



Nagindas Khandwala College (Autonomous)

OBE DESIGN

ATTAINMENT LEVELS

ALL COURSES-2020-21

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 an 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 Appendix)

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;
- 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.



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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 2020-21**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION – I	2011UCBC		*			*	
	ENVIRONMENTAL STUDIES – I	2012UCES					*	
	FOUNDATION COURSE – I	2013UCFC	*	*			*	
	INTRODUCTION TO BUSINESS	2014UCCM	*					*
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	*	*	*	*	*	*
	BUSINESS ECONOMICS – I	2016UCBE	*	*			*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS				*		
II	BUSINESS COMMUNICATION – II	2021UCBC		*			*	
	ENVIRONMENTAL STUDIES – II	2022UCES					*	
	FOUNDATION COURSE – II	2023UCFC	*	*			*	
	SERVICE SECTOR	2024UCOM	*					*
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	2025UCAF	*	*	*	*	*	
	BUSINESS ECONOMICS – II	2026UCBE	*	*			*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS				*		
III	FUNDAMENTALS OF ADVERTISING	2031UCAD	*				*	*
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC		*			*	
	COMMERCE - III (MANAGEMENT :	2033UCCM	*				*	*



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	PRINCIPLES AND FUNCTIONS)							
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	*		*			
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	*		*			*
	BUSINESS ECONOMICS - III	1736UCBE	*					
	BUSINESS LAW – I	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 SYSTEM)	1854UCBE	*					
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	*					*
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	*		*			



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	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 ACCOUNTING	1861UCFA	*		*			*
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X -AUDITING	1862UCAU	*	*			*	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					*	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	*				*	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		*		*		
	ELEMENTS OF OPERATIONS	1866UCOR		*		*		



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	RESEARCH							

The Results of CO Attainment:

The Results of CO attainment are provided in Annexure-B

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: 40.010 = i.e. 40.00

% Students score more than 40 is 312/599 i.e. 52.09% i.e. Level-2

Average Marks in Internal examination= 17.087= i.e. 17.00

% Students score more than 17 is 432/599= 72.12%, i.e. Level-4

A (CO) 1831UCAD = 75% (2) +25%(4) = 1.5 + 1 = 2.5

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.

**Table No. 1.1: CO Attainment Level -Bachelor of Commerce (B.Com.)-
Academic Year 2020-21**

SEM	SUB	CODE	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION-I	2011UCBC	2	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES-I	2012UCES	3	2	Fully Attained	NA
	FOUNDATION COURSE-I	2013UCFC	3.4	2	Fully Attained	NA
	INTRODUCTION TO BUSINESS	2014UCCM	3.4	2	Fully Attained	NA



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	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	3.4	2	Fully Attained	NA
	BUSINESS ECONOMICS – I	2016UCBE	3	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS	3.6	2	Fully Attained	NA
II	BUSINESS COMMUNICATION – II	2021UCBC	3.6	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES – II	2022UCES	3.6	2	Fully Attained	NA
	FOUNDATION COURSE – II	2023UCFC	3.0	2	Fully Attained	NA
	SERVICE SECTOR	2024UCOM	3.4	2	Fully Attained	NA
	ACCOUNTANCY & FINANCIAL MANAGEMENT- II	2025UCAF	4.0	2	Fully Attained	NA
	BUSINESS ECONOMICS – II	2026UCBE	3.4	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS	3.4	2	Fully Attained	NA
III	FUNDAMENTALS OF ADVERTISING	2031UCAD	2.5	2	Fully Attained	NA
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC	2.25	2	Fully Attained	NA
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	2033UCCM	2.5	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS - III	1736UCBE	2.25	2	Fully Attained	NA
	BUSINESS LAW – I	1737UCBL	2.75	2	Fully	NA



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					Attained	
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	3.25	2	Fully Attained	NA
	FOUNDATION COURSE – IV	1742UCFC	3.25	2	Fully Attained	NA
	COMMERCE- IV (MANAGEMENT; PRODUCTION AND FINANCE)	1743UCOM	3.25	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	2.0	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCCA	2.25	2	Fully Attained	NA
	BUSINESS ECONOMICS – IV	1746UCBE	3.0	2	Fully Attained	NA
	BUSINESS LAW – II	1747UCBL	3.0	2	Fully Attained	NA
V	COMMERCE - V (MARKETING)	1853UCOM	2.25	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	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1952UCMA	2.25	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN	1856UCPS	2.25	2	Fully Attained	NA



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	BEHAVIOUR AT WORK					
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	2.5	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS	3	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR	3	2	Fully Attained	NA
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	2.50	2	Fully Attained	NA
	BUSINESS ECONOMICS- VI	1864UCBE	2.5	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES- PAPER II -INDIRECT TAX	1865UCDT	2.5	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	1862UCAU	3.0	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS	3.0	2	Fully Attained	NA
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	3.25	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS	2.5	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR	4.25	2	Fully Attained	NA
Average			2.852			
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.)

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION – I	2011UCBC		2			2	
	ENVIRONMENTAL STUDIES – I	2012UCES					3	
	FOUNDATION COURSE – I	2013UCFC	3.4	3.4			3.4	
	INTRODUCTION TO BUSINESS	2014UCCM	3.4					3.4
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	3.4	3.4	3.4	3.4	3.4	3.4
	BUSINESS ECONOMICS – I	2016UCBE	3	3			3	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS				3.6		
II	BUSINESS COMMUNICATION – II	2021UCBC		3.6			3.6	
	ENVIRONMENTAL STUDIES – II	2022UCES					3.6	
	FOUNDATION COURSE – II	2023UCFC	3	3			3	
	SERVICE SECTOR	2024UCOM	3.4					3.4
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	2025UCAF	4	4	4	4	4	
	BUSINESS ECONOMICS – II	2026UCBE	3.4	3.4			3.4	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS				3.4		
III	FUNDAMENTALS OF ADVERTISING	2031UCAD	2.5				2.5	2.5
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC		2.25			2.25	
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND	2033UCCM	2.5				2.5	2.5



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	FUNCTIONS)							
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	2.25		2.25			
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCC A	2.25		2.25			2.25
	BUSINESS ECONOMICS - III	1736UCBE	2.25					
	BUSINESS LAW - I	1737UCBL	2.75				2.75	2.75
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCA D	3.25				3.25	3.25
	FOUNDATION COURSE - IV	1742UCFC		3.25			3.25	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCO M	3.25				3.25	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	2		2			
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCC A	2.25					2.25
	BUSINESS ECONOMICS - IV	1746UCBE	3					
	BUSINESS LAW - II	1747UCBL	3				3	3
V	COMMERCE - V (MARKETING)	1853UCO M	2.25				2.25	2.25
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.25					
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	2.5					2.5
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	2.5		2.5			
	FINANCIAL ACCOUNTING AND AUDITING PAPER -	1952UCM A	2.25	2.25	2.25		2.25	2.25



