

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

New Arts, Commerce and Science College, Shevgaon



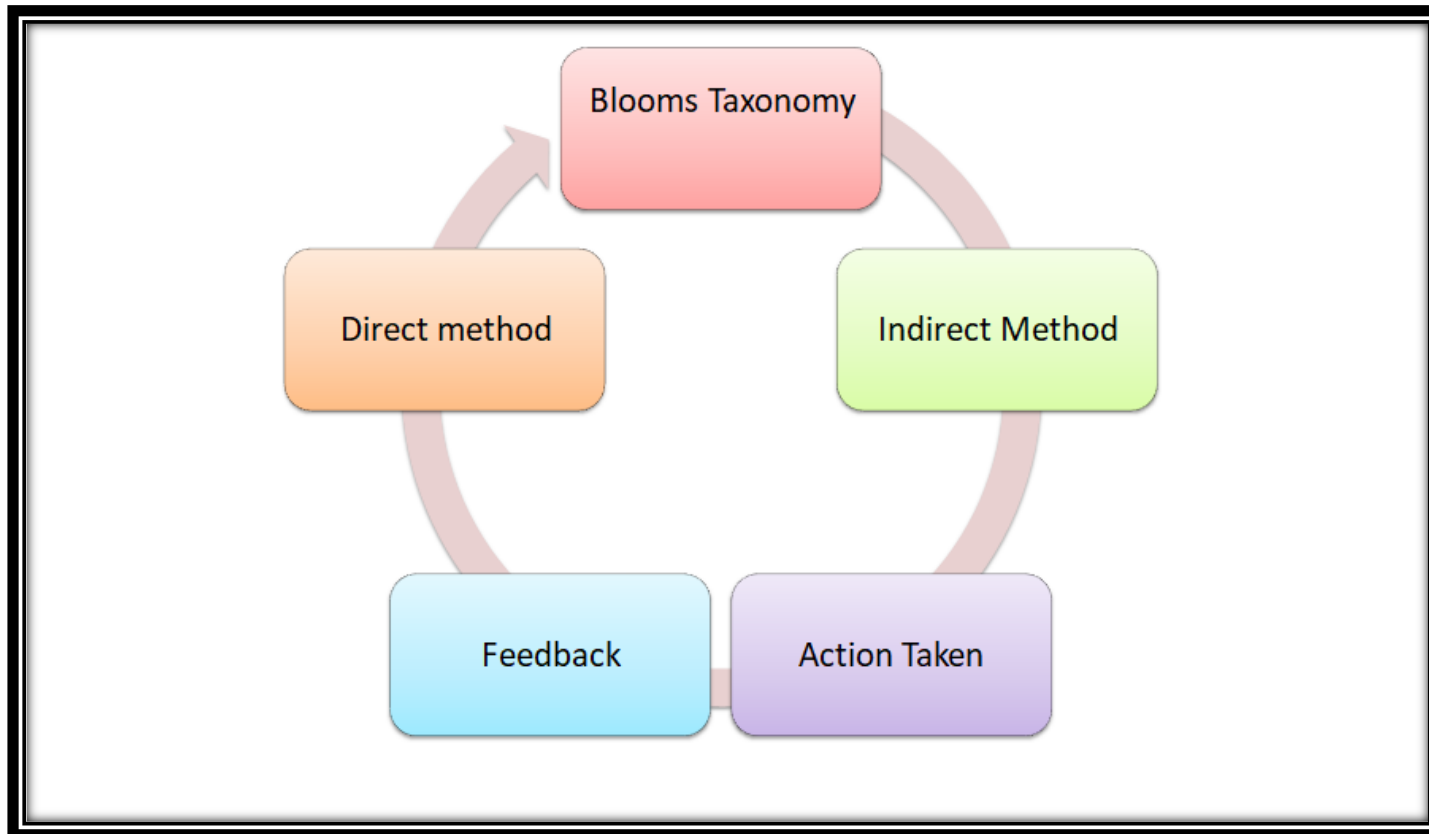
INTERNAL QUALITY ASSURANCE CELL

CRITERION II: Teaching, Learning & Evaluation

