



Nagindas Khandwala College (Autonomous)

OBE DESIGN
ATTAINMENT LEVELS
ALL COURSES-2019-20

1. Course- Program outcome Matrix:

The Program Outcomes are developed through the curriculum (curricular/co-curricular, extra-curricular activities). The program outcomes are attained through the course implementation. As an educator, one must know, "to which POs his/her course is contributing?". So that one can design the learning experiences, select teaching method and design the tool for assessment. Hence, establishing the Course-PO matrix is essential step in the OBE. The course-program outcomes matrix indicates the co-relation between the courses and program outcomes. The CO-PO matrix is the map of list of courses contributing to the development of respective POs. The CO-PO Matrix is provided in the table for each program.(see Annexures)

2. Course Outcomes (for all courses):

The course outcomes are the statement that describes the knowledge & abilities developed in the student by the end of course (subject) teaching. The focus is on development of abilities rather than mere content. There can be 5 to 7 course outcomes of any course. These are to be written in the specific terms and not in general.

3. Set Target levels for Attainment of Course Outcomes:

The course outcome attainment is assessed in order to track the graduates' performance w.r.t target level of performance. The CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess students' performance with respect to abilities (at the end of course teaching/by the end of program) the course outcome attainment are measured/calculated. In order to calculate the

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program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done.

4. Set Target level for Attainment of Program Outcomes:

The program outcome (PO) attainment is assessed in order to track the graduates' performance w.r.t target level of performance. The CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess students' performance with respect to abilities (at the end of course teaching/by the end of program) the course outcome (CO) attainment and program outcome attainment is measured/calculated. The program outcome attainment is governed by curricular, co-curricular and extra-curricular activities including the stakeholders' participation. The direct method and indirect method is adopted to calculate the PO attainment. The direct method implies the attainment by course outcomes contributing to respective program outcomes. And indirect method is the satisfaction/feed-back survey of stakeholders. In order to calculate the program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done.

The set target level is the set benchmark to ensure the continuous improvements in the learners/ graduates' performance.

5. Course Outcome Attainment Levels:

- a. CO attainment is defined/set at five levels;
- b. The CO attainment is based on end term examination assessment and internal assessment;
- c. The Co attainment is defined at five levels in ascending order

The following are the defined CO attainment level for **Bachelor of Commerce (B.Com.)**

e.g. For end term and internal examination;

- i. **Level-1:** 40% to 49.99% students scored more than class average
- ii. **Level-2:** 50% to 59.99% students score more than class average;
- iii. **Level-3:** 60% to 69.99% students score more than class average;



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- iv. **Level-4:** 70% to 79.99% students score more than class average;
- v. **Level 5:** 80% to 89.99% students score more than class average.

d. The target level is set (e.g. Level-2). It indicates that, the current target is level-2; 50% students score more than class average. The CO attainment is measured and the results are obtained. Based on the results of attainment, the corrective measures/remedial action are taken.

e. CO Attainment= 75% (Attainment level in end term examination) + 25% (Attainment level in internal examination).

For academic year 20-21 (Semester I only)

CO Attainment= 60% (Attainment level in end term examination) + 40% (Attainment level in internal examination).

f. One example on calculation of CO attainment for **Bachelor of Commerce (B.Com.)** is provided under point No. 7 in the below paragraph.

6. Program attainment Level:

a. PO attainment is defined at five levels in ascending order;

b. The PO attainment is based on the average attainment level of corresponding courses (Direct Method) and feed-back survey (Indirect method);

c. The PO attainment levels are defined / set as stated below

- i. Level-1: Greater than 0.5 and less than 1.0 (0.5>1)- Poor
- ii. Level-2: 1.0>1.5-Average
- iii. Level-3: 1.5>2.0-Good
- iv. Level-4: 2.0>2.5-Very Good
- v. Level-5: 2.5>3.0 -Excellent

d. The PO attainment target level is set/defined (say, Level-4). It implies that, the department is aiming at minimum level-4 (very good) in the performance of abilities by the graduates. Based upon the results of attainment, the remedial measures are taken;

e. PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method)

f. One example on calculation of PO attainment for Master of Commerce is provided under point No. 8 in the below paragraph



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Bachelor of Commerce (B.Com.)

**Table 1.0: PO & CO Mapping Table- B.Com.
Academic Year 2019-20**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	1611UCBC		*			*	
	ENVIRONMENTAL STUDIES – I	1612UCES					*	
	FOUNDATION COURSE – I	1613UCFC	*	*			*	
	INTRODUCTION TO BUSINESS	1614UCCM	*					*
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	1615UCAF	*	*	*	*	*	*
	BUSINESS ECONOMICS – I	1616UCBE	*	*			*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	1817UCMS				*		
II	BUSINESS COMMUNICATION - II	1621UCBC		*			*	
	ENVIRONMENTAL STUDIES – II	1622UCES					*	
	FOUNDATION COURSE – II	1623UCFC	*	*			*	
	SERVICE SECTOR ACCOUNTANCY & FINANCIAL MANAGEMENT-II	1624UCOM	*					*
	BUSINESS ECONOMICS – II	1625UCAF	*	*	*	*	*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	1626UCBE	*	*			*	
		1627UCMS				*		
III	ADVERTISING	1731UCAD	*				*	*
	FOUNDATION COURSE - III (CONTEMPORARY	1732UCFC		*			*	



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	INDIA : 1947-2000 A.D)							
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	1733UCCM	*				*	*
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	*		*			
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	*		*			*
	BUSINESS ECONOMICS - III	1736UCBE	*					
	BUSINESS LAW	1737UCBL	*				*	*
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	*				*	*
	FOUNDATION COURSE - IV	1742UCFC		*			*	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCOM	*				*	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	*		*			
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCCA	*					*
	BUSINESS ECONOMICS - IV	1746UCBE	*					
	BUSINESS LAW - II	1747UCBL	*				*	*
V	COMMERCE - V (MARKETING)	1853UCOM	*				*	*
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL	1854UCBE	*					



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	SYSTEM)							
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	*					*
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	*		*			
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1952UCMA	*	*	*		*	*
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					*	
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	*				*	
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		*		*		
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR		*		*		
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	*				*	
	BUSINESS ECONOMICS- VI	1864UCBE	*					
	DIRECT AND INDIRECT TAXES- PAPER II - INDIRECT TAX	1865UCDT	*					*
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX - FINANCIAL	1861UCFA	*		*			*



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	ACCOUNTING							
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X – AUDITING	1862UCCU	*	*			*	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					*	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	*				*	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		*		*		
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		*		*		

7. The Results of CO Attainment:

The Results of CO attainment are provided below.

FOR EXAMPLE: COURSE CODE/TITLE: SEM III/1831UCAD /advertising
e.g. For end term and internal examination;

- Level-1:** 40% to 49.99% students scored more than class average
- Level-2:** 50% to 59.99% students score more than class average;
- Level-3:** 60% to 69.99% students score more than class average;
- Level-4:** 70% to 79.99% students score more than class average;
- Level 5:** 80% to 89.99% students score more than class average.

Average Marks in External examination: 28.00

% Students score more than 28 is 364/585 i.e. 62.22% i.e. Level-3

Average Marks in Internal examination= 17.00

% Students score more than 17 is 368/585= 62.91%, i.e. Level-3


A (CO) 1831UCAD = 75% (3) +25 % (3) = 2.25 + 0.75 = 3

Hence, the attainment level is Level-2 and the set target level is Level-2 and therefore the CO is fully attained. Following table provides details of Course Outcome (CO) attainment levels.


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**Table No. 1.1: CO Attainment Level -Bachelor of Commerce (B.Com.)-
Academic Year 2019-20**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	1611UCBC	3	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES - I	1612UCES	2.75	2	Fully Attained	NA
	FOUNDATION COURSE - I	1613UCFC	3	2	Fully Attained	NA
	INTRODUCTION TO BUSINESS	1614UCCM	3	2	Fully Attained	NA
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	1615UCAF	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1616UCBE	2.25	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES -I	1817UCMS	2	2	Fully Attained	NA
II	BUSINESS COMMUNICATION - II	1621UCBC	2	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES - II	1622UCES	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - II	1623UCFC	2.5	2	Fully Attained	NA
	SERVICE SECTOR	1624UCOM	2.5	2	Fully Attained	NA
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	1625UCAF	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - II	1626UCBE	2	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES -II	1627UCMS	2	2	Fully Attained	NA
III	ADVERTISING	1731UCAD	3	2	Fully Attained	NA
	FOUNDATION	1732UCFC	2	2	Fully Attained	NA


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	COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)					
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	1733UCCM	3	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS - III	1736UCBE	2	2	Fully Attained	NA
	BUSINESS LAW	1737UCBL	2	2	Fully Attained	NA
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - IV	1742UCFC	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMMERCE- IV (MANAGEMENT : PRODUCTION AND FINANCE)	1743UCOM	2.25	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - IV	1744UCAF	2	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST	1845UCCA	2	2	Fully Attained	NA



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	ACCOUNTING				Fully Attained	NA
	BUSINESS ECONOMICS - IV	1746UCBE	2	2	Fully Attained	NA
	BUSINESS LAW - II	1747UCBL	2.25	2	Fully Attained	NA
V	COMMERCE - V (MARKETING)	1853UCOM	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.25	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1952UCMA	2	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS	3	2	Fully Attained	NA
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	2	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS	2.25	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS	1856UCOR	2.25	2	Fully Attained	NA



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	RESEARCH				Fully Attained	NA
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	3	2	Fully Attained	NA
	BUSINESS ECONOMICS- VI	1864UCBE	3	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES- PAPER II - INDIRECT TAX	1865UCDT	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX - FINANCIAL ACCOUNTING	1861UCFA	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X - AUDITING	1862UCCU	3.75	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS	3	2	Fully Attained	NA
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	2.25	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATION S	1866UCCS	2	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR	3.25	2	Fully Attained	NA
	Average		2.380			
NA: Not applicable as target level is fully attained.						



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**Table No. 1.2: Results of CO-PO attainment
Bachelor of Commerce (B.Com.)-2019-20**

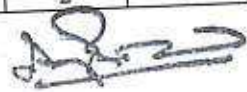
Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	1611UCBC		3			3	
	ENVIRONMENTAL STUDIES - I	1612UCES					2.75	
	FOUNDATION COURSE - I	1613UCFC	3	3			3	
	INTRODUCTION TO BUSINESS	1614UCCM	3					3
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	1615UCAF	2	2	2	2	2	2
	BUSINESS ECONOMICS - I	1616UCBE	2.25	2.25			2.25	
	MATHEMATICAL AND STATISTICAL TECHNIQUES -I	1817UCMS				2		
II	BUSINESS COMMUNICATION - II	1621UCBC		2			2	
	ENVIRONMENTAL STUDIES - II	1622UCES					2.25	
	FOUNDATION COURSE - II	1623UCFC	2.5	2.5			2.5	
	SERVICE SECTOR	1624UCOM	2.5					2.5
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	1625UCAF	2	2	2	2	2	
	BUSINESS ECONOMICS - II	1626UCBE	2	2			2	
	MATHEMATICAL AND STATISTICAL TECHNIQUES -II	1627UCMS				2		
III	ADVERTISING	1731UCAD	3				3	3
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	1732UCFC		2			2	
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	1733UCCM	3				3	3
	ACCOUNTANCY AND FINANCIAL	1734UCAF	1.75		1.75			



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	MANAGEMENT - III							
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	2.25		2.25			2.25
	BUSINESS ECONOMICS - III	1736UCBE	2				2	2
	BUSINESS LAW	1737UCBL	2					
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	2.25				2.25	2.25
	FOUNDATION COURSE - IV	1742UCFC		1.75			1.75	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCOM	2.25				2.25	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	2		2			
	FINANCIAL ACCOUNTING AND AUDITING -VI - COST ACCOUNTING	1845UCCA	2					2
	BUSINESS ECONOMICS - IV	1746UCBE	2					
	BUSINESS LAW - II	1747UCBL	2.25				2.25	2.25
V	COMMERCE - V (MARKETING)	1853UCOM	2				2	2
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.25					
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	2.25					2.25
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	2.25		2.25			
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT)	1952UCMA	2	2	2		2	2



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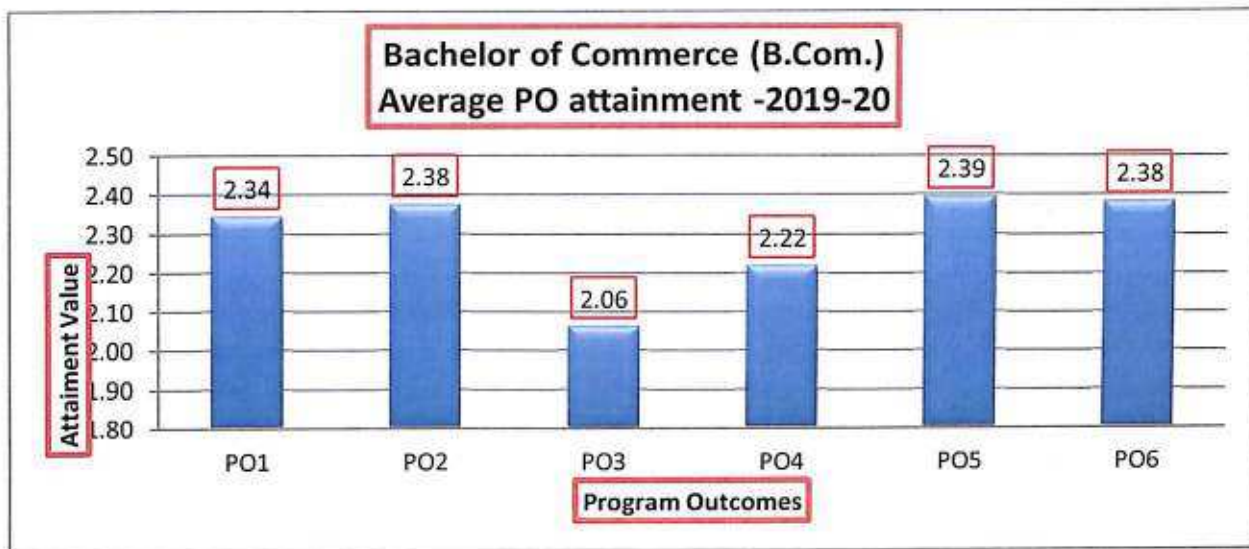
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	ACCOUNTING)							
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					3	
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	1				1	
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		2.25		2.25		
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR		2.25		2.25		
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	3				3	
	BUSINESS ECONOMICS- VI	1864UCBE	3					
	DIRECT AND INDIRECT TAXES- PAPER II -INDIRECT TAX	1865UCDT	3					3
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX -FINANCIAL ACCOUNTING	1861UCFA	2.25		2.25			2.25
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X -AUDITING	1862UCCU	3.75	3.75			3.75	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					3	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	2.25				2.25	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		2		2		
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		3.25		3.25		
	Average		2.34	2.38	2.06	2.22	2.39	2.38



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From above graph, it is observed that average PO attainment value for each program outcome is greater than 2. It means, PO attainment by corresponding courses is at Very Good (value between 2 and 2.5) level.

8. The Results of PO Attainment:

The Results of PO attainment are provided in table no. 1.3, table no. 1.4 and table no. 1.5

For example: PO of B.Com

1. For Academic Year 2018-19

(Note: Refer first row table No. 1.3 below which describes CO the attainment level and PO attainment level)

PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

PO Attainment= 80%(2.530) + 20% (4) = 2.024 + 0.8 = **2.832- Level 5- Excellent**

Target Level was 4. Hence PO attended.

2. For Academic Year 2019-20

(Note: Refer first row table No. 1.4 below which describes CO the attainment level and PO attainment level)

PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

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PO Attainment= $80\%(2.852) + 20\%(4) = 1.852 + 0.8 = 2.696$ - Level 5- Excellent

Target Level was 4

Hence PO attended.

Table No. 1.2a: PO Attainment Level- UG Programs

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
NA: Not applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

The Courses having attainment level less than Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment level is greater than target level-4. Hence at present no plan is required.

Following table no. 1.3 and table no. 1.4 provides semester wise CO attainment and PO attainment levels of 10 undergraduate programs for three academic years.

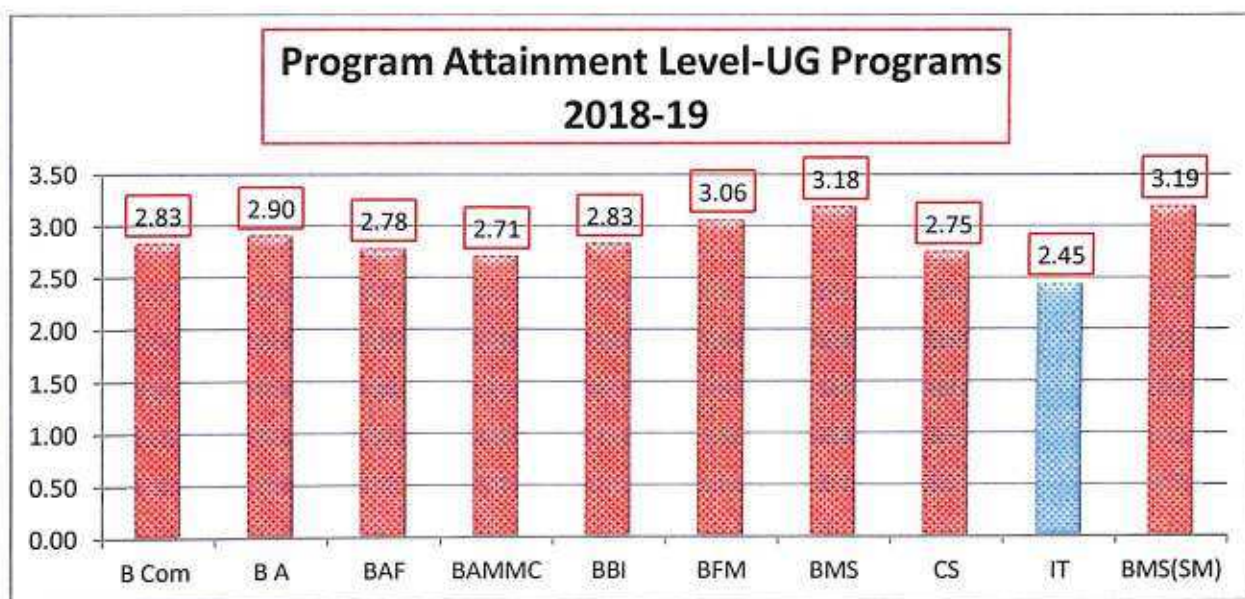
Table No.1.3

Attainment level - Undergraduate programs academic year 2018-19

Academic Year- 2018-19	Attainment level - Undergraduate programs							Program Attainment
	First Year		Second Year		Third Year		Average	Direct+ Indirect
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	Direct	
B Com	3.04	2.21	2.71	2.25	2.92	2.11	2.54	2.83
B A	3	2.36	2.63	2.78	2.69	2.26	2.62	2.90
BAF	2.54	2.71	2.39	2.61	2.25	2.33	2.47	2.78
BAMMC	2.42	2.04	2.63	1.92	2.69	2.63	2.39	2.71
BBi	2.96	2.54	2.79	2.64	1.96	2.33	2.54	2.83
BFM	3.07	2.39	2.39	2.79	3.46	2.88	2.83	3.06
BMS	2.43	2.54	3.36	2.86	3.58	3.1	2.98	3.18
CS	2.31	2.52	2.13	2.17	2.61	2.91	2.44	2.75
IT	2.28	2.05	2.05	2.08	1.78	2.13	2.06	2.45
BMS(SM)	2.97	3	NA	NA	NA	NA	2.99	3.19

Now we provide graphical representation of PO attainment levels of UG Program for academic year 2018-19.


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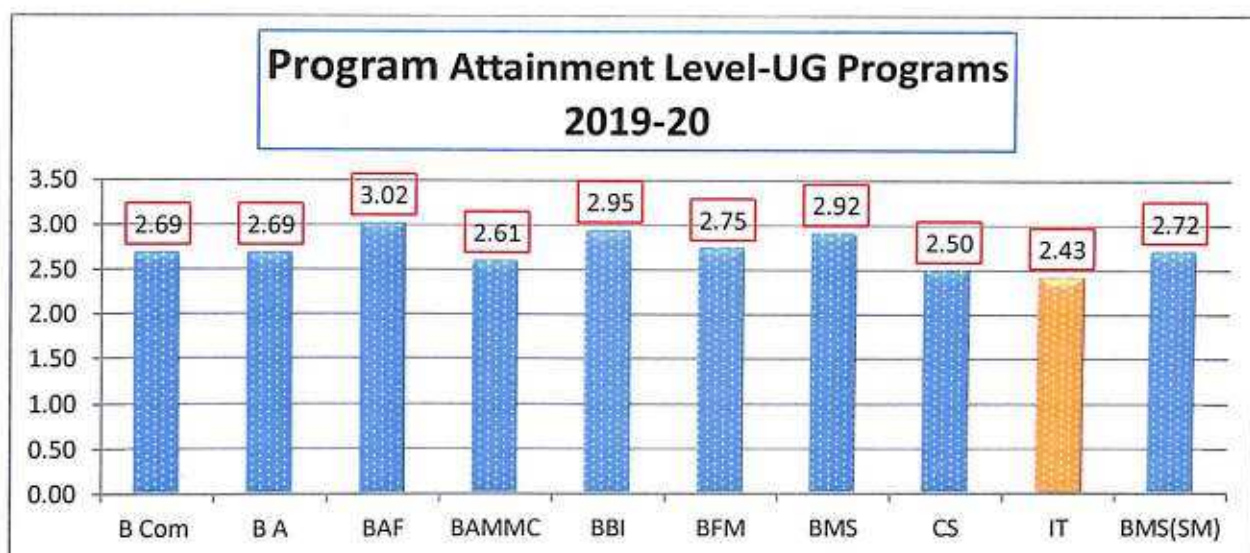
It is observed that program attainment value for all but one program (IT) is greater than or equal to 2.5. This indicates in this academic year, overall attainment of all but one UG programs (IT) is 5 i. e. Excellent. For IT program attainment value is 2.43 (between 2 and 2.5). i.e. Very Good.

Table No.1.4
Attainment level - Undergraduate programs academic year 2019-20

		Attainment level - Undergraduate courses						Course Attainment
Academic Year- 2019-20	First Year		Second Year		Third Year		Average	
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	Direct + indirect	
B Com	2.57	2.18	2.29	2.07	2.25	2.83	2.37	2.69
B A	2.29	2.32	2.38	2.06	2.38	2.75	2.36	2.69
BAF	2.71	2.89	2.32	2.79	2.71	3.25	2.78	3.02
BAMMC	2.75	2.17	2.13	1.04	2.83	2.63	2.26	2.61
BBI	2.89	2.82	2.04	2.89	2.67	2.79	2.68	2.95
BFM	2.39	2.21	2.27	2.64	2.46	2.63	2.43	2.75
BMS	2.46	2.82	2.53	2.64	2.48	2.95	2.65	2.92
CS	2.23	2.55	1.94	1.92	1.75	2.39	2.13	2.50
IT	2.25	1.95	2	1.98	1.85	2.23	2.04	2.43
BMS(SM)	2.45	2.13	2.93	2.07	NA	NA	2.40	2.72

Now we provide graphical representation of PO attainment levels of UG Program for academic year 2019-20.


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It is observed that program attainment value for all but one program (IT) is greater than or equal to 2.5. This indicates in this academic year, overall attainment of all but one UG programs (IT) is 5 i. e. Excellent. For IT program attainment value is 2.43 (between 2 and 2.5). i.e. Very Good.

In the following table no. 1.5 and table no. 1.6 provides semester wise CO attainment and PO attainment levels of 5 post graduate programs for three academic years.

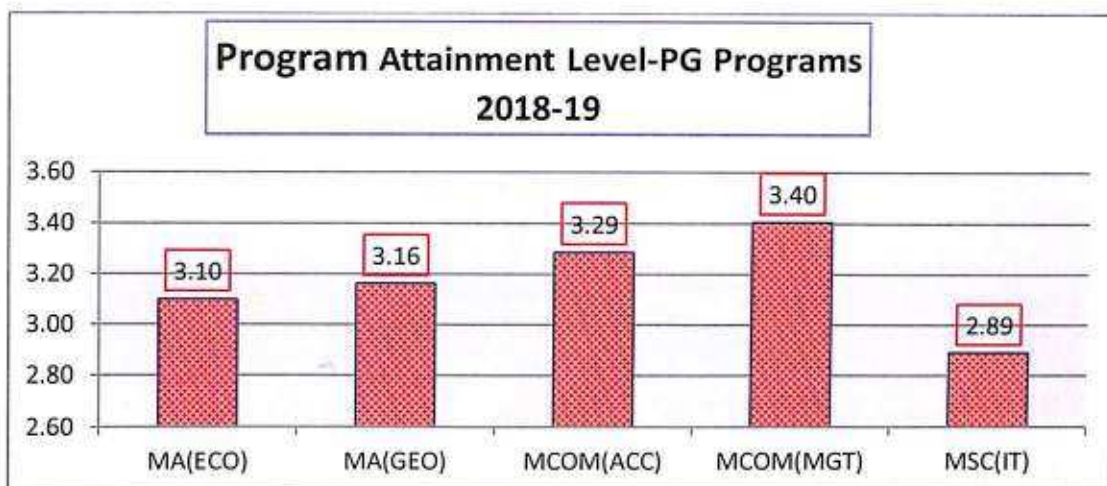
Table No.1.5
Attainment level - Postgraduate programs academic year 2018-19

	Attainment level - Postgraduate courses					Program Attainment Direct + indirect
Academic Year- 2018-19	First Year		Second Year		Average	
	SEM 1	SEM 2	SEM 3	SEM 4		
MA(ECO)	2.3	3.2	2.55	3.45	2.88	3.1
MA(GEO)	3.37	4.13	2.44	1.87	2.95	3.162
MCOM(ACC)	3	2.85	2.91	3.67	3.11	3.286
MCOM(MGT)	3.35	3.6	2.91	3.16	3.26	3.404
MSC(IT)	1.85	3	2.8	2.8	2.61	2.89

Now we provide graphical representation of PO attainment levels of PG Program for academic year 2018-19.

