

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

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Attainment levels:

For University Exam

Level 1	below 45 % Students scoring more than 60% marks
Level 2	45-60 % Students scoring more than 60% marks
Level 3	\geq 60% Students scoring more than 60% marks

For Internal Exam

Level 1	below 60 % Students scoring more than 60% marks
Level 2	60-80 % Students scoring more than 60% marks
Level 3	above 80% Students scoring more than 60% marks

Program outcome Level	Target Attainment (Exclusive Method)
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

Target Attainment Level of all the Departments

Name of	Average Attainment	Average attainment	80% of Average	20% of of Average	Average PO	Target Attainment
Department	of Course	by indirect method	attainment of Course (I)	attainment of indirect method (II)	Attainment (I+II)	Level
Physics	2.7	2	2.16	0.4	2.56	Level 5
Chemistry	2.6	1	2.08	0.2	2.28	Level 4
Botany	2.8	1	2.24	0.2	2.44	Level 4
Zoology	2.9	1	2.32	0.2	2.52	Level 5
Mathematics	3	1	2.4	0.2	2.6	Level 5
Computer Science	2.5	1	2	0.2	2.2	Level 4
Microbiology	2.3	1	1.84	0.2	2.04	Level 4
Marathi	2.76	1	2.20	0.2	2.40	Level 4
Hindi	2.2	1	1.76	0.2	1.96	Level 3
English	1.72	1	1.37	0.2	1.57	Level 3
Economics	2.04	1	1.63	0.2	1.83	Level 3
Geography	2.6	1	2.08	0.2	2.1	Level 4
Political Science	1.72	1	1.37	0.2	1.57	Level 3
Sociology	1.96	1	1.57	0.2	1.77	Level 3
History	2.68	1	2.14	0.2	2.34	Level 4

Semester V (Theory)Paper- XIMathematical & Classical mechanics38.4610.810030.6100Paper- XIClassical mechanics76.9232.410030.610030.6100				-	inment of cou				-)	
Semester V (Theory)IXStatistical physics38.46I0.810030.6Paper-X V (Theory)Quantum mechanics69.2332.410030.6Paper-XI XIIClassical mechanics76.9232.410030.6Paper-XIII V (Theory)Atomic, Molecular Spectra and Astronomy and Astrophysics53.8421.610030.6Paper-VI (Theory)Paper-XIII XIVNuclear and Particle Physics76.9232.410030.6Paper-XIII V (Theory)Paper-XIII XIVNuclear and Particle Physics76.9232.410030.6Paper-XIII V (Theory)Paper-XIII XIVElectrodynamics & Electromagnetic Waves38.46132.410030.6Paper-XIII V (Theory)Paper-XIII Electromagnetic Waves84.6132.410030.6		Code (Paper	Course Title	students above 60% Universit		Attainmen t Level in endterm	students above 60% internal		Attainmen tLevel in internal	Attainmen tof Course (I+II)
Semester V (Theory)Paper- XIQuantum mechanics69.2332.410030.6Paper- XIClassical mechanics76.9232.410030.6Paper- XIIAtomic, Molecular Spectra and Astronomy and Astrophysics53.8421.610030.6Paper- XIIPaper- Spectra and Astrophysics53.8421.610030.63Semester VI (Theory)Paper- XIVEnergy Studies and material Science76.9232.410030.6Paper- XVEnergy Studies and material Science10032.410030.6Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper- XVEnergy studies Solid84.6132.410030.6		-		38.46	1	0.8	100	3	0.6	1.4
Paper- XIClassical mechanics76.9232.410030.6Paper- XIIAtomic, Molecular Spectra and Astronomy and Astrophysics53.8421.610030.63Paper- XIIPaper- Semester VI (Theory)Paper- XIVNuclear and Particle Physics76.9232.410030.63Paper- XIVPaper- Material ScienceNuclear and Particle Physics76.9232.410030.63Paper- XIVElectrodynamics & Electromagnetic Waves30.632.410030.63Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.63		Paper-X	Quantum mechanics	69.23	3	2.4	100	3	0.6	3
XIISpectra and Astronomy and Astrophysics53.8421.610030.64Paper- XIIIPaper- PhysicsNuclear and Particle Physics76.9232.410030.6Paper- VI (Theory)Paper- XIVEnergy Studies and material Science10032.410030.6Paper- XIVEnergy Studies and material Science10032.410030.6Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper- XVEnergy studies Solid84.6132.410030.6	-	-	Classical mechanics	76.92	3	2.4	100	3	0.6	3
Semester VI (Theory)Nuclear and Particle Physics76.9232.410030.6Paper- XIVEnergy Studies and material Science10032.410030.6VI (Theory)Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper- AuronEnergy studies Solid84.6132.410030.6		-	Spectra and Astronomy	53.84	2	1.6	100	3	0.6	2.2
Semester VI (Theory)XIVmaterial Science10032.410030.6VI (Theory)Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper- Paper-Energy studies Solid84.6132.410030.6Paper- NoEnergy studies Solid84.6132.410030.6		-		76.92	3	2.4	100	3	0.6	3
(Theory)Paper- XVElectrodynamics & Electromagnetic Waves84.6132.410030.6Paper-Energy studies Solid84.6132.410030.6		-		100	3	2.4	100	3	0.6	3
		-	Electromagnetic	84.61	3	2.4	100	3	0.6	3
		-		84.61	3	2.4	100	3	0.6	3
										21.6 2.7

