11
Average =								2.8

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)
Department of M.Sc. Computer Science**

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
M.Sc. S.Y. Computer Science (Sem IV)	Pattern Recognition	80	3	2.4	90	3	0.6	3
	Practical Based on CSC-505	100	3	2.4	88	3	0.6	3
	Major Project	100	3	2.4	98	3	0.6	3
	Seminar	100	3	2.4	95	3	0.6	3
	Data Mining	45	1	0.8	77	2	0.4	1.2
	Practical Based on CSC-435	100	3	2.4	85	3	0.6	3
Total =								16.2
Average =								2.7

**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Commerce

Calculation of Programme Outcomes Attainment for the Academic Year 2022-23

Class & Sem	Name of the paper/course	% of students scoring more than 60% marks in university exams	Level of Attainment	80% of Attainment level in end term exam (I)	% of students above 60% internal marks	Level of Attainment	20% of Attainment level in internal exams (II)	Attainment of Course (I+II)
B.Com T.Y. (Sem VI)	Advanced Financial Accounting - II	77.97	3	2.4	88	3	0.6	3
	Management Accounting - II	55.93	2	1.6	92	3	0.6	2.2
	Direct Taxes	32.2	1	0.8	78	2	0.4	1.2
	Business Regulatory Framework - II	35.59	1	0.8	89	3	0.6	1.4
	Computerized Accounting - II	89.83	3	2.4	96	3	0.6	3
	Advertising Salesmanship	50.85	2	1.6	95	3	0.6	2.2
M.Com S.Y. (Sem IV)	Quantitative Techniques	16	1	0.8	95	3	0.6	1.4
	Securities Analysis	3.92	1	0.8	92	3	0.6	1.4
	Research Project	100	3	2.4	78	2	0.4	2.8
	Advertising	23.53	1	0.8	90	3	0.6	1.4
Total =								20
Average =								2

Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)

Target Attainment levels of all Departments and their Programmes

Sr. No	Department / Programme	Average attainment of Course by Direct Method	Average attainment by Indirect Method	80% of Average Attainment of Course by Direct Method (I)	20% of Average Attainment by Indirect Method (II)	Average Attainment of PO (I+II)	Target level of Attainment
1	English	2.4	3	1.92	0.6	2.52	5
2	Marathi	2.1	3	1.68	0.6	2.28	4
3	Hindi	2.6	3	2.08	0.6	2.68	5
4	Urdu	2.8	3	2.24	0.6	2.84	5
5	Geography	3	3	2.40	0.6	3.00	5
6	Psychology	2.68	3	2.14	0.6	2.74	5
7	Histoy	2.4	3	1.92	0.6	2.52	5
8	Political Science	2.7	3	2.16	0.6	2.76	5
9	Economics	2.48	3	1.98	0.6	2.58	5
10	Sociology	2.8	3	2.24	0.6	2.84	5
11	Public Administration	3	3	2.40	0.6	3.00	5
12	Commerce	2	3	1.60	0.6	2.20	4

13	Botany	2.8	3	2.24	0.6	2.84	5
14	Chemistry	2.8	3	2.24	0.6	2.84	5
15	Microbiology	2.2	3	1.76	0.6	2.36	4
16	Physics	2.6	3	2.08	0.6	2.68	5
17	Mathematics	0.93	3	0.74	0.6	1.34	2
18	Zoology	3	3	2.40	0.6	3.00	5
19	Computer Science	2.8	3	2.24	0.6	2.84	5
20	BCA	2.92	3	2.34	0.6	2.94	5
21	M.Sc Computer Science	2.7	3	2.16	0.6	2.76	5