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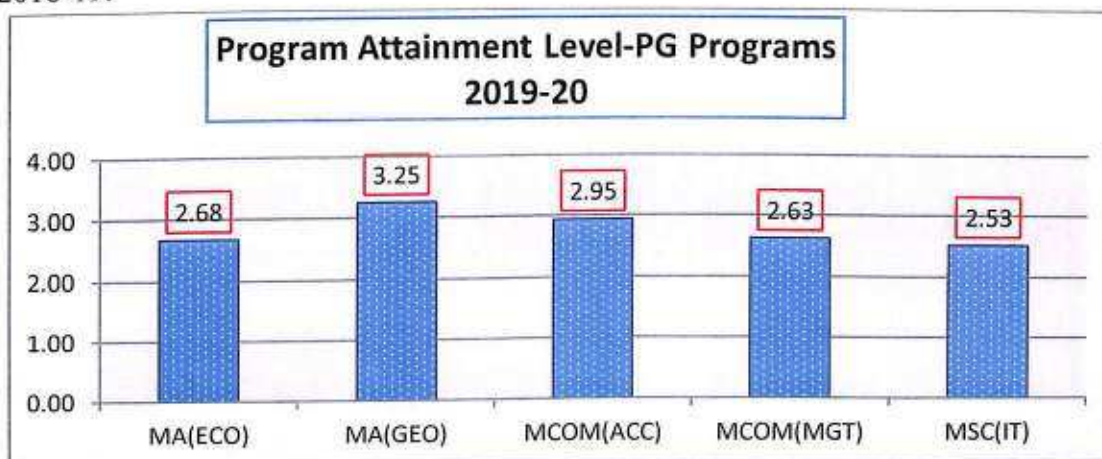
It is observed that program attainment value for all programs is greater than 2.5. This indicates in this academic year, overall attainment of all PG programs is 5 i. e. Excellent.

Table No.1.6

Attainment level - Postgraduate programs academic year 2019-20

Academic Year-	Attainment level - Postgraduate courses					Program Attainment
	First Year		Second Year		Average	
2019-20	SEM 1	SEM 2	SEM 3	SEM 4	Direct	Direct + indirect
MA(ECO)	2.35	2.5	2.2	2.5	2.35	2.68
MA(GEO)	4.2	4.43	2.6	2.4	3.07	3.25
MCOM(ACC)	2.4	2.85	2.5	3.15	2.68	2.95
MCOM(MGT)	2.65	2.6	2.25	1.95	2.28	2.63
MSC(IT)	1.58	2.08	2.63	2.26	2.16	2.53

Now we provide graphical representation of PO attainment levels of PG Program for academic year 2018-19.



It is observed that program attainment value for all programs is greater than 2.5. This indicates in this academic year, overall attainment of all PG programs is 5 i. e. Excellent.

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ALL UNDER GRADUATE COURSES

ANNEXTURE A

Bachelor of Arts (BA):

Table No. A.1: PO CO Mapping Matrix: Bachelor of Arts (BA)
Academic Year - 2019-20

Se me ster	Course	Cour se Code	Program Outcome					Program Specific Outcomes (Psychology)			Program Specific Outcomes (Economics)				Program Specific Outcomes (Geography)			
			PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3	PS O1	PS O2	PS O3	PS O4	PS O1	PS O2	PS O3	PS O4
	COMMUNIC ATION SKILLS-I	1611 UAC S		*	*		*											
I	FOUNDATIO N COURSE - I	1612 UAF C					*											
	FUNDAMEN TALS OF PSYCHOLOG Y	1614 UAPS	*		*	*	*	*										
	GEOMORPH OLOGY	1613 UAG E	*			*									*		*	
	MICROECON OMICS- I	1615 UAE C2	*								*	*	*	*				
	FRENCH	1716 UAF		*														
	HINDI	1616 UAH N		*														
II	COMMUNIC ATION SKILLS - II	1621 UAC S		*	*		*											
	FOUNDATIO N COURSE - II	1622 UAF C					*											
	HUMAN GEOGRAPH Y	1723 UAG E	*												*	*		
	FUNDAMEN TALS OF PSYCHOLOG Y	1624 UAPS	*		*		*	*										
	MACROECO NOMICS- I	1625 UAE C	*								*	*	*	*				
	HINDI	1626 UAH N		*														



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	MITIGATION VIII	UAD M																	
	GEOSPATIAL TECHNOLOGY IX	1856 UAG T	*		*	*											*		
	ENVIRONMENTAL GEOG IV	1861 UAE G	*				*								*			*	
	GEOG OF TOURISM V	1862 UAT R	*											*	*				
	TOOLS & TECHNIQUES VI	1863 UAS A	*		*												*		
	ECO GEOG VII	1864 UAE G	*											*	*				
	SOCIAL GEOG VIII	1865 UAS G	*											*	*				
	RESEARCH METHODOLOGY IN GEOG IX	1866 UAPJ	*		*	*											*		
	PSYCHOLOGICAL TESTING AND STATISTICS IV	1851 UAT S	*		*	*		*	*										
	ABNORMAL PSYCHOLOGY V	1852 UAA B	*		*	*	*	*	*	*	*								
	INDUSTRIAL PSYCHOLOGY VI	1853 UAIP	*		*	*	*	*	*	*	*								
	COGNITIVE PSYCHOLOGY VII	1854 UAC O	*		*	*	*	*	*	*	*								
	PRACTICALS IN COGNITIVE PROCESSES VIII	1855 UAP T	*		*	*		*	*										
	COUNSELING PSYCHOLOGY IX	1856 UAC P	*		*	*	*	*	*	*	*								
VI	PSYCHOLOG	1861	*		*	*		*	*										



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(P y)	ICAL TESTING AND STATISTICS IV	UAT S																		
	ABNORMAL PSYCHOLOG Y V	1862 UAA S	*		*	*	*	*	*	*	*									
	INDUSTRIAL PSYCHOLOG Y VI	1863 UAIP	*		*	*	*	*	*	*	*									
	COGNITIVE PSYCHOLOG Y VII	1864 UAC O	*		*	*	*	*	*	*	*									
	PRACTICALS IN COGNITIVE PROCESSES VIII	1865 UAP T	*		*	*		*	*											
	COUNSELIN G PSYCHOLOG Y IX	1866 UAC P	*		*	*	*	*	*	*	*									

**Table No. A.2: CO Attainment Level -Bachelor of Arts (B.A.)-
Academic Year 2019-20**

Semest er	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS-I	1611UACS	2.5	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UAFC	2.25	2	Fully Attained	NA
	FUNDAMENTALS OF PSYCHOLOGY	1614UAPS	1.5	2	Fully Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	GEOMORPHOLOGY	1613UAGE	2.25	2	Fully Attained	NA
	MICROECONOMICS- I	1615UAEC2	2	2	Fully Attained	NA
	FRENCH	1716UAF	3.25	2	Fully Attained	NA
	HINDI	1616UAHN	2.25	2	Fully Attained	NA
II	COMMUNICATION SKILLS - II	1621UACS	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - II	1622UAFC	2.25	2	Fully Attained	NA
	HUMAN GEOGRAPHY	1723UAGE	2.25	2	Fully Attained	NA



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	FUNDAMENTALS OF PSYCHOLOGY	1624UAPS	2	2	Fully Attained	NA
	MACROECONOMICS - I	1625UAEC	1	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	HINDI	1626UAHN	2.25	2	Fully Attained	NA
	FRENCH	1726UAF	3.25	2	Fully Attained	NA
III	FOUNDATION COURSE - III	1731UAFC	2.25	2	Fully Attained	NA
	ADVERTISING	1738UAAD	3.75	2	Fully Attained	NA
	ECO-II MICROECONOMICS	1732UAEC	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	ECO-III INDIAN ECONOMY	1733UAEC	2.25	2	Fully Attained	NA
	AN INTRO TO CLIMATOLOGY	1734UAGE	2.25	2	Fully Attained	NA
	PHYSICAL GEOG OF INDIA	1735UAGE	2	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	1736UAPS	3	2	Fully Attained	NA
	DEVELOPMENTAL PSYCHOLOGY	1737UAPS	2	2	Fully Attained	NA
IV	FOUNDATION COURSE -IV	1741UAFC	2	2	Fully Attained	NA
	ADVERTISING	1748UAAD	2.25	2	Fully Attained	NA
	ECO II MACROECONOMICS	1742UAEC	2	2	Fully Attained	NA
	ECO III MAHARASTRA ECO	173UAEC	2	2	Fully Attained	NA
	INTRO TO OCEANOGRAPHY	1744UAGE	2.25	2	Fully Attained	NA
	AGRI GEO	1745UAGE	2	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	1746UAPS	2	2	Not Attained	NA
	DEVELOPMENTAL PSYCHOLOGY	1747UAPS	2	2	Fully Attained	NA
V (Eco)	ADV ECO THEORY IV	1951UAAET	1.25	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	ECO OF DEVELOPMENT V	1852UAED	1.5	2	Not Attained	
	INDIAN FIN SYSTEM VI	1953UAIFS	1.5	2	Not Attained	
	RM VII	1854UARM	1.5	2	Not Attained	



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	PUBLIC ECO VIII	1955UAPE	2.25	2	Fully Attained	
	HISTORY OF ECO THOUGHT IX	1856UAHET	1.25	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
VI (Eco)	ADV ECO THEORY IV	1961UAAET	2.5	2	Fully Attained	NA
	ECO OF DEVELOPMENT V	1962UAED	2.25	2	Fully Attained	NA
	INDIAN FIN SYSTEM VI	1963UAIFS	2.5	2	Fully Attained	NA
	RESEARCH METHODOLOGY VII	1964UARM	2.25	2	Fully Attained	NA
	INTERNATIONAL ECO VIII	1965UAIE	2.25	2	Fully Attained	NA
	INDIAN ECO THOUGHT IX	1966UAJET	2.75	2	Fully Attained	NA
V (Geo)	GEOG OF SETTLEMENT IV	1851UAGS	3	2	Fully Attained	NA
	POPULATION GEOG V	1852UAPG	2.25	2	Fully Attained	NA
	TOOLS & TECHNIQUES VI	1853UASA	2.25	2	Fully Attained	NA
	REGIONAL PLANNG & DEVT VII	1854UAPD	3.25	2	Fully Attained	NA
	DISASTER MITIGATION VIII	1855UADM	2.75	2	Fully Attained	NA
	GEOSPATIAL TECHNOLOGY IX	1856UAGT	3	2	Fully Attained	NA
VI (Geo)	ENVIRONMENTAL GEOG IV	1861UAEG	2.25	2	Fully Attained	NA
	GEOG OF TOURISM V	1862UATR	3.25	2	Fully Attained	NA
	TOOLS & TECHNIQUES VI	1863UASA	3.25	2	Fully Attained	NA
	ECO GEOG VII	1864UAEG	3.25	2	Fully Attained	NA
	SOCIAL GEOG VIII	1865UASG	2.75	2	Fully Attained	NA
	RESEARCH METHODOLOGY IN GEOG IX	1866UAPJ	3.25	2	Fully Attained	NA
V (Psy)	PSYCHOLOGICAL TESTING AND STATISTICS IV	1851UATS	2.25	2	Fully Attained	NA
	ABNORMAL PSYCHOLOGY V	1852UAAB	3.75	2	Fully Attained	NA
	INDUSTRIAL PSYCHOLOGY VI	1853UAIP	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching
	COGNITIVE PSYCHOLOGY VII	1854UACO	1.75	2	Not Attained	
	PRACTICALS IN COGNITIVE	1855UAPT	1.5	2	Not Attained	



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	PROCESSES VIII					shall be planned.
	COUNSELING PSYCHOLOGY IX	1856UACP	2.25	2	Fully Attained	NA
VI (Psy)	PSYCHOLOGICAL TESTING AND STATISTICS IV	1861UATS	3	2	Fully Attained	NA
	ABNORMAL PSYCHOLOGY V	1862UAAS	2.75	2	Fully Attained	NA
	INDUSTRIAL PSYCHOLOGY VI	1863UAIP	3	2	Fully Attained	NA
	COGNITIVE PSYCHOLOGY VII	1864UACO	2.75	2	Fully Attained	NA
	PRACTICALS IN COGNITIVE PROCESSES VIII	1865UAPT	2.5	2	Fully Attained	NA
	COUNSELING PSYCHOLOGY IX	1866UACP	3	2	Fully Attained	NA
	Average		2.36			
NA: Not Applicable as target level is fully attained						

**Table No.A.2a: PO Attainment Level- BA
Academic Year 2019-20**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained				

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plan is required.

**Table No. A.3: Results of CO-PO attainment-Bachelor of Arts (BA)-
Academic Year 2019-20**

Semester	Course	Course Code	Program Outcome					Program Specific Outcomes (Psychology)			Program Specific Outcomes (Economics)				Program Specific Outcomes (Geography)			
			PO 1	PO 2	PO 3	PO 4	PO 5	PS O 1	PS O 2	PS O 3	PS O 1	PS O 2	PS O 3	PS O 4	PS O 1	PS O 2	PS O 3	PS O 4
	COMMUNICATION SKILLS-I	1611UACS		2.5	2.5		2.5											



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I	FOUNDATI ON COURSE - I	161 2U AF C				2.2 5												
	FUNDAME NTALS OF PSYCHOLO GY	161 4U AP S	1 5		1 5	1 5	1.5 5											
	GEOMORPH OLOGY	161 3U AG E	2 5			2 5							2. 25			2. 25		
	MICROECO NOMICS-I	161 5U AE C2	2							2	2	2	2					
	FRENCH	171 6U AF		3 5														
	HINDI	161 6U AH N		2 5														
II	COMMUNIC ATION SKILLS - II	162 1U AC S		3 5	3 5		3.2 5											
	FOUNDATI ON COURSE - II	162 2U AF C					2.2 5											
	HUMAN GEOGRAPH Y	172 3U AG E	2 5										2. 25			2. 25		
	FUNDAME NTALS OF PSYCHOLO GY	162 4U AP S	2		2		2	2										
	MACROEC ONOMICS-I	162 5U AE C	1							1	1	1	1					
	HINDI	162 6U AH N		2 5														
	FRENCH	172 6U AF		3 5														



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III	FOUNDATI ON COURSE - III	173 1U AF C																		
	ADVERTISI NG	173 8U AA D			3 . 2 5															
	ECO-II MICROECO NOMICS	173 2U AE C	1 . 5								1. 5	1. 5								
	ECO-III INDIAN ECONOMY	173 3U AE C	2 . 2 5										2. 25	2. 25						
	AN INTRO TO CLIMATOL OGY	173 4U AG E	2 . 2 5												2. 25		2. 25			
	PHYSICAL GEOG OF INDIA	173 5U AG E	2													2				
	SOCIAL PSYCHOLO GY	173 6U AP S	3		3	3	3	3	3		3									
	DEVELOPM ENTAL PSYCHOLO GY	173 7U AP S	2		2	2	2	2	2		2									
IV	FOUNDATI ON COURSE -IV	174 1U AF C						2												
	ADVERTISI NG	174 8U AA D			2 . 2 5															
	ECO II MACROEC ONOMICS	174 2U AE C	2									2	2							
	ECO III MAHARAST RA ECO	173 UA EC	2											2	2					
	INTRO TO OCEANOGR APHY	174 4U AG	2 . 2													2. 25		2. 25		2. 25

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		E	5																
	AGRI GEO	174 5U AG E	2													2	2		
	SOCIAL PSYCHOLO GY	174 6U AP S	2		2		2	2		2									
	DEVELOPM ENTAL PSYCHOLO GY	174 7U AP S	2		2		2	2		2									
V (Eco)	ADV ECO THEORY IV	195 1U AA ET	1 . 2 5								1. 25	1. 25	1. 25	1. 25					
	ECO OF DEVELOPM ENT V	185 2U AE D	1 . 5				1.5				1. 5	1. 5	1. 5	1. 5					
	INDIAN FIN SYSTEM VI	195 3U AI FS	1 . 5		1 . 5						1. 5	1. 5	1. 5	1. 5					
	RM VII	185 4U AR M	1 . 5		1 . 5						1. 5	1. 5	1. 5	1. 5					
	PUBLIC ECO VIII	195 5U AP E	2 . 2 5								2. 25	2. 25	2. 25	2. 25					
	HISTORY OF ECO THOUGHT IX	185 6U AH ET	1 . 2 5								1. 25	1. 25	1. 25	1. 25					
VI (Eco)	ADV ECO THEORY IV	196 1U AA ET	2 . 5								2. 5	2. 5	2. 5	2. 5					
	ECO OF DEVELOPM ENT V	196 2U AE D	2 . 2 5				2.2 5				2. 25	2. 25	2. 25	2. 25					
	INDIAN FIN SYSTEM VI	196 3U AI FS	2 . 5		2 . 5						2. 5	2. 5	2. 5	2. 5					
	RESEARCH	196 4U	2 .			2 .					2. .	2. .	2. .	2. .					



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	METHODOLOGY VII	ARM	25			25					25	25	25	25				
	INTERNATIONAL ECO VIII	1965UAI E	225								2.25	2.25	2.25	2.25				
	INDIAN ECO THOUGHT IX	1966UAI ET	275								2.75	2.75	2.75	2.75				
V (Geog)	GEOG OF SETTLEMENT IV	1851UAGS	3												3			
	POPULATION GEOG V	1852UAPG	225												2.25	2.25		
	TOOLS & TECHNIQUES VI	1853UAS A	225		2.5	2.5											2.25	
	REGIONAL PLANNING & DEVT VII	1854UAPD	325												3.25	3.25	3.25	
	DISASTER MITIGATION VIII	1855UADM	227												2.75			2.75
	GEOSPATIAL TECHNOLOGY IX	1856UAGT	3			3	3										3	
VI (Geog)	ENVIRONMENTAL GEOG IV	1861UAE G	225			2.25									2.25			2.25
	GEOG OF TOURISM V	1862UATR	325												3.25	3.25		
	TOOLS & TECHNIQUES VI	1863UAS A	325		3.5													3.25
	ECO GEOG VII	1864UAE G	325												3.25	3.25		



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P. O. BOX 1111
MUMBAI 400 004

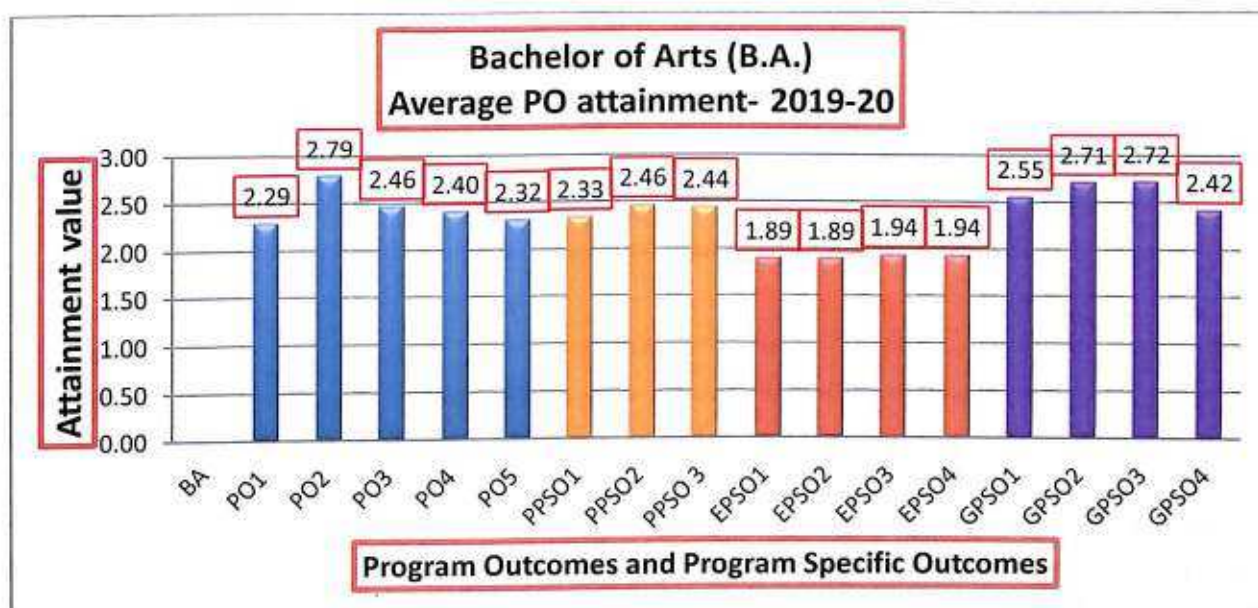
	SOCIAL GEOG VIII	186 5U AS G	2 . 7 5															2. 75	2. 75		
	RESEARCH METHODOL OGY IN GEOG IX	186 6U AP J	3 . 2 5		3 . 2 5	3 . 2 5														3. 25	
V (Psy)	PSYCHOLO GICAL TESTING AND STATISTICS IV	185 1U AT S	2 . 2 5		2 . 2 5	2 . 2 5		2. 25	2.2 5												
	ABNORMA L PSYCHOLO GY V	185 2U AA B	3 . 2 5		3 . 2 5	3 . 2 5	3.2 5	3. 25	3.2 5	3.25											
	INDUSTRIA L PSYCHOLO GY VI	185 3U AI P	1 . 5		1 . 5	1 . 5	1.5	1. 5	1.5	1.5											
	COGNITIVE PSYCHOLO GY VII	185 4U AC O	1 . 7 5		1 . 7 5	1 . 7 5	1.7 5	1. 75	1.7 5	1.75											
	PRACTICAL S IN COGNITIVE PROCESSES VIII	185 5U AP T	1 . 5		1 . 5	1 . 5		1. 5	1.5												
	COUNSEL ING PSYCHOLO GY IX	185 6U AC P	2 . 2 5		2 . 2 5	2 . 2 5	2.2 5	2. 25	2.2 5	2.25											
VI (Psy)	PSYCHOLO GICAL TESTING AND STATISTICS IV	186 1U AT S	3		3	3		3	3												
	ABNORMA L PSYCHOLO GY V	186 2U AA S	2 . 7 5		2 . 7 5	2 . 7 5	2.7 5	2. 75	2.7 5	2.75											
	INDUSTRIA	186	3		3	3	3	3	3	3											



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L PSYCHOLO GY VI	3U AI P																
COGNITIVE PSYCHOLO GY VII	186 4U AC O	2 . 7 5		2 . 7 5	2 . 7 5	2.7 5	2. 75	2.7 5	2.75								
PRACTICAL S IN COGNITIVE PROCESSES VIII	186 5U AP T	2 . 5		2 . 5	2 . 5		2. 5	2.5									
COUNSELI NG PSYCHOLO GY IX	186 6U AC P	3		3	3	3	3	3	3								
	Av era ge	2 . 2 9	2 . 7 9	2 . 4 6	2 . 4 0	2.3 2	2. 33	2.4 6	2.44	1. 89	1. 89	1. 94	1. 94	2. 55	2. 71	2. 72	2. 42



From above graph, it is observed that average PO attainment value for all but four program outcomes and program specific outcome is greater than 2. It means, PO attainment by corresponding courses is at Very Good (value between 2 and 2.5) level. In fact in some cases it is at excellent level (value greater than 2.5).

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ANNEXTURE B
Bachelor of Commerce (Accounting and Finance) - B.Com. (Accounting and Finance) (BAF):

Table No. B.1: PO CO Mapping Matrix: B.Com. (Accounting and Finance) (BAF)
Academic Year - 2019-20

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	1611UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1916UAFIT	*	*	*	*		*
	FOUNDATION COURSE - I	1912UAFFC	*	*		*	*	
	BUSINESS ECONOMICS - I	1614UAFBE	*	*		*	*	
	COMMERCE (BUSINESS ENVIRONMENT) - I	1613UAFCO	*	*		*	*	*
	BUSINESS MATHEMATICS	1717UAFB M	*		*	*		*
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	1615UAFFA	*		*	*		*
II	BUSINESS COMMUNICATION - II	1621UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1922UAFIT	*	*	*	*		*
	FOUNDATION COURSE - II	1622UAFFC	*	*		*	*	
	AUDITING - I	1626UAFA	*	*	*	*	*	*



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	(INTRODUCTION AND PLANNING)	D						
	BUSINESS LAW - I	1623UAFBL	*	*	*	*	*	
	FINANCIAL MANAGEMENT - I	1724UAFFM	*	*	*	*		*
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFFA	*		*	*		*
III	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1736UAFIT	*	*	*	*		*
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1737UAFFC		*		*	*	*
	BUSINESS ECONOMICS - II	1735UAFE0	*	*		*	*	*
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	1733UAFA D	*	*	*	*	*	*
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1734UAFBL	*	*	*	*	*	
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	1732UAFFA	*		*	*		*
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING)	1931UAFFA	*		*	*		*



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	AREAS)							
IV	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1746UAFIT	*	*	*	*		*
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	1942UAFFC	*	*	*	*		*
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1742UAFM A	*		*	*	*	*
	TAXATION - II (INDIRECT TAXES - II)	1743UAFTX	*	*	*	*	*	*
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	1744UAFBL	*	*	*	*	*	
	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFR M	*	*		*	*	*
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	1741UAFFA	*		*	*		*
V	FINANCIAL ACCOUNTING - V	1855UAFFA 5	*		*	*		*
	FINANCIAL ACCOUNTING - VI	1856UAFFA 6	*		*	*		*
	FINANCIAL MANAGEMENT - II	1852UAFF M	*	*	*	*	*	*
	COST ACCOUNTING - III	1851UAFCA	*		*	*		*
	TAXATION - III	1855UAFTX	*	*	*	*	*	*



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	(DIRECT TAXES - I)							
	MANAGEMENT - II (MARKETING OF SERVICES)	1854UAFM A	*	*		*	*	*
VI	FINANCIAL ACCOUNTING - VII	1865UAFFA	*		*	*		*
	INTERNSHIP BASED PROJECT WORK	1962UAFIP	*	*	*	*	*	*
	ECONOMICS - III (INDIAN ECONOMY)	1864UAFEC	*	*		*	*	*
	COST ACCOUNTING - IV	1861UAFCA	*		*	*		*
	TAXATION- IV (DIRECT TAXES - II)	1965UAFTD	*	*	*	*	*	*
	INTERNATIONAL FINANCE	1966UAFIF	*	*	*	*		*

**Table No. B.2: CO Attainment Level - B.Com. (Accounting and Finance) (BAF)-
Academic Year 2019-20**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	1611UAFCB C	3.25	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1916UAFIT	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - I	1912UAFFC	3	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1614UAFCB E	2.5	2	Fully Attained	NA
	COMMERCE (BUSINESS ENVIRONMENT) - I	1613UAFCO	2.5	2	Fully Attained	NA
	BUSINESS	1717UAFCB	2.25	2	Fully Attained	NA



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	MATHEMATICS	M			Fully Attained	NA
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	1615UAFF A	2.25	2	Fully Attained	NA
II	BUSINESS COMMUNICATION - II	1621UAFB C	3.25	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1922UAFIT	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - II	1622UAFF C	3	2	Fully Attained	NA
	AUDITING - I (INTRODUCTION AND PLANNING)	1626UAFA D	3.25	2	Fully Attained	NA
	BUSINESS LAW - I	1623UAFB L	3	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - I	1724UAFF M	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFF A	2.25	2	Fully Attained	NA
III	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1736UAFIT	2.25	2	Fully Attained	NA
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1737UAFF C	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS - II	1735UAFE O	2.5	2	Fully Attained	NA



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	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	1733UAFA D	3	2	Fully Attained	NA
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1734UAFB L	2.5	2	Fully Attained	NA
	COST ACCOUNTING - I (INTRODUCTIO N AND ELEMENTS OF COST)	1732UAFC A	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	1931UAFF A	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
IV	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1746UAFIT	2.5	2	Fully Attained	NA
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	1942UAFF C	2.25	2	Fully Attained	NA
	MANAGEMENT ACCOUNTING (INTRODUCTIO N TO MANAGEMENT ACCOUNTING)	1742UAFM A	3	2	Fully Attained	NA
	TAXATION - II (INDIRECT TAXES - II)	1743UAFT X	3	2	Fully Attained	NA
	BUSINESS LAW - III (THE	1744UAFB L	3	2	Fully Attained	NA



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	COMPANIES ACT 2013)					
	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFR M	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	1741UAFF A	2.75	2	Fully Attained	NA
V	FINANCIAL ACCOUNTING - V	1855UAFF A5	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - VI	1856UAFF A6	3.25	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - II	1852UAFF M	2.75	2	Fully Attained	NA
	COST ACCOUNTING - III	1851UAFC A	2.25	2	Fully Attained	NA
	TAXATION - III (DIRECT TAXES - I)	1855UAFT X	2.5	2	Fully Attained	NA
	MANAGEMENT - II (MARKETING OF SERVICES)	1854UAFM A	2.5	2	Fully Attained	NA
VI	FINANCIAL ACCOUNTING - VII	1865UAFF A	4	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1962UAFIP	4	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY)	1864UAFC C	4	2	Fully Attained	NA
	COST ACCOUNTING - IV	1861UAFC A	2	2	Fully Attained	NA
	TAXATION- IV (DIRECT TAXES - II)	1965UAFT T	2.5	2	Fully Attained	NA



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	INTERNATIONAL FINANCE	1966UAFIF	3	2	Fully Attained	NA
		Average	2.81			

NA: Not Applicable as target level is fully attained

Table No.B.2a: PO Attainment Level- B.Com. (Accounting and Finance) (BAF):-
Academic Year 2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	4	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plan is required.