Department of Physics Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Physics)

		Calculation for Pro		inment of cou		2010-19 (D. 3	c. III chemist	ſy)	
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (1)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper- IX	Physical chemistry	42.55	1	0.8	100	3	0.6	1.4
	Paper-X	Inorganic chemistry	93.61	3	2.4	100	3	0.6	3
Semester V (Theory)	Paper- XI	Organic chemistry	57.44	2	1.6	100	3	0.6	2.2
	Paper- XII	Analytical chemistry	91.48	3	2.4	100	3	0.6	3
	Paper- XIII	Physical chemistry	80.85	3	2.4	100	3	0.6	3
	Paper- XIV	Inorganic chemistry	93.61	3	2.4	100	3	0.6	3
Semester	Paper- XV	Organic chemistry	51.06	2	1.6	100	3	0.6	2.2
VI (Theory)	Paper- XVI	Analytical chemistry	78.72	3	2.4	100	3	0.6	3
								Total Average	20.8 2.6

Department of Chemistry Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Chemistry)

			-	inment of cou				,	
Semester (Theory)	Course Code (Paper No.)	Course Title	% Of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% Of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper- IX	Biology of Non- vascular Plants & Paleobotany	53.84	2	1.6	81.62	3	0.6	2.2
Semester V (Theory)	Paper-X	Genetics & Analytical Techniques in Plant Science	61.53	3	2.4	89.74	3	0.6	3
	Paper- XI	Fundamentals of Plant Physiology & Ecology	84.61	3	2.4	89.74	3	0.6	3
	Paper- XII	Plant Biochemistry	61.53	3	2.4	100	3	0.6	3
	Paper- XIII	Biology of Vascular Plants	46.15	2	1.6	79.48	3	0.6	2.2
Semester	Paper- XIV	Microbiology & Plant Pathology	69.23	3	2.4	89.74	3	0.6	3
VI (Theory)	Paper- XV	Plant Breeding, Biostatistics, Ethnobotany & Horticulture	61.63	3	2.4	94.87	3	0.6	3
	Paper- XVI	Molecular Biology & Biotechnology	69.23	3	2.4	97.41	3	0.6	3
	· ·							Total	22.4
								Average	2.8

Department of Botany Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Botany)