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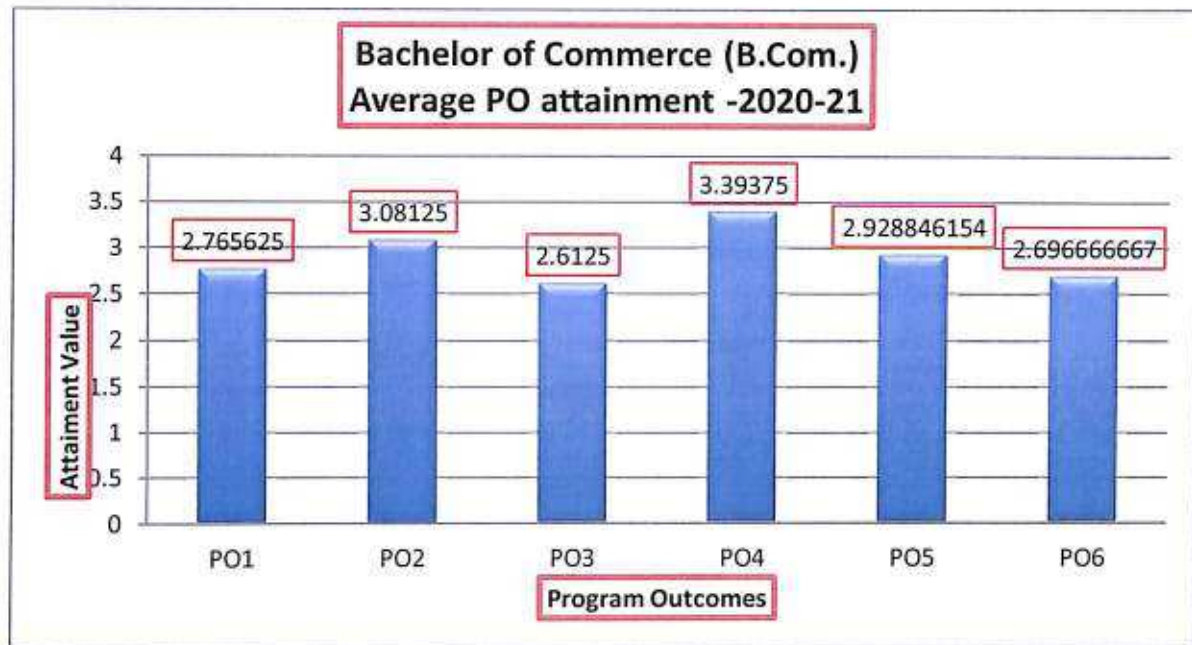
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	VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)							
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					2.25	
	EXPORT MARKETING: FUNDAMENTALS	1856UCE M	2.5				2.5	
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		3		3		
	ELEMENTS OF OPERATIONS RESEARCH	1856UCO R		3		3		
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCO M	2.5				2.5	
	BUSINESS ECONOMICS- VI	1864UCBE	2.5					
	DIRECT AND INDIRECT TAXES- PAPER II -INDIRECT TAX	1865UCDT	2.5					2.5
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX -FINANCIAL ACCOUNTING	1861UCFA	2.25		2.25			2.25
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X -AUDITING	1862UCA U	3	3			3	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					3	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCE M	3.25				3.25	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		2.5		2.5		
	ELEMENTS OF OPERATIONS RESEARCH	1866UCO R		4.25		4.25		
			2.7656 25	3.081 25	2.61 25	3.393 75	2.9288 46	2.6966 67


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

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)


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

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

Target Level was 4

Hence PO attended.

3. For Academic Year 2020-21

(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).

PO Attainment= 80%(2.87) + 20% (4) = 2.296+ 0.8 = **3.096- Level 5- Excellent**

Target Level was 4. Hence PO attended.

Table No. 1.2a PO Attainment Level

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
A2020-21	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 levels are greater than target level-4. Hence at present no plans are required.

Following table no. 1.3, table no. 1.4 and table no. 1.5 provides semester wise CO attainment and PO attainment levels of 10 undergraduate programs for three academic years.


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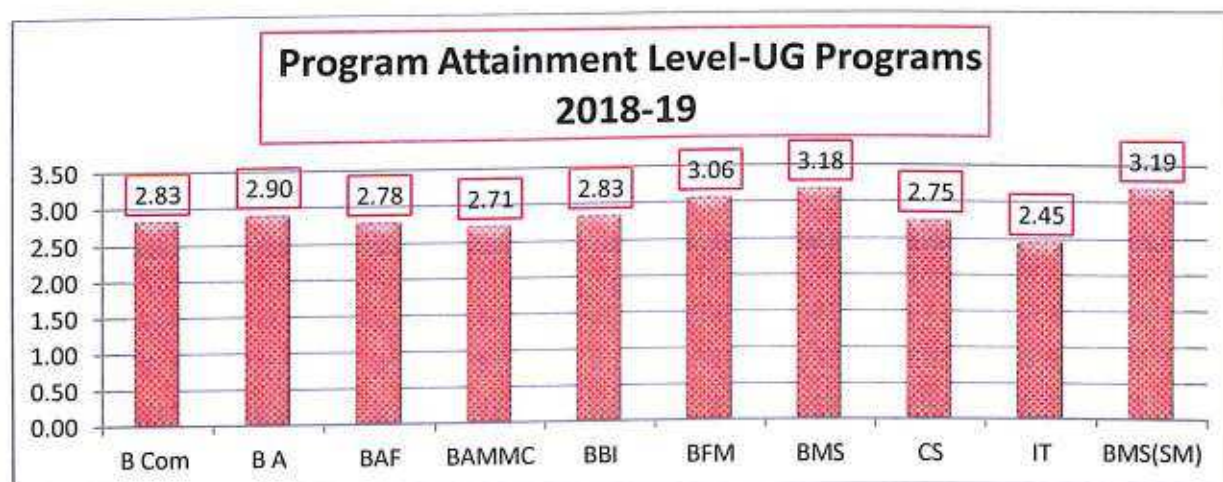
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Table No.1.3

Attainment level - Undergraduate programs academic year 2018-19

Academic Year- 2019-20	Attainment level - Undergraduate programs							Program Attainment Direct+ Indirect
	First Year		Second Year		Third Year		Average	
	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.



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.

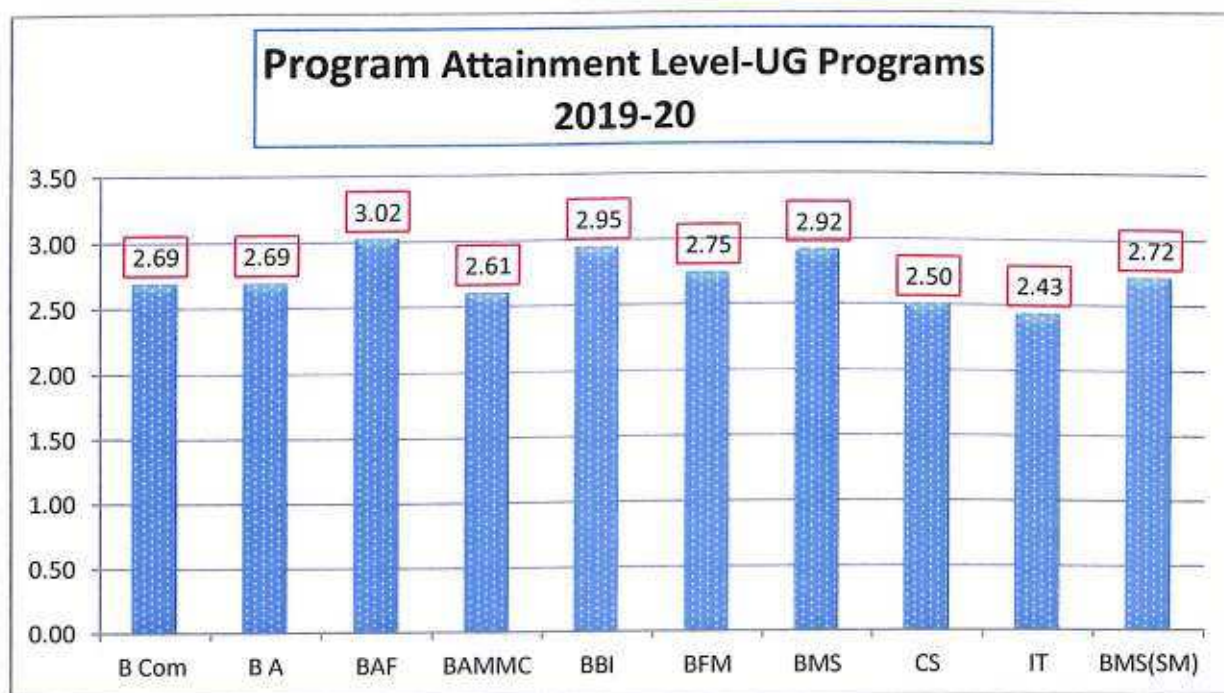

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Table No.1.4

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		
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.