Table No. B.3: Results of CO-PO attainment- B.Com. (Accounting and Finance) (BAF):-
Academic Year 2019-20

Seme ster	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	1611UAFBC	3.25	3.25		3.25		3.25
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1916UAFIT	3.25	3.25	3.25	3.25		3.25
	FOUNDATION COURSE - I	1912UAFFC	3	3		3	3	
	BUSINESS ECONOMICS - I	1614UAFBE	2.5	2.5		2.5	2.5	
	COMMERCE (BUSINESS ENVIRONMENT) - I	1613UAFCO	2.5	2.5		2.5	2.5	2.5
	BUSINESS MATHEMATICS	1717UAFBM	2.25		2.25	2.25		2.25
	FINANCIAL	1615UAFFA	2.25		2.25	2.25		2.25



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	ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)							
II	BUSINESS COMMUNICATION - II	1621UAFBC	3.25	3.25		3.25		3.25
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1922UAFIT	3.25	3.25	3.25	3.25		3.25
	FOUNDATION COURSE - II	1622UAFFC	3	3		3	3	
	AUDITING - I (INTRODUCTION AND PLANNING)	1626UAFAD	3.25	3.25	3.25	3.25	3.25	3.25
	BUSINESS LAW - I	1623UAFBL	3	3	3	3	3	
	FINANCIAL MANAGEMENT - I	1724UAFFM	2.25	2.25	2.25	2.25		2.25
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFFA	2.25		2.25	2.25		2.25
III	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	1736UAFIT	2.25	2.25		2.25	2.25	
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1737UAFFC	2.25	2.25		2.25	2.25	2.25
	BUSINESS ECONOMICS - II	1735UAFEO	2.5	2.5	2.5	2.5	2.5	2.5
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	1733UAFAD	3	3	3	3	3	3
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1734UAFBL	2.5	2.5	2.5	2.5	2.5	



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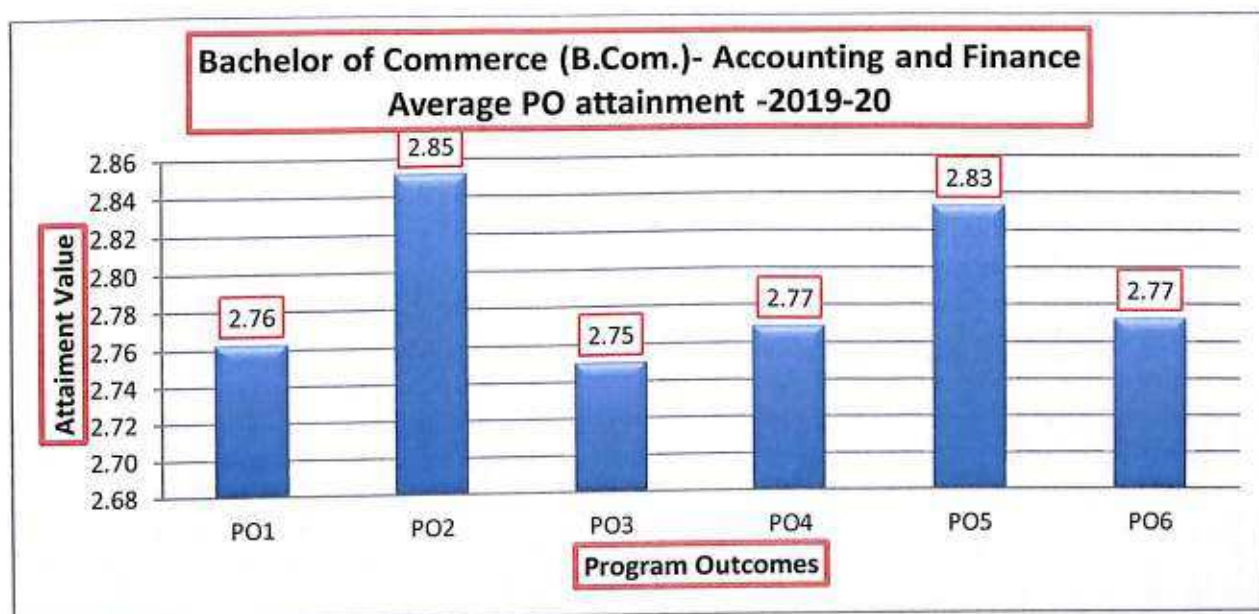
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	1732UAFCA	2.25		2.25	2.25		2.25
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	1931UAFFA	1.5		1.5	1.5		1.5
IV	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	1746UAFIT	2.5	2.5		2.5	2.5	2.5
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	1942UAFFC	2.25	2.25	2.25	2.25		2.25
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1742UAFM A	3		3	3	3	3
	TAXATION - II (INDIRECT TAXES - II)	1743UAFTX	3	3	3	3	3	3
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	1744UAFBL	3	3	3	3	3	
	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFRM			3	3		3
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	1741UAFFA	2.75		2.75	2.75		2.75
	FINANCIAL ACCOUNTING - V	1855UAFFA 5	3		3	3		3
V	FINANCIAL ACCOUNTING - VI	1856UAFFA 6	3.25		3.25	3.25		3.25
	FINANCIAL MANAGEMENT - II	1852UAFFM	2.75	2.75	2.75	2.75	2.75	2.75
	COST ACCOUNTING - III	1851UAFCA	2.25		2.25	2.25		2.25



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	TAXATION - III (DIRECT TAXES - I)	1855UAFTX	2.5	2.5	2.5	2.5	2.5	2.5
	MANAGEMENT - II (MARKETING OF SERVICES)	1854UAFM A	2.5	2.5		2.5	2.5	2.5
VI	FINANCIAL ACCOUNTING - VII	1865UAFFA	4		4	4		4
	INTERNSHIP BASED PROJECT WORK	1962UAFIP	4	4	4	4	4	4
	ECONOMICS - III (INDIAN ECONOMY)	1864UAFEC	4	4		4	4	4
	COST ACCOUNTING - IV	1861UAFCA	2		2	2		2
	TAXATION- IV (DIRECT TAXES - II)	1965UAFDT	2.5	2.5	2.5	2.5	2.5	2.5
	INTERNATIONAL FINANCE	1966UAFIF	3	3	3	3		3
	Average		2.76	2.85	2.75	2.77	2.83	2.77



From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).



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ANNEXTURE C

Bachelor of Multi Media & Mass Communication (BAMMC):

Table No. C.1: PO CO Mapping Matrix:

Bachelor of Multi Media & Mass Communication (BAMMC): Academic Year - 2019-20

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PS 1	PS 2	PS 3	PS 4	PS 5	PS 6	PS 1	PS 2	PS 3	PS 4	PS 5	PS 6
I	EFFECTIVE COMMUNICATION-I	1612UMMEC	*	*																
	MASS COMMUNICATION	1611UMMMC	*		*	*														
	INTRODUCTION TO ECONOMICS	1614UMMIE	*	*	*		*	*												
	INTRODUCTION TO SOCIOLOGY	1615UMMIS	*	*	*															
	LANDMARK EVENTS OF THE WORLD, INDIA AND MAHARASHTRA	1713UMMLE	*	*	*	*														
	INTRODUCTION TO COMPUTERS	1616UMMIC	*	*			*	*												
II	EFFECTIVE COMMUNICATION-II	1621UMMEC	*	*	*		*	*												
	POLITICAL CONCEPTS AND THE INDIAN POLITICAL SYSTEM	1622UMMPC	*	*	*	*	*	*												
	INTRODUCTION TO LITERATURE	1623UMMIL	*	*																
	PRINCIPLES OF MARKETING	1624UMMPMK	*	*	*	*	*	*												
	PRINCIPLES OF MANAGEMENT	1626UMMPMG	*					*												
	MEDIA PSYCHOLOGY	1625UMMPsy	*	*	*	*	*	*												
III	INTRODUCTION TO PUBLIC RELATIONS	1734UMMPR	*	*	*	*	*	*												
	MEDIA STUDIES	1731UMMMS	*	*	*	*	*	*												
	UNDERSTANDING CINEMA	1732UMMUC	*	*	*		*	*												
	INTRODUCTION TO CULTURAL STUDIES	1735UMMCS	*	*	*	*	*	*												
	CREATIVE WRITING	1733UMMCW	*	*	*	*	*	*												
	ADVANCED COMPUTERS	1736UMMAC	*	*	*	*	*	*												
IV	PHOTOGRAPHY AND PRINT PRODUCTION	1743UMMPPP	*	*	*		*	*												
	INTRODUCTION TO JOURNALISM	1741UMMIJ							*	*	*	*	*	*						
	INTRODUCTION TO ADVERTISING	1742UMMIA													*	*	*	*	*	*
	TV AND RADIO	1744UMMRTV	*	*	*		*	*												



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						s, tutorials, exercises and remedial coaching shall be planned.
	CREATIVE WRITING	1733UMMCW	2.25	2	Fully Attained	NA
	ADVANCED COMPUTERS	1736UMMAC	2.25	2	Fully Attained	NA
IV	PHOTOGRAPHY AND PRINT PRODUCTION	1743UMMPPP	2.5	2	Fully Attained	NA
	INTRODUCTION TO JOURNALISM	1741UMMIJ	2	2	Fully Attained	NA
	INTRODUCTION TO ADVERTISING	1742UMMIA	1	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	TV AND RADIO	1744UMMRTV	2.5	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	1746UMMOB	2.25	2	Fully Attained	NA
	MASS MEDIA RESEARCH	1745UMMMMR	2	2	Fully Attained	NA
V	NEWSPAPER AND MAGAZINE MAKING	18512UMNM	3.5	2	Fully Attained	NA
Jour	JOURNALISM AND PUBLIC OPINION	18510UMMJ	4	2	Fully Attained	NA
nal	INDIAN REGIONAL JOURNALISM	18511UMMIR	3	2	Fully Attained	NA
is	GLOBAL AND NEW MEDIA	19514UMMGNM	2.25	2	Fully Attained	NA
m	REPORTING	1857UMMRP	2.25	2	Not Attained	NA
	CROSS MEDIA WRITING AND EDITING-I	19513UMMCME	3.5	2	Fully Attained	NA
	BRAND BUILDING	1852UMMBB	3.25	2	Fully Attained	NA
V	ADVERTISING IN CONTEMPORARY SOCIETY	1853UMMAC	2	2	Fully Attained	NA
Adv	CONSUMER BEHAVIOUR	1854UMMCB	2.25	2	Fully Attained	NA
	MEDIA PLANNING AND BEHAVIOUR	1855UMMMP	2.5	2	Fully Attained	NA
	COPYWRITING	1856UMMCW	3.25	2	Fully Attained	NA
	ADVERTISING DESIGN	1856UMMAD	2.25	2	Fully Attained	NA
VI	CONTEMPORARY ISSUES	1961UMMCI	2.25	2	Fully Attained	NA
Jour	PRESS LAWS AND ETHICS	1868UMMPLE	3	2	Fully Attained	NA
nal	BUSINESS AND MAGAZINE JOURNALISM	18610UMMBMJ	1.25	2	Not Attained	Assignment s, tutorials, exercises and remedial



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						coaching shall be planned.
	NEWS MEDIA MANAGEMENT	1861UMMNMM	3.75	2	Fully Attained	NA
	BROADCAST JOURNALISM	1869UMMBJ	2.25	2	Fully Attained	NA
	CROSS MEDIA WRITING AND EDITING-II	19613UMMCME	2.25	2	Fully Attained	NA
	DIGITAL MEDIA	1862UMMDIM	3.75	2	Fully Attained	NA
	CONTEMPORARY ISSUES	1961UMMCI	2.25	2	Fully Attained	NA
VI Advt	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1867UMMLE	3	2	Fully Attained	NA
	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1863UMMFM	2.5	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1864UMMDM	2.5	2	Fully Attained	NA
	AGENCY MANAGEMENT	1865UMMAM	2.25	2	Fully Attained	NA
	DIGITAL MEDIA	1862UMMDIM	3.75	2	Fully Attained	NA
		Average	2.52			

NA: Not Applicable as target level is fully attained.

**Table No. C.2a: PO Attainment Level-
Bachelor of Multi Media & Mass Communication (BAMMC): 2019-20**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	4	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level 4. Hence at present no plans are required.

Table No. C.3: Results of CO-PO attainment- Bachelor of Multi Media & Mass Communication (BAMMC)- Academic Year 2019-20

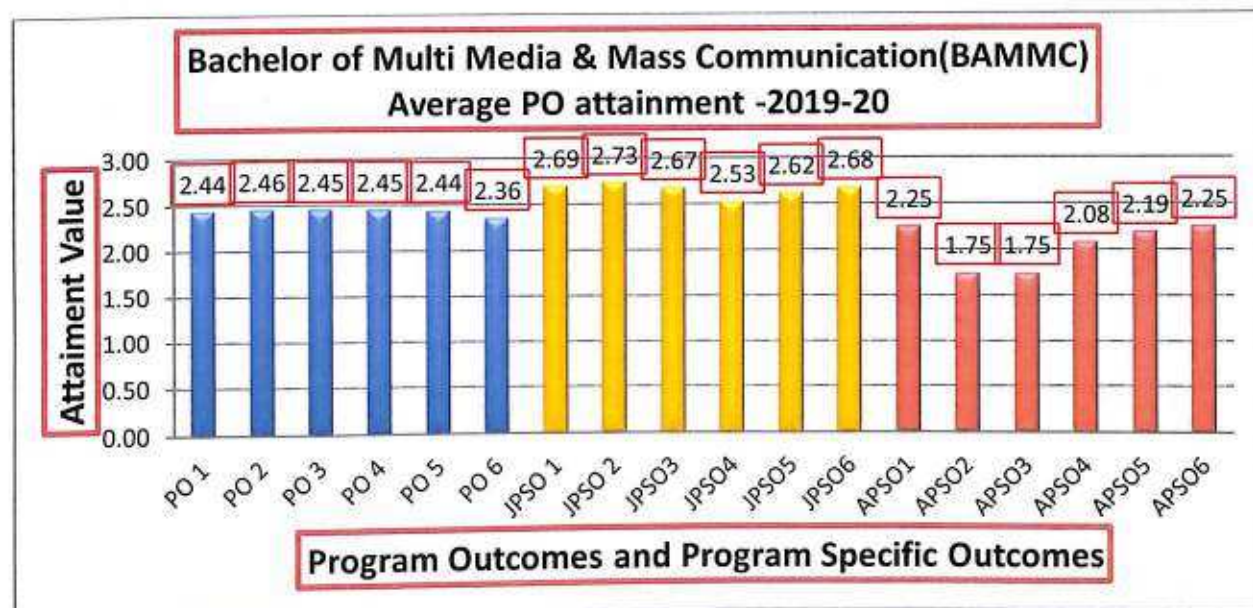
Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PS 1	PS 2	PS 3	PS 4	PS 5	PS 6	PS 7	PS 8	PS 9	PS 10	PS 11	PS 12


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tising	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1867UM MLE														3			3	3	3
	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1863UM MFM														2.5					2.5
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1864UM MDM														2.5	2.5	2.5		2.5	2.5
	AGENCY MANAGEMENT	1865UM MAM														2.25			2.25	2.25	2.25
	DIGITAL MEDIA	1862UM MDIM	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75						
	Average		2.44	2.46	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.68	2.68	2.25	1.75	1.75	2.08



From above graph, it is observed that average PO attainment value for all but two program outcomes and program specific outcomes is greater than 2. It means, PO attainment by corresponding courses is at Very Good (value between 2 and 2.5) level. In fact in some cases it is at excellent level (value greater than 2.5).



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ANNEXTURE D

Bachelor of Commerce (Banking and Insurance) –

B.Com. (Banking and Insurance) (BBI):

Table No. D.1: PO CO Mapping Matrix: B.Com. (Banking and Insurance) (BBI)
Academic Year - 2019-20

Sem ester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	1611UBIBC	*	*			*	*
	PRINCIPLES OF MANAGEMENT	1614UBIPM	*	*	*			*
	FOUNDATION COURSE - I	1612UBIFC	*	*			*	*
	BUSINESS ECONOMICS - I	1613UBIBE	*	*	*			*
	FINANCIAL ACCOUNTING - I	1616UBIFA	*		*	*		*
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIEM	*	*			*	
	QUANTITATIVE METHODS - I	1617UBIQM	*		*	*		*
II	BUSINESS COMMUNICATION- II	1621UBIBC	*	*				*
	ORGANISATIONAL BEHAVIOUR	1623UBIOB	*	*			*	*
	FOUNDATION COURSE- II	1622UBIFC	*	*			*	*
	BUSINESS LAW	1624UBIBL	*		*		*	
	FINANCIAL ACCOUNTING - II	1626UBIFA	*		*	*		*
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPP	*	*				*
	QUANTITATIVE METHODS -II	1627UBIQM	*		*	*		*
III	FINANCIAL MARKETS	1731UBIFM	*			*		*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	1732UBIIT	*	*	*			*
	FINANCIAL	1733UBIFT	*		*	*		*



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	MANAGEMENT - I							
	MANAGEMENT ACCOUNTING	1734UBIMA	*		*			*
	DIRECT TAXATION	1735UBIDT	*		*			*
	RISK MANAGEMENT	1936UBIRM	*		*	*		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1737UBIFC	*	*			*	*
IV	CORPORATE AND SECURITIES LAW	1744UBICL	*		*			*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	*	*		*		*
	FINANCIAL MANAGEMENT -II	1742UBIFM	*		*	*		*
	COST ACCOUNTING	1743UBICA	*		*	*		
	BUSINESS ECONOMICS -II	1741UBIBE	*	*				*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1946UBICG	*	*			*	*
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	1747UBIFC	*	*			*	*
V	INTERNATIONAL BANKING AND FINANCE	1855UBIIB	*	*				*
	RESEARCH METHODOLOGY	1856UBIRM	*		*	*		*
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1854UBIAA	*		*	*		
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFR A	*		*		*	*
	AUDITING - I	1852UBIAU	*	*			*	
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	*	*				*
	TURNAROUND MANAGEMENT	1863UBITM	*		*			*



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VI	INTERNSHIP BASED PROJECT WORK	1866UBIPW	*	*		*		*
	MARKETING IN BANKING AND INSURANCE	1864UBIMBI	*	*				*
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1861UBISA	*		*	*		*
	AUDITING- II	1862UBIAD	*	*	*		*	
	BANKING ASPECTS IN BUSINESS	1966UBIBA	*	*				*

**Table No. D.2: CO Attainment Level: Bachelor of Commerce (Banking and Insurance)-BBI
Academic Year - 2019-20**

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	1611UBIBC	2.25	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1614UBIPM	3.75	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UBIFC	3	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1613UBIBE	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I	1616UBIFA	3.75	2	Fully Attained	NA
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIEM	3	2	Fully Attained	NA
	QUANTITATIVE METHODS - I	1617UBIQM	2.25	2	Fully Attained	NA
II	BUSINESS COMMUNICATION - II	1621UBIBC	2.75	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	1623UBIOB	3	2	Fully Attained	NA
	FOUNDATION COURSE- II	1622UBIFC	3.25	2	Fully Attained	NA
	BUSINESS LAW	1624UBIBL	2.5	2	Fully Attained	NA



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	FINANCIAL ACCOUNTING - II	1626UBIFA	2	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPP	3.25	2	Fully Attained	NA
	QUANTITATIVE METHODS -II	1627UBIQM	3	2	Fully Attained	NA
III	FINANCIAL MARKETS	1731UBIFM	2.5	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	1732UBIIT	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL MANAGEMENT - I	1733UBIFT	1.75	2	Not Attained	
	MANAGEMENT ACCOUNTING	1734UBIMA	2.25	2	Fully Attained	NA
	DIRECT TAXATION	1735UBIDT	2	2	Fully Attained	NA
	RISK MANAGEMENT	1936UBIRM	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1737UBIFC	2.25	2	Fully Attained	NA
IV	CORPORATE AND SECURITIES LAW	1744UBICL	2.5	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	3	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - II	1742UBIFM	2.25	2	Fully Attained	NA
	COST ACCOUNTING	1743UBICA	3	2	Fully Attained	NA
	BUSINESS ECONOMICS -II	1741UBIBE	3	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1946UBICG	3.25	2	Fully Attained	NA
	FOUNDATION COURSE -IV (INTRODUCTION	1747UBIFC	2.25	2	Fully Attained	NA



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	TO INTERNATIONAL BUSINESS)					
V	INTERNATIONAL BANKING AND FINANCE	1855UBIIB	3.25	2	Fully Attained	NA
	RESEARCH METHODOLOGY	1856UBIRM	2.5	2	Fully Attained	NA
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1854UBIAA	3	2	Fully Attained	NA
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFR A	2.25	2	Fully Attained	NA
	AUDITING - I	1852UBIAU	2.5	2	Fully Attained	NA
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	2.5	2	Fully Attained	NA
VI	TURNAROUND MANAGEMENT	1863UBITM	2.5	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1866UBIPW	3.25	2	Fully Attained	NA
	MARKETING IN BANKING AND INSURANCE	1864UBIMB I	2.5	2	Fully Attained	NA
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1861UBISA	3	2	Fully Attained	NA
	AUDITING- II	1862UBIAD	2.25	2	Fully Attained	NA
	BANKING ASPECTS IN BUSINESS	1966UBIBA	3.25	2	Fully Attained	NA
		Average	2.66			
NA: Not Applicable as target level is fully attained.						

Table No.D.2a: PO Attainment Level-B.Com(Banking and Insurance)-BBI-2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA



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NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than target level-4. Hence at present no plans are required.

