



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 : 2023-2024



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 • Unit Tests • Assignments • Seminars • Presentation 2) External Evaluation • 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)

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**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

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Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)
Target Attainment levels of all Departments and their Programmes (Academic Year 2023-24)

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	2.2	3	1.76	0.6	2.36	4
2	Marathi	2.4	3	1.92	0.6	2.52	5
3	Hindi	2.3	3	1.84	0.6	2.44	4
4	Urdu	2.6	3	2.08	0.6	2.68	5
5	Geography	2.68	3	2.14	0.6	2.74	5
6	Psychology	2.78	3	2.22	0.6	2.82	5
7	Histoy	2.64	3	2.11	0.6	2.71	5
8	Political Science	2.9	3	2.32	0.6	2.92	5
9	Economics	2.73	3	2.18	0.6	2.78	5
10	Sociology	2.7	3	2.16	0.6	2.76	5
11	Public Administration	2.8	3	2.24	0.6	2.84	5
12	Commerce	2.68	3	2.14	0.6	2.74	5
13	Botany	2.8	3	2.24	0.6	2.84	5

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Target Attainment levels of all Departments and their Programmes (Academic Year 2023-24)

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
14	Chemistry	2.8	3	2.24	0.6	2.84	5
15	Microbiology	2.8	3	2.24	0.6	2.84	5
16	Physics	2.6	3	2.08	0.6	2.68	5
17	Mathematics	2.47	3	1.98	0.6	2.58	5
18	Zoology	2.8	3	2.24	0.6	2.84	5
19	Computer Science	3	3	2.40	0.6	3.00	5
20	BCA	2.6	3	2.08	0.6	2.68	5
21	M.Sc Computer Science	3	3	2.40	0.6	3.00	5

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**Matsyodari Shikshan Sanstha's
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Department of English**

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	55	2	1.6	90	3	0.6	2.2
	Introduction to Literary Criticism and Terms –XIV	45	1	0.8	82	3	0.6	1.4
	American Literature OR Indian Writing in English –XV	50	2	1.6	92	3	0.6	2.2
	Project Work on History English Literature – XVI	100	3	2.4	94	3	0.6	3
	Critical Theory	60	2	1.6	92	3	0.6	2.2
M.A. S.Y. English (Sem IV)	Indian Writing in English	30	1	0.8	95	3	0.6	1.4
	English Language Teaching	50	2	1.6	82	3	0.6	2.2
	American Literature -D	100	3	2.4	88	3	0.6	3
Total =							17.6	
Average =							2.2	

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Matsyodari Shikshan Sanstha's
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Department of Marathi

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	50	2	1.6	84	3	0.6	2.2
	Vyakran v nibandh lekhan	75	3	2.4	90	3	0.6	3
	Adhunik Marathi vangmayacha itihas(1818 to 1920)	100	3	2.4	92	3	0.6	3
	Prakalp karya	100	3	2.4	88	3	0.6	3
	History of Marathi Language & Sociolinguistic Study	43	1	0.8	82	3	0.6	1.4
M.A. S.Y. Marathi (Sem IV)	Streams in Moder Marathi Literature : (Rural & Feminists Literature)	57	2	1.6	90	3	0.6	2.2
	Folk-Lore: Nature, Types & Characteristics	57	2	1.6	84	3	0.6	2.2
	Modern Literature of Marathawada	57	2	1.6	92	3	0.6	2.2
Total =								19.2
Average =								2.4

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Department of Hindi

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	42	1	0.8	90	3	0.6	1.4
	Aadhunik hindi sahitya ka itihās - XIV	57	2	1.6	94	3	0.6	2.2
	Sahityshastr-XV	50	2	1.6	88	3	0.6	2.2
	Prakalp karya-XVI	50	2	1.6	92	3	0.6	2.2
	Bhartiy Sahity : Uttarvrg	50	2	1.6	84	3	0.6	2.2
M.A. S.Y. Hindi (Sem IV)	Hindi Bhasha Ka Itihās	75	3	2.4	90	3	0.6	3
	Swatmtryutor Hindi Kavita	50	2	1.6	94	3	0.6	2.2
	Madhymlekhān	75	3	2.4	85	3	0.6	3
Total =								18.4
Average =								2.3