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.

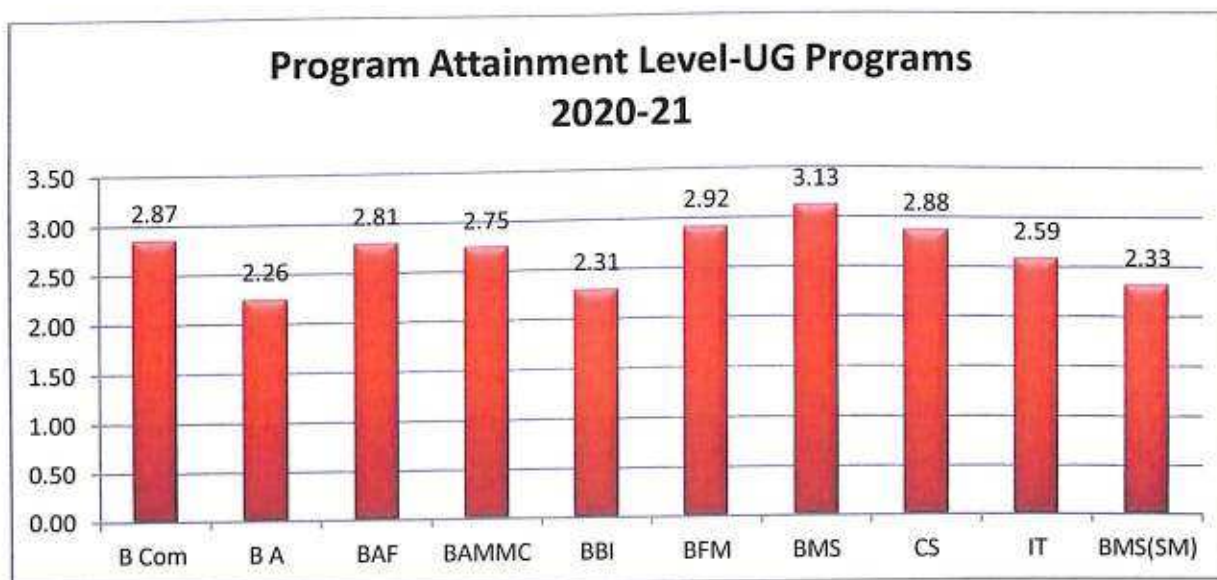

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Table No.1.5
Attainment level - Undergraduate programs academic year 2020-21

Academic Year-2020-21	Attainment level - Undergraduate courses							Course Attainment Direct + indirect
	First Year		Second Year		Third Year		Average	
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	Direct	
B Com	3.11	3.49	2.39	2.86	2.5	2.86	2.87	3.09
B A	2.86	3.11	2.53	2.44	1.29	1.32	2.26	2.61
BAF	3.06	2.91	2.71	2.68	2.71	2.79	2.81	3.05
BAMMC	2.8	2.77	2.75	2.67	2.64	2.87	2.75	3.00
BBI	2.66	2.69	1.39	1.5	2.46	3.13	2.31	2.64
BFM	2.77	2.71	3.11	3.07	2.96	2.92	2.92	3.14
BMS	3.26	3.46	2.94	3.06	2.85	3.18	3.13	3.30
CS	2.8	2.9	2.7	3.4	2.65	2.83	2.88	3.10
IT	2.34	2.92	2.4	2.81	2.56	2.53	2.59	2.87
BMS(SM)	2.23	2.37	2	2.64	1.87	2.84	2.33	2.66

Now we provide graphical representation of PO attainment levels of UG Program for academic year 2020-21.



It is observed that program attainment value for all but three 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 three program attainment value is between 2 and 2.5. i.e. Very Good.

In the following table no. 1.6, table no. 1.7 and table no. 1.8 provides semester wise CO attainment and PO attainment levels of 5 post graduate programs for three academic years.



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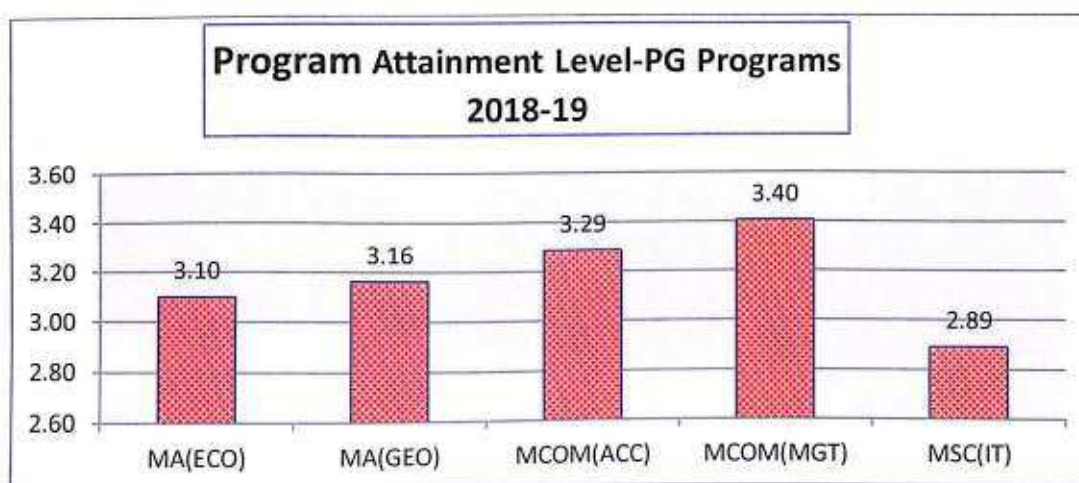
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Table No.1.6

Attainment level - Postgraduate programs academic year 2018-19

	Attainment level - Postgraduate courses					Program Attainment Direct + indirect
Academic Year- 2020-21	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.



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.

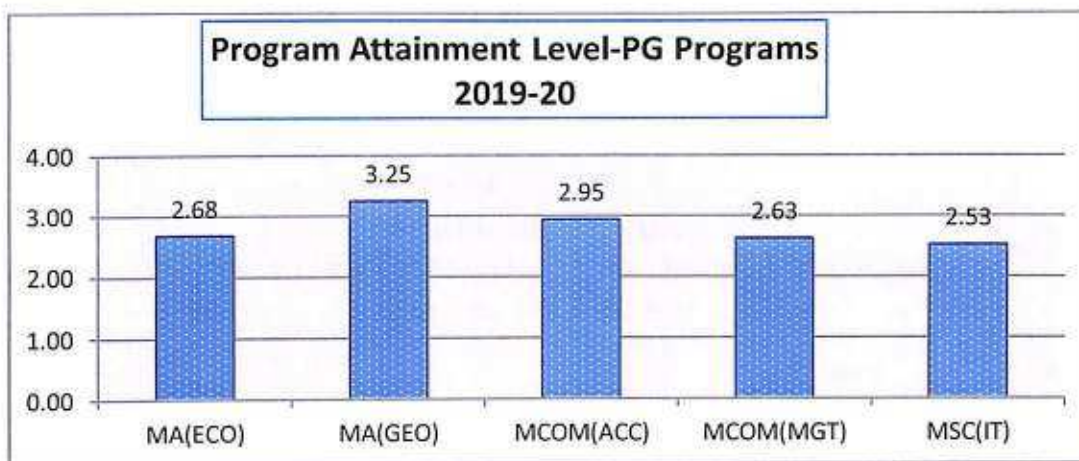
Attainment level - Postgraduate programs academic year 2019-20

	Attainment level - Postgraduate courses					
Academic Year-	First Year		Second Year		Average	Program Attainment
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 2019-20.