		The calculation for	0	inment of cou		cui 2010 17 (D. 5C. 111 200	, ey j	
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in the internal exam (II)	Attainmen tof Course (I+II)
	Paper- IX	Functional anatomy of non-chordates	73.68	3	2.4	100	3	0.6	3
Semester V (Theory)	Paper-X	Biostatistics, Bioinformatics, and Medical Zoology	89.47	3	2.4	100	3	0.6	3
(11001))	Paper- XI	Molecular Biology, Biotechnology and Biotechniques	68.42	3	2.4	100	3	0.6	3
	Paper- XII	Endocrinology, Env. Biology and Toxicology	100	3	2.4	100	3	0.6	3
	Paper- XIII	Comparative anatomy of Vertebrates	84.21	3	2.4	89.47	3	0.6	3
Semester VI	Paper- XIV	Developmental Biology	63.15	3	2.4	89.47	3	0.6	3
(Theory)	Paper- XV	Physiology	57.89	2	1.6	100	3	0.6	2.2
	Paper- XVI	Applied Zoology	100	3	2.4	94.73	3	0.6	3
								Total Average	23.2 2.9

Department of Zoology The calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Zoology)

		Calculation for Prog		inment of cou		010-17 (D. 50.	mathema	ucsj	
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
Semester V	Paper- IX	Real Analysis	85	3	2.4	100	3	0.6	3
	Paper-X	Modern Algebra	90	3	2.4	100	3	0.6	3
(Theory)	Paper- XI	Partial Differential Equations	100	3	2.4	100	3	0.6	3
	Paper- XII	Numerical Methods I	100	3	2.4	100	3	0.6	3
	Paper- XIII	Metric Spaces	86	3	2.4	100	3	0.6	3
Semester	Paper- XIV	Linear Algebra	98	3	2.4	100	3	0.6	3
VI (Theory)	Paper- XV	Complex Analysis	95	3	2.4	100	3	0.6	3
	Paper- XVI	Numerical Methods II	100	3	2.4	100	3	0.6	3
			1			1	· · · · · · · · · · · · · · · · · · ·	Total	24.00
								Average	3

Department of Mathematics Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Mathematics)

		Calculation for Progra		Attainmen outc	t of course			.iencej	
Semeste r (Theory)	Cours eCode (Pape rNo.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper- IX	Computer Networking	52. 17	2	1.6	100	3	0.6	2.2
Semeste rV (Theory)	Paper- X	Visual Programming Using C#	91. 23	3	2.4	100	3	0.6	3
	Paper- XI	Linux Operating System	21. 73	1	0.8	100	3	0.6	1.4
	Paper- XII	PHP and MySQL	91. 30	3	2.4	100	3	0.6	3
C	Paper- XIII	Networking Technology and windows server 2008	43. 47	1	0.8	100	3	0.6	1.4
Semeste rVI (Theory	Paper- XIV	Java Programming	82. 60	3	2.4	100	3	0.6	3
)	Paper- XV	Advance Linux Application	60. 86	3	2.4	100	3	0.6	3
	Paper- XVI	E-Commerce	65. 21	3	2.4	100	3	0.6	3
								Total Average	20 2.5

Department of Computer Science Calculation for Program Outcome Attainment for the Year 2018-19(B. Sc. III Computer Science)

			-	inment of cou					
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper- IX	Virology	60	3	2.4	100	3	0.6	3
Semester V	Paper-X	Immunology	43	1	0.8	100	3	0.6	1.4
(Theory)	Paper- XI	Food &Industrial Microbiology	36	1	0.8	100	3	0.6	1.4
	Paper- XII	Agriculture Microbiology	26	1	0.8	100	3	0.6	1.4
	Paper- XIII	Microbial Genetics	70	3	2.4	100	3	0.6	3
Semester	Paper- XIV	Microbial biochemistry	53.33	2	1.6	100	3	0.6	2.2
VI (Theory)	Paper- XV	Environmental Microbiology	80	3	2.4	100	3	0.6	3
	Paper- XVI	Medical Microbiology	60	3	2.4	100	3	0.6	3
								Total	18.4
								Average	2.3

Department of Microbiology Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Microbiology)