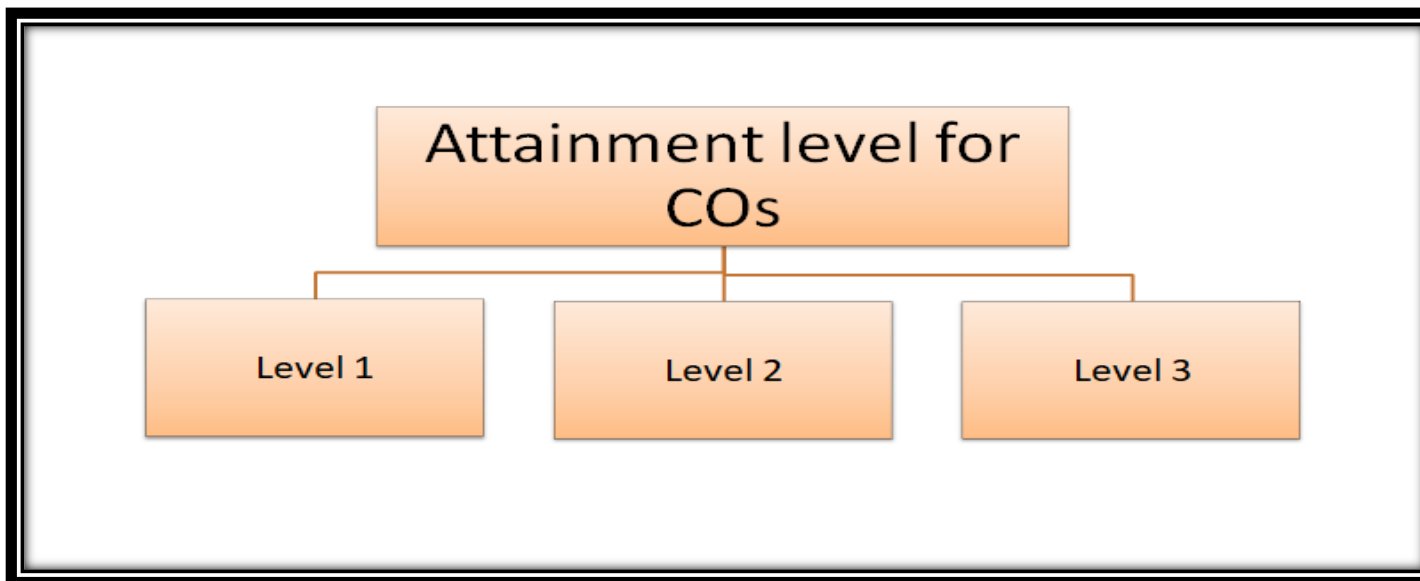


2.6.2 Mapping and Attainment by Direct Method
(Sample Copy)

Evaluation of Attainment of Course Outcomes, Programme Outcomes and Programme Specific Outcome as per Blooms Taxonomy