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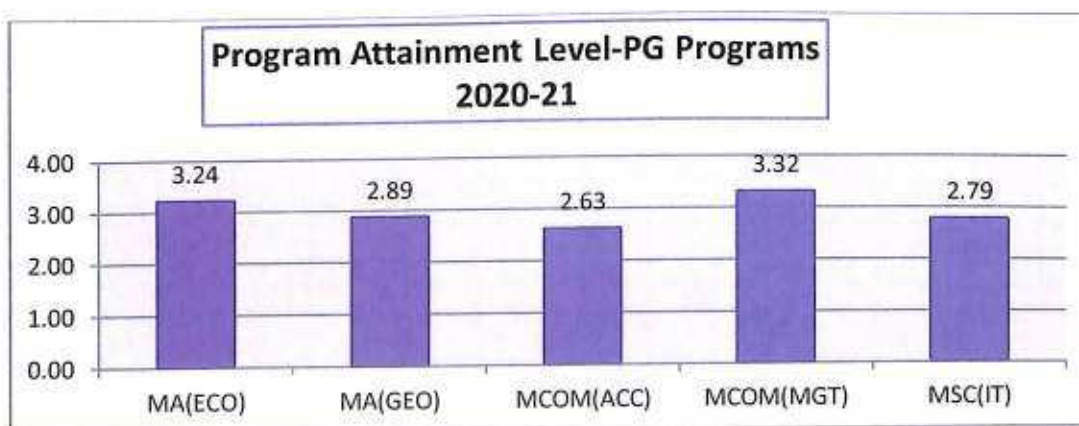
It is observed that program attainment value for all programs is greater than 2.5. This indicates in this academic year, overall attainment of all PG programs is 5 i. e. Excellent.

Table No.

Attainment level - Postgraduate programs academic year 2020-21

Academic Year- 2020-21	Attainment level - Postgraduate courses					Program Attainment Direct + indirect
	First Year		Second Year		Average	
	SEM 1	SEM 2	SEM 3	SEM 4	Direct	
MA(ECO)	3.1	NA	3.2	2.85	3.05	3.24
MA(GEO)	2.93	NA	2.96	1.93	2.61	2.89
MCOM(ACC)	2	NA	2.65	2.2	2.28	2.63
MCOM(MGT)	4.6	NA	2.15	2.7	3.15	3.32
MSC(IT)	2.26	NA	2.58	2.63	2.49	2.79

Now we provide graphical representation of PO attainment levels of PG Program for academic year 2020-21.



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 - 2020-21

Se me ste r	COURSE	COU RSE COD E	PROGRAM OUTCOME					PROGRAM SPECIFIC OUTCOMES (PSYCHOLOGY)			PROGRAM SPECIFIC OUTCOMES (ECONOMICS)				PROGRAM SPECIFIC OUTCOMES (GEOGRAPHY)			
			P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	P S O 1	P S O 2	P S O 3	PS O 4	P S O 1	P S O 2	P S O 3	P S O 4
I	COMMUNICATIO N SKILLS IN ENGLISH-I	2011U ACS		*	*		*											
	FOUNDATION COURSE - I	2012U AFC					*											
	FUNDAMENTALS OF PSYCHOLOGY	2014U APS	*		*	*	*	*										
	GEOMORPHOLOG Y	2013U AGE	*			*									*		*	
	MICROECONOMIC S-I	2015U AEC	*								*	*	*	*				
	FRENCH	2016U AFR		*														
	HINDI	2016U AHN		*														
II	COMMUNICATIO N SKILLS IN ENGLISH- II	2021U ACS		*	*		*											
	FOUNDATION COURSE - II	2022U AFC					*											
	HUMAN GEOGRAPHY	2023U AGE	*												*	*		
	FUNDAMENTALS OF PSYCHOLOGY	2024U APS	*		*		*	*										
	MACROECONOMI CS- I	2025U AEC	*								*	*	*	*				
	HINDI	2026U AHN		*														
	FRENCH	2026U AFR		*														
III	FOUNDATION COURSE – III (CONTEMPORARY INDIA : 1947-2000 A.D)	2031U AFC					*											



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	FUNDAMENTALS OF ADVERTISING	2038U AAD			*														
	ECONOMICS - II (MICRO ECONOMICS - II)	1732U AEC	*								*	*							
	ECONOMICS - III (INDIAN ECONOMY : CONTEMPORARY CONCERNS)	1733U AEC	*										*	*					
	GEOGRAPHY - II (AN INTRODUCTION TO CLIMATOLOGY)	1734U AGE	*												*		*		
	GEOGRAPHY - III (PHYSICAL GEOGRAPHY OF INDIA)	1735U AGE	*												*				
	PSYCHOLOGY - II (SOCIAL PSYCHOLOGY)	1736U APS	*		*	*	*	*		*									
	PSYCHOLOGY - III (DEVELOPMENTAL PSYCHOLOGY)	1737U APS	*		*	*	*	*		*									
IV	FOUNDATION COURSE -IV	2041U AFC					*												
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1748U AAD			*														
	MACROECONOMICS - II	1842U AEC	*								*	*							
	DEVELOPMENT ISSUES OF MAHARASHTRA'S ECONOMY	1843U AEC	*										*	*					
	INTRODUCTION TO OCEANOGRAPHY	1944U AGE	*												*		*	*	
	AGRICULTURAL GEOGRAPHY OF INDIA	1945U AGE	*												*	*			
	SOCIAL PSYCHOLOGY	1746U APS	*		*		*	*		*									
	DEVELOPMENTAL PSYCHOLOGY	1747U APS	*		*		*	*		*									
V (E)	ECONOMICS-IV (ADVANCED	1951U AAET	*								*	*	*	*					



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C O)	ECONOMIC THEORY-I)																	
	ECONOMICS-V (ECONOMICS OF DEVELOPMENT)	1852U AED	*				*					*	*	*	*			
	ECONOMICS-VI (INDIAN FINANCIAL SYSTEM I)	1953U AIFS	*		*							*	*	*	*			
	ECONOMICS-VII (RESEARCH METHODOLOGY)	1854U ARM	*			*						*	*	*	*			
	ECONOMICS-VIII (PUBLIC ECONOMICS)	1955U APE	*									*	*	*	*			
	ECONOMICS-IX (HISTORY OF ECONOMIC THOUGHT)	1856U AHET	*									*	*	*	*			
VI (E C O)	ECONOMICS- IV (ADVANCED ECONOMIC THEORY – II)	1961U AAET	*									*	*	*	*			
	ECONOMICS- V (ECONOMICS OF DEVELOPMENT – II)	1962U AED	*				*					*	*	*	*			
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM – II)	1963U AIFS	*		*							*	*	*	*			
	ECONOMICS- VII (RESEARCH METHODOLOGY – II)	1964U ARM	*			*						*	*	*	*			
	ECONOMICS- VIII (INTERNATIONAL ECONOMICS)	1965U AIE	*									*	*	*	*			
	ECONOMICS- IX (INDIAN ECONOMIC THOUGHT)	1966U AIET	*									*	*	*	*			
V (G E O G)	GEOGRAPHY-IV (GEOGRAPHY OF SETTLEMENTS)	1851U AGS	*													*		
	GEOGRAPHY-V (POPULATION GEOGRAPHY)	1852U APG	*													*	*	
	GEOGRAPHY-VI (TOOLS AND	1853U ASA	*		*	*												*