			0	nment of cour			,		
Semeste r (Theory)	Course Code (PaperNo.)	Course Title	% of students above 60% University marks	Level of Attainment	80% of Attainment Level in end term exam (1)	% of students above 60% internal marks	Level of attainmen t	20% of Attainme t Level in internal exam (II)	Attainmen tof Course (I+II)
	Paper- VII	काव्यशास्त्र	40.00	1	0.8	100	3	0.6	1.4
	Paper VIII	भाषाविज्ञान आणि मराठी भाषा	50.00	2	1.6	100	3	0.6	2.2
Semeste rV	Paper-IX	मराठी वाड्मयाचा इतिहास	70.00	3	2.4	100	3	0.6	3
(Theory)	Paper- X	मराठी भाषा : उपयोजन आणि सर्जन	90	3	2.4	100	3	0.6	3
	Paper- XI	वाड्मय प्रवाहांचे अध्ययन	90	3	2.4	100	3	0.6	3
	Paper-XII	काव्यशास्त्र	70	3	2.4	100	3	0.6	3
	Paper-XIII	भाषाविज्ञान आणि मराठी भाषा	60	1	2.4	100	3	0.6	3
Semeste rVI (Theory	Paper-XIV	मराठी वाड्मयाचा इतिहास	60	2	2.4	100	3	0.6	3
)	Paper-XV	मराठी भाषा : उपयोजन आणि सर्जन	90	2	2.4	100	3	0.6	3
	Paper-XVI	वाड्मय प्रवाहांचे अध्ययन	100	3	2.4	100	3	0.6	3
								Total	27.6
								Average	2.76

Department of Marathi Calculation for Program Outcome Attainment for the Year 2018-19 (B. A. III Marathi)

			0	nment of cour	se outcome		,		
Semeste r (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% University marks	Level of Attainment	80% of Attainment Level in end term exam (I)	% of students above 60% internal marks	Level of attainmen t	20% of Attainme ntLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper- VII	विधा विशेष का आद्ययन	70.00	3	2.4	100	3	0.6	3
Semeste	Paper VIII	साहित्यशास्त	30.00	1	0.8	100	3	0.6	1.4
rV (Theory	Paper-IX	हिंदी साहित्य का इतिहास	30.00	1	0.8	100	3	0.6	1.4
)	Paper- X	प्रयोजनमूलक हिंदी	80	3	2.4	100	3	0.6	3
	Paper- XI	भाषा विद्यान ऑर हिंदी भाषा	60	3	2.4	100	3	0.6	3
	Paper-XII	विधा विशेष का आद्ययन	60	3	2.4	100	3	0.6	3
Semeste	Paper-XIII	साहित्यशास्त्र	40	1	0.8	100	3	0.6	1.4
rVI (Theory	Paper-XIV	हिंदी साहित्य का इतिहास	50	2	1.6	100	3	0.6	2.2
)	Paper-XV	प्रयोजनमूलक हिंदी	50	2	1.6	100	3	0.6	2,2
	Paper-XVI	भाषा विद्यान ऑर हिंदी भाषा	30	1	0.8	100	3	0.6	1.4
								Total	22
								Average	2.2

Department of Hindi Calculation for Program Outcome Attainment for the Year 2018-19 (B. A. III HINDI)

Department of English Calculation for Program Outcome Attainment for the Year 2016-17 (B. A. III English)

		Calculation for frog	2		irse outcome		0		
Semeste r (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% University marks	Level of Attainme nt	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainment Level in internal exam (II)	Attainment of Course (I+II)
	Paper- VII	Literary Criticism	11.76	1	0.8	100	3	0.6	1.4
Semester V	Paper- VIII	Understanding Poetry	41.17	1	0.8	100	3	0.6	1.4
(Theory	Paper-IX	Understanding Drama	35.29	1	0.8	100	3	0.6	1.4
)	Paper- X	Understanding Novel	58.82	2	1.6	100	3	0.6	2.2
	Paper-XI	Structure and Function of English Language	11.76	1	0.8	100	3	0.6	1.4
Semester	Paper-XII	Literary Criticism	11.76	1	0.8	100	3	0.6	1.4
VI (Theory	Paper- XIII	Understanding Poetry	58.82	2	1.6	100	3	0.6	2.2
)	Paper- XIV	Understanding Drama	47.05	2	1.6	100	3	0.6	2.2
	Paper-XV	Understanding Novel	47.05	2	1.6	100	3	0.6	2.2
	Paper- XVI	Structure and Function of English Language	11.76	1	0.8	100	3	0.6	1.4
								Total	17.2
								Average	1.72