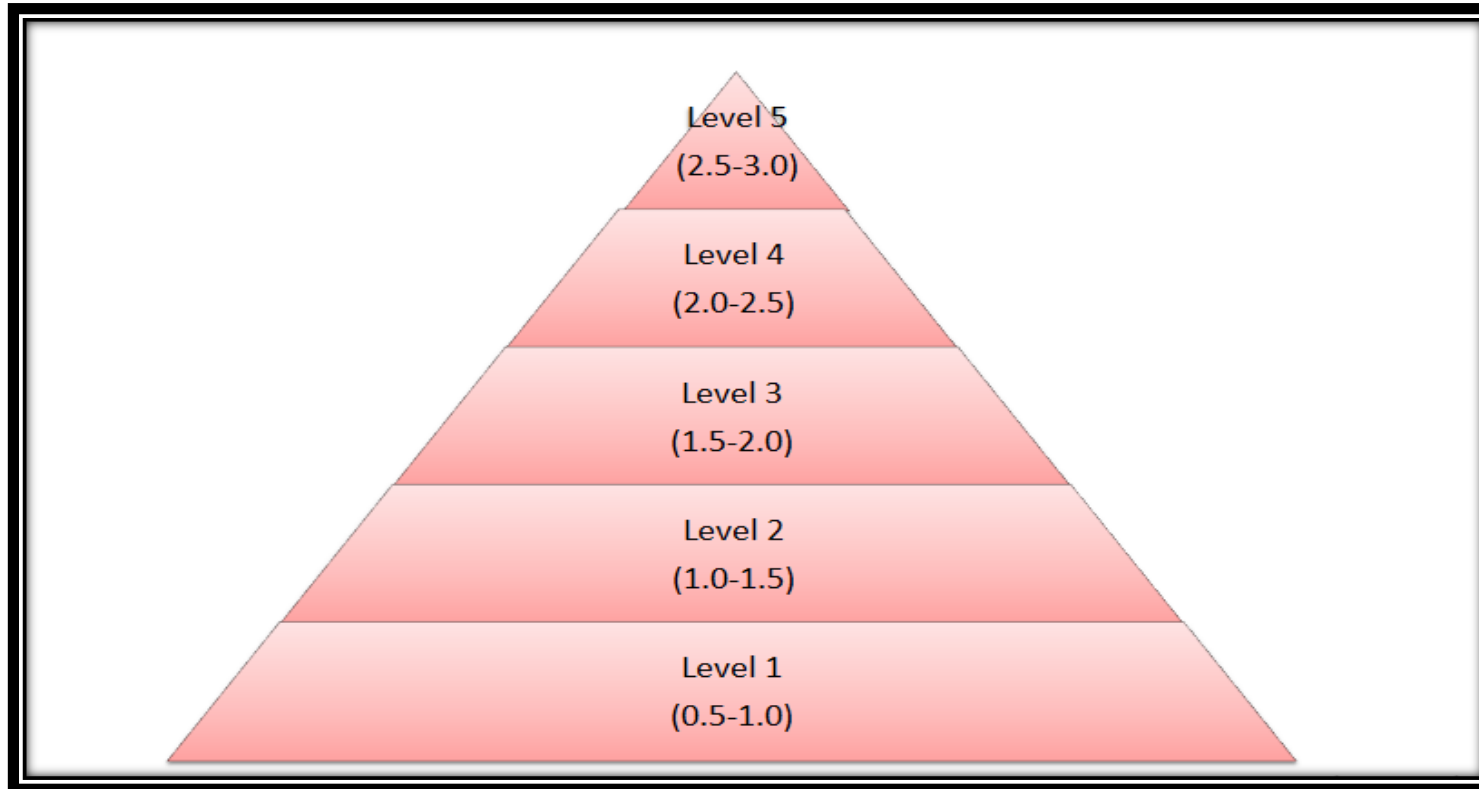
*** Criteria applied for Attainment of Programme Outcomes, Programme Specific Outcome and Course Outcomes evaluated by the Institution:**