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	(COGNITIVE PSYCHOLOGY)																		
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1855U APT	*		*	*		*	*										
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	1856U ACP	*		*	*	*	*	*	*									
VI (P SY)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1861U ATS	*		*	*		*	*										
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	1862U AAS	*		*	*	*	*	*	*									
	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	1863U AIP	*		*	*	*	*	*	*									
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	1864U ACO	*		*	*	*	*	*	*									
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1865U APT	*		*	*		*	*										
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	1866U ACP	*		*	*	*	*	*	*									

**Table No. A.2: CO Attainment Level -Bachelor of Arts (B.A.)-
Academic Year 2020-21**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS IN ENGLISH-I	2011UACS	2.4	2	Fully Attained	NA
	FOUNDATION COURSE -I	2012UAFC	3	2	Fully Attained	NA
	FUNDAMENTALS OF PSYCHOLOGY	2014UAPS	2.4	2	Fully Attained	NA
	GEOMORPHOLOGY	2013UAGE	2.4	2	Fully Attained	NA
	MICROECONOMICS- I	2015UAEC	2.4	2	Fully Attained	NA
	FRENCH	2016UAFR	4	2	Fully	NA


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					Attained	
	HINDI	2016UAHN	3.4	2	Fully Attained	NA
II	COMMUNICATION SKILLS IN ENGLISH- II	2021UACS	3	2	Fully Attained	NA
	FOUNDATION COURSE - II	2022UAFC	4	2	Fully Attained	NA
	HUMAN GEOGRAPHY	2023UAGE	2.4	2	Fully Attained	NA
	FUNDAMENTALS OF PSYCHOLOGY	2024UAPS	3	2	Fully Attained	NA
	MACROECONOMICS- I	2025UAEC	2.4	2	Fully Attained	NA
	HINDI	2026UAHN	3	2	Fully Attained	NA
	FRENCH	2026UAFR	4	2	Fully Attained	NA
III	FOUNDATION COURSE – III (CONTEMPORARY INDIA : 1947-2000 A.D)	2031UAFC	3	2	Fully Attained	NA
	FUNDAMENTALS OF ADVERTISING	2038UAAD	2.25	2	Fully Attained	NA
	ECONOMICS - II (MICRO ECONOMICS - II)	1732UAEC	2.25	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY ; CONTEMPORARY CONCERNS)	1733UAEC	3	2	Fully Attained	NA
	GEOGRAPHY - II (AN INTRODUCTION TO CLIMATOLOGY)	1734UAGE	3.25	2	Fully Attained	NA
	GEOGRAPHY - III (PHYSICAL GEOGRAPHY OF INDIA)	1735UAGE	2.25	2	Fully Attained	NA
	PSYCHOLOGY - II (SOCIAL PSYCHOLOGY)	1736UAPS	2	2	Fully Attained	NA
	PSYCHOLOGY – III (DEVELOPMENTAL PSYCHOLOGY)	1737UAPS	2.25	2	Fully Attained	NA
IV	FOUNDATION COURSE -IV	2041UAFC	3.25	2	Fully Attained	NA
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1748UAAD	2.25	2	Fully Attained	NA
	MACROECONOMICS- II	1842UAEC	2.25	2	Fully Attained	NA
	DEVELOPMENT ISSUES OF MAHARASHTRA'S ECONOMY	1843UAEC	2	2	Fully Attained	NA
	INTRODUCTION TO OCEANOGRAPHY	1944UAGE	2.25	2	Fully Attained	NA
	AGRICULTURAL GEOGRAPHY OF INDIA	1945UAGE	2.25	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	1746UAPS	2.25	2	Not Attained	NA



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	DEVELOPMENTAL PSYCHOLOGY	1747UAPS	3	2	Fully Attained	NA
V (Eco)	ECONOMICS-IV (ADVANCED ECONOMIC THEORY-I)	1951UAAET	2	2	Fully Attained	NA
	ECONOMICS-V (ECONOMICS OF DEVELOPMENT)	1852UAED	2	2	Fully Attained	NA
	ECONOMICS-VI (INDIAN FINANCIAL SYSTEM I)	1953UAIFS	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ECONOMICS-VII (RESEARCH METHODOLOGY)	1854UARM	2	2	Fully Attained	NA
	ECONOMICS-VIII (PUBLIC ECONOMICS)	1955UAPE	2	2	Fully Attained	NA
	ECONOMICS-IX (HISTORY OF ECONOMIC THOUGHT)	1856UAHET	3	2	Fully Attained	NA
VI (Eco)	ECONOMICS- IV (ADVANCED ECONOMIC THEORY – II)	1961UAAET	2.25	2	Fully Attained	NA
	ECONOMICS- V (ECONOMICS OF DEVELOPMENT – II)	1962UAED	2.25	2	Fully Attained	NA
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM – II)	1963UAIFS	2	2	Fully Attained	NA
	ECONOMICS- VII (RESEARCH METHODOLOGY – II)	1964UARM	3	2	Fully Attained	NA
	ECONOMICS- VIII (INTERNATIONAL ECONOMICS)	1965UAIE	2	2	Fully Attained	NA
	ECONOMICS- IX (INDIAN ECONOMIC THOUGHT)	1966UAIET	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
V (Geo)	GEOGRAPHY-IV (GEOGRAPHY OF SETTLEMENTS)	1851UAGS	2.25	2	Fully Attained	NA
	GEOGRAPHY-V (POPULATION GEOGRAPHY)	1852UAPG	2.25	2	Fully Attained	NA
	GEOGRAPHY-VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - I)	1853UASA	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.



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	GEOGRAPHY-VII (REGIONAL PLANNING AND DEVELOPMENT)	1854UAPD	2.25	2	Fully Attained	NA
	GEOGRAPHY-VIII (GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT)	1855UADM	2	2	Fully Attained	NA
	GEOGRAPHY-IX (GEOSPATIAL TECHNOLOGY)	1856UAGT	3	2	Fully Attained	NA
VI (Geo)	GEOGRAPHY- IV (ENVIRONMENTAL - GEOGRAPHY)	1861UAEG	2	2	Fully Attained	NA
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	1862UATR	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS- II)	1863UASA	2		Fully Attained	NA
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	1864UAEG	2.5		Fully Attained	NA
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	1865UASG	2.25		Fully Attained	NA
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	1866UAPJ	2.75		Fully Attained	NA
V (Psy)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1851UATS	2.25		Fully Attained	NA
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	1852UAAB	2.25		Fully Attained	NA
	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	1853UAIP	1.75		Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	1854UACO	3.25		Fully Attained	NA
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1855UAPT	2.5		Fully Attained	NA



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	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	1856UACP	2.75		Fully Attained	NA
VI (Psy)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1861UATS	1.5		Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	1862UAAS	2.5		Fully Attained	NA
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	1863UAIP	2.25		Fully Attained	NA
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	1864UACO	2.5		Fully Attained	NA
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1865UAPT	2.5		Fully Attained	NA
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	1866UACP	2.25		Fully Attained	NA
	Average		2.45			
NA: Not Applicable as target level is fully attained.						

**Table No.A.2a: PO Attainment Level-BA
Academic Year 2020-21**

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
A2020-21	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.