**Table No. D.3: Results of CO-PO attainment-
Bachelor of Commerce (Banking and Insurance) (BBI)-Academic Year 2019-20**

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	1611UBIBC	2.25	2.25			2.25	2.25
	PRINCIPLES OF MANAGEMENT	1614UBIPM	3.75	3.75	3.75			3.75
	FOUNDATION COURSE - I	1612UBIFC	3	3			3	3
	BUSINESS ECONOMICS - I	1613UBIBE	2.25	2.25	2.25			2.25
	FINANCIAL ACCOUNTING - I	1616UBIFA	3.75		3.75	3.75		3.75
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIEM	3	3			3	
	QUANTITATIVE METHODS - I	1617UBIQM	2.25		2.25	2.25		2.25
II	BUSINESS COMMUNICATION - II	1621UBIBC	2.75	2.75				2.75
	ORGANISATIONAL BEHAVIOUR	1623UBIOB	3	3			3	3
	FOUNDATION COURSE - II	1622UBIFC	3.25	3.25			3.25	3.25
	BUSINESS LAW	1624UBIBL	2.5		2.5		2.5	
	FINANCIAL ACCOUNTING - II	1626UBIFA	2		2	2		2
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPP	3.25	3.25				3.25


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	QUANTITATIVE METHODS -II	1627UBIQ M	3		3	3		3
III	FINANCIAL MARKETS	1731UBIF M	2.5			2.5		2.5
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	1732UBIIT	1.25	1.25	1.25			1.25
	FINANCIAL MANAGEMENT - I	1733UBIFT	1.75		1.75	1.75		1.75
	MANAGEMENT ACCOUNTING	1734UBIM A	2.25		2.25			2.25
	DIRECT TAXATION	1735UBIDT	2		2			2
	RISK MANAGEMENT	1936UBIR M	2.25		2.25	2.25		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1737UBIFC	2.25	2.25			2.25	2.25
IV	CORPORATE AND SECURITIES LAW	1744UBICL	2.5		2.5			2.5
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	3	3		3		3
	FINANCIAL MANAGEMENT - II	1742UBIF M	2.25		2.25	2.25		2.25
	COST ACCOUNTING	1743UBICA	3		3	3		
	BUSINESS ECONOMICS -II	1741UBIBE	3	3				3
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1946UBICG	3.25	3.25			3.25	3.25
	FOUNDATION COURSE -IV (INTRODUCTION TO	1747UBIFC	2.25	2.25			2.25	2.25



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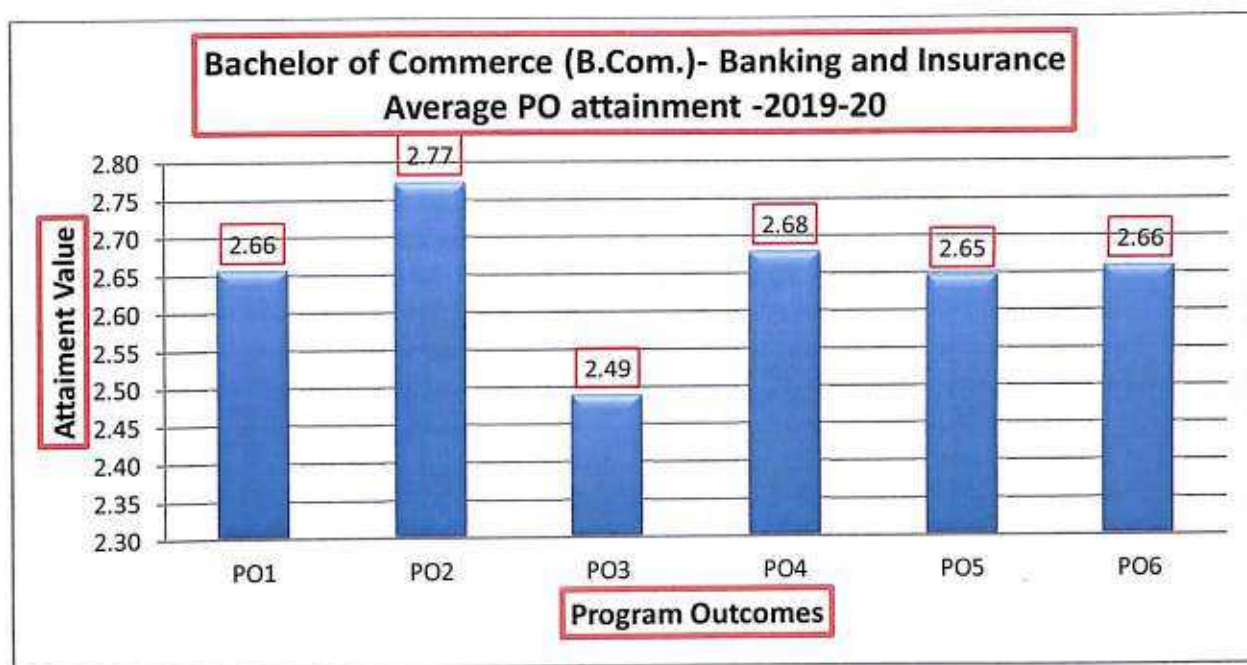
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	INTERNATIONAL BUSINESS)							
	INTERNATIONAL BANKING AND FINANCE	1855UBIIB						
V	RESEARCH METHODOLOGY	1856UBIRM	3.25	3.25				3.25
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1854UBIAA	2.5		2.5	2.5		2.5
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFRA	3		3	3		
	AUDITING - I	1852UBIAU	2.25		2.25		2.25	2.25
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	2.5	2.5			2.5	
			2.5	2.5				2.5
	TURNAROUND MANAGEMENT	1863UBITM						
VI	INTERNSHIP BASED PROJECT WORK	1866UBIPW	2.5		2.5			2.5
	MARKETING IN BANKING AND INSURANCE	1864UBIMBI	3.25	3.25		3.25		3.25
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1861UBISA	2.5	2.5				2.5
	AUDITING- II	1862UBIAD	3		3	3		3
	BANKING ASPECTS IN BUSINESS	1966UBIBA	2.25	2.25	2.25		2.25	
	BUSINESS COMMUNICATION - I	1611UBIBC	3.25	3.25				3.25
		Average	2.66	2.77	2.49	2.68	2.65	2.66



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From above graph, it is observed that average PO attainment value for all but one program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).

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ANNEXTURE E

Bachelor of Commerce (Financial Markets) –

B.Com. (Financial Markets) (BFM):

Table No. E.1: PO CO Mapping Matrix: B.Com. (Financial Markets) (BFM)

Academic Year - 2019-20

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION -I	1611UFMBC	*	*	*	*		*
	BUSINESS ENVIRONMENT	1613UFMBV	*	*			*	*
	FOUNDATION COURSE – I	1612UFMFC		*	*		*	
	BUSINESS ECONOMICS-I	1614UFMBE	*	*	*	*		*
	FINANCIAL ACCOUNTING- I	1615UFMFA	*	*	*	*		*
	INTRODUCTION TO FINANCIAL SYSTEM	1616UFMFS	*	*				*
	BUSINESS MATHEMATICS	1617UFMBM	*	*	*	*		*
II	BUSINESS COMMUNICATION -II	1621UFMBC	*	*	*	*		*
	ACCOUNTING IN CORPORATE ENVIRONMENT	1723UFMAC	*	*	*	*		*
	FOUNDATION COURSE – II	1622UFMFC		*	*	*	*	
	COMPUTER SKILLS-I	1624UFMCS	*	*		*	*	*
	FINANCIAL ACCOUNTING- II	1625UFMFA	*	*	*	*		*
	PRINCIPLES OF MANAGEMENT	1626UFMPMG	*	*	*	*	*	*
	BUSINESS STATISTICS	1627UFMBS	*	*	*	*		*
III	MANAGEMENT ACCOUNTING	1735UFMMA	*	*	*	*		*
	FOUNDATION COURSE IN	1734UFMMM	*	*	*	*		*



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	FINANCIAL MARKETS							
	DEBT MARKET-I	1731UFMDM	*	*	*	*		*
	EQUITY MARKET-I	1732UFMEM	*	*	*	*		*
	COMMODITY MARKET	1733UFMCM	*	*	*	*		*
	COMPUTER SKILLS-II	1737UFMCS	*	*	*	*		*
	BUSINESS LAW-I	1736UFMBL	*	*	*	*	*	*
IV	CORPORATE FINANCE	1745UFMCF	*	*	*	*		*
	FOUNDATION COURSE – IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	*	*	*	*		*
	DEBT MARKET-II	1741UFMDM	*	*	*	*		*
	EQUITY MARKET - II	1742UFMEM	*	*	*	*		*
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	*	*	*	*		*
	BUSINESS ECONOMICS-II	1747UFMBE	*	*	*	*		*
	BUSINESS LAW-II	1746UFMBL	*	*	*	*	*	*
V	FINANCIAL DERIVATIVES	1855UFMFD	*	*	*	*		*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	*	*			*	*
	CORPORATE ACCOUNTING	1852UFMCA	*	*	*	*		*
	EQUITY RESEARCH	1853UFMER	*	*	*	*		*
	DIRECT TAX - INCOME TAX	1854UFMDT	*	*	*	*	*	*
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	*	*	*	*		*
VI	RISK MANAGEMENT	1865UFMRM	*	*	*	*		*
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	*	*	*	*	*	*



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	VENTURE CAPITAL AND PRIVATE EQUITY	1861UFMVE	*	*	*	*		*
	STRATEGIC CORPORATE FINANCE	1863UFMCF	*	*	*	*		*
	INDIRECT TAX-GST	1845UFMIT	*	*	*	*	*	*
	ORGANIZATIONAL BEHAVIOUR	1962UFMOB	*	*	*		*	*

**Table No. E.2: CO Attainment Level: Bachelor of Commerce (Financial Markets)-BFM
Academic Year - 2019-20**

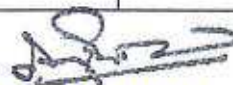
Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION-I	1611UFMBC	2.75	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	1613UFMBV	2	2	Fully Attained	NA
	FOUNDATION COURSE – I	1612UFMFC	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS-I	1614UFMBE	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I	1615UFMFA	2.75	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL SYSTEM	1616UFMFS	2.5	2	Fully Attained	NA
	BUSINESS MATHEMATICS	1617UFMBM	2.25	2	Fully Attained	NA
II	BUSINESS COMMUNICATION-II	1621UFMBC	2.25	2	Fully Attained	NA
	ACCOUNTING IN CORPORATE ENVIRONMENT	1723UFMAC	2	2	Fully Attained	NA
	FOUNDATION COURSE – II	1622UFMFC	2.5	2	Fully Attained	NA
	COMPUTER SKILLS-I	1624UFMCS	2.25	2	Fully Attained	NA



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	FINANCIAL ACCOUNTING - II	1625UFMFA	2.5	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1626UFMPMG	2	2	Fully Attained	NA
	BUSINESS STATISTICS	1627UFMBS	2	2	Fully Attained	NA
III	MANAGEMENT ACCOUNTING	1735UFMMA	3.25	2	Fully Attained	NA
	FOUNDATION COURSE IN FINANCIAL MARKETS	1734UFMMM	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DEBT MARKET-I	1731UFMDM	2.5	2	Fully Attained	NA
	EQUITY MARKET-I	1732UFMEM	2.25	2	Fully Attained	NA
	COMMODITY MARKET	1733UFMCM	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMPUTER SKILLS-II	1737UFMCS	1.75	2	Not Attained	
	BUSINESS LAW-I	1736UFMBL	2.5	2	Fully Attained	NA
IV	CORPORATE FINANCE	1745UFMCF	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	2.25	2	Fully Attained	NA
	DEBT MARKET-II	1741UFMDM	2.5	2	Fully Attained	NA
	EQUITY MARKET - II	1742UFMEM	3.25	2	Fully Attained	NA
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	2.5	2	Fully Attained	NA
	BUSINESS ECONOMICS-II	1747UFMBE	2.5	2	Fully Attained	NA



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	BUSINESS LAW-II	1746UFMBL	3.25	2	Fully Attained	NA
V	FINANCIAL DERIVATIVES	1855UFMFD	3.25	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	2.5	2	Fully Attained	NA
	CORPORATE ACCOUNTING	1852UFMCA	2.5	2	Fully Attained	NA
	EQUITY RESEARCH	1853UFMER	2	2	Fully Attained	NA
	DIRECT TAX - INCOME TAX	1854UFMDT	2	2	Fully Attained	NA
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	2.5	2	Fully Attained	NA
VI	RISK MANAGEMENT	1865UFMRM	2.5	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	3.25	2	Fully Attained	NA
	VENTURE CAPITAL AND PRIVATE EQUITY	1861UFMVE	3.25	2	Fully Attained	NA
	STRATEGIC CORPORATE FINANCE	1863UFMCF	2.5	2	Fully Attained	NA
	INDIRECT TAX-GST	1845UFMIT	2.25	2	Fully Attained	NA
	ORGANIZATIONAL BEHAVIOUR	1962UFMOB	2	2	Fully Attained	NA
		Average	2.42			
NA: Not Applicable as target level is fully attained						

Table No.E.2a: PO Attainment Level- Bachelor of Financial Markets – BFM- 2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained				


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9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.

**Table No. E.3: Results of CO-PO attainment- Bachelor of Financial Markets (BFM)-
Academic Year 2019-20**

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION-I	1611UFMBC	2.75	2.75	2.75	2.75		2.75
	BUSINESS ENVIRONMENT	1613UFMBV	2	2			2	2
	FOUNDATION COURSE – I	1612UFMFC		2.25	2.25		2.25	
	BUSINESS ECONOMICS-I	1614UFMBE	2.25	2.25	2.25	2.25		2.25
	FINANCIAL ACCOUNTING- I	1615UFMFA	2.75	2.75	2.75	2.75		2.75
	INTRODUCTION TO FINANCIAL SYSTEM	1616UFMFS	2.5	2.5				2.5
	BUSINESS MATHEMATICS	1617UFMBM	2.25	2.25	2.25	2.25		2.25
II	BUSINESS COMMUNICATION-II	1621UFMBC	2.25	2.25	2.25	2.25		2.25
	ACCOUNTING IN CORPORATE ENVIRONMENT	1723UFMAC	2	2	2	2		2
	FOUNDATION COURSE – II	1622UFMFC		2.5	2.5	2.5	2.5	
	COMPUTER SKILLS-I	1624UFMCS	2.25	2.25		2.25	2.25	2.25
	FINANCIAL ACCOUNTING- II	1625UFMFA	2.5	2.5	2.5	2.5		2.5
	PRINCIPLES OF MANAGEMENT	1626UFMPMG	2	2	2	2	2	2
	BUSINESS STATISTICS	1627UFMBS	2	2	2	2		2
III	MANAGEMENT ACCOUNTING	1735UFMMA	3.25	3.25	3.25	3.25		3.25


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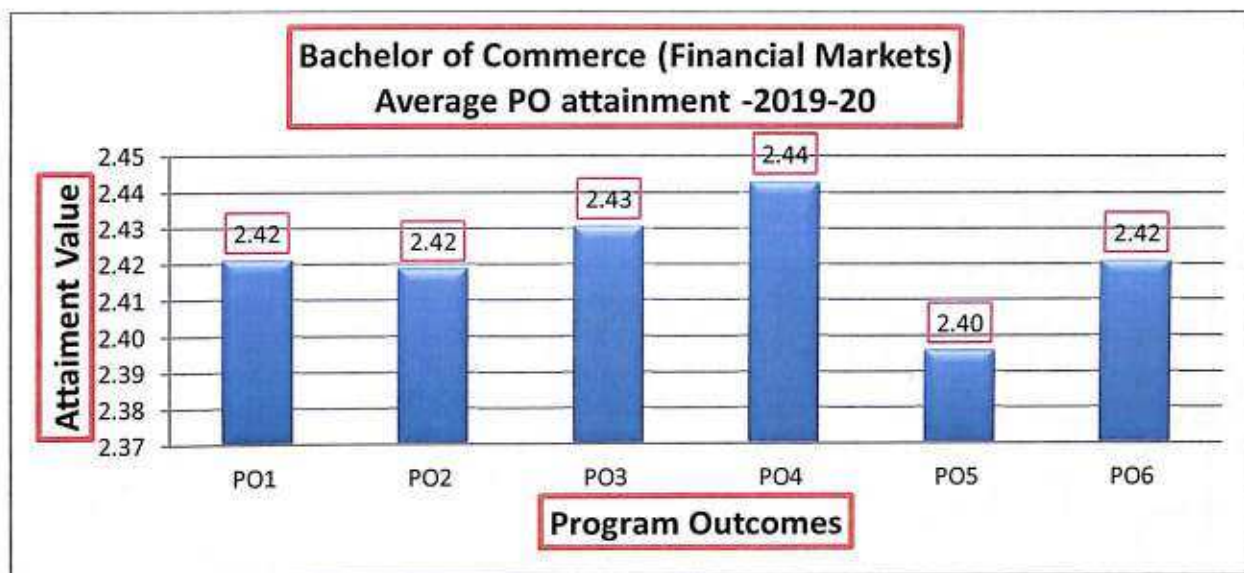
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	FOUNDATION COURSE IN FINANCIAL MARKETS	1734UFMMM	1.5	1.5	1.5	1.5		1.5
	DEBT MARKET-I	1731UFMDM	2.5	2.5	2.5	2.5		2.5
	EQUITY MARKET-I	1732UFMEM	2.25	2.25	2.25	2.25		2.25
	COMMODITY MARKET	1733UFMCM	1.75	1.75	1.75	1.75		1.75
	COMPUTER SKILLS-II	1737UFMCS	1.75	1.75	1.75	1.75		1.75
	BUSINESS LAW-I	1736UFMBL	2.5	2.5	2.5	2.5	2.5	2.5
IV	CORPORATE FINANCE	1745UFMCF	2.25	2.25	2.25	2.25		2.25
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	2.25	2.25	2.25	2.25		2.25
	DEBT MARKET-II	1741UFMDM	2.5	2.5	2.5	2.5		2.5
	EQUITY MARKET - II	1742UFMEM	3.25	3.25	3.25	3.25		3.25
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	2.5	2.5	2.5	2.5		2.5
	BUSINESS ECONOMICS-II	1747UFMBE	2.5	2.5	2.5	2.5		2.5
	BUSINESS LAW-II	1746UFMBL	3.25	3.25	3.25	3.25	3.25	3.25
V	FINANCIAL DERIVATIVES	1855UFMFD	3.25	3.25	3.25	3.25		3.25
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	2.5	2.5			2.5	2.5
	CORPORATE ACCOUNTING	1852UFMCA	2.5	2.5	2.5	2.5		2.5
	EQUITY RESEARCH	1853UFMER	2	2	2	2		2
	DIRECT TAX - INCOME TAX	1854UFMDT	2	2	2	2	2	2
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	2.5	2.5	2.5	2.5		2.5
VI	RISK MANAGEMENT	1865UFMRM	2.5	2.5	2.5	2.5		2.5
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	3.25	3.25	3.25	3.25	3.25	3.25
	VENTURE CAPITAL AND PRIVATE EQUITY	1861UFMVE	3.25	3.25	3.25	3.25		3.25
	STRATEGIC CORPORATE FINANCE	1863UFMCF	2.5	2.5	2.5	2.5		2.5
	INDIRECT TAX-GST	1845UFMIT	2.25	2.25	2.25	2.25	2.25	2.25
	ORGANIZATIONAL BEHAVIOUR	1962UFMOB	2	2	2		2	2
	Average		2.42	2.42	2.43	2.44	2.40	2.42



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From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2. It means, PO attainment by corresponding courses is at very good level (value between 2.0 and 2.5).

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ANNEXTURE F

Bachelor of Management Studies (BMS):

**Table No. E.1: PO CO Mapping Matrix: Bachelor of Management Studies (BMS):
Academic Year - 2019-20**

sem este r	Course	Cours e Code	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	Finance Elective				Marketing Elective			
									PSO 1	PS O2	PS O3	PSO 4	PSO5	PSO 6	PSO 7	PSO 8
	BUSINESS COMMUNICATION – I	1611U MSBC	*	*	*			*								
I	FOUNDATION COURSE – I	1612U MSFC	*	*												
	FOUNDATION OF HUMAN SKILLS	1613U MSHS	*		*	*	*									
	BUSINESS LAW	1616U MSBL	*		*		*									
	BUSINESS STATISTICS	1617U MSBS	*	*			*	*								
	INTRODUCTION TO FINANCIAL ACCOUNTS	1615U MSFA	*	*		*		*								
	PRINCIPLES OF MANAGEMENT	1714U MSP M	*	*	*	*		*								
II	BUSINESS COMMUNICATION-II	1621U MSBC	*	*	*			*								
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622U MSFC	*	*	*	*										
	BUSINESS ENVIRONMENT	1623U MSBE	*	*			*	*								
	BUSINESS MATHEMATICS	1627U MSB M	*	*			*	*								
	INDUSTRIAL LAW	1626U MSIL	*		*		*									
	PRINCIPLES OF MARKETING	1625U MSP MK	*	*	*	*	*	*								



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	MANAGERS																		
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853U MSIA							*	*	*	*							
	COMMODITY AND DERIVATIVES MARKET	1854U MSCD							*	*	*	*							
	WEALTH MANAGEMENT	1855U MSWM							*	*	*	*							
	DIRECT TAXES	1856U MSDT							*	*	*	*							
	FA	1953U MSFA							*	*	*	*							
	RM	1953U MSR M							*	*		*							
	SERVICE MARKETING	1857U MSSM											*	*	*	*			
	E-COMMERCE AND DIGITAL MARKETING	1858U MSEC											*	*			*		
	SALES AND DISTRIBUTION MANAGEMENT	1859U MSSD											*	*	*	*			
	CUSTOMER RELATIONSHIP MANAGEMENT	19510 UMSCR											*	*	*	*			
	IM	1954U MSIM											*	*			*		
	SMM	1954U MSS MM											*	*	*	*			
VI	OPERATION RESEARCH	1861U MSOR	*	*	*		*	*											
	RESEARCH BASED PROJECT WORK	1862U MSPW	*	*	*	*	*	*											
	INTERNATIONAL FINANCE	1863U MSIF							*	*	*	*							
	INNOVATIVE FINANCIAL SERVICES	1864U MSIFM							*	*		*							
	PROJECT MANAGEMENT	1865U MSPM							*	*	*	*							

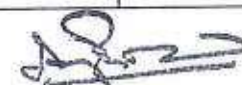

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II	BUSINESS COMMUNICATION-II	1621UMSB C	3	2	Fully Attained	NA
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622UMSFC	2.25	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	1623UMSBE	2.25	2	Fully Attained	NA
	BUSINESS MATHEMATICS	1627UMSB M	3	2	Fully Attained	NA
	INDUSTRIAL LAW	1626UMSIL	3.25	2	Fully Attained	NA
	PRINCIPLES OF MARKETING	1625UMSP MK	3	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1724UMSEC O	3	2	Fully Attained	NA
III	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - I	1731UMSIT	3.25	2	Fully Attained	NA
	PERSONAL EFFECTIVENESS MANAGEMENT	1832UMPE M	2.25	2	Fully Attained	NA
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1733UMSBP E	3.25	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	1734UMSA MD	2.25	2	Fully Attained	NA
	STRATEGIC MANAGEMENT	1735UMSS M	2.25	2	Fully Attained	NA
	CORPORATE FINANCE	1736UMSCF	2.5	2	Fully Attained	NA
	EQUITY AND DEBT MARKET	1937UMSE DM	2.25	2	Fully Attained	NA
	BASICS OF FINANCIAL SERVICES	1836UMSBF S	NA	2	NA	NA
	ICA	1936UMSIC	NA	2	NA	NA


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		A				
	CONSUMER BEHAVIOUR	1738UMSC B	2.5	2	Fully Attained	NA
	PRODUCT INNOVATIONS MANAGEMENT	1739UMSPI M	2.25	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	1937UMSA D	NA	2	NA	NA
	STRATEGIC MANAGEMENT	1937UMSS M	NA	2	NA	NA
IV	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - II	1741UMSIT B	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS- II	1742UMSBE	3.25	2	Fully Attained	NA
	BUSINESS RESEARCH METHODS	1743UMSB RM	3.25	2	Fully Attained	NA
	CHANGE MANAGEMENT	1844UMCM	3.25	2	Fully Attained	NA
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1745UMSPQ M	2.25	2	Fully Attained	NA
	CORPORATE RESTRUCTURING	1746UMSC RS	3	2	Fully Attained	NA
	STRATEGIC COST MANAGEMENT SCM	1747UMSSC M	2	2	Fully Attained	NA
	FIM	1946UMSFI M	NA	2	NA	NA
	AU	1946UMSA	NA	2	NA	NA
	INTEGRATED MARKETING COMMUNICATION	1748UMSIM C	2.25	2	Fully Attained	NA
	EVENT MARKETING	1749UMSE M	2.25	2	Fully Attained	NA
	RM	1947UMSR M	NA	2	NA	NA
	TM	1947UMST M	NA	2	NA	NA
V	LOGISTICS AND SUPPLY	1851UMSLS	3.25	2	Fully Attained	NA



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	CHAIN MANAGEMENT					
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSAS	2	2	Fully Attained	NA
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIA	1.25	2	Not Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	COMMODITY AND DERIVATIVES MARKET	1854UMSC D	3	2	Fully Attained	NA
	WEALTH MANAGEMENT	1855UMSW M	3.25	2	Fully Attained	NA
	DIRECT TAXES	1856UMSD T	2.5	2	Fully Attained	NA
	FA	1953UMSFA	NA	2	NA	NA
	RM	1953UMSR M	NA	2	NA	NA
	SERVICE MARKETING	1857UMSS M	2.75	2	Fully Attained	NA
	E-COMMERCE AND DIGITAL MARKETING	1858UMSEC	2	2	Fully Attained	NA
	SALES AND DISTRIBUTION MANAGEMENT	1859UMSSD	2.25	2	Fully Attained	NA
	CUSTOMER RELATIONSHIP MANAGEMENT	19510UMSC R	2.5	2	Fully Attained	NA
	IM	1954UMSIM	NA	2	NA	NA
	SMM	1954UMSS MM	NA	2	NA	NA
VI	OPERATION RESEARCH	1861UMSO R	3.75	2	Fully Attained	NA
	RESEARCH BASED PROJECT WORK	1862UMSP W	2.25	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1863UMSIF	3	2	Fully Attained	NA
	INNOVATIVE FINANCIAL SERVICES	1864UMSIF M	3	2	Fully Attained	NA
	PROJECT	1865UMSP	2.75	2	Fully Attained	NA



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	MANAGEMENT	M				
	INDIRECT TAXES	1866UMSINT	3.75	2	Fully Attained	NA
	SFM	1963UMSSF	NA	2	NA	NA
	FRD	1963UMSFRD	NA	2	NA	NA
	BRAND MANAGEMENT	1867UMSB	3	2	Fully Attained	NA
	RETAIL MANAGEMENT	1862UMSR	2.25	2	Fully Attained	NA
	SPORTS MARKETING	1969UMSS	3	2	Fully Attained	NA
	MEDIA PLANNING AND MANAGEMENT	18610UMS	2.75	2	Fully Attained	NA
	INTERNATIONAL MARKETING	1869UMSIM	NA	2	NA	NA
	MNO	196UMSMNO	NA	2	NA	NA
		Average	2.65			
NA: Not Applicable as target level is fully attained. Also in some cases course is offered by institution but not opted by students.						

Table No.E.2a: PO Attainment Level- Bachelor of Management Studies (BMS)-2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained				

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than target level-4. Hence at present no plans are required.