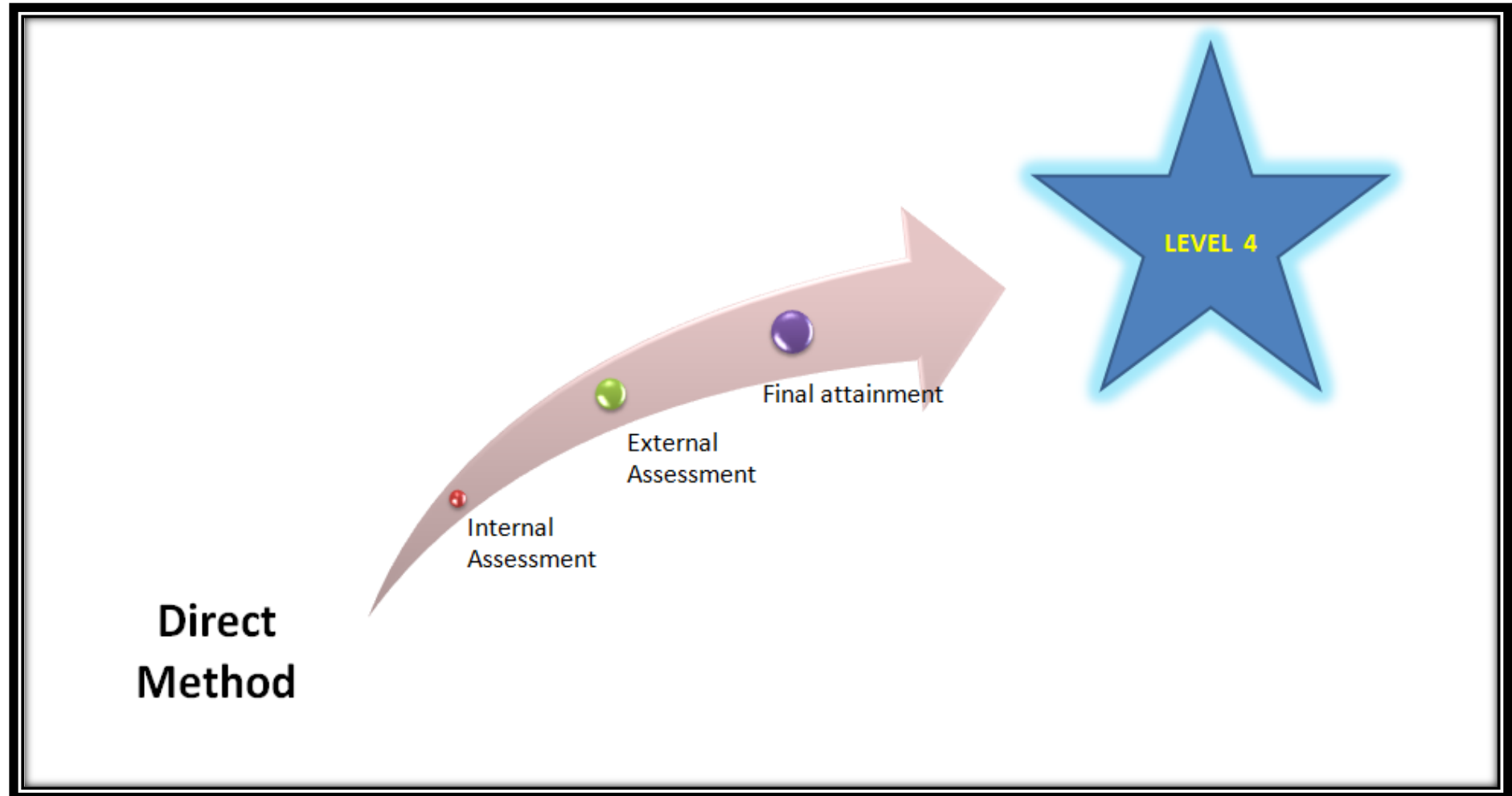
For EXTERNAL(University) Exam	
Level 1	Below 45 % of students scoring more than average (60%) marks
Level 2	45-60 % of students scoring more than average (60%) marks
Level 3	Above 60% of students scoring more than average (60%) marks

For INTERNAL Exam	
Level 1	Below 60 % of students scoring more than average(60%) marks
Level 2	60-80 % of students scoring more than average(60%) marks
Level 3	Above 80% of students scoring more than average(60%) marks

- **Criteria for Target Attainment Level of POs:**



Mapping and Attainment by Direct Method



Target Attainment Level of Programme Outcomes by Direct Method (2020-21)

Sr. No.	Stream	Programme/Department	Average Attainment per subject	Attainment target level per program	Common Average Attainment	Overall Target level achieved
1	Arts	Marathi	2.16	4	2.4046	4
2		Hindi	2.86	5		
3		English	2.42	4		
4		Economics	1.20	2		
5		Geography	2.20	4		
6		History	2.60	5		
7		Political Science	1.95	3		
8		B.C.A.	2.07	3		
9	Commerce	Commerce	2.45	4		
10	Science	Physics	2.90	5		
11		Chemistry	2.14	3		
12		Botany	2.92	5		
13		Zoology	2.59	5		
14		Mathematics	2.61	5		
15		B.Sc.(Computer Science)	3.00	5		

Department of Marathi

Programme : B.A./M.A. Marathi

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60% in external Exam	level of attainment	70% of attainment in end term exam	% of students scoring more than 60% in Internal Exam	level of attainment	30% of attainment in end term exam	attainment of course
T.Y.B.A.	Marathi G-3	29%	1	0.7	79%	2	0.6	1.3
	Marathi S-3	16.40%	1	0.7	100%	3	0.9	1.6
	Kavyashashtra S-4	28%	1	0.7	100%	3	0.9	1.6
M.A.	Marathi(40401)	37.50%	1	0.7	100%	3	0.9	1.6
	Marathi(40402)	67%	3	2.1	100%	3	0.9	3
	Marathi(40403)	89%	3	2.1	100%	3	0.9	3
	Marathi(40404)	100%	3	2.1	100%	3	0.9	3
Average = 2.157								