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**Table No. A.3: Results of CO-PO attainment-Bachelor of Arts(BA)-
Academic Year 2020-21**

Se me ster	Course	Cour se Code	Program Outcome					Program Specific Outcomes (Psychology)			Program Specific Outcomes (Economics)				Program Specific Outcomes (Geography)			
			P O 1	P O 2	P O 3	P O 4	P O 5	PS O1	PS O2	PS O3	PS O1	PS O2	PS O3	PS O4	PS O1	PS O2	PS O3	PS O4
	COMMUNI CATION SKILLS IN ENGLISH-I	2011 UAC S		2 4	2 4		2.4											
I	FOUNDATI ON COURSE - I	2012 UAF C					3											
	FUNDAME NTALS OF PSYCHOL OGY	2014 UAPS	2. 4		2. 4	2. 4	2.4	2.4										
	GEOMORP HOLOGY	2013 UAG E	2. 4			2. 4									2.4		2.4	
	MICROEC ONOMICS-I	2015 UAE C	2. 4								2.4	2.4	2.4	2.4				
	FRENCH	2016 UAF R		4														
	HINDI	2016 UAH N		3 4														
II	COMMUNI CATION SKILLS IN ENGLISH-II	2021 UAC S		3	3		3											
	FOUNDATI ON COURSE - II	2022 UAF C					4											
	HUMAN GEOGRAP HY	2023 UAG E	2. 4												2.4	2.4		
	FUNDAME NTALS OF PSYCHOL OGY	2024 UAPS	3		3		3	3										
	MACROEC ONOMICS-I	2025 UAE C	2. 4								2.4	2.4	2.4	2.4				
	HINDI	2026 UAH N		3														
	FRENCH	2026		4														



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		UAF R																
III	FOUNDATI ON COURSE – III (CONTEMP ORARY INDIA : 1947-2000 A.D)	2031 UAF C					3											
	FUNDAME NTALS OF ADVERTIS ING	2038 UAA D			2. 25													
	ECONOMI CS - II (MICRO ECONOMI CS - II)	1732 UAE C	2. 25								2.2 5	2.2 5						
	ECONOMI CS - III (INDIAN ECONOMY : CONTEMP ORARY CONCERN S)	1733 UAE C	3										3	3				
	GEOGRAP HY - II (AN INTRODUC TION TO CLIMATOL OGY)	1734 UAG E	3. 25												3.2 5		3.2 5	
	GEOGRAP HY - III (PHYSICAL GEOGRAP HY OF INDIA)	1735 UAG E	2. 25												2.2 5			
	PSYCHOL OGY - II (SOCIAL PSYCHOL OGY)	1736 UAPS	2		2	2	2	2		2								
	PSYCHOL OGY – III (DEVELOP MENTAL PSYCHOL OGY)	1737 UAPS	2. 25		2. 25	2. 2 5	2.2 5	2.25		2.25								



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IV	FOUNDATI ON COURSE - IV	2041 UAF C				3.2 5											
	ADVERTIS ING : AGENCY AND MEDIA OPERATIO NS	1748 UAA D			2. 25												
	MACROEC ONOMICS- II	1842 UAE C	2. 25						2.2 5	2.2 5							
	DEVELOP MENT ISSUES OF MAHARAS HTRA'S ECONOMY	1843 UAE C	2					2			2	2					
	INTRODUC TION TO OCEANOGR APHY	1944 UAG E	2. 25										2.2 5		2.2 5	2.2 5	
	AGRICULT URAL GEOGRAP HY OF INDIA	1945 UAG E	2. 25										2.2 5	2.2 5			
	SOCIAL PSYCHOL OGY	1746 UAPS	2. 25		2. 25	2.2 5	2.25		2.25								
	DEVELOP MENTAL PSYCHOL OGY	1747 UAPS	3		3	3	3		3								
V (Eco)	ECONOMI CS-IV (ADVANCE D ECONOMI C THEORY-I)	1951 UAA ET	2							2	2	2	2				
	ECONOMI CS-V (ECONOMI CS OF DEVELOP MENT)	1852 UAE D	2			2				2	2	2	2				
	ECONOMI CS-VI (INDIAN FINANCIA	1953 UAF S	1. 25		1. 25					1.2 5	1.2 5	1.2 5	1.2 5				



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VI (Eco)	L SYSTEM D)																	
	ECONOMI CS-VII (RESEARC H METHODO LOGY)	1854 UAR M	2			2					2	2	2	2				
	ECONOMI CS-VIII (PUBLIC ECONOMI CS)	1955 UAP E	2								2	2	2	2				
	ECONOMI CS-IX (HISTORY OF ECONOMI C THOUGHT)	1856 UAH ET	3								3	3	3	3				
	ECONOMI CS- IV (ADVANCE D ECONOMI C THEORY - II)	1961 UAA ET	2. 25								2.2 5	2.2 5	2.2 5	2.2 5				
	ECONOMI CS- V (ECONOMI CS OF DEVELOP MENT - II)	1962 UAE D	2. 25				2.2 5				2.2 5	2.2 5	2.2 5	2.2 5				
	ECONOMI CS- VI (INDIAN FINANCIA L SYSTEM - II)	1963 UAIF S	2		2						2	2	2	2				
	ECONOMI CS- VII (RESEARC H METHODO LOGY - II)	1964 UAR M	3			3					3	3	3	3				
	ECONOMI CS- VIII (INTERNA TIONAL ECONOMI CS)	1965 UAIE	2								2	2	2	2				
	ECONOMI CS- IX	1966 UAIE T	1. 75								1.7 5	1.7 5	1.7 5	1.7 5				



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	(INDIAN ECONOMIC THOUGHT)																
V (Geog)	GEOGRAPHY-IV (GEOGRAPHY OF SETTLEMENTS)	1851 UAGS	2.25										2.25				
	GEOGRAPHY-V (POPULATION GEOGRAPHY)	1852 UAPG	2.25										2.25	2.25			
	GEOGRAPHY-VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - I)	1853 UASA	1.5		1.5	1.5									1.5		
	GEOGRAPHY-VII (REGIONAL PLANNING AND DEVELOPMENT)	1854 UAPD	2.25										2.25	2.25	2.25		
	GEOGRAPHY-VIII (GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT)	1855 UADM	2										2			2	
	GEOGRAPHY-IX (GEOSPATIAL TECHNOLOGY)	1856 UAGT	3		3	3									3		
VI (Geog)	GEOGRAPHY-IV (ENVIRONMENTAL -	1861 UAE G	2			2							2			2	



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	GEOGRAPHY)																	
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	1862 UAT R	1.5											1.5	1.5			
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - II)	1863 UAS A	2		2												2	
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	1864 UAE G	2.5											2.5	2.5			
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	1865 UAS G	2.25											2.25	2.25			
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	1866 UAPJ	2.75		2.75	2.75											2.75	
V (Psy)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1851 UAT S	2.25		2.25	2.25		2.25	2.25									
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	1852 UAA B	2.25		2.25	2.25	2.25	2.25	2.25	2.25								