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**Table No. E.3: Results of CO-PO attainment- Bachelor of Management Studies (BMS)-
Academic Year 2019-20**

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Finance Elective				Marketing Elective			
									PS O1	PS O2	PS O3	PS O4	PSO 5	PSO 6	PSO 7	PSO 8
I	BUSINESS COMMUNICATION - I	1611 UMS BC	2 2 5	2 2 5	2 25			2 25								
	FOUNDATION COURSE - I	1612 UMS FC	2 2 5	2 2 5												
	FOUNDATION OF HUMAN SKILLS	1613 UMS HS	2 5		2 5	2 5	2 5									
	BUSINESS LAW	1616 UMS BL	3		3		3									
	BUSINESS STATISTICS	1617 UMS BS	2 2 5	2 2 5			2 25	2 25								
	INTRODUCTION TO FINANCIAL ACCOUNTS	1615 UMS FA	2 2 5	2 2 5		2 25		2 25								
	PRINCIPLES OF MANAGEMENT	1714 UMS PM	2 7 5	2 7 5	2 75	2 75		2 75								
II	BUSINESS COMMUNICATION-II	1621 UMS BC	3	3	3			3								
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622 UMS FC	2 2 5	2 2 5	2 25	2 25										
	BUSINESS ENVIRONMENT	1623 UMS BE	2 2 5	2 2 5			2 25	2 25								
	BUSINESS MATHEMATICS	1627 UMS BM	3	3			3	3								



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	CS																		
	INDUSTRIAL LAW	1626 UMSI L	3 2 5		3. 25		3. 25												
	PRINCIPLES OF MARKETING	1625 UMS PMK	3	3	3	3	3	3											
	BUSINESS ECONOMICS - I	1724 UMS ECO	3	3			3												
III	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - I	1731 UMSI T	3 2 5	3 2 5	3. 25		3. 25												
	PERSONAL EFFECTIVENESS MANAGEMENT	1832 UMP EM	2 2 5		2. 25	2. 25	2. 25												
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1733 UMS BPE	3 2 5	3 2 5	3. 25	3. 25	3. 25	3. 25											
	ACCOUNTING FOR MANAGERIAL DECISIONS	1734 UMS AMD	2 2 5	2 2 5			2. 25	2. 25											
	STRATEGIC MANAGEMENT	1735 UMS SM	2 2 5	2 2 5		2. 25	2. 25	2. 25											
	CORPORATE FINANCE	1736 UMS CF	2 5						2.5	2.5	2.5	2.5							
	EQUITY AND DEBT MARKET	1937 UMS EDM							2.2 5	2.2 5	2.2 5	2.2 5							
	BASICS OF FINANCIAL SERVICES	1836 UMS BFS							NA		NA	NA							
	INTRODUCTION TO COST ACCOUNTING	1936 UMSI CA							NA	NA	NA								
	CONSUMER BEHAVIOUR	1738 UMS CB												2.5	2.5	2.5	2.5		



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IV	PRODUCT INNOVATIONS MANAGEMENT	1739 UMS PIM												2.25	2.25	2.25	2.25
	ACCOUNTING FOR MANAGERIAL DECISIONS	1937 UMS AD												NA	NA	NA	NA
	STRATEGIC MANAGEMENT	1937 UMS SM												NA	NA	NA	NA
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	1741 UMSI TB	2	2													
	BUSINESS ECONOMICS- II	1742 UMS BE	2	2	2												
	BUSINESS RESEARCH METHODS	1743 UMS BRM	2	2	2	3	3	3	3								
	CHANGE MANAGEMENT	1844 UMC M	2	2	2	3	3	3	3								
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1745 UMS PQM	2	2													
	CORPORATE RESTRUCTURING	1746 UMS CRS								3	3	3	3				
	STRATEGIC COST MANAGEMENT	1747 UMS SCM								2	2	2	2				
	FINANCIAL INSTITUTIONS & MARKETS	1946 UMS FIM								NA	NA	NA	NA				
	AUDITING	1946 UMS A								NA	NA	NA	NA				
	INTEGRATED MARKETING COMMUNICATION	1748 UMSI MC												2.25	2.25	2.25	2.25



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	EVENT MARKETING	1749 UMS EM											2.25		2.25	2.25
	RURAL MARKETING	1947 UMS RM											NA	NA	NA	NA
	TOURISM MARKETING	1947 UMS TM											NA	NA		NA
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851 UMS LS	3 2 5	3 2 5	3 25		3 25									
	ANALYTICAL SKILLS FOR MANAGERS	1952 UMS AS	2	2			2	2								
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853 UMSI A						1.2 5	1.2 5	1.2 5	1.2 5					
	COMMODITY AND DERIVATIVES MARKET	1854 UMS CD						3	3	3	3					
	WEALTH MANAGEMENT	1855 UMS WM						3.2 5	3.2 5	3.2 5	3.2 5					
	DIRECT TAXES	1856 UMS DT						2.5	2.5	2.5	2.5					
	FINANCIAL ACCOUNTING	1953 UMS FA						NA	NA	NA	NA					
	RISK MANAGEMENT	1953 UMS RM						NA	NA		NA					
	SERVICE MARKETING	1857 UMS SM										2.75	2.75	2.75	2.75	
	E-COMMERCE AND DIGITAL MARKETING	1858 UMS EC										2	2			2
	SALES AND DISTRIBUTION MANAGEMENT	1859 UMS SD										2.25	2.25	2.25	2.25	
	CUSTOMER RELATIONSHIP	19510 UMS CR										2.5	2.5	2.5	2.5	



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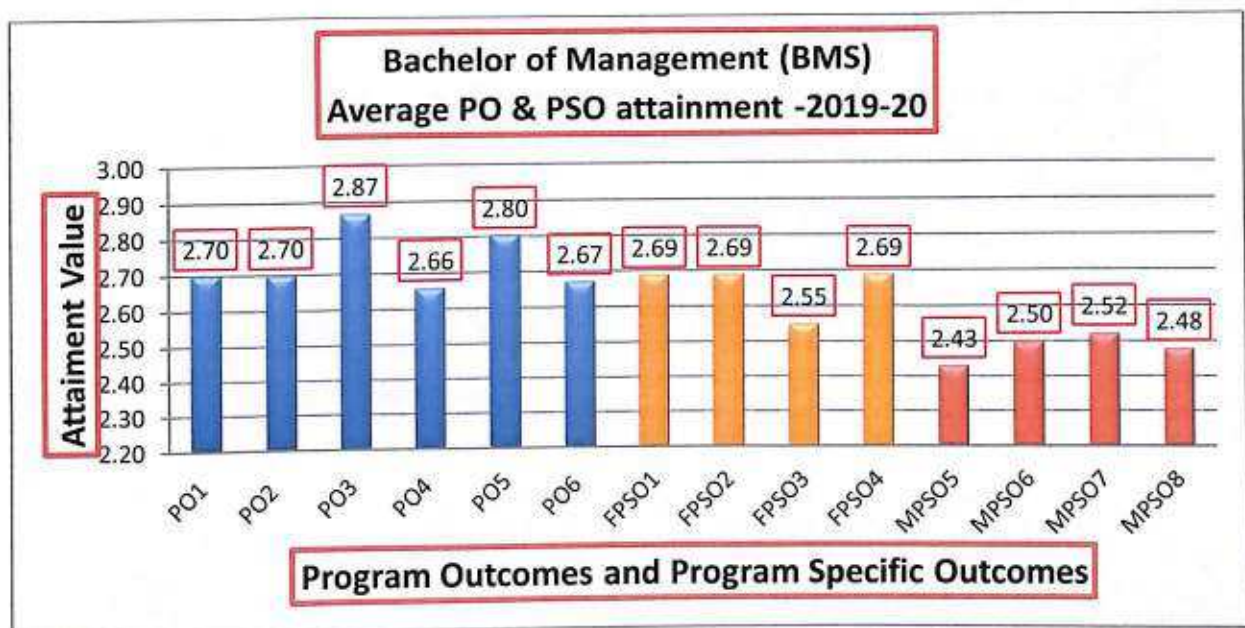
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	MANAGEMENT																
	INDUSTRIAL MARKETING	1954 UMSIM											NA	NA		NA	
	STRATEGIC MARKETING MANAGEMENT	1954 UMSMM											NA	NA	NA	NA	
VI	OPERATION RESEARCH	1861 UMSOR	3 7 5	3 7 5	3 75		3 75	3 75									
	RESEARCH BASED PROJECT WORK	1862 UMSPW	2 2 5	2 2 5	2 25	2 25	2 25	2 25									
	INTERNATIONAL FINANCE	1863 UMSIF							3	3	3	3					
	INNOVATIVE FINANCIAL SERVICES	1864 UMSIFM							3	3		3					
	PROJECT MANAGEMENT	1865 UMSPM							2.7 5	2.7 5	2.7 5	2.7 5					
	INDIRECT TAXES	1866 UMSINT							3.7 5	3.7 5		3.7 5					
	STRATEGIC FINANCIAL MANAGEMENT	1963 UMSFM							NA	NA	NA	NA					
	FINANCING RURAL DEVELOPMENT	1963 UMSFRD							NA		NA	NA					
	BRAND MANAGEMENT	1867 UMSBM											3	3	3	3	
	RETAIL MANAGEMENT	1862 UMSRM											2.25	2.25	2.25	2.25	
	SPORTS MARKETING	1969 UMSM												3	3	3	
	MEDIA PLANNING AND MANAGEMENT	18610 UMSMPM											2.75	2.75	2.75	2.75	
	INTERNATIO	1869											NA		NA	NA	


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NAL MARKETING	UMSI M																
MARKETING FOR NON- PROFIT ORGANIZATI ON	196U MSM NO													NA	NA	NA	
	Avera ge	2 7 0	2 7 0	2. 8 7	2. 6 6	2. 8 0	2. 6 7	2. 6 9	2. 6 9	2. 5 5	2. 6 9	2.43	2.5 0	2.5 2	2.4 8		

NA: Not Applicable as in some cases course is offered by institution but not opted by students.



From above graph, it is observed that average PO attainment value for all but two program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).


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ANNEXTURE G
Bachelor of Science (Computer Science) - B. Sc. (CS)

Table No. G.1: PO CO Mapping Matrix:
Bachelor of Science (Computer Science) - B. Sc. CS): Academic Year - 2019-20

Sem ester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
I	COMMUNICATION SKILLS	1916UISCS	*			*			*	*		*
	WEB PROGRAMMING I	1914UISWP	*		*	*			*	*		*
	INTRODUCTION TO PROGRAMMING	1911UISIP	*	*		*		*				*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UISFC	*	*	*	*		*				
	OPERATING SYSTEMS	1913UISOS	*	*	*	*			*	*		*
	DISCRETE MATHEMATICS-I	1915UISDM	*	*				*				
	WEB PROGRAMMING I PRACTICAL	1914UISPR	*		*	*			*	*		*
	INTRODUCTION TO PROGRAMMING PRACTICAL	1911UISPR	*	*		*		*				*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UISPR	*	*	*	*		*				
	OPERATING SYSTEMS PRACTICAL	1913UISPR	*	*	*	*			*	*		*
	IT PLATFORMS, TOOLS AND	1926UISTP	*	*		*			*	*		*



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II	PRACTICES											
	WEB PROGRAMMING II	1924UISWP	*							*		*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UISPP	*	*	*				*	*		*
	OBJECT ORIENTED PROGRAMMING	1922UISOO	*	*		*			*	*		*
	DATABASE MANAGEMENT SYSTEMS I	1923UISDS	*		*	*			*	*		*
	DISCRETE MATHEMATICS II	1925UISDM	*	*				*		*		
	WEB PROGRAMMING II PRACTICAL	1924UISPR	*							*		*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	1921UISPR	*	*	*				*	*		*
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1922UISPR	*	*		*			*	*		*
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UISPR	*		*	*			*	*		*
III	THEORY OF COMPUTATION	1731UCSTC	*	*	*	*	*	*	*	*		
	CORE JAVA	1732UCSCJ	*	*	*	*			*	*		*
	OPERATING SYSTEM	1733UCSOS	*	*	*	*			*	*		*
	DATABASE MANAGEMENT SYSTEM	1734UCSD B	*	*	*	*				*		*
	COMBINATORICS AND GRAPH THEORY	1735UCSC G	*	*	*	*		*	*	*		*
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UCSPC	*	*	*	*				*		*
	WEB PROGRAMMING	1737UCSW P	*	*	*				*	*		*
	CORE JAVA PRACTICAL	1732UCSPR	*	*	*	*			*	*		*
	OPERATING	1733UCSPR	*	*	*	*			*	*		*



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	SYSTEM PRACTICAL											
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UCSPR	*	*	*	*				*		*
	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UCSPR	*	*	*	*		*	*	*		*
	PHYSICAL COMPUTING PROGRAMMING AND IOT PRACTICAL	1736UCSPR	*	*	*	*				*		*
	WEB PROGRAMMING PRACTICAL	1737UCSPR	*	*	*				*	*		*
IV	FUNDAMENTALS OF ALGORITHM	1741UCSFA	*	*	*	*		*	*	*	*	*
	ADVANCED JAVA	1742UCSAJ	*	*	*	*				*		*
	COMPUTER NETWORKS	1743UCSCN	*	*	*	*			*	*	*	*
	SOFTWARE ENGINEERING	1744UCSSE	*	*	*	*			*	*	*	*
	LINEAR ALGEBRA USING PYTHON	1745UCSLA	*	*			*	*		*		
	.NET TECHNOLOGIES	1746UCSNT	*	*	*							*
	ANDROID DEVELOPER FUNDAMENTALS	1747UCSAD	*	*	*	*			*	*		*
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UCSPR	*	*	*	*		*	*	*	*	*
	ADVANCED JAVA PRACTICAL	1742UCSPR	*	*	*	*				*		*
	COMPUTER NETWORKS PRACTICAL	1743UCSPR	*	*	*	*			*	*	*	*
	LINEAR ALGEBRA USING PYTHON PRACTICAL	1745UCSPR	*	*			*	*		*		
	.NET TECHNOLOGIES PRACTICAL	1746UCSPR	*	*	*							*
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UCSPR	*	*	*	*			*	*		*
	GAME PROGRAMMING	1857UCSGP	*	*	*	*	*	*		*		*



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V	ARTIFICIAL INTELLIGENCE	1851UCSAI	*	*	*	*	*	*	*	*	*	*
	LINUX SERVER ADMINISTRATION	1852UCSLA	*	*	*				*	*		
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCSST	*	*	*	*	*	*	*	*		*
	INFORMATION AND NETWORK SECURITY	1854UCSNS	*	*	*	*				*	*	*
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCSW N	*	*	*					*		*
	WEB SERVICES	1856UCSW S	*	*	*	*			*	*	*	*
	GAME PROGRAMMING PRACTICAL	1857UCSPR	*	*	*	*	*	*		*		*
	PROJECT IMPLEMENTATION	1858UCSPR	*	*	*	*	*	*	*	*	*	*
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCSPR	*	*	*	*	*	*	*	*		*
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	*	*	*				*	*		
	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UCSPR	*	*	*	*	*	*	*	*		*
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCSPR	*	*	*	*				*	*	*
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCSPR	*	*	*					*		*
	WEB SERVICES PRACTICAL	1856UCSPR	*	*	*	*			*	*	*	*
VI	ETHICAL HACKING	1867UCSEH	*	*	*	*			*	*	*	*
	ARCHITECTING OF IOT	1861UCSIT	*	*	*	*			*	*		*
	CLOUD COMPUTING	1862UCSCC	*	*	*	*			*	*	*	*
	CYBER	1863UCSCF	*	*	*	*	*	*	*	*	*	*



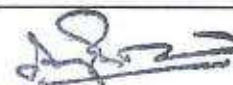
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FORENSICS												
INFORMATION RETRIEVAL	1864UCSIR	*	*	*				*	*		*	
DIGITAL IMAGE PROCESSING	1865UCSDP	*	*	*	*	*	*	*	*		*	
DATA SCIENCE	1866UCSDS	*	*	*	*	*	*	*	*	*	*	*
ETHICAL HACKING PRACTICAL	1867UCSPR	*	*	*	*			*	*	*	*	
PROJECT IMPLEMENTATION	1868UCSPR	*	*	*	*	*	*	*	*	*	*	*
ARCHITECTING OF IOT PRACTICAL	1861UCSPR	*	*	*	*			*	*		*	
CLOUD COMPUTING PRACTICAL	1862UCSPR	*	*	*	*			*	*	*	*	*
CYBER FORENSICS PRACTICAL	1863UCSPR	*	*	*	*	*	*	*	*	*	*	*
INFORMATION RETRIEVAL PRACTICAL	1864UCSPR	*	*	*				*	*		*	
DIGITAL IMAGE PROCESSING PRACTICAL	1865UCSPR	*	*	*	*	*	*	*	*		*	
DATA SCIENCE PRACTICAL	1866UCSPR	*	*	*	*	*	*	*	*	*	*	*

**Table No. G.2: CO Attainment Level: Bachelor of Science- B. Sc. (Computer Science)
Academic Year - 2019-20**

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS	1916UISCS	3.25	2	Fully Attained	NA
	WEB PROGRAMMING I	1914UISWP	2.5	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING	1911UISIP	2.25	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UISFC	2.25	2	Fully Attained	NA



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	OPERATING SYSTEMS	1913UISOS	3.25	2	Fully Attained	NA
	DISCRETE MATHEMATICS-I	1915UISDM	2	2	Fully Attained	NA
	WEB PROGRAMMING I PRACTICAL	1914UISPR	2	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING PRACTICAL	1911UISPR	3	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UISPR	2	2	Fully Attained	NA
	OPERATING SYSTEMS PRACTICAL	1913UISPR	3	2	Fully Attained	NA
II	IT PLATFORMS, TOOLS AND PRACTICES	1926UISTP	3.25	2	Fully Attained	NA
	WEB PROGRAMMING II	1924UISWP	2	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UISPP	2	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING	1922UISOO	2.5	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I	1923UISDS	2.25	2	Fully Attained	NA
	DISCRETE MATHEMATICS II	1925UISDM	2.25	2	Fully Attained	NA
	WEB PROGRAMMING II PRACTICAL	1924UISPR	2	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION	1921UISPR	2	2	Fully Attained	NA



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	DEVELOPMENT IN PYTHON PRACTICAL					
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1922UISPR	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UISPR	2	2	Fully Attained	NA
III	THEORY OF COMPUTATION	1731UCSTC	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	CORE JAVA	1732UCSCJ	2.5	2	Fully Attained	NA
	OPERATING SYSTEM	1733UCSOS	2.25	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEM	1734UCSDB	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMBINATORICS AND GRAPH THEORY	1735UCSCG	1.25	2	Not Attained	
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UCSPC	2.25	2	Fully Attained	NA
	WEB PROGRAMMING	1737UCSWP	2.25	2	Fully Attained	NA
	CORE JAVA PRACTICAL	1732UCSPR	3	2	Fully Attained	NA
	OPERATING SYSTEM PRACTICAL	1733UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UCSPR	2	2	Fully Attained	NA



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	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UCSPR	2	2	Fully Attained	NA
	PHYSICAL COMPUTING PROGRAMMING AND IOT PRACTICAL	1736UCSPR	3	2	Fully Attained	NA
	WEB PROGRAMMING PRACTICAL	1737UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
IV	FUNDAMENTALS OF ALGORITHM	1741UCSFA	2	2	Fully Attained	NA
	ADVANCED JAVA	1742UCSAJ	2.25	2	Fully Attained	NA
	COMPUTER NETWORKS	1743UCSCN	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SOFTWARE ENGINEERING	1744UCSSE	2.25	2	Fully Attained	NA
	LINEAR ALGEBRA USING PYTHON	1745UCSLA	2	2	Fully Attained	NA
	.NET TECHNOLOGIES	1746UCSNT	2.25	2	Fully Attained	NA
	ANDROID DEVELOPER FUNDAMENTALS	1747UCSAD	2.5	2	Fully Attained	NA
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	ADVANCED JAVA PRACTICAL	1742UCSPR	1	2	Not Attained	
	COMPUTER NETWORKS PRACTICAL	1743UCSPR	2	2	Fully Attained	NA
	LINEAR ALGEBRA	1745UCSPR	2	2	Fully Attained	NA



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	USING PYTHON PRACTICAL					
	.NET TECHNOLOGIES PRACTICAL	1746UCSPR	2	2	Fully Attained	NA
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UCSPR	2	2	Fully Attained	NA
V	GAME PROGRAMMING	1857UCSGP	2.5	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE	1851UCSAI	2.5	2	Fully Attained	NA
	LINUX SERVER ADMINISTRATION	1852UCSLA	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCSST	NA	2	NA	NA
	INFORMATION AND NETWORK SECURITY	1854UCSNS	2.75	2	Fully Attained	NA
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCSWN	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	WEB SERVICES	1856UCSWS	NA	2	NA	
	GAME PROGRAMMING PRACTICAL	1857UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	PROJECT IMPLEMENTATION	1858UCSPR	2	2	Fully Attained	
	ARTIFICIAL INTELLIGENCE	1851UCSPR	1	2	Not	Remedial



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VI	E PRACTICAL				Attained	coaching with exercises shall be planned.
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	1	2	Not Attained	
	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UCSPR	NA	2	NA	NA
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCSPR	2	2	Fully Attained	NA
	WEB SERVICES PRACTICAL	1856UCSPR	NA	2	NA	NA
	ETHICAL HACKING	1867UCSEH	2.75	2	Fully Attained	NA
	ARCHITECTING OF IOT	1861UCSIT	NA	2	NA	NA
	CLOUD COMPUTING	1862UCSCC	2.25	2	Fully Attained	NA
	CYBER FORENSICS	1863UCSCF	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INFORMATION RETRIEVAL	1864UCSIR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1865UCSDP	2.25	2	Fully Attained	NA
	DATA SCIENCE	1866UCSDS	2.5	2	Fully Attained	NA
	ETHICAL HACKING PRACTICAL	1867UCSPR	2	2	Fully Attained	NA
	PROJECT IMPLEMENTA	1868UCSPR	3	2	Fully Attained	NA



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TION					
ARCHITECTING OF IOT PRACTICAL	1861UCSPR	NA	2	NA	NA
CLOUD COMPUTING PRACTICAL	1862UCSPR	3	2	Fully Attained	NA
CYBER FORENSICS PRACTICAL	1863UCSPR	2	2	Fully Attained	NA
INFORMATION RETRIEVAL PRACTICAL	1864UCSPR	NA	2	NA	NA
DIGITAL IMAGE PROCESSING PRACTICAL	1865UCSPR	3	2	Fully Attained	NA
DATA SCIENCE PRACTICAL	1866UCSPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	Average	2.10			
NA: Not Applicable as target level is fully attained. Also some Courses are offered by institute but not opted by students.					

Table No.G.2a: PO Attainment Level- B. Sc. (Computer Science)- 2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	4	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are equal to target level-4. Hence at present no plans are required.