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Department of Urdu**

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	50	2	1.6	92	3	0.6	2.2
	Safar Nama Aur Reportage - XIV	67	3	2.4	88	3	0.6	3
	Jadeed Zarai Iblagh Aur Tarjuma Nigari -XV	50	2	1.6	94	3	0.6	2.2
	Project Work	67	3	2.4	90	3	0.6	3
Total =								10.4
Average =								2.6

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Department of Geography

Calculation of Programme Outcomes Attainment for the Academic Year 2023-2024

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	71	3	2.4	94	3	0.6	3
	Geography of Natural Calamity - Practical - I	61	3	2.4	92	3	0.6	3
	Bio-Geography - XIV	77	3	2.4	90	3	0.6	3
	Practical - II	59	2	1.6	96	3	0.6	2.2
	Project Work -	71	3	2.4	86	3	0.6	3
	Geography of Thoughts	88	3	2.4	92	3	0.6	3
M.A. S.Y. Geography (Sem IV)	Urban Geography	50	2	1.6	94	3	0.6	2.2
	Rural Geography	71	3	2.4	96	3	0.6	3
	Practical - IV	14	1	0.8	92	3	0.6	1.4
Total =							0.6	26.8
Average =							0.6	2.68

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Department of Psychology

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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. Psychology (Sem VI)	Psychoopathology	62	3	2.4	88	3	0.6	3
	Organizational Behavior	50	2	1.6	92	3	0.6	2.2
	Testing / Practicum	50	2	1.6	90	3	0.6	2.2
	Counseling in Action	62	3	2.4	92	3	0.6	3
	Project	62	3	2.4	94	3	0.6	3
	Research Project	54	2	1.6	86	3	0.6	2.2
M.A. S.Y. Psychology (Sem IV)	Psychodiagnostic	61	3	2.4	90	3	0.6	3
	Psychotherapy	70	3	2.4	92	3	0.6	3
	Practicum Psychological Testing	65	3	2.4	89	3	0.6	3
	Counseling Skill	83	3	2.4	90	3	0.6	3
	Dissertation - II	61	3	2.4	96	3	0.6	3
Total =								30.6
Average =								2.78

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Department of History**

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	40	1	0.8	90	3	0.6	1.4
	Landmarks in the History of	53	2	1.6	92	3	0.6	2.2
	Nationalist Movements in South-	83	3	2.4	88	3	0.6	3
	Project Work	50	2	1.6	84	3	0.6	2.2
M.A. History (Sem IV)	Society and Culture in Medieval	82	3	2.4	94	3	0.6	3
	History of India (1901-1947)	88	3	2.4	90	3	0.6	3
	History of India (Circa 500 A.D.	88	3	2.4	92	3	0.6	3
	India After Independence (1947-	65	3	2.4	89	3	0.6	3
		71	3	2.4	82	3	0.6	3
Total =							23.8	
Average =							2.64	

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**Matsyodari Shikshan Sanstha's
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Department of Political Science**

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	71	3	2.4	92	3	0.6	3
	Western Political Thinker	74	3	2.4	90	3	0.6	3
	Political Ideologies	69	3	2.4	88	3	0.6	3
	Project Works	77	3	2.4	94	3	0.6	3
M.A. Political Science (Sem IV)	Constitutional Process in India	88	3	2.4	82	3	0.6	3
	Political Analysis	67	3	2.4	96	3	0.6	3
	South Asia and the World	54	2	1.6	92	3	0.6	2.2
	Dr.B.R.Ambedkar on Caste:A Study	79	3	2.4	87	3	0.6	3
Total =								23.2
Average =								2.9

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**Matsyodari Shikshan Sanstha's
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Department of Economics