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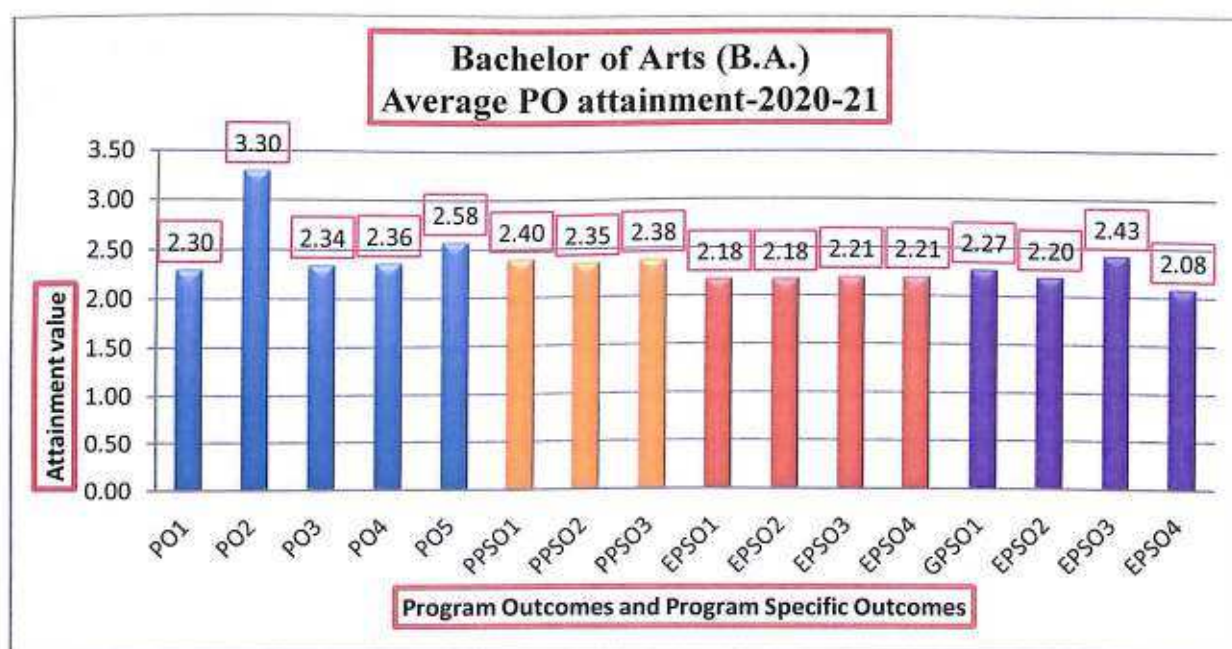
VI (Psy)	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	1853 UAIP	1.75		1.75	1.75	1.75	1.75	1.75								
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	1854 UAC O	3.25		3.25	3.25	3.25	3.25	3.25								
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1855 UAP T	2.5		2.5	2.5		2.5	2.5								
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	1856 UAC P	2.75		2.75	2.75	2.75	2.75	2.75								
	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1861 UAT S	1.5		1.5	1.5		1.5	1.5								
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	1862 UAA S	2.5		2.5	2.5	2.5	2.5	2.5								
	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	1863 UAIP	2.25		2.25	2.25	2.25	2.25	2.25								
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	1864 UAC O	2.5		2.5	2.5	2.5	2.5	2.5								


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OGY)																	
PSYCHOL OGY- VIII (PRACTIC ALS IN COGNITIV E PROCESSE S AND PSYCHOL OGICAL TESTING)	1865 UAP T	2.5		2.5	2.5		*	*									
PSYCHOL OGY- IX (COUNSEL ING PSYCHOL OGY)	1866 UAC P	2.25		2.25	2.25	2.25	2.25	2.25	2.25								
Average		2.30	3.30	2.34	2.36	2.58	2.40	2.35	2.38	2.18	2.18	2.21	2.21	2.27	2.20	2.43	2.08



From above graph, it is observed that average PO attainment value for all program outcome 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.

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**

Sem ester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	2011UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	*	*	*	*		*
	FOUNDATION COURSE - I	2013UAFFC	*	*		*	*	
	BUSINESS ECONOMICS - I	2014UAFBE	*	*		*	*	
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFCO	*	*		*	*	*
	BUSINESS MATHEMATICS	2016UAFBM	*		*	*		*
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFFA	*		*	*		*
II	BUSINESS COMMUNICATION - II	2021UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	2022UAFIT	*	*	*	*		*
	FOUNDATION COURSE - II	2023UAFFC	*	*		*	*	
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFAD	*	*	*	*	*	*


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	BUSINESS LAW - I	2025UAFBL	*	*	*	*	*	
	FINANCIAL MANAGEMENT - I	2026UAFFM	*	*	*	*		*
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	2027UAFFA	*		*	*		*
III	BUSINESS ECONOMICS - II	1731UAFBE	*	*		*	*	
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1932UAFFC	*	*		*	*	*
	TAXATION - I (INDIRECT TAXES - I)	2033UAFID T	*	*	*	*	*	*
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2034UAFAD	*	*	*	*	*	*
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1735UAFBL	*	*	*	*	*	
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2036UAFCA	*		*	*		*
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	1937UAFFA	*		*	*		*
IV	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1741UAFRM	*	*		*	*	*
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2042UAFFC	*	*	*	*		*
	MANAGEMENT ACCOUNTING	1743UAFM A	*		*	*	*	*


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	(INTRODUCTION TO MANAGEMENT ACCOUNTING)							
	TAXATION - II (INDIRECT TAXES - II)	1944UAFID T	*	*	*	*	*	*
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	1745UAFBL	*	*	*	*	*	
	COST ACCOUNTING - II (METHOD OF COSTING)	2046UAFCA			*	*		*
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2047UAFFA	*		*	*		*
V	FINANCIAL ACCOUNTING - V	1851UAFFA	*		*	*		*
	FINANCIAL ACCOUNTING - VI	2052UAFFA	*		*	*		*
	FINANCIAL MANAGEMENT - II	1953UAFFM	*	*	*	*	*	*
	COST ACCOUNTING - III	1854UAFCA	*		*	*		*
	TAXATION - III (DIRECT TAXES - I)	2055UAFDT	*	*	*	*	*	*
	MANAGEMENT - II (MARKETING OF SERVICES)	2056UAFMS	*	*		*	*	*
VI	FINANCIAL ACCOUNTING - VII	2061UAFFA	*		*	*		*
	INTERNSHIP BASED PROJECT WORK	1962UAFIP	*	*	*	*	*	*
	ECONOMICS - III (INDIAN ECONOMY)	1863UAFIE	*	*		*	*	*
	COST ACCOUNTING - IV	1864UAFCA	*		*	*		*
	TAXATION- IV (DIRECT TAXES - II)	2065UAFDT	*	*	*	*	*	*
	INTERNATIONAL FINANCE	1966UAFIF	*	*	*	*		*


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**Table No. B.2: CO Attainment Level - B.Com. (Accounting and Finance)(BAF)-
Academic Year 2020-21**

Sem ester	Course	Course code	CO Attainm ent value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	2011UAFBC	2.8	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	3.4	2	Fully Attained	NA
	FOUNDATION COURSE - I	2013UAFFC	3.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	2014UAFBE	2.4	2	Fully Attained	NA
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFCO	3	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2016UAFBM	3.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFFA	3	2	Fully Attained	NA
II	BUSINESS COMMUNICATION - II	2021UAFBC	2.8	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	2022UAFIT	3	2	Fully Attained	NA
	FOUNDATION COURSE - II	2023UAFFC	3	2	Fully Attained	NA
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFAD	3.4	2	Fully Attained	NA
	BUSINESS LAW - I	2025UAFBL	3.4	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - I	2026UAFFM	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II (SPECIAL	2027UAFFA	2.4	2	Fully Attained	NA



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	ACCOUNTING AREAS)					
III	BUSINESS ECONOMICS - II	1731UAFBE	3.25	2	Fully Attained	NA
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1932UAFFC	2.25	2	Fully Attained	NA
	TAXATION - I (INDIRECT TAXES - I)	2033UAFID T	3	2	Fully Attained	NA
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2034UAFAD	2.5	2	Fully Attained	NA
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1735UAFBL	3.25	2	Fully Attained	NA
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2036UAFCA	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	1937UAFFA	2.5	2	Fully Attained	NA
IV	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1741UAFRM	2.5	2	Fully Attained	NA
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2042UAFFC	3.25	2	Fully Attained	NA
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1743UAFM A	3	2	Fully Attained	NA
	TAXATION - II (INDIRECT TAXES -	1944UAFID T	2.5	2	Fully Attained	NA


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	II)					
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	1745UAFBL	2.5	2	Fully Attained	NA
	COST ACCOUNTING - II (METHOD OF COSTING)	2046UAFCA	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2047UAFFA	2.5	2	Fully Attained	NA
V	FINANCIAL ACCOUNTING - V	1851UAFFA	3.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - VI	2052UAFFA	3	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - II	1953UAFFM	2.5	2	Fully Attained	NA
	COST ACCOUNTING - III	1854UAFCA	2.5	2	Fully Attained	NA
	TAXATION - III (DIRECT TAXES - I)	2055UAFTDT	2.5	2	Fully Attained	NA
	MANAGEMENT - II (MARKETING OF SERVICES)	2056UAFMS	2.5	2	Fully Attained	NA
VI	FINANCIAL ACCOUNTING - VII	2061UAFFA	2.25	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1962UAFIP	3.75	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY)	1863UAFIE	2.5	2	Fully Attained	NA
	COST ACCOUNTING - IV	1864UAFCA	3.25	2	Fully Attained	NA
	TAXATION- IV (DIRECT TAXES - II)	2065UAFTDT	2	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1966UAFIF	3	2	Fully Attained	NA
	Average		2.8137			
NA: Not Applicable as target level is fully attained.						