**Table No. G.3: Results of CO-PO attainment-
Bachelor of Science (Computer Science)-B. Sc.(CS)-Academic Year 2019-20**


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Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
I	COMMUNICATION SKILLS	1916UIS CS	3.25			3.25			3.25	3.25		3.25
	WEB PROGRAMMING I	1914UIS WP	2.5		2.5	2.5			2.5	2.5		2.5
	INTRODUCTION TO PROGRAMMING	1911UISI P	2.25	2.25		2.25		2.25				2.25
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UISF C	2.25	2.25	2.25	2.25		2.25				
	OPERATING SYSTEMS	1913UIS OS	3.25	3.25	3.25	3.25			3.25	3.25		3.25
	DISCRETE MATHEMATICS-I	1915UIS DM	2	2				2				
	WEB PROGRAMMING I PRACTICAL	1914UISP R	2		2	2			2	2		2
	INTRODUCTION TO PROGRAMMING PRACTICAL	1911UISP R	3	3		3		3				3
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UISP R	2	2	2	2		2				
	OPERATING SYSTEMS PRACTICAL	1913UISP R	3	3	3	3			3	3		3
II	IT PLATFORMS, TOOLS AND PRACTICES	1926UIS TP	3.25	3.25		3.25			3.25	3.25		3.25
	WEB PROGRAMMING II	1924UIS WP	2							2		2
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UISP P	2	2	2				2	2		2
	OBJECT ORIENTED PROGRAMMING	1922UIS OO	2.5	2.5		2.5			2.5	2.5		2.5
	DATABASE MANAGEMENT SYSTEMS I	1923UIS DS	2.25		2.25	2.25			2.25	2.25		2.25


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	DISCRETE MATHEMATICS II	1925UIS DM	2.2 5	2.2 5				2.2 5		2.2 5		
	WEB PROGRAMMING II PRACTICAL	1924UISP R	2							2		2
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	1921UISP R	2	2	2				2	2		2
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1922UISP R	2	2		2			2	2		2
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UISP R	2		2	2			2	2		2
III	THEORY OF COMPUTATION	1731UCS TC	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
	CORE JAVA	1732UCS CJ	2.5	2.5	2.5	2.5			2.5	2.5		2.5
	OPERATING SYSTEM	1733UCS OS	2.2 5	2.2 5	2.2 5	2.2 5			2.2 5	2.2 5		2.25
	DATABASE MANAGEMENT SYSTEM	1734UCS DB	1.2 5	1.2 5	1.2 5	1.2 5				1.2 5		1.25
	COMBINATORICS AND GRAPH THEORY	1735UCS CG	1.2 5	1.2 5	1.2 5	1.2 5		1.2 5	1.2 5	1.2 5		1.25
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UCS PC	2.2 5	2.2 5	2.2 5	2.2 5				2.2 5		2.25
	WEB PROGRAMMING	1737UCS WP	2.2 5	2.2 5	2.2 5				2.2 5	2.2 5		2.25
	CORE JAVA PRACTICAL	1732UCS PR	3	3	3	3			3	3		3
	OPERATING SYSTEM PRACTICAL	1733UCS PR	1	1	1	1			1	1		1
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UCS PR	2	2	2	2				2		2
	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UCS PR	2	2	2	2		2	2	2		2
	PHYSICAL COMPUTING	1736UCS PR	3	3	3	3				3		3



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	PROGRAMMING AND IOT PRACTICAL											
	WEB PROGRAMMING PRACTICAL	1737UCS PR	1	1	1				1	1		1
IV	FUNDAMENTALS OF ALGORITHM	1741UCS FA	2	2	2	2		2	2	2	2	2
	ADVANCED JAVA	1742UCS AJ	2.25	2.25	2.25	2.25				2.25		2.25
	COMPUTER NETWORKS	1743UCS CN	1.75	1.75	1.75	1.75			1.75	1.75	1.75	1.75
	SOFTWARE ENGINEERING	1744UCS SE	2.25	2.25	2.25	2.25			2.25	2.25	2.25	2.25
	LINEAR ALGEBRA USING PYTHON	1745UCS LA	2	2			2	2		2		
	.NET TECHNOLOGIES	1746UCS NT	2.25	2.25	2.25							2.25
	ANDROID DEVELOPER FUNDAMENTALS	1747UCS AD	2.25	2.25	2.25	2.25			2.25	2.25		2.25
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UCS PR	1	1	1	1		1	1	1	1	1
	ADVANCED JAVA PRACTICAL	1742UCS PR	1	1	1	1				1		1
	COMPUTER NETWORKS PRACTICAL	1743UCS PR	2	2	2	2			2	2	2	2
	LINEAR ALGEBRA USING PYTHON PRACTICAL	1745UCS PR	2	2			2	2		2		
	.NET TECHNOLOGIES PRACTICAL	1746UCS PR	2	2	2							2
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UCS PR	2	2	2	2			2	2		2
V	GAME PROGRAMMING	1857UCS GP	2.5	2.5	2.5	2.5	2.5	2.5		2.5		2.5
	ARTIFICIAL INTELLIGENCE	1851UCS AI	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5
	LINUX SERVER ADMINISTRATIO	1852UCS LA	1.75	1.75	1.75				1.75	1.75		



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N												
SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCS ST	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INFORMATION AND NETWORK SECURITY	1854UCS NS	2.7 5	2.7 5	2.7 5	2.7 5				2.7 5	2.7 5	2.75	
WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCS WN	1.7 5	1.7 5	1.7 5					1.7 5		1.75	
WEB SERVICES	1856UCS WS	NA	NA	NA	NA			NA	NA	NA	NA	NA
GAME PROGRAMMING PRACTICAL	1857UCS PR	1	1	1	1	1	1		1		1	
PROJECT IMPLEMENTATION	1858UCS PR	2	2	2	2	2	2	2	2	2	2	2
ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCS PR	1	1	1	1	1	1	1	1		1	
LINUX SERVER ADMINISTRATION PRACTICAL	1852UCS PR	1	1	1				1	1			
SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UCS PR	NA	NA	NA	NA	NA	NA	NA	NA		NA	
INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCS PR	1	1	1	1				1	1	1	
WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCS PR	2	2	2					2		2	
WEB SERVICES PRACTICAL	1856UCS PR	NA	NA	NA	NA			NA	NA	NA	NA	NA
VI	ETHICAL HACKING	1867UCS EH	2.7 5	2.7 5	2.7 5	2.7 5			2.7 5	2.7 5	2.7 5	2.75
	ARCHITECTING OF IOT	1861UCS IT	NA	NA	NA	NA			NA	NA		NA
	CLOUD COMPUTING	1862UCS CC	2.2 5	2.2 5	2.2 5	2.2 5			2.2 5	2.2 5	2.2 5	2.25
	CYBER FORENSICS	1863UCS CF	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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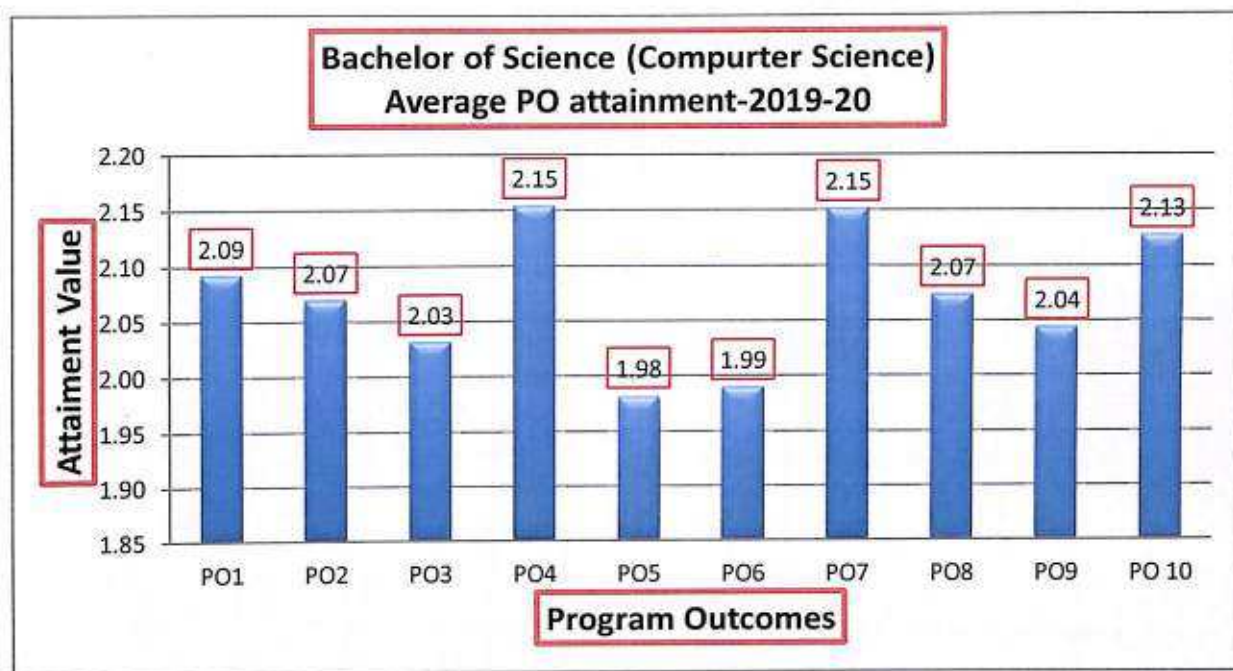
INFORMATION RETRIEVAL	1864UCS IR	NA	NA	NA				NA	NA		NA
DIGITAL IMAGE PROCESSING	1865UCS DP	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5		2.25
DATA SCIENCE	1866UCS DS	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
ETHICAL HACKING PRACTICAL	1867UCS PR	2	2	2	2			2	2	2	2
PROJECT IMPLEMENTATION	1868UCS PR	3	3	3	3	3	3	3	3	3	3
ARCHITECTING OF IOT PRACTICAL	1861UCS PR	NA	NA	NA	NA			NA	NA		NA
CLOUD COMPUTING PRACTICAL	1862UCS PR	3	3	3	3			3	3	3	3
CYBER FORENSICS PRACTICAL	1863UCS PR	2	2	2	2	2	2	2	2	2	2
INFORMATION RETRIEVAL PRACTICAL	1864UCS PR	NA	NA	NA				NA	NA		NA
DIGITAL IMAGE PROCESSING PRACTICAL	1865UCS PR	3	3	3	3	3	3	3	3		3
DATA SCIENCE PRACTICAL	1866UCS PR	1	1	1	1	1	1	1	1	1	1
	Average	2.0 9	2.0 7	2.0 3	2.1 5	1.9 8	1.9 9	2.1 5	2.0 7	2.0 4	2.13

NA: Not Applicable as some Courses are offered by institute but not opted by students.



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From above graph, it is observed that average PO attainment value for all but two program outcomes is greater than 2. It means, PO attainment by corresponding courses is very good level (value between 2.0 and 2.5).

ANNEXTURE H

Bachelor of Science (Information Technology) - B. Sc. (IT)

Table No. H.1: PO CO Mapping Matrix:

Bachelor of Science (Information Technology) - B. Sc. (IT): Academic Year - 2019-20

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
I	COMMUNICATION SKILLS	1916UISCS	*			*			*	*	*	*
	WEB PROGRAMMING I	1914UISWP	*		*	*	*		*	*	*	*
	INTRODUCTION TO PROGRAMMING	1911UISIP	*	*		*	*	*			*	*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UISFC	*	*	*	*		*				



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	OPERATING SYSTEMS	1913UIISO S	*	*	*	*			*	*		*
	DISCRETE MATHEMATICS -I	1915UISD M	*	*				*				
	WEB PROGRAMMING I PRACTICAL	1914UISP R	*		*	*	*		*	*	*	*
	INTRODUCTION TO PROGRAMMING PRACTICAL	1911UISP R	*	*		*	*	*			*	*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UISP R	*	*	*	*		*				
	OPERATING SYSTEMS PRACTICAL	1913UISP R	*	*	*	*			*	*		*
II	IT PLATFORMS, TOOLS AND PRACTICES	1926UIST P	*	*		*	*		*	*	*	*
	WEB PROGRAMMING II	1924UISW P	*				*	*		*	*	*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UISP P	*	*	*		*	*	*	*	*	*
	OBJECT ORIENTED PROGRAMMING	1922UIISO O	*	*		*			*	*		*
	DATABASE MANAGEMENT SYSTEMS I	1923UISD S	*		*	*			*	*		*
	DISCRETE MATHEMATICS II	1925UISD M	*	*				*		*		
	WEB PROGRAMMING II PRACTICAL	1924UISP R	*				*	*		*	*	*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	1921UISP R	*	*	*		*	*	*	*	*	*
	OBJECT ORIENTED	1922UISP R	*	*		*			*	*		*



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	PROGRAMMING PRACTICAL											
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UISP R	*		*	*			*	*		*
III	PYTHON PROGRAMMING	1731UITP P	*	*	*	*			*	*	*	*
	DATA STRUCTURES	1732UITD S	*	*	*	*			*	*	*	*
	COMPUTER NETWORKS	1733UITC N	*	*	*	*			*	*		*
	DATABASE MANAGEMENT SYSTEMS	1734UITD M	*	*	*	*	*					*
	APPLIED MATHEMATICS	1735UITA M	*	*			*	*				
	PYTHON PROGRAMMING PRACTICAL	1731UITP R	*	*	*	*			*	*	*	*
	DATA STRUCTURES PRACTICAL	1732UITP R	*	*	*	*			*	*	*	*
	COMPUTER NETWORKS PRACTICAL	1733UITP R	*	*	*	*			*	*		*
	DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UITP R	*	*	*	*	*					*
	MOBILE PROGRAMMING PRACTICAL	1735UITP R	*	*	*	*	*	*	*			*
IV	CORE JAVA	1741UITC J	*	*	*	*				*	*	*
	INTRODUCTION TO EMBEDDED SYSTEMS	1742UITES	*	*	*	*						
	COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UITST	*	*	*	*	*	*		*		*
	SOFTWARE ENGINEERING	1744UITSE	*	*	*	*	*	*	*	*	*	*
	COMPUTER GRAPHICS AND ANIMATION	1745UITC G	*	*	*	*	*	*	*	*		*
	CORE JAVA	1741UITP	*	*	*	*				*	*	*



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	PRACTICAL	R										
	INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UITP R	*	*	*	*						
	COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UITP R	*	*	*	*	*	*		*		*
	SOFTWARE ENGINEERING PRACTICAL	1744UITP R	*	*	*	*	*	*	*	*	*	*
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UITP R	*	*	*	*	*	*	*	*		*
V	SOFTWARE PROJECT MANAGEMENT	1851UITP M	*	*	*	*				*	*	*
	INTERNET OF THINGS	1852UITIT	*	*	*	*		*	*	*		*
	ADVANCED WEB PROGRAMMING	1853UITWP	*	*	*					*	*	*
	ARTIFICIAL INTELLIGENCE	1854UITAI	*	*	*	*	*	*	*	*		*
	LINUX SYSTEM ADMINISTRATION	1855UITLA	*	*	*	*				*		*
	ENTERPRISE JAVA	1856UITAJ	*	*	*	*			*	*		*
	NEXT GENERATION TECHNOLOGIES	1857UITNG	*	*	*				*	*		
	PROJECT DISSERTATION	1851UITP R	*	*	*	*	*	*	*	*	*	*
	INTERNET OF THINGS PRACTICAL	1852UITP R	*	*	*	*		*	*	*		*
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UITP R	*	*	*					*	*	*
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITP R	*	*	*	*	*	*	*	*		*
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITP R	*	*	*	*				*		*



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	ENTERPRISE JAVA PRACTICAL	1856UITP R	*	*	*	*				*	*		*
	NEXT GENERATION TECHNOLOGIE S PRACTICAL	1857UITP R	*	*	*					*	*		
VI	SOFTWARE QUALITY ASSURANCE	1861UIT S Q	*	*	*	*	*	*		*			*
	SECURITY IN COMPUTING	1862UIT S C	*	*	*	*	*			*			*
	BUSINESS INTELLIGENCE	1863UIT BI	*	*	*	*	*	*	*	*			*
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UIT G I	*	*	*					*			*
	ENTERPRISE NETWORKING	1865UIT E N	*	*	*	*	*	*		*			*
	IT SERVICE MANAGEMENT	1866UIT IS	*	*	*	*				*	*	*	*
	CYBER LAWS	1867UIT C L	*	*	*	*				*	*	*	*
	PROJECT IMPLEMENTAT ION	1861UIT P R	*	*	*	*	*	*	*	*	*	*	*
	SECURITY IN COMPUTING PRACTICAL	1862UIT P R	*	*	*	*	*			*			*
	BUSINESS INTELLIGENCE PRACTICAL	1863UIT P R	*	*	*	*	*	*	*	*	*		*
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UIT P R	*	*	*					*			*
	ENTERPRISE NETWORKING PRACTICAL	1865UIT P R	*	*	*	*	*	*		*			*
	ADVANCED MOBILE PROGRAMMIN G PRACTICAL	1866UIT P R	*	*	*	*				*	*	*	*

Table No. H.2: CO Attainment Level: Bachelor of Science- B. Sc. (Information Technology)
Academic Year - 2019-20

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
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I	COMMUNICATION SKILLS	1916UISCS	3.25	2	Fully Attained	NA
	WEB PROGRAMMING I	1914UISWP	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTRODUCTION TO PROGRAMMING	1911UISIP	3	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UISFC	2.25	2	Fully Attained	NA
	OPERATING SYSTEMS	1913UISOS	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISCRETE MATHEMATICS-I	1915UISDM	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	WEB PROGRAMMING I PRACTICAL	1914UISPR	2	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING PRACTICAL	1911UISPR	2	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UISPR	3	2	Fully Attained	NA
	OPERATING SYSTEMS PRACTICAL	1913UISPR	3	2	Fully Attained	NA
II	IT PLATFORMS,	1926UISTP	3.25	2	Fully	NA



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	TOOLS AND PRACTICES				Attained	
	WEB PROGRAMMING II	1924UISWP	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UISPP	2	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING	1922UISOO	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DATABASE MANAGEMENT SYSTEMS I	1923UISDS	2.25	2	Fully Attained	NA
	DISCRETE MATHEMATICS II	1925UISDM	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	WEB PROGRAMMING II PRACTICAL	1924UISPR	2	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	1921UISPR	2	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1922UISPR	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UISPR	2	2	Fully Attained	NA



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III	PYTHON PROGRAMMING	1731UITPP	3	2	Fully Attained	NA
	DATA STRUCTURES	1732UITDS	2	2	Fully Attained	NA
	COMPUTER NETWORKS	1733UITCN	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS	1734UITDM	2.75	2	Fully Attained	NA
	APPLIED MATHEMATICS	1735UITAM	2.25	2	Fully Attained	NA
	PYTHON PROGRAMMING PRACTICAL	1731UITPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	DATA STRUCTURES PRACTICAL	1732UITPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	COMPUTER NETWORKS PRACTICAL	1733UITPR	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UITPR	2	2	Fully Attained	NA
	MOBILE PROGRAMMING PRACTICAL	1735UITPR	2	2	Fully Attained	NA
IV	CORE JAVA	1741UITCJ	2.25	2	Fully Attained	NA
	INTRODUCTION TO EMBEDDED SYSTEMS	1742UITES	2.25	2	Fully Attained	NA
	COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UITST	2	2	Fully Attained	NA
	SOFTWARE ENGINEERING	1744UITSE	2.25	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION	1745UITCG	2	2	Fully Attained	NA
	CORE JAVA	1741UITPR	1	2	Not Attained	Remedial



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	PRACTICAL					coaching with exercises shall be planned.
	INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UITPR	0	2	Not Attained	Remedial coaching with exercises shall be planned.
	COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UITPR	3	2	Fully Attained	NA
	SOFTWARE ENGINEERING PRACTICAL	1744UITPR	3	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UITPR	2	2	Fully Attained	NA
V	SOFTWARE PROJECT MANAGEMENT	1851UITPM	3	2	Not Attained	NA
	INTERNET OF THINGS	1852UITIT	2	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING	1853UITWP	3.75	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE	1854UITAI	2.25	2	Fully Attained	NA
	LINUX SYSTEM ADMINISTRATION	1855UITLA	NA	2	NA	NA
	ENTERPRISE JAVA	1856UITAJ	2.5	2	Fully Attained	NA
	NEXT GENERATION TECHNOLOGIES	1857UITNG	NA	2	NA	NA
	PROJECT DISSERTATION	1851UITPR	0	2	Not Attained	Remedial coaching with exercises shall be planned.



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	INTERNET OF THINGS PRACTICAL	1852UITPR	2	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UITPR	2	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	0	2	Not Attained	Remedial coaching with exercises shall be planned.
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITPR	NA	2	NA	NA
	ENTERPRISE JAVA PRACTICAL	1856UITPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UITPR	NA	2	NA	NA
VI	SOFTWARE QUALITY ASSURANCE	1861UITSQ	2.25	2	Fully Attained	NA
	SECURITY IN COMPUTING	1862UITSC	2.25	2	Fully Attained	NA
	BUSINESS INTELLIGENCE	1863UITBI	2.25	2	Fully Attained	NA
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UITGI	2.25	2	Fully Attained	NA
	ENTERPRISE NETWORKING	1865UITEN	NA	2	NA	NA
	IT SERVICE MANAGEMENT	1866UITIS	3.25	2	Fully Attained	NA
	CYBER LAWS	1867UITCL	NA	2	NA	NA
	PROJECT IMPLEMENTATION	1861UITPR	3	2	Fully Attained	NA
	SECURITY IN COMPUTING PRACTICAL	1862UITPR	2	2	Fully Attained	NA
	BUSINESS INTELLIGENCE	1863UITPR	2	2	Fully Attained	NA



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	PRACTICAL					
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	2	2	Fully Attained	NA
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	NA	2	NA	NA
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UITPR	1	2	Not Attained	Remedial coaching with exercises shall be planned.
	Average		2.04			
NA means not applicable as target is fully attained. In this case, some courses were offered by institute but not opted by students.						

Table No. H.2a: PO Attainment Level- B. Sc. (Information Technology)-2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	4	4	Fully Attained	
A2019-20	4	4	Fully Attained	

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are equal to target level-4. Hence at present no plans are required.

**Table No. H.3: Results of CO-PO attainment-
B. Sc. (Information Technology)-B. Sc.(IT)-Academic Year 2019-20**

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
I	COMMUNICATION SKILLS	1916UIS CS	3.25			3.25			3.25	3.25	3.25	3.25
	WEB PROGRAMMING	1914UIS WP	1.25		1.25	1.25	1.25		1.25	1.25	1.25	1.25



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I												
INTRODUCTION TO PROGRAMMING	1911UISI P	3	3		3	3	3			3	3	
FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	1912UIS FC	2.25	2.25	2.25	2.25		2.25					
OPERATING SYSTEMS	1913UIS OS	1.5	1.5	1.5	1.5			1.5	1.5		1.5	
DISCRETE MATHEMATICS-I	1915UIS DM	1.25	1.25				1.25					
WEB PROGRAMMING I PRACTICAL	1914UIS PR	2		2	2	2		2	2	2	2	
INTRODUCTION TO PROGRAMMING PRACTICAL	1911UIS PR	2	2		2	2	2			2	2	
FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	1912UIS PR	3	3	3	3		3					
OPERATING SYSTEMS PRACTICAL	1913UIS PR	3	3	3	3			3	3		3	
IT PLATFORMS, TOOLS AND PRACTICES	1926UIS TP	3.25	3.25		3.25	3.25		3.25	3.25	3.25	3.25	
WEB PROGRAMMING II	1924UIS WP	1.25				1.25	1.25		1.25	1.25	1.25	
PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	1921UIS PP	2	2	2		2	2	2	2	2	2	
OBJECT ORIENTED PROGRAMMING	1922UIS OO	1.25	1.25		1.25			1.25	1.25		1.25	
DATABASE MANAGEMENT SYSTEMS I	1923UIS DS	2.25		2.25	2.25			2.25	2.25		2.25	
DISCRETE MATHEMATICS II	1925UIS DM	1.5	1.5				1.5		1.5			
WEB PROGRAMMING II PRACTICAL	1924UIS PR	2				2	2		2	2	2	



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	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	1921UIS PR	2	2	2		2	2	2	2	2	2
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1922UIS PR	2	2		2			2	2		2
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	1923UIS PR	2		2	2			2	2		2
III	PYTHON PROGRAMMING	1731UIT PP	3	3	3	3			3	3	3	3
	DATA STRUCTURES	1732UIT DS	2	2	2	2			2	2	2	2
	COMPUTER NETWORKS	1733UIT CN	2	2	2	2			2	2		2
	DATABASE MANAGEMENT SYSTEMS	1734UIT DM	2.75	2.75	2.75	2.75	2.75					2.75
	APPLIED MATHEMATICS	1735UIT AM	2.25	2.25			2.25	2.25				
	PYTHON PROGRAMMING PRACTICAL	1731UIT PR	1	1	1	1			1	1	1	1
	DATA STRUCTURES PRACTICAL	1732UIT PR	1	1	1	1			1	1	1	1
	COMPUTER NETWORKS PRACTICAL	1733UIT PR	2	2	2	2			2	2		2
	DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UIT PR	2	2	2	2	2					2
	MOBILE PROGRAMMING PRACTICAL	1735UIT PR	2	2	2	2	2	2	2			2
IV	CORE JAVA	1741UIT CJ	2.25	2.25	2.25	2.25				2.25	2.25	2.25
	INTRODUCTION TO EMBEDDED SYSTEMS	1742UIT ES	2.25	2.25	2.25	2.25						
	COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UIT ST	2	2	2	2	2	2		2		2
	SOFTWARE		2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25



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	ENGINEERING	1744UIT SE										
	COMPUTER GRAPHICS AND ANIMATION	1745UIT CG	2	2	2	2	2	2	2	2		2
	CORE JAVA PRACTICAL	1741UIT PR	1	1	1	1				1	1	1
	INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UIT PR	0	0	0	0						
	COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UIT PR	3	3	3	3	3	3		3		3
	SOFTWARE ENGINEERING PRACTICAL	1744UIT PR	3	3	3	3	3	3	3	3	3	3
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UIT PR	2	2	2	2	2	2	2	2		2
V	SOFTWARE PROJECT MANAGEMENT	1851UIT PM	3	3	3	3				3	3	3
	INTERNET OF THINGS	1852UIT T	2	2	2	2		2	2	2		2
	ADVANCED WEB PROGRAMMING	1853UIT WP	3.75	3.75	3.75					3.75	3.75	3.75
	ARTIFICIAL INTELLIGENCE	1854UIT AI	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25		2.25
	LINUX SYSTEM ADMINISTRATION	1855UIT LA	NA	NA	NA	NA				NA		NA
	ENTERPRISE JAVA	1856UIT EJ	2.5	2.5	2.5	2.5			2.5	2.5		2.5
	NEXT GENERATION TECHNOLOGIES	1857UIT NG	NA	NA	NA				NA	NA		
	PROJECT DISSERTATION	1851UIT PR	0	0	0	0	0	0	0	0	0	0
	INTERNET OF THINGS PRACTICAL	1852UIT PR	2	2	2	2		2	2	2		2
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UIT PR	2	2	2					2	2	2
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UIT PR	0	0	0	0	0	0	0	0		0
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UIT PR	NA	NA	NA	NA				NA		NA

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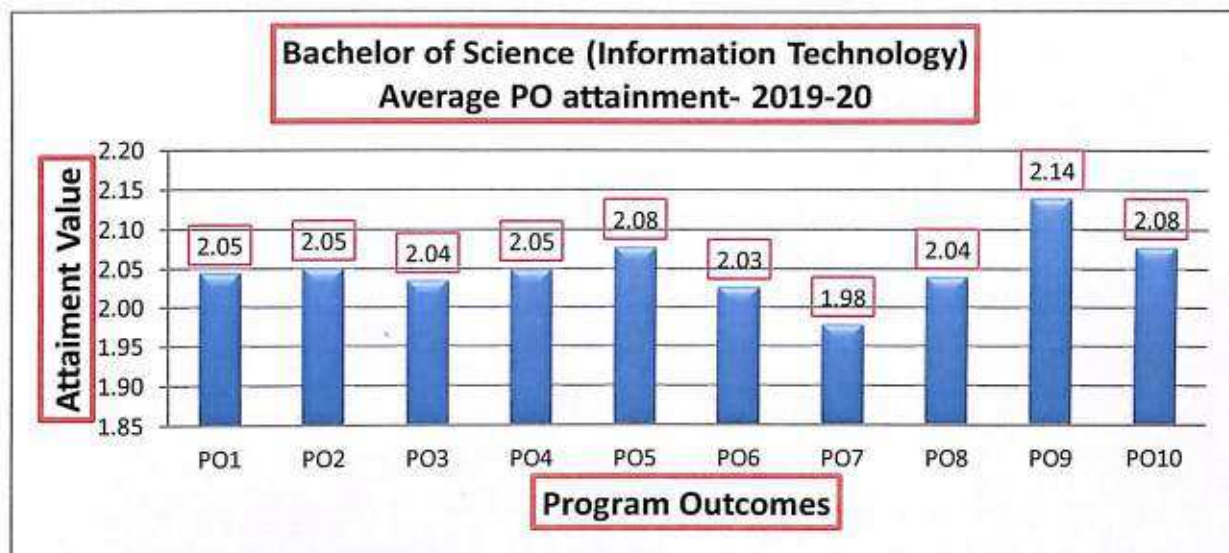
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	ENTERPRISE JAVA PRACTICAL	1856UIT PR	1	1	1	1				1	1		1
	NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UIT PR	NA	NA	NA					NA	NA		
VI	SOFTWARE QUALITY ASSURANCE	1861UIT SQ	2.25	2.25	2.25	2.25	2.25	2.25			2.25		2.25
	SECURITY IN COMPUTING	1862UIT SC	2.25	2.25	2.25	2.25	2.25				2.25		2.25
	BUSINESS INTELLIGENCE	1863UIT BI	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25			2.25
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UIT GI	2.25	2.25	2.25						2.25		2.25
	ENTERPRISE NETWORKING	1865UIT EN	2.25	2.25	2.25	2.25	2.25	2.25			2.25		2.25
	IT SERVICE MANAGEMENT	1866UIT S	3.25	3.25	3.25	3.25				3.25	3.25	3.25	3.25
	CYBER LAWS	1867UIT CL	NA	NA	NA	NA				NA	NA	NA	NA
	PROJECT IMPLEMENTATI ON	1861UIT PR	3	3	3	3	3	3	3	3	3	3	3
	SECURITY IN COMPUTING PRACTICAL	1862UIT PR	2	2	2	2	2				2		2
	BUSINESS INTELLIGENCE PRACTICAL	1863UIT PR	2	2	2	2	2	2	2	2	2		2
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UIT PR	2	2	2						2		2
	ENTERPRISE NETWORKING PRACTICAL	1865UIT PR	NA	NA	NA	NA	NA	NA			NA		NA
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UIT PR	1	1	1	1				1	1	1	1
			2.0 5	2.0 5	2.0 4	2.0 5	2.0 8	2.0 3	1.9 8	2.0 4	2.1 4		2.08
NA: Not Applicable as in some Courses are offered by institute but not opted by students.													