Department of Economics Calculation for Program Outcome Attainment for the Year 2018-19 (B.A. III Economics)

			Att	ainment of co	urse outcome		1		
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% University marks	Level of Attainment	80% of Attainmen t Level in endterm exam (l)	% of students above 60% internal marks	Level of attainment	20% of Attainment Level in internal exam (II)	Attainment of Course (I+II)
	Paper-VII	Micro Economics	33.33	1	0.8	100	3	0.6	1.4
	Paper-VIII	Research Methodology in Economics (Part I)	55.55	2	1.6	100	3	0.6	2.2
Semester V	Paper-IX	History of Economic Thoughts (Part I)	38.88	1	0.8	100	3	0.6	1.4
(Theory)	Paper-X	Economics of Development	33.33	1	0.8	100	3	0.6	1.4
	Paper-XI	International Economics (Part I)	52.63	2	1.6	100	3	0.6	2.2
	Paper-XII	Market and Pricing	41.17	1	0.8	100	3	0.6	1.4
	Paper-XIII	Research Methodology in Economics (Part II)	94.11	3	2.4	100	3	0.6	3
Semester VI (Theory)	Paper-XIV	History of Economic Thoughts (Part II)	47.5	2	1.6	100	3	0.6	2.2
	Paper XV	Economics of Planning	58.82	2	1.6	100	3	0.6	2.2
	Paper-XVI	International Economics (Part II)	77.77	3	2.4	100	3	0.6	3
								Total	20.4
								Average	2.04

			-	inment of cou				• -	
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	VII	Physical Geography of India	21.42	1	0.8	90.90	3	0.6	1.4
Semester V	VIII	Economic Geography of World	50.00	2	1.6	79.80	3	0.6	2.2
(Theory)	IX	Research Methodology	64.28	3	2.4	100	3	0.6	3
	Х	Economic Geography of India	71.42	3	2.4	85	3	0.6	3
Semester	XI	Urban Geography	71.42	3	2.4	80.76	3	0.6	3
VI (Theory)	XII	Political Geography	78.57	3	2.4	95.83	3	0.6	3
								Total	15.6
								Average	2.6

Department of Geography Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Geography)

			Atta	inment of cou	rse outcome				
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% Universit ymarks	Level of Attainment	80% of Attainmen t Level in endterm exam (I)	% of students above 60% internal marks	Level of attainment	20% of Attainmen tLevel in internal exam (II)	Attainmen tof Course (I+II)
	Paper-VII	Political Theory	25	1	0.8	100	3	0.6	1.4
	Paper-VIII	Public Administration	12.50	1	0.8	100	3	0.6	1.4
Compation	Paper-IX	International Politics	50	2	1.6	100	3	0.6	2.2
Semester V	Paper-X	Comparative Politics	75	3	2.4	100	3	0.6	3
(Theory)	Paper-XI	Western Political Thought- I,	12.50	1	0.8	100	3	0.6	1.4
	Paper-XII	Modern Political Concept	25	1	0.8	100	3	0.6	1.4
	Paper-XIII	Political Movement In Maharashtra	37.50	1	0.8	100	3	0.6	1.4
	Paper-XIV	Foreign Policy of India	25	1	0.8	100	3	0.6	1.4
	Paper-XV	Comparative Government	50	2	1.6	100	3	0.6	2.2
SemesterVI (Theory)	Paper-XVI	Western Political Thought- II	18.75	1	0.8	100	3	0.6	1.4
								Total	17.2
								Average	1.72

Department of Political Science Calculation for Program Outcome Attainment for the Year 2018-19 (B. A. III)