Department of Hindi

Programme : B.A./M.A. Hindi

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A.	Hindi Samanya G-	58.33%	2	1.4	85.71%	3	0.9	2.3
	Hindi Sahitya ka itihās S-3	66.66%	3	2.1	60%	2	0.6	2.7
	Kavyashashtra S-4	70%	3	2.1	100%	3	0.9	3
M.A. II	Adhunik Kavita	91.66%	3	2.1	100%	3	0.9	3
	Hindi Bhasha Ka Vikas	91.66%	3	2.1	100%	3	0.9	3
	Hindi Sahitya ka Itihas	91.66%	3	2.1	100%	3	0.9	3
	Bhartiy Loksahitya	100%	3	2.1	100%	3	0.9	3
Average = 2.857								

Department of English
Programme : B.A. English

- **Calculations of Programme Outcome Attainments for the Academic Year 2020-21:**

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A.	Compulsory English	72.72%	3	2.1	81.81%	3	0.9	3
	Optional English III	18.18%	1	0.7	100%	3	0.9	1.6
	Special English III	54.54%	2	1.4	81.81%	3	0.9	2.3
	Special English IV	90.90%	3	2.1	100%	3	0.9	3
	Functional English V	18.18%	1	0.7	90.90%	3	0.9	1.6
	Functional English VI	100%	3	2.1	100%	3	0.9	3
Average = 2.417								

Department of Economics

Programme : B.A. Economics

- **Calculations of Programme Outcomes Attainment for the Academic Year 2020-21:**

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A. Economics	G-3(Indian Economics and development planning)	21.42%	1	0.7	78.57%	2	0.6	1.3
	S-3 International Economics	31.00%	1	0.7	46%	1	0.3	1
	S-4(Public Finance)	31%	1	0.7	69%	2	0.6	1.3
Average = 1.2								

Department of Geography
Programme : B.A. Geography

- **Calculations of Programme Outcome Attainments for the Academic Year 2020-21:**

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A.	G-3 Geography of India	56.81%	2	1.4	77.27%	2	0.6	2
	S-3 Agricultural Geography	45.00%	1	0.7	85%	3	0.9	1.6
	S-4 Practical Geography	85%	3	2.1	not applicable	0	0	3
Average = 2.2								

Department of History

Programme : B.A./M.A. History

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A.	History S-3(3178)	70.58%	3	2.1	100%	3	0.9	3
	History S-4(3179)	64.70%	3	2.1	100%	3	0.9	3
M.A. II	History (42201)	69%	3	2.1	100%	3	0.9	3
	History (42202)	56.25%	2	1.4	72%	2	0.6	2
	History (42203)	44%	1	0.7	100%	3	0.9	1.6
	History (42207)	83%	3	2.1	100%	3	0.9	3
Average = 2.60								

Department of Political Science

Programme : B.A. Political Science

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.A	Public Administration	50.00%	2	1.4	100.00%	3	0.9	2.3
	International Relation	45.00%	1	0.7	95%	3	0.9	1.6
Average : 1.95								

Department of B.C.A.

Programme : B.C.A.

- **Calculations of Programme Outcome Attainments for the Academic Year 2020-21:**

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term Exam	attainment of course
T.Y.B.C.A.	601-Recent Trends in Information Technology	7%	1	0.7	100%	3	0.9	1.6
	602- Software Testing	43%	1	0.7	100%	3	0.9	1.6
	603- Advanced Java	11%	1	0.7	100%	3	0.9	1.6
	604- Android Programing	21%	1	0.7	100%	3	0.9	1.6
	605- Project	100%	3	2.1	100%	3	0.9	3
	606- Lab	100%	3	2.1	100%	3	0.9	3
Average = 2.07								