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From above graph, it is observed that average PO attainment value for all but one program outcomes is greater than 2. It means, PO attainment by corresponding courses is at very good level (value greater than 2).

ANNEXTURE I

Bachelor of Management Studies (Sports Management)- BMS (SM)

Table No. I.1: PO CO Mapping Matrix:
Bachelor of Management Studies (Sports Management) BMS(SM):
Academic Year-2019-20

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	*			*		*	
I	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	*			*		*	*
I	PRINCIPLES OF MANAGEMENT	1811BSPOM	*			*			*
I	BUSINESS ECONOMICS	1812BSBEC	*			*			
I	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS				*	*		
I	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS		*	*	*	*	*	
II	MANAGEMENT OF SPORTS	1823BSMLT	*			*		*	


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	LEAGUES & TEAMS								
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	*			*		*	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	*					*	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	*			*		*	*
II	MARKETING MANAGEMENT	1822BSMMT	*			*			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT – II	1826BSBPS		*	*	*	*	*	*
III	SPORTS & ENTERTAINMENT MARKETING	1831BSENT	*			*		*	
III	SPORTS FUNDING & FINANCIAL MANAGEMENT	1832BSSFF	*			*		*	
III	SPORTS MEDIA , BROADCASTING & JOURNALISM	1833BSMBJ	*			*		*	
III	PR, SPONSORSHIP & ADVERTISING IN SPORTS	1834BSPSA	*			*			
III	SPORTS EVENT MANAGEMENT	1835BSSEM	*			*		*	*
III	PROFESSIONAL INDUSTRY ENGAGEMENT	1836BSPIE		*	*		*	*	*
IV	SPORTS LAW & RISK MANAGEMENT	1842BSLRM	*					*	
IV	GLOBAL SPORTS TOURISM	1843BSGST	*			*		*	
IV	SPORTS HEALTH & NUTRITION	1844BSSHN	*			*			
IV	SPORTS PSYCHOLOGY	1845BSPSY	*			*		*	
IV	BRAND MANAGEMENT	1841BSBMT	*			*		*	
IV	WORK BASED LEARNING ROUTE	1846BSWBL		*	*	*	*	*	*

**Table No. I.2: CO Attainment Level: Bachelor of management (Sports management)
BMS(SM)- Academic Year - 2019-20**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	2.8	2	Fully Attained	NA
	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	2.4	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1811BSPOM	1.4	2	Not Attained	Assignments , tutorials, exercises and remedial



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						coaching shall be planned
	BUSINESS ECONOMICS	1812BSBEC	3.2	2	Fully Attained	NA
	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS	3	2	Fully Attained	NA
	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS	2	2	Fully Attained	NA
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	2.6	2	Fully Attained	NA
	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	2.6	2	Fully Attained	NA
	HUMAN RESOURCE MANAGEMENT	1821BSHRM	2	2	Fully Attained	NA
	MARKETING MANAGEMENT	1822BSMMT	2	2	Fully Attained	NA
	BASICS OF PRACTICAL SPORTS MANAGEMENT - II	1826BSBPS	2	2	Fully Attained	NA
				2	Fully Attained	NA
III	SPORTS & ENTERTAINMENT MARKETING	1931BSENT	2.6	2	Fully Attained	NA
	SPORTS FUNDING & FINANCIAL MANAGEMENT	1932BSSFF	2.6	2	Fully Attained	NA
	SPORTS MEDIA, BROADCASTING & JOURNALISM	1933BSMBJ	3	2	Fully Attained	NA
	PR, SPONSORSHIP & ADVERTISING IN SPORTS	1934BSPSA	2.4	2	Fully Attained	NA



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	SPORTS EVENT MANAGEMENT	1935BSSEM	3	2	Fully Attained	NA
	PROFESSIONAL INDUSTRY ENGAGEMENT	1936BSPIE	4	2	Fully Attained	NA
IV	SPORTS LAW & RISK MANAGEMENT	1842BSLRM	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	GLOBAL SPORTS TOURISM	1843BSGST	1.6	2	Not Attained	
	SPORTS HEALTH & NUTRITION	1844BSSHIN	1.6	2	Not Attained	
	SPORTS PSYCHOLOGY	1845BSPSY	2	2	Fully Attained	NA
	BRAND MANAGEMENT	1841BSBMT	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	WORK BASED LEARNING ROUTE	1846BSWBL	4	2	Fully Attained	NA
		Average	2.38			

NA: Not Applicable as target level is fully attained.

Data upto semester IV is available as this program is started in the academic year 2018-19.

Table No. I.2a: PO Attainment Level- BMS (Sports Management)- 2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.

Table No. I.3: Results of CO-PO attainment- Bachelor of Management Studies (Sports Management)-BMS(SM)-Academic Year 2019-20

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
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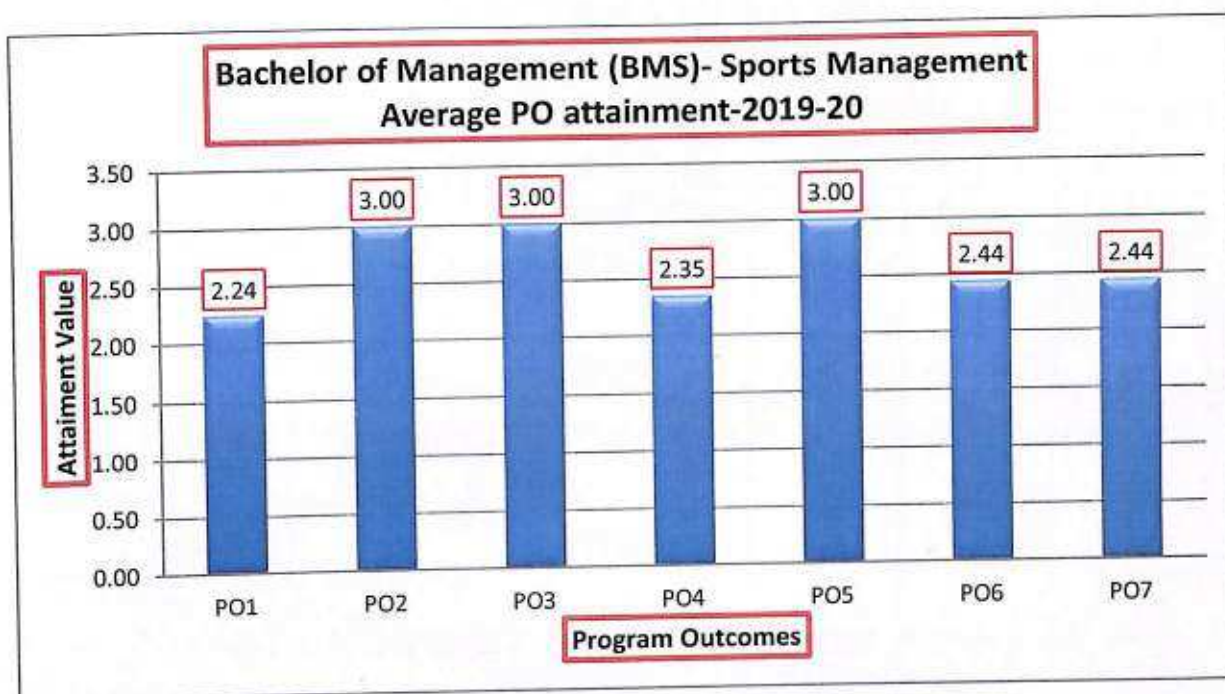

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I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	2.8			2.8		2.8	
I	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	2.4			2.4		2.4	2.4
I	PRINCIPLES OF MANAGEMENT	1811BSPOM	1.4			1.4			1.4
I	BUSINESS ECONOMICS	1812BSBEC	3.2			3.2			
I	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS				3	3		
I	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS		2	2	2	2	2	
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	2.6			2.6		2.6	
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	1.6			1.6		1.6	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	2.6					2.6	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	2			2		2	2
II	MARKETING MANAGEMENT	1822BSMMT	2			2			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT - II	1826BSBPS		2	2	2	2	2	2
III	SPORTS & ENTERTAINMENT MARKETING	1931BSENT	2.6			2.6		2.6	
III	SPORTS FUNDING & FINANCIAL MANAGEMENT	1932BSSFF	2.6			2.6		2.6	
III	SPORTS MEDIA , BROADCASTING & JOURNALISM	1933BSMBJ	3			3		3	
III	PR, SPONSORSHIP & ADVERTISING IN SPORTS	1934BSPSA	2.4			2.4			
III	SPORTS EVENT MANAGEMENT	1935BSSEM	3			3		3	3
III	PROFESSIONAL INDUSTRY ENGAGEMENT	1936BSPIE		4	4		4	4	4
IV	SPORTS LAW & RISK MANAGEMENT	1842BSLRM	1.6					1.6	
IV	GLOBAL SPORTS TOURISM	1843BSGST	1.6			1.6		1.6	
IV	SPORTS HEALTH & NUTRITION	1844BSSHN	1.6			1.6			
IV	SPORTS PSYCHOLOGY	1845BSPSY	2			2		2	
IV	BRAND MANAGEMENT	1841BSBMT	1.6			1.6		1.6	
IV	WORK BASED LEARNING ROUTE	1846BSWBL		4	4	4	4	4	4
		Average	2.2 4	3.0 0	3.0 0	2.3 5	3.0 0	2.4 4	2.6 9



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From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2. It means, PO attainment by corresponding courses is at Very Good (value between 2 and 2.5) level. In fact in some cases it is at excellent level (value greater than 2.5).

ALL POST GRADUATE COURSES

ANNEXTURE J

Master of Arts (Economics)- MA(ECO)

Table No. J.1: PO CO Mapping Matrix:

Master of Arts (Economics)- MA(ECO)- Academic Year-2019-20

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
I	MICROECONOMICS -I	1611PMEMI	*	*	*	*		
	MACROECONOMICS -I	1612PMEMA	*	*	*	*		
	ECONOMICS OF DEVELOPMENT	1613PMEED	*	*	*	*	*	*
	STATISTICAL METHODS IN ECONOMICS	1814PMESM		*	*	*		


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II	MICROECONOMICS -II	1623PMEMI	*	*	*	*	*	
	MACROECONOMICS -II	1624PMEMA	*	*	*	*		
	PUBLIC ECONOMICS	1621PMEPE	*	*	*	*	*	*
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		*	*	*		
III	ECONOMICS OF AGRICULT URAL PRODUCTION AND RURAL MARKETS	1731PMEAP	*	*	*	*	*	*
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	*	*	*	*		*
	INDUSTRIAL ECONOMICS	1733PMEIE	*	*	*	*	*	*
	BANKING: THEORY AND POLICY	1734PMEBA	*	*	*	*	*	*
IV	AGRICULTURAL DEVELOP MENT AND POLICY	1741PMEAD	*	*	*	*	*	*
	INTERNATIONAL FINANCE	1742PMEIF	*	*	*	*	*	*
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	*	*	*	*	*	*
	RESEARCH PROJECT	1744PMERP	*	*	*	*	*	*

**Table No. J.2: CO Attainment Level: Master of Arts (Economics)- MA(ECO)-
Academic Year-2019-20**

Seme ster	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I			1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MICROECONOMICS -I	1611PMEMI				
	MACROECONOMICS -I	1612PMEMA	2.6	2	Fully Attained	NA
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.6	2	Fully Attained	NA
	STATISTICAL METHODS IN ECONOMICS	1814PMESM	2.4	2	Fully Attained	NA
II	MICROECONOMICS -	1623PMEMI	2.8	2	Fully	NA


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	II				Attained	
	MACROECONOMICS -II	1624PMEMA	2.4	2	Fully Attained	NA
	PUBLIC ECONOMICS	1621PMEPE	2.4	2	Fully Attained	NA
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT	2.4	2	Fully Attained	NA
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2	2	Fully Attained	NA
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	2.4	2	Fully Attained	NA
	INDUSTRIAL ECONOMICS	1733PMEIE	2	2	Fully Attained	NA
	BANKING: THEORY AND POLICY	1734PMEBA	2.4	2	Fully Attained	NA
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	3.4	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1742PMEIF	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3	2	Fully Attained	NA
	RESEARCH PROJECT	1744PMERP	2	2	Fully Attained	NA
		Average	2.43			

NA: Not Applicable as target level is fully attained

Table No.J.2a: PO Attainment Level- MA (Economics)- 2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.



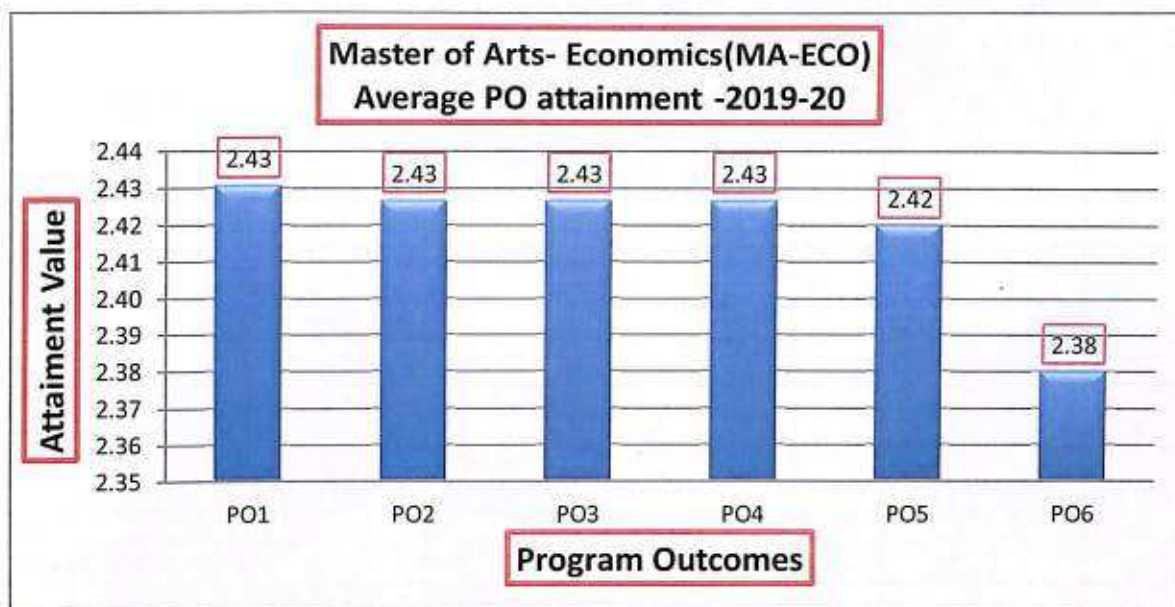
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**Table No. J.3: Results of CO-PO attainment-
Master of Arts (Economics)- MA(ECO)-Academic Year 2019-20**

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
I	MICROECONOMICS -I	1611PMEMI	1.8	1.8	1.8	1.8		
	MACROECONOMICS -I	1612PMEMA	2.6	2.6	2.6	2.6		
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.6	2.6	2.6	2.6	2.6	2.6
	STATISTICAL METHODS IN ECONOMICS	1814PMESM		2.4	2.4	2.4		
II	MICROECONOMICS -II	1623PMEMI	2.8	2.8	2.8	2.8	2.8	
	MACROECONOMICS -II	1624PMEMA	2.4	2.4	2.4	2.4		
	PUBLIC ECONOMICS	1621PMEPE	2.4	2.4	2.4	2.4	2.4	2.4
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		2.4	2.4	2.4		
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2	2	2	2	2	2
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	2.4	2.4	2.4	2.4		2.4
	INDUSTRIAL ECONOMICS	1733PMEIE	2	2	2	2	2	2
	BANKING: THEORY AND POLICY	1734PMEBA	2.4	2.4	2.4	2.4	2.4	2.4
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	3.4	3.4	3.4	3.4	3.4	3.4
	INTERNATIONAL FINANCE	1742PMEIF	1.6	1.6	1.6	1.6	1.6	1.6
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3	3	3	3	3	3
	RESEARCH PROJECT	1744PMERP	2	2	2	2	2	2
		Average	2.4 3	2.4 3	2.4 3	2.4 3	2.4 2	2.3 8


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From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2. It means, PO attainment by corresponding courses is at very good level (value between 2.0 and 2.5).

ANNEXTURE K

Master of Arts (Geography)- MA(GEO)

Table No. I.1: PO CO Mapping Matrix:

Master of Arts (Geography)- MA(GEO)- Academic Year-2019-20

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	*					
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	*					
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP		*	*			
	SPATIAL ORGANISATION OF ECONOMIC	1614PGEEA		*	*			



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	ACTIVITIES							
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA					*	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA					*	
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	*					*
	GEOINFORMATICS	1622PGEIF				*		
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGCEP		*	*			
	URBAN GEOGRAPHY	1624PGEUG			*			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - III	1625PGESA				*	*	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGESA					*	
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGERM	*				*	
	CLIMATOLOGY OF TROPICS	1732PGECT	*					*
	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGESA		*	*			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGETT					*	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGETT					*	
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEHE	*			*		
	ECOLOGY AND ENVIRONMENT	1742PGEHE					*	*
	DISSERTATION	1743PGED	*	*	*	*	*	*



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**Table No. K.2: CO Attainment Level: Master of Arts (Geography)- MA(GEO)-
Academic Year-2019-20**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	3	2	Fully Attained	NA
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	4	2	Fully Attained	NA
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP	4.6	2	Fully Attained	NA
	SPATIAL ORGANISATION OF ECONOMIC ACTIVITIES	1614PGEEA	3.6	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA	5	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA	5	2	Fully Attained	NA
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	3.6	2	Fully Attained	NA
	GEOINFORMATICS	1622PGEIF	4	2	Fully Attained	NA
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGECP	4	2	Fully Attained	NA
	URBAN GEOGRAPHY	1624PGEUG	4	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - III	1625PGESA	4	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGESA	4	2	Fully Attained	NA
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGERM	2.4	2	Fully Attained	NA
	CLIMATOLOGY OF TROPICS	1732PGECT	3	2	Fully Attained	NA


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	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGESA	2.6	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGETT	2	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGETT	3	2	Fully Attained	NA
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEHE	2.6	2	Fully Attained	NA
	ECOLOGY AND ENVIRONMENT	1742PGEEE	2.6	2	Fully Attained	NA
	DISSERTATION	1743PGED	2	2	Fully Attained	NA
	Average		3.45			

NA: Not Applicable as target level is fully attained.

Table No.K.2a: PO Attainment Level- MA (Geography)- 2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	
A2019-20	5	4	Fully Attained	

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment level are greater than target level-4. Hence at present no plans are required.

**Table No. K.3: Results of CO-PO attainment-
Master of Arts (Geography)- MA(GEO)-Academic Year 2019-20**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
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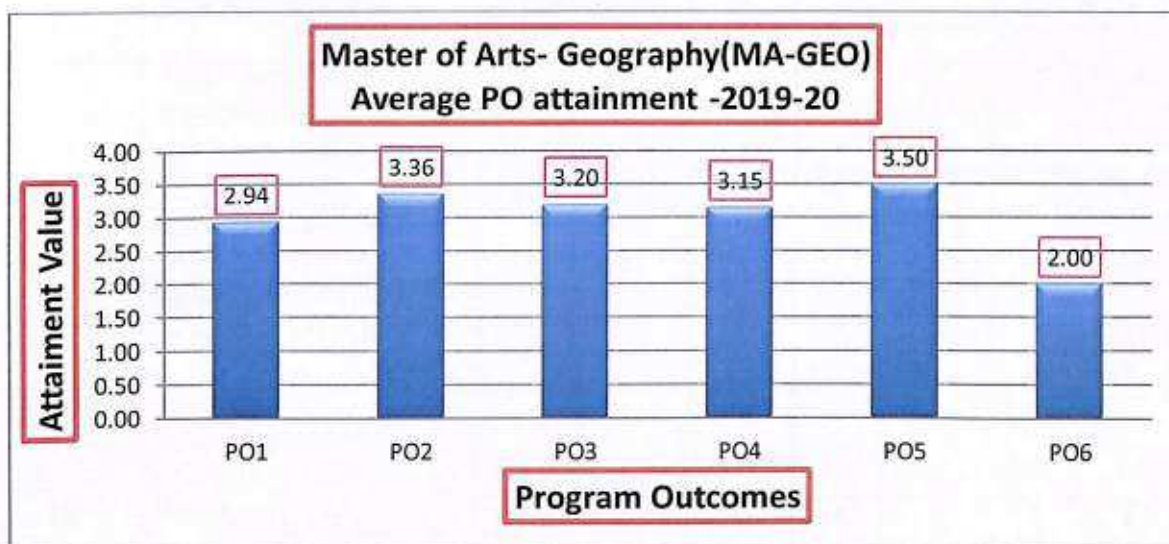
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	3					
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	4					
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP		4.6	4.6			
	SPATIAL ORGANISATION OF ECONOMIC ACTIVITIES	1614PGEEA		3.6	3.6			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA					5	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA					5	
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	3.6					3.6
	GEOINFORMATICS	1622PGEIF				4		
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGCEP		4	4			
	URBAN GEOGRAPHY	1624PGEUG			4			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - III	1625PGESA				4	4	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGESA					4	
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGERM	2.4				2.4	
	CLIMATOLOGY OF TROPICS	1732PGECT	3					3
	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGESA		2.6	2.6			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGETT					2	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGETT					3	
IV	GEO-INFORMATICS	1741PGEHE	2.6			2.6		



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	AND HEALTH CARE							
	ECOLOGY AND ENVIRONMENT	1742PGEEE					2.6	2.6
	DISSERTATION	1743PGED	2	2	2	2	2	2
		Average	2.94	3.36	3.20	3.15	3.50	2.00



From above graph, it is observed that average PO attainment value for all but one program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).

ANNEXTURE L

Master of Commerce (Accountancy)- MCOM (Accountancy)

Table No. I.1: PO CO Mapping Matrix:

Master of Commerce (Accountancy) - MCOM (Accountancy)

Academic Year-2019-20

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
	STRATEGIC MANAGEMENT	1611PCMSM	*		*	*	*
	MICROECONOMICS	1612PCMEB	*			*	
I	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	*			*	
	BUSINESS ETHICS AND CSR	1614PCMBE	*			*	

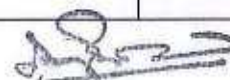


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II	RESEARCH METHODOLOGY	1621PCMRM	*	*	*		*
	MACROECONOMICS	1622PCMME	*			*	
	CORPORATE FINANCE	1623PCMCF	*	*	*		*
	E COMMERCE	1624PCMEC	*	*			*
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	*	*		*	
	DIRECT TAX	1732PCMDT	*	*			*
	ADVANCED COST ACCOUNTING	1733PCMCA	*			*	
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	*	*		*	*
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	*				
	INDIRECT TAX	1742PCMGT	*	*			*
	IFRS	1743PCMFR	*	*			
	RESEARCH BASED PROJECT	1744PCMRP	*	*	*	*	*

**Table No. L.2: CO Attainment Level: Master of Commerce (Accountancy)-
MCOM (Accountancy)-Academic Year-2019-20**

Seme ster	Course	Course Code	CO Attainme nt value	Attainme nt Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMEN T	1611PCMSM	2	2	Fully Attained	NA
	MICROECONO MICS	1612PCMEB	2.4	2	Fully Attained	NA
	COST AND MANAGEMEN T ACCOUNTING	1613PCMCA	2.6	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	1614PCMBE	2.6	2	Fully Attained	NA



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II	RESEARCH METHODOLOGY	1621PCMRM	2.8	2	Fully Attained	NA
	MACROECONOMICS	1622PCMME	3.4	2	Fully Attained	NA
	CORPORATE FINANCE	1623PCMCF	2.8	2	Fully Attained	NA
	E COMMERCE	1624PCMEC	2.4	2	Fully Attained	NA
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DIRECT TAX	1732PCMDT	3.2	2	Fully Attained	NA
	ADVANCED COST ACCOUNTING	1733PCMCA	2	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	2	Fully Attained	NA
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	2.4	2	Fully Attained	NA
	INDIRECT TAX	1742PCMGT	3.8	2	Fully Attained	NA
	IFRS	1743PCMFR	3.4	2	Fully Attained	NA
	RESEARCH BASED PROJECT	1744PCMRP	3	2	Fully Attained	NA
		Average	2.73			
NA: Not Applicable as target level is fully attained						

Table No.L.2a: PO Attainment Level- MCOM (Accountancy)-2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	
A2019-20	5	4	Fully Attained	
NA: Not Applicable as target level is fully attained				

9. Planned Actions for Course Attainment:



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The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than target level-4. Hence at present no plans are required.