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	80	3	2.4	89	3	0.6	3
	Industrial Economics OR Foreign Trade and International Institutions	76	3	2.4	92	3	0.6	3
	Indian Economic Thinker OR Economic Thought of Dr.B.R.Ambedkar and Mahatma Phule OR Econometrics OR Economy of Maharashtra	50	2	1.6	88	3	0.6	2.2
	Project Works	100	3	2.4	92	3	0.6	3
M. A. S.Y. Economics (Sem IV)	Indian Economic Policy	90	3	2.4	84	3	0.6	3
	Indian Public Finance	52	2	1.6	90	3	0.6	2.2
	Financial Markets	76	3	2.4	92	3	0.6	3
	Development Economics	52	2	1.6	94	3	0.6	2.2
	Project Works	100	3	2.4	96	3	0.6	3
Total =							24.6	24.6
Average =							2.73	2.73

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Matsyodari Shikshan Sanstha's
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Department of Sociology

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	78	3	2.4	92	3	0.6	3
	Social Research Methods	68	3	2.4	84	3	0.6	3
	Social Disorganization in Contemporary India	31	1	0.8	90	3	0.6	1.4
	Project	64	3	2.4	88	3	0.6	3
M.A. S.Y. Sociology (Sem IV)	Classical Sociological Tradition: Weber, Pareto, Cooley and Mead	56	2	1.6	94	3	0.6	2.2
	Development-An Indian Experience	72	3	2.4	96	3	0.6	3
	Social Demography - II	67	3	2.4	92	3	0.6	3
	Criminology - II	61	3	2.4	86	3	0.6	3
Total =								21.6
Average =								2.7

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Matsyodari Shikshan Sanstha's
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Department of Public Administration

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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. Public Administration (Sem VI)	Public Policy and Development	54	2	1.6	88	3	0.6	2.2
	Health administration in India	69	3	2.4	90	3	0.6	3
	Recent Trends in Public administration and Important Laws	100	3	2.4	94	3	0.6	3
	Project Work	100	3	2.4	98	3	0.6	3
M.A. S.Y. Public Administration (Sem IV)	Globalization and Public Administration: Indian Context	0	0	0	0	0	0	0
	Post Modern Public Administration	0	0	0	0	0	0	0
	Rural Development Administration in India (Elective)	0	0	0	0	0	0	0
	Management Science (Elective)	0	0	0	0	0	0	0
Total =							11.2	
Average =							2.8	

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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	63	3	2.4	92	3	0.6	3
	Management Accounting - II	49	2	1.6	90	3	0.6	2.2
	Direct Taxes	52	2	1.6	94	3	0.6	2.2
	Business Regulatory Framework - II	66	3	2.4	88	3	0.6	3
	Computerized Accounting - II	86	3	2.4	92	3	0.6	3
	Advertising Salesmanship	65	3	2.4	84	3	0.6	3
M.Com S.Y. (Sem IV)	Quantitative Techniques	44	1	0.8	90	3	0.6	1.4
	Securities Analysis	67	3	2.4	87	3	0.6	3
	Research Project	100	3	2.4	92	3	0.6	3
	Advertising	67	3	2.4	96	3	0.6	3
Total =							26.8	26.8
Average =							2.68	2.68

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Department of Botany

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	64	3	2.4	92	3	0.6	3
	MICROBIOLOGY AND DISEASE MANAGEMENT - XX	55	2	1.6	90	3	0.6	2.2
	PRACTICAL - XVII	92	3	2.4	88	3	0.6	3
	PRACTICAL - XVIII	92	3	2.4	96	3	0.6	3
Total =								11.2
Average =								2.8


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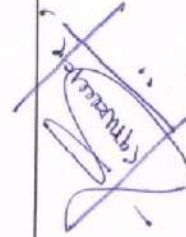


**Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna (MS)**

Department of Chemistry

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	75	3	2.4	90	3	0.6	3
	ORGANIC CHEMISTRY -XVII	49	2	1.6	92	3	0.6	2.2
	Chemistry-Pr-XV	92	3	2.4	88	3	0.6	3
	Chemistry-Pr-XVIII	86	3	2.4	94	3	0.6	3
Total =								11.2
Average =								2.8


Director IQAC

Matsyodari Shikshan Sanstha's
Ankushrao Tope College
Jalna (M.S.)