Department of Commerce

Programme : B. Commerce /M. Commerce

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.Com	Auditing an Taxation	45.00%	2	1.4	100%	3	0.9	2.3
	Business Regulatory framework	39.34%	1	0.7	90%	3	0.9	1.6
	Advanced Accounting	80.32%	3	2.1	95%	3	0.9	3
	cost & works accounting II	64.00%	3	2.1	90.00%	3	0.9	3
	cost & works accounting III	64.00%	3	2.1	87%	3	0.9	3
	International Economics(B.Com)	52.83%	2	1.4	81%	3	0.9	2.3
M.Com.	Capital Market & Financial Services	56.52%	2	1.4	73.91%	2	0.6	2
	Industrial Economics	69.52%	3	2.1	100%	3	0.9	3
	Recent Advances in Business Administration	34.78%	1	0.7	73.91%	2	0.6	1.3
	Project Work/Case Studies	86.95%	3	2.1	82.60%	3	0.9	3
Average : 2.45								

Department of Physics

Programme : B.Sc./M.Sc. Physics

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y. B.Sc.	Classical electrodynamics (91214)	90%	3	2.1	100%	3	0.9	3
	Quantum Mechanics (91224)	37%	1	0.7	100%	3	0.9	1.6
	thermodynamics & statistical Physics (91234)	100%	3	2.1	100%	3	0.9	3
	Nuclear Physics (91244)	93%	3	2.1	100%	3	0.9	3
	Electronics (91254)	73%	3	2.1	100%	3	0.9	3
	Laser (912k4)	90%	3	2.1	100%	3	0.9	3
	Physics lab I	90%	3	2.1	90%	3	0.9	3
	Physics lab II	90%	3	2.1	100%	3	0.9	3
	Physics lab III	90%	3	2.1	100%	3	0.9	3
M.Sc. II	Nuclear Physics	89%	3	2.1	100%	3	0.9	3
	Material Science	89%	3	2.1	100%	3	0.9	3
	Experimental Technics in Physics II	78%	3	2.1	100%	3	0.9	3
	Physics of Nano materials	67%	3	2.1	100%	3	0.9	3
	project	89%	3	2.1	89%	3	0.9	3
Average = 2.90								

Department of Chemistry

Programme : B.Sc./M.Sc. Chemistry

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60% in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.Sc.	CH-501:Physical Chemistry-I	24.71	1	0.7	89%	3	0.9	1.6
	CH-502: Analytical Chemistry-I	76.4	3	2.1	65.16%	2	0.6	2.7
	CH-503:Physical Chemistry Practical-I	98.8	3	2.1	74.15%	2	0.6	2.7
	CH-504:Inorganic Chemistry-I	31.46	1	0.7	94.38%	3	0.9	1.6
	CH-505:Industrial Chemistry	33.7	1	0.7	94.38%	3	0.9	1.6
	CH-506:Inorganic Chemistry Practical-I	100	3	2.1	100%	3	0.9	3
	CH-507:Organic Chemistry-I	46	2	1.4	57.3%	1	0.3	1.7
	CH-508: Dairy Chemistry	33.7	1	0.7	93.29%	3	0.9	1.6
	CH-509:Organic Chemistry Practical-I	100	3	2.1	100%	3	0.9	3
M.Sc. II (Organic Chemistry)	CHO-350: Organic Reaction Mechanism and Biogenesis	42	1	0.7	63.15%	2	0.6	1.3
	CHO-351: Structure Determination of Organic Compounds by Spectroscopic Methods	57.89	2	1.4	63.15%	2	0.6	2

	CHO-352: Stereochemistry and Asymmetric Synthesis of Organic Compounds.	15.78	1	0.7	57.89%	1	0.3	1
	CHO-353: (A) Protection - De-protection, Chiron approach and Carbohydrate Chemistry	36.84	1	0.7	42.1%	1	0.3	1
	CHO-354: Practical I: Solvent Free Organic Synthesis	100	3	2.1	89.47%	3	0.9	3
M.Sc. II (Analytical Chemistry)	CHA-390: Electrochemical and Thermo-gravimetric Methods of chemical analysis	47.7	2	1.4	100%	3	0.9	2.3
	CHA-391: Analytical Method Development and Extraction Techniques	12.5	1	0.7	100%	3	0.9	1.6
	CHA-392: Advanced Chromatographic Methods of Chemical Analysis	8.33	1	0.7	100%	3	0.9	1.6
	CHA-393-B: Analysis of Food and Controlled Substances	8.33	1	0.7	100%	3	0.9	1.6
	CHA-394: Practical I: Basics of Instrumental Methods of Chemical Analysis	100	3	2.1	100%	3	0.9	3
Average = 2.142								