**Table No. L3: Results of CO-PO attainment-
Master of Commerce (Accountancy)- MCOM (Accountancy)- Academic Year 2019-20**

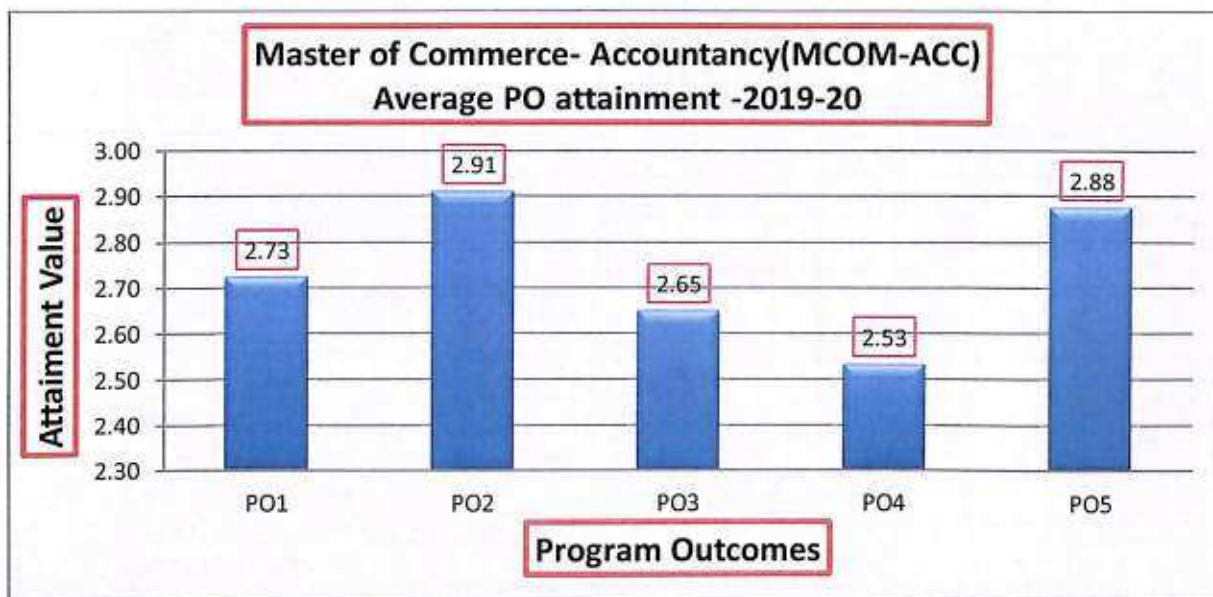
Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
	STRATEGIC MANAGEMENT	1611PCMSM	2		2	2	2
I	MICROECONOMICS	1612PCMEB	2.4			2.4	
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	2.6			2.6	
	BUSINESS ETHICS AND CSR	1614PCMBE	2.6			2.6	
II	RESEARCH METHODOLOGY	1621PCMRM	2.8	2.8	2.8		2.8
	MACROECONOMICS	1622PCMME	3.4			3.4	
	CORPORATE FINANCE	1623PCMCF	2.8	2.8	2.8		2.8
	E COMMERCE	1624PCMEC	2.4	2.4			2.4
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	1.8	1.8		1.8	
	DIRECT TAX	1732PCMDT	3.2	3.2			3.2
	ADVANCED COST ACCOUNTING	1733PCMCA	2			2	
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	3		3	3
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	2.4				
	INDIRECT TAX	1742PCMGT	3.8	3.8			3.8
	IFRS	1743PCMFR	3.4	3.4			
	RESEARCH BASED	1744PCMRP	3	3	3	3	3



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	PROJECT						
		Average	2.73	2.91	2.65	2.53	2.88



From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).

ANNEXTURE M

Master of Commerce (Management)- MCOM (Management)

Table No. M.1: PO CO Mapping Matrix:

Master of Commerce (Management) - MCOM (Management)
Academic Year-2019-20

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO 1	PO 2	PO 3	PO 4	PO 5
I	STRATEGIC MANAGEMENT	1611PCMSM	*		*	*	*
	MICROECONOMICS	1612PCMEB	*			*	
	SERVICE MARKETING	1715PCMMK	*			*	*
	BUSINESS ETHICS AND CSR	1614PCMBE	*			*	

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II	RESEARCH METHODOLOGY	1621PCMRM	*	*	*		*
	MACROECONOMICS	1622PCMME	*			*	
	RETAIL MANAGEMENT	1723PCMRM	*	*		*	*
	E COMMERCE	1624PCMEC	*	*			*
III	RURAL MARKETING	1731PCMRM	*			*	
	ENTREPRENEURSHIP	1732PCMEP	*		*	*	*
	ORGANISATIONAL BEHAVIOUR	1733PCMOB	*		*	*	*
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	*	*		*	*
IV	RESEARCH BASED PROJECT	1744PCMRP	*	*	*	*	*
	SUPPLY CHAIN MANAGEMENT	1741PCMML	*	*		*	
	BRAND MANAGEMENT	1742PCMBM	*			*	*
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMBR	*			*	*

**Table No. M.2: CO Attainment Level: Master of Commerce (Management)-
MCOM (Management)-Academic Year-2019-20**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	1611PCMSM	2.6	2	Fully Attained	NA
	MICROECONOMICS	1612PCMEB	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SERVICE MARKETING	1715PCMMK	3	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	1614PCMBE	3.6	2	Fully Attained	NA
II	RESEARCH METHODOLOGY		2.4	2	Fully Attained	NA
	MACROECONOMICS	1621PCMRM	2.8	2	Fully Attained	NA
	RETAIL	1622PCMM	2.4	2	Fully	NA



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	MANAGEMENT	E			Attained	
	E COMMERCE	1723PCMR M	2.8	2	Fully Attained	NA
III	RURAL MARKETING	1624PCME C	2.6	2	Fully Attained	NA
	ENTREPRENEUR SHIP		3.4	2	Fully Attained	NA
	ORGANISATION AL BEHAVIOUR	1731PCMR M	2	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1732PCME P	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
IV	RESEARCH BASED PROJECT	1733PCMO B	1	2	Not Attained	
	SUPPLY CHAIN MANAGEMENT	1734PCMIP	2.4	2	Fully Attained	NA
	BRAND MANAGEMENT		3	2	Fully Attained	NA
	MANAGEMENT OF BUSINESS RELATIONS	1744PCMR P	1.4	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
		Average	2.37			

NA: Not Applicable as target level is fully attained.

Table No. M.2a: PO Attainment Level- (Management)-2019-20

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4			

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.



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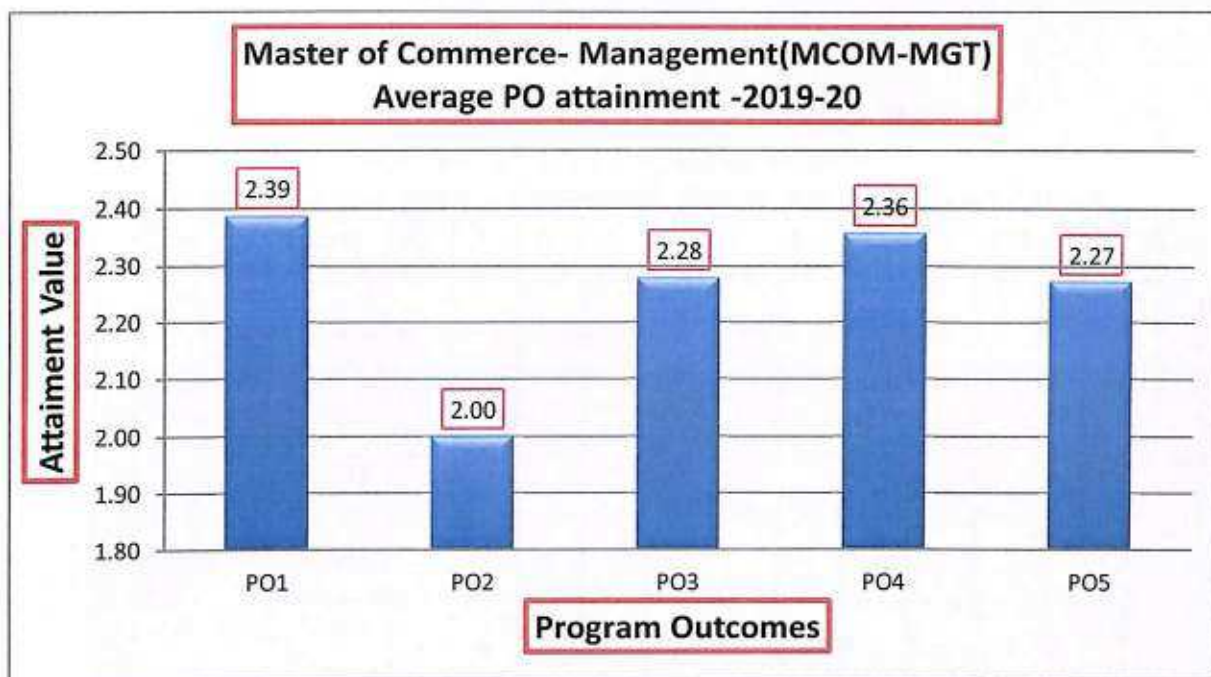
**Table No. M.3: Results of CO-PO attainment-
Master of Commerce (Management)- MCOM (Management) Academic Year 2019-20**

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO 1	PO 2	PO 3	PO 4	PO 5
	STRATEGIC MANAGEMENT	1611PCMSM	2.6		2.6	2.6	2.6
I	MICROECONOMICS	1612PCMEB	1.8			1.8	
	SERVICE MARKETING	1715PCMMK	3			3	3
	BUSINESS ETHICS AND CSR	1614PCMBE	3.6			3.6	
II	RESEARCH METHODOLOGY	1621PCMRM	2.4	2.4	2.4		2.4
	MACROECONOMICS	1622PCMME	2.8			2.8	
	RETAIL MANAGEMENT	1723PCMRM	2.4	2.4		2.4	2.4
	E COMMERCE	1624PCMEC	2.8	2.8			2.8
III	RURAL MARKETING	1731PCMRM	2.6			2.6	
	ENTREPRENEURSHIP	1732PCMEP	3.4		3.4	3.4	3.4
	ORGANISATIONAL BEHAVIOUR	1733PCMOB	2		2	2	2
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	1	1		1	1
IV	RESEARCH BASED PROJECT	1744PCMRP	1	1	1	1	1
	SUPPLY CHAIN MANAGEMENT	1741PCMML	2.4	2.4		2.4	
	BRAND MANAGEMENT	1742PCMBM	3			3	3
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMBR	1.4			1.4	1.4
		Average	2.39	2.00	2.28	2.36	2.27



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From above graph, it is observed that average PO attainment value for all program outcomes is greater than 2. It means, PO attainment by corresponding courses is at very good level (value between 2.0 and 2.5).

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Master of Science (Information Technology) - M.Sc.(IT)

Table No. N.1: PO CO Mapping Matrix:

Master of Science (Information Technology)-M.Sc.(IT) Academic Year-2019-20

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	ADVANCE DATABASE SYSTEMS	1711PIT DB	*	*	*	*	*			*	*	*		*
	DISTRIBUTE D SYSTEMS	1612PIT DS	*	*	*	*	*			*	*	*	*	*
	DATA ANALYSIS TOOLS	1613PIT DA	*	*	*	*	*	*	*	*	*	*		
	SOFTWARE TESTING	1614PIT ST	*	*	*	*	*		*	*	*	*	*	*
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PIT PDB	*	*	*	*	*			*	*	*		*
	DISTRIBUTE D SYSTEMS PRACTICAL	1616PIT DS	*	*	*	*	*			*	*	*	*	*
	DATA ANALYSIS TOOLS PRACTICAL	1617PIT DA	*	*	*	*	*	*	*	*	*	*		
	SOFTWARE TESTING PRACTICAL	1618PIT ST	*	*	*	*	*		*	*	*	*	*	*
	MOBILE COMPUTING	1621PIT MC	*	*	*	*	*			*	*	*	*	*
	ADVANCED COMPUTER NETWORKS	1622PIT CN	*	*	*	*				*	*	*		*
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PIT CC	*	*	*	*				*	*	*	*	*
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE	1724PIT DM	*	*	*	*	*	*	*	*	*	*		*
	MOBILE	1625PIT	*	*	*	*	*			*	*	*	*	*



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II	COMPUTING PRACTICAL	MC												
	ADVANCED COMPUTER NETWORKS PRACTICAL	1626PIT CN	*	*	*	*				*	*	*		*
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM PRACTICAL	1627PIT CC	*	*	*	*				*	*	*	*	*
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PIT DM	*	*	*	*	*	*	*	*	*	*		*
III	EMBEDDED SYSTEMS	1731PIT ES	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT	1732PIT IS	*	*	*	*				*	*			*
	ARTIFICIAL NEURAL NETWORKS	1733PIT NN	*	*	*	*				*	*	*		*
	VIRTUALIZATION	1733PIT VR	*	*	*						*			*
	DIGITAL IMAGE PROCESSING	1734PIT IP	*	*							*	*		
	ETHICAL HACKING	1734PIT EH	*	*	*	*		*	*	*	*		*	*
	EMBEDDED SYSTEMS PRACTICAL	1731PE SPR	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PIS PR	*	*	*	*				*	*			*
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PN NPR	*	*	*					*	*	*		*



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	VIRTUALIZATION PRACTICAL	1733PV RPR	*	*	*						*			*
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIP R	*	*							*	*		
	ETHICAL HACKING PRACTICAL	1734PE HPR	*	*	*	*		*	*	*	*		*	*
IV	ARTIFICIAL INTELLIGENCE	1741PIT AI	*	*	*	*	*	*	*		*	*		*
	IT INFRASTRUCTURE MANAGEMENT	1742PIT IM	*	*	*						*	*		*
	INTELLIGENT SYSTEMS	1743PIT IS	*	*	*	*	*		*		*	*		*
	REAL TIME EMBEDDED SYSTEMS	1743PIT ES	*	*	*						*			*
	COMPUTER FORENSICS	1843PIT CF	*	*	*	*				*	*	*		*
	ADVANCED IMAGE PROCESSING	1744PIT IP	*	*	*						*	*		
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PIT ES	*	*	*	*				*	*	*		
	CLOUD MANAGEMENT	1744PIT CM	*	*	*						*	*		*
	INTELLIGENT SYSTEMS PRACTICAL	1745PIT IS	*	*	*	*	*		*		*	*		*
	REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PIT ES	*	*	*						*			*
	COMPUTER FORENSICS PRACTICAL	1845PIT CF	*	*	*	*				*	*	*		*
	ADVANCED IMAGE PROCESSING PRACTICAL	1746PIT IP	*	*	*						*	*		



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DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PITES	*	*	*	*					*	*	*		
CLOUD MANAGEMENT PRACTICAL	1746PITCM	*	*	*							*	*		*
PROJECT	1747PITPR	*	*	*	*	*	*	*	*	*	*	*		*

**Table No. N.2: CO Attainment Level: Master of Science (Information Technology)-
M.Sc.(IT)-Academic Year-2019-20**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	ADVANCE DATABASE SYSTEMS	1711PITDB	2	2	Fully Attained	NA
	DISTRIBUTED SYSTEMS	1612PITDS	2.2	2	Fully Attained	NA
	DATA ANALYSIS TOOLS	1613PITDA	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SOFTWARE TESTING	1614PITST	2	2	Fully Attained	NA
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PITPDB	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISTRIBUTED SYSTEMS PRACTICAL	1616PITDS	1	2	Not Attained	
	DATA ANALYSIS TOOLS PRACTICAL	1617PITDA	1	2	Not Attained	
	SOFTWARE TESTING PRACTICAL	1618PITST	2	2	Fully Attained	NA
II	MOBILE COMPUTING	1621PITMC	2.8	2	Fully Attained	NA
	ADVANCED COMPUTER NETWORKS	1622PITCN	2.8	2	Fully Attained	NA
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PITCC	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DATA MINING WITH	1724PITDM	1.6	2	Not Attained	



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	INTRODUCTION TO DATA SCIENCE					
	MOBILE COMPUTING PRACTICAL	1625PITMC	2	2	Fully Attained	NA
	ADVANCED COMPUTER NETWORKS PRACTICAL	1626PITCN	2	2	Fully Attained	NA
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM PRACTICAL	1627PITCC	2	2	Fully Attained	NA
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PITDM	2	2	Fully Attained	NA
III	EMBEDDED SYSTEMS	1731PITES	2.8	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT	1732PITIS	2.2	2	Fully Attained	NA
	ARTIFICIAL NEURAL NETWORKS	1733PITNN	4.4	2	Fully Attained	NA
	VIRTUALIZATION	1733PITVR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1734PITIP	2.6	2	Fully Attained	NA
	ETHICAL HACKING	1734PITEH		2	Fully Attained	NA
	EMBEDDED SYSTEMS PRACTICAL	1731PESPR	3	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PISPR	2	2	Fully Attained	NA
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PNNPR	2	2	Fully Attained	NA
	VIRTUALIZATION PRACTICAL	1733PVRPR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIPPR	2	2	Fully Attained	NA
	ETHICAL HACKING PRACTICAL	1734PEHPR	NA	2	NA	NA
IV	ARTIFICIAL	1741PITAI	2.6	2	Fully	NA



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	INTELLIGENCE				Attained	
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	3	2	Fully Attained	NA
	INTELLIGENT SYSTEMS	1743PITIS	2.6	2	Fully Attained	NA
	REAL TIME EMBEDDED SYSTEMS	1743PITES	NA	2	NA	NA
	COMPUTER FORENSICS	1843PITCF	NA	2	NA	NA
	ADVANCED IMAGE PROCESSING	1744PITIP	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	NA	2	NA	NA
	CLOUD MANAGEMENT	1744PITCM	NA	2	NA	NA
	INTELLIGENT SYSTEMS PRACTICAL	1745PITIS	2	2	Fully Attained	NA
	REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PITES	NA	2	NA	NA
	COMPUTER FORENSICS PRACTICAL	1845PITCF	NA	2	NA	NA
	ADVANCED IMAGE PROCESSING PRACTICAL	1746PITIP	2	2	Fully Attained	NA
	DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PITES	NA	2	NA	NA
	CLOUD MANAGEMENT PRACTICAL	1746PITCM	NA	2	NA	NA
	PROJECT	1747PITPR	2	2	Fully Attained	
	Average		2.13			

NA: Not Applicable as target level is fully attained. Also some courses are offered by institution but not opted by students.

Table No. N.2a: PO Attainment Level- M.Sc.-IT-2020-21



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Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA

9. Planned Actions for Course Attainment:

The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10. Planned Actions for Program Outcome Attainment:

Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.

**Table No. N.3: Results of CO-PO attainment-
Master of Science (Information Technology)- M.Sc.-(IT) Academic Year 2019-20**

Semester	Course	Course Code	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PO 11	PO 12
I	ADVANCE DATABASE SYSTEMS	1711PIT DB	2	2	2	2	2			2	2	2		2
	DISTRIBUTE D SYSTEMS	1612PIT DS	2.2	2.2	2.2	2.2	2.2			2.2	2.2	2.2	2.2	2.2
	DATA ANALYSIS TOOLS	1613PIT DA	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		
	SOFTWARE TESTING	1614PIT ST	2	2	2	2	2		2	2	2	2	2	2
			1	1	1	1	1			1	1	1	1	1
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PIT PDB	1	1	1	1	1			1	1	1	1	1
	DISTRIBUTE D SYSTEMS PRACTICAL	1616PIT DS	1	1	1	1	1	1	1	1	1	1		
	DATA ANALYSIS TOOLS PRACTICAL	1617PIT DA	2	2	2	2	2		2	2	2	2	2	2
	SOFTWARE TESTING PRACTICAL	1618PIT ST												



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			2.8	2.8	2.8	2.8	2.8			2.8	2.8	2.8	2.8	2.8
	MOBILE COMPUTING	1621PIT MC	2.8	2.8	2.8	2.8				2.8	2.8	2.8		2.8
	ADVANCED COMPUTER NETWORKS	1622PIT CN	1.4	1.4	1.4	1.4				1.4	1.4	1.4	1.4	1.4
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PIT CC	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		1.6
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE	1724PIT DM	2	2	2	2	2			2	2	2	2	2
	MOBILE COMPUTING PRACTICAL	1625PIT MC	2	2	2	2				2	2	2		2
	ADVANCED COMPUTER NETWORKS PRACTICAL	1626PIT CN	2	2	2	2				2	2	2	2	2
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM PRACTICAL	1627PIT CC	2	2	2	2	2	2	2	2	2	2		2
II														
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PIT DM												
			2.8	2.8	2.8	2.8				2.8	2.8	2.8		2.8
	EMBEDDED SYSTEMS	1731PIT ES	2.2	2.2	2.2	2.2				2.2	2.2			2.2
	INFORMATION SECURITY MANAGEMENT	1732PIT IS	4.4	4.4	4.4	4.4				4.4	4.4	4.4		4.4
	ARTIFICIAL NEURAL NETWORKS	1733PIT NN	N A	N A	N A						N A			NA
	VIRTUALIZATION	1733PIT VR	2.6	2.6							2.6	2.6		
III	DIGITAL IMAGE	1734PIT IP	N A	N A	N A	N A		N A	N A	N A	N A		NA	NA



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	PROCESSING													
	ETHICAL HACKING	1734PIT EH	3	3	3	3				3	3	3		3
	EMBEDDED SYSTEMS PRACTICAL	1731PES PR	2	2	2	2				2	2			2
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PIS PR	2	2	2					2	2	2		2
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PN NPR	N A	N A	N A						N A			NA
	VIRTUALIZATION PRACTICAL	1733PV RPR	2	2							2	2		
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIP PR	N A	N A	N A	N A		N A	N A	N A	N A		NA	NA
	ETHICAL HACKING PRACTICAL	1734PE HPR												
IV			2.6	2.6	2.6	2.6	2.6	2.6	2.6		2.6	2.6		2.6
	ARTIFICIAL INTELLIGENCE	1741PIT AI	3	3	3						3	3		3
	IT INFRASTRUCTURE MANAGEMENT	1742PIT IM	2.6	2.6	2.6	2.6	2.6		2.6		2.6	2.6		2.6
	INTELLIGENT SYSTEMS	1743PIT IS	N A	N A	N A						N A			NA
	REAL TIME EMBEDDED SYSTEMS	1743PIT ES	N A	N A	N A	N A				N A	N A	NA		NA
	COMPUTER FORENSICS	1843PIT CF	1.6	1.6	1.6						1.6	1.6		
	ADVANCED IMAGE PROCESSING	1744PIT IP	N A	N A	N A	N A				N A	N A	NA		
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PIT ES	N A	N A	N A						N A	NA		NA
	CLOUD MANAGEMENT	1744PIT CM	2	2	2	2	2		2		2	2		2



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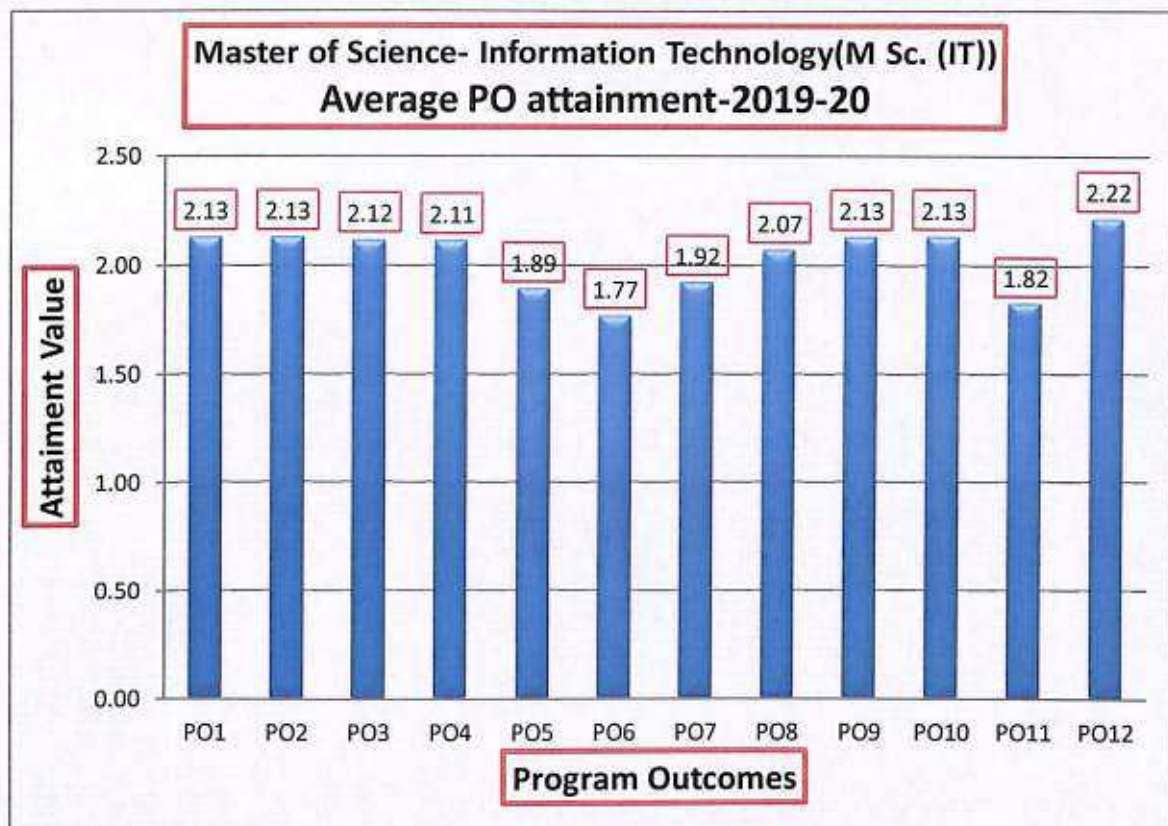
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INTELLIGENT SYSTEMS PRACTICAL	1745PIT IS	N A	N A	N A						N A			NA
REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PIT ES	N A	N A	N A	N A				N A	N A	NA		NA
COMPUTER FORENSICS PRACTICAL	1845PIT CF	2	2	2						2	2		
ADVANCED IMAGE PROCESSING PRACTICAL	1746PIT IP	N A	N A	N A	N A				N A	N A	NA		
DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PIT ES	N A	N A	N A						N A	NA		NA
CLOUD MANAGEMENT PRACTICAL	1746PIT CM	2	2	2	2	2	2	2	2	2	2		2
	Average	2.1 3	2.1 3	2.1 2	2.1 1	1.8 9	1.7 7	1.9 2	2.0 7	2.1 3	2.1 3	1.8 2	2.2 2
NA: Not Applicable as some courses are offered by institution but not opted by students.													



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From above graph, it is observed that average PO attainment value for all but four program outcomes is greater than 2. It means, PO attainment by corresponding courses is at Very Good (value between 2 and 2.5) level.

PRINCIPAL

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ARTS & MANAGEMENT STUDIES AND SHANTABEN
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