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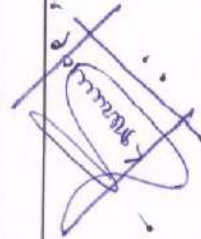
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Ankushrao Tope College, Jalna



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	61	3	2.4	96	3	0.6	3
	Industrial Microbiology	53	2	1.6	92	3	0.6	2.2
	Practical	96	3	2.4	94	3	0.6	3
	Practical	96	3	2.4	90	3	0.6	3
Total =								11.2
Average =								2.8



Director IQAC
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Ankushrao Tope College
Jalna (M.S.)



Principal
Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna.



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	50	2	1.6	94	3	0.6	2.2
	NON CONVENTIONAL ENERGY SOURCE AND OPTICAL FIBER	50	2	1.6	92	3	0.6	2.2
	PRACTICAL	100	3	2.4	90	3	0.6	3
	PRACTICAL	100	3	2.4	96	3	0.6	3
Total =								10.4
Average =								2.6

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Ankushrao Tope College
Jalna (M.S.)

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Ankushrao Tope College, Jalna.



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	67	3	2.4	92	3	0.6	3
	ABSTRACT ALGEBRA – II	17	1	0.8	90	3	0.6	1.4
	ORDINARY DIFFERENTIAL EQUATION - II	83	3	2.4	94	3	0.6	3
Total =								7.4
Average =								2.47

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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	67	3	2.4	88	3	0.6	3
	FISHERY SCIENCE-II	58	2	1.6	92	3	0.6	2.2
	PRACTICAL	67	3	2.4	90	3	0.6	3
	PRACTICAL	67	3	2.4	94	3	0.6	3
Total =								11.2
Average =								2.8

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Ankushrao Tope College
Jalna (M.S.)

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Ankushrao Tope College, Jalna.



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	90	3	0.6	3
	Ethics and Cyber Law	80	3	2.4	88	3	0.6	3
	E-Commerce	80	3	2.4	92	3	0.6	3
	Project	80	3	2.4	84	3	0.6	3
Total =								12
Average =								3.0

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Director IQAC
Matsyodari Shikshan Sanstha's
Ankushrao Tope College
Jalna (M.S.)

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Ankushrao Tope College, Jalna.



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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	62	3	2.4	92	3	0.6	3
	Computer Graphics - II	54	2	1.6	88	3	0.6	2.2
	Java Server Pages (JSP)	46	2	1.6	90	3	0.6	2.2
	Data Mining	46	2	1.6	94	3	0.6	2.2
	Cloud Computing	62	3	2.4	92	3	0.6	3
	Advanced Programming with PHP	31	1	0.8	96	3	0.6	1.4
	Pr.Based on JSP, PHP/ASP.Net	100	3	2.4	94	3	0.6	3
	Pr.Based on Comp. Graphics, Core Java - II	100	3	2.4	92	3	0.6	3
	Pr.Based on Ethical Hacking/DCN,PHP/ASP.NET	100	3	2.4	90	3	0.6	3
	Major Project	100	3	2.4	94	3	0.6	3
Total =								26
Average =								2.6

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**Director IQAC
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Ankushrao Tope College
Jalna (M.S.)**

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**-PRINCIPAL
Matsyodari Shikshan Sanstha's
Ankushrao Tope College, Jalna.**



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

Calculation of Programme Outcomes Attainment for the Academic Year 2023-24

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)	Dissertation Review 1	100	3	2.4	92	3	0.6	3
	Dissertation Review 2	100	3	2.4	90	3	0.6	3
	Dissertation Review 3	100	3	2.4	94	3	0.6	3
	Final Dissertation	100	3	2.4	96	3	0.6	3
	Seminar	100	3	2.4	86	3	0.6	3
Total =								15
Average =								3

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Director IQAC
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