Attainment of course outcome 80% of % of students 20% of Course % of students Level of Level of **Course Title** Attainment Code above 60% Attainment Attainment above 60% Attainment attainment of Course (PaperNo.) University Level in end internal marks Level in Semester (I+II) marks term exam internal (Theory) exam (II) **(I)** Paper-VII Western 33.33 1 0.8 76.92 3 0.6 1.4 Sociological Thinkers 3 Paper-VIII 36.36 1 0.8 84.61 0.6 1.4 Methods of Social Research [Part-I] **SemesterV** (Theory) Paper- IX 16.66 1 0.8 84.61 3 0.6 1.4 Political Sociology 83.33 3 92.30 3 Paper-X 2.4 0.6 3 Human Rights Paper-XI Sociology of 3 92.30 3 3 75.00 1.6 0.6 Religion Paper-XII 2 3 46.15 8.0 69.23 2.2 Indian Sociological 0.6 Thinkers Paper-XIII 33.33 1 1.6 100 3 0.6 1.4 Semester Methods of Social VI Research [Part-II] (Theory) **Paper-XIV** Social 2 3 58.33 1.6 100 0.6 2.2 anthropology 2.2 **Paper-XIV** 2 3 **Rural Sociology** 58.33 1.6 84.61 0.6 25.00 0.8 3 0.6 1.4 Paper-XV **Urban Sociology** 1 100 Total 19.6 1.96 Average

Department of Sociology

Calculation for Program Outcome Attainment for the Year 2018-19 (B. A.-III Sociology)

			At	tainment of co	ourse outcome				
Semester (Theory)	Course Code (Paper No.)	Course Title	% of students above 60% University marks	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 exam (II)	Attainment of Course (I+II)
	Paper-VII	History of Ancient India	69.23	3	2.4	100	3	0.6	3
Semester	Paper-VIII	Political History of medieval India	69.23	3	2.4	100	3	0.6	3
V (Theory)	Paper-IX	India Since Independence I	100%	3	2.4	100	3	0.6	3
	Paper-X	History of the Marathas	92.30	3	2.4	100	3	0.6	3
	Paper- XI	Introduction to Historyography	46.15	2	1.6	100	3	0.6	2.2
	Paper-XII	History of Ancient India	92.30	3	2.4	100	3	0.6	3
Semester VI	Paper-XIII	Socio-Economic and Cultural History of medieval India	86.61	3	2.4	100	3	0.6	3
(Theory)	Paper-XIV	India Since Independence II	86.61	3	2.4	100	3	0.6	3
	Paper-XV	Modern Maharashtra	31.46	1	0.8	100	3	0.6	1.9
	Paper-XVI	Application of History	53.84	2	1.6	100	3	0.6	2.2
								Total Average	26.8 2.68

Department of History Calculation for Program Outcome Attainment for the Year 2018-19

MAPPING

Rubrics developed to validate POs for some Programmes

Correlation level 1, 2 and 3 are defined as follows:1. Slight (Low)2. Moderate (Medium)3. Substantial (High)

Assessment Tools:

Courses considered	Method of	Source of data
	Assessment	collection
For each PO, the	1) Direct Assessment	Result file and
contributing course is	Internal evaluation	University
controuting course is	• Unit Tests	Ledger
obtained from CO	 Assignments 	
to PO manning	2) External Evaluation	
to r o mapping	University Exam	
	For each PO, the ontributing course is	For each PO, the ontributing course is obtained from CO to PO mapping1) Direct Assessment Internal evaluation • Unit Tests • Assignments 2) External Evaluation

Mapping Factor (Correlation Level):

It indicates to what extent ascertain component (either assessment method to CO or CO to PO or CO to PSO)

- 3: Indicates Substantial (high) mapping (high contribution towards attainment)
- 2: Indicates Moderate (medium) mapping (medium contribution towards attainment)
- 1: Indicates Slight (low) mapping (some contribution towards attainment)

Calculation for Program Outcome Attainment for the Year 2018-19 (B. Sc. III Physics)CO's

are mapped with CIE (Continuous internal evaluation) marks as follows

1] Physics: Sem. V & VI

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Paper IX: Mathematical & Statistical physics