Department of Botany

Programme : B.Sc. Botany

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60% in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.Sc.	91414 - Plant Physiology and Biochemistry	93.33%	3	2.1	93.33%	3	0.9	3
	91424 - Plant Ecology and Diversity	93.33%	3	2.1	100%	3	0.9	3
	91434 - Medicinal and Economic Botany	86.66%	3	2.1	100%	3	0.9	3
	91443 - Plant Pathology	73.33%	3	2.1	100%	3	0.9	3
	91454 - Plant Biotechnology	53.33%	2	1.4	100%	3	0.9	2.3
	91464 - Plat Breeding and Seed Technology	86.66%	3	2.1	100%	3	0.9	3
	Botany Lab I	100%	3	2.1	93.33%	3	0.9	3
	Botany Lab II	100%	3	2.1	93.33%	3	0.9	3
	Botany Lab III	100%	3	2.1	80.00%	3	0.9	3
Average : 2.922								

Department of Zoology

Programme : B.Sc. Zoology

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y.B.Sc.	Biological Techniques	33.33%	1	0.7	38%	1	0.3	1
	Mammalian Physiology And endocrinology	95.23%	3	2.1	90.47%	3	0.9	3
	Genetics and Molecular Biology	80.95%	3	2.1	90.47%	3	0.9	3
	Organic Evolution	61.90%	3	2.1	95.23%	3	0.9	3
	General Embryology	66.66%	3	2.1	76.19%	2	0.6	2.7
	Medical Entomology	38.09%	1	0.7	95.23%	3	0.9	1.6
	Practical - I	90.47%	3	2.1	90.47%	3	0.9	3
	Practical - II	90.47%	3	2.1	85.71%	3	0.9	3
	Practical - III	100%	3	2.1	90.47%	3	0.9	3
Average = 2.588								

Department of Mathematics

Programme : B.Sc. Mathematics

- **Calculations of Programme Outcome Attainments for the Academic Year 2020-21:**

Class	Name of the paper or course	% of students scoring more than 60 % in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 %	level of attainment	30 % of attainment in end term	attainment of course
T.Y.B.Sc.	MT-361 Complex	46.67%	2	1.4	100%	3	0.9	2.3
	MT-362 Real Analysis –	53.33%	2	1.4	100%	3	0.9	2.3
	MT-363 Ring Theory	60.00%	2	1.4	100%	3	0.9	2.3
	MT-364 Partial Differential	53.33%	2	1.4	100%	3	0.9	2.3
	MT-365 Optimization Techniques	66.67%	3	2.1	100%	3	0.9	3
	MT-366 Computational Geometry	53.33%	2	1.4	100%	3	0.9	2.3
	Paper I (Lab)	87%	3	2.1	100%	3	0.9	3
	Paper II (Lab)	80%	3	2.1	100%	3	0.9	3
	Paper III (Lab)	60%	3	2.1	100%	3	0.9	3
Average= 2.611								

Department of Computer Science

Programme : B.Sc. (Computer Science)

- Calculations of Programme Outcome Attainments for the Academic Year 2020-21:

Class	Name of the paper or course	% of students scoring more than 60% in external Exam	level of attainment	70 % of attainment in end term exam	% of students scoring more than 60 % in Internal Exam	level of attainment	30 % of attainment in end term exam	attainment of course
T.Y. B.Sc. (Computer Science)	Operating System (CS-341)	91.08%	3	2.1	92%	3	0.9	3
	Compiler Construction (CS-342)	70.27%	3	2.1	97%	3	0.9	3
	Computer Network-II (CS-343)	94.59%	3	2.1	95%	3	0.9	3
	Internet Programming-II (CS-344)	97.30%	3	2.1	97%	3	0.9	3
	Programming in Java-II (CS-345)	97.30%	3	2.1	78%	3	0.9	3
	Computer Graphics (CS-346)	97.30%	3	2.1	97%	3	0.9	3
	Paper I (Lab)	87%	3	2.1	100%	3	0.9	3
	Paper II (Lab)	80%	3	2.1	100%	3	0.9	3
	Paper III (Lab)	60%	3	2.1	100%	3	0.9	3
Average = 3								




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