Paper X: Quantum Mechanics

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Paper XI: Classical Mechanics

Paper XII: Atomic, Molecular Spectra & Astronomy and Astrophysics

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Paper XIII: Nuclear & Particle Physics

Paper XIV: Energy Studies & material Science

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Paper XV: Electrodynamics & Electromagnetic Waves

Paper XVI: Solid State Physics

Course outcomes	Test 1	HA 1	HA 2	Average
CO 1	3	3		3
CO 2	3	3		3
CO 3	3		3	3
CO 4	3		3	3
Total average	3	3	3	3

Step 2] COs are mapped with POs. The CO levels corresponding to each PO are averaged to obtain overall CO level for each PO as follows:

1]

Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1	3	3	3			3		3	3		3	3			3	
CO 2	3	3	3			3		3	3		3	3			3	
CO 3	3	3	3			3			3		3	3			3	
CO 4	3	3	3			3			3		3	3			3	
Paper IX	3	3	3	-	-	3	-	3	3	-	3	3	-	-	3	

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Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1	3	3	3			3			3			3				
CO 2	3	3	3			3			3			3				
CO 3	3	3	3			3			3			3				
CO 4	3	3	3			3			3			3				
Paper X	3	3	3	-	-	3	-	-	3	-		3	-	-		

							3]								
Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1	3	3	3	3		3			3			3				
CO 2	3	3	3	3		3			3			3				
CO 3	3	3	3	3		3			3			3				
CO 4	3	3	3	3		3			3			3				
Paper XI	3	3	3	3	-	3	-	-	3	-		3	-	-		

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Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1	3	3		3			3		3				3	3		3
CO 2	3	3		3		3	3		3				3	3		3
CO 3	3	3		3		3	3		3				3	3		3
CO 4	3	3		3			3		3				3	3		3
Paper XII	3	3	-	3	-	3	3	-	3	-			3	3		3

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Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1		3	3			3			3					3		
CO 2		3	3			3			3					3		
CO 3		3	3			3			3					3		
CO 4		3	3			3			3					3		
Paper XIII		3	3	-	-	3	-	-	3	-				3		

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Course	PO	РО	PO	PSO	PSO	PSO	PSO	PSO	PSO							
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1		3	3			3			3		3			3		
CO 2		3	3			3			3		3			3		
CO 3		3	3			3			3		3			3		
CO 4		3	3			3			3		3			3		
Paper XIV		3	3	-	-	3	-	-	3	-	3	-	-	3		

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Course	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO						
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1		3	3			3			3	3	3	3				
CO 2		3	3			3			3	3	3	3				
CO 3		3	3			3			3	3	3	3				
CO 4		3	3			3			3	3	3	3				
Paper XV		3	3	-	-	3	-	-	3	3	3	3	-			

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Course	PO	PSO	PSO	PSO	PSO	PSO	PSO									
Outcomes	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6
CO 1		3	3			3			3	3	3				3	
CO 2		3	3		3	3			3	3	3				3	
CO 3		3	3			3			3	3	3				3	
CO 4		3	3		3	3			3	3	3				3	
Paper XVI		3	3	-	3	3	-	-	3	3	3		-		3	

7]

The overall CO levels obtained for all courses from above step can be expressed in matrix form.

Courses	РО	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
	1															
Paper IX	3	3	3	-	-	3	-	3	3	-	3	3	-	-	3	
Paper X	3	3	3	-	-	3	-	-	3	-		3	-	-		
Paper XI	3	3	3	3	-	3	-	-	3	-		3	-	-		
Paper XII	3	3	-	3	-	3	3	-	3	-			3	3		3
Paper XIII	3	3	-	-	3	-	-	3	-				3			3
Paper XIV		3	3	-	-	3	-	-	3	-	3	-	-	3		
Paper XV		3	3	-	-	3	-	-	3	3	3	3	-			
Paper XVI		3	3	-	3	3	-	-	3	3	3		-		3	
Average	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3



Principal Shri. Vijaysinha Yadav College Peth Vadgaon, Dist. Kolhapur.