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**Table No.B.2a: PO Attainment Level- B.Com. (Accounting and Finance)(BAF)-
Academic Year 2020-21**

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
A2020-21	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 2020-21**

Sem ester	subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	2011UAFB C	2.8	2.8		2.8		2.8
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	3.4	3.4	3.4	3.4		3.4
	FOUNDATION COURSE - I	2013UAFF C	3.4	3.4		3.4	3.4	
	BUSINESS ECONOMICS - I	2014UAFB E	2.4	2.4		2.4	2.4	
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFC O	3	3		3	3	3
	BUSINESS MATHEMATICS	2016UAFB M	3.4		3.4	3.4		3.4
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFF A	3		3	3		3
II	BUSINESS COMMUNICATION - II	2021UAFB C	2.8	2.8		2.8		2.8
	INFORMATION	2022UAFIT	3	3	3	3		3



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	TECHNOLOGY IN ACCOUNTING AND FINANCE - II							
	FOUNDATION COURSE - II	2023UAFFC	3	3		3	3	
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFA D	3.4	3.4	3.4	3.4	3.4	3.4
	BUSINESS LAW - I	2025UAFB L	3.4	3.4	3.4	3.4	3.4	
	FINANCIAL MANAGEMENT - I	2026UAFF M	2.4	2.4	2.4	2.4		2.4
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	2027UAFF A	2.4		2.4	2.4		2.4
III	BUSINESS ECONOMICS - II	1731UAFB E	3.25	3.25		3.25	3.25	
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	1932UAFF C	2.25	2.25		2.25	2.25	2.25
	TAXATION - I (INDIRECT TAXES - I)	2033UAFI DT	3	3	3	3	3	3
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2034UAFA D	2.5	2.5	2.5	2.5	2.5	2.5
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	1735UAFB L	3.25	3.25	3.25	3.25	3.25	
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2036UAFC A	2.25		2.25	2.25		2.25
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	1937UAFF A	2.5		2.5	2.5		2.5
IV	RESEARCH	1741UAFR	2.5	2.5		2.5	2.5	2.5



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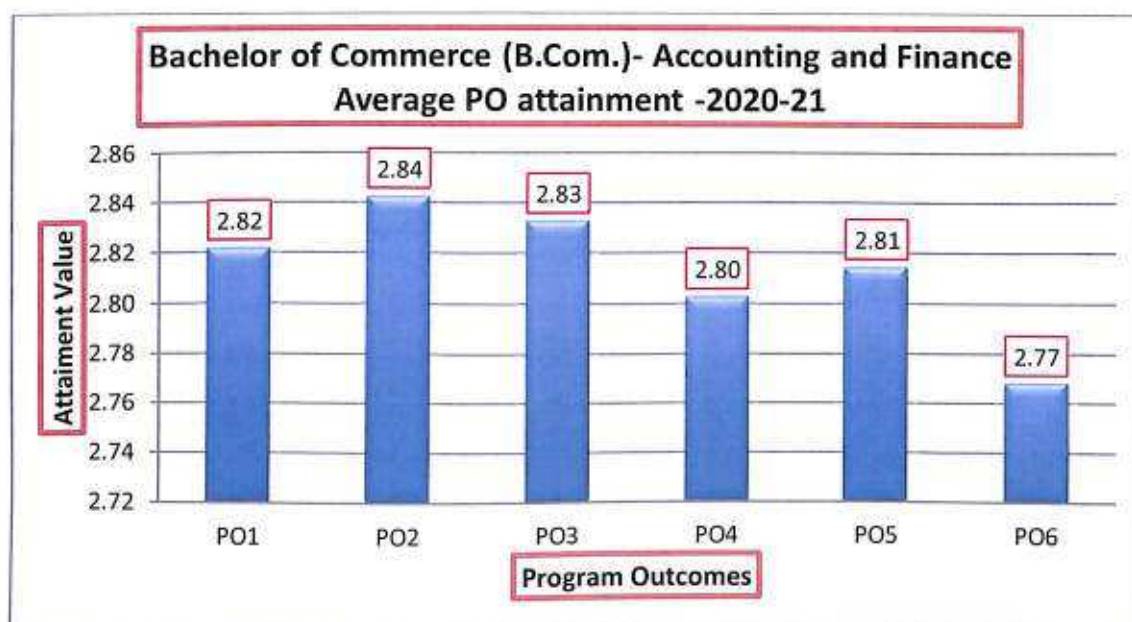
	METHODOLOGY IN ACCOUNTING AND FINANCE	M						
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2042UAFFC	3.25	3.25	3.25	3.25		3.25
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1743UAFFMA	3		3	3	3	3
	TAXATION - II (INDIRECT TAXES - II)	1944UAFFIDT	2.5	2.5	2.5	2.5	2.5	2.5
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	1745UAFFBL	2.5	2.5	2.5	2.5	2.5	
	COST ACCOUNTING - II (METHOD OF COSTING)	2046UAFFCA			2.5	2.5		2.5
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2047UAFFA	2.5		2.5	2.5		2.5
V	FINANCIAL ACCOUNTING - V	1851UAFFA	3.25		3.25	3.25		3.25
	FINANCIAL ACCOUNTING - VI	2052UAFFA	3		3	3		3
	FINANCIAL MANAGEMENT - II	1953UAFFM	2.5	2.5	2.5	2.5	2.5	2.5
	COST ACCOUNTING - III	1854UAFFCA	2.5		2.5	2.5		2.5
	TAXATION - III (DIRECT TAXES - I)	2055UAFFDT	2.5	2.5	2.5	2.5	2.5	2.5
	MANAGEMENT - II (MARKETING OF SERVICES)	2056UAFFMS	2.5	2.5		2.5	2.5	2.5
VI	FINANCIAL ACCOUNTING - VII	2061UAFFA	2.25		2.25	2.25		2.25
	INTERNSHIP BASED PROJECT WORK	1962UAFFIP	3.75	3.75	3.75	3.75	3.75	3.75
	ECONOMICS - III (INDIAN	1863UAFFIE	2.5	2.5		2.5	2.5	2.5



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ECONOMY)							
COST ACCOUNTING - IV	1864UAFC A	3.25		3.25	3.25		3.25
TAXATION- IV (DIRECT TAXES - II)	2065UAFD T	2	2	2	2	2	2
INTERNATIONAL FINANCE	1966UAFIF	3	3	3	3		3
	Average	2.82	2.84	2.83	2.80	2.81	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 - 2020-21

Semester	Course	CourseCode	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	2011UMCEC	*	*																
	MASS COMMUNICATION	2012UMCMC	*		*	*														
	LANDMARK EVENTS OF THE WORLD AND INDIA- A MASS MEDIA APPROACH	2013UMCLE	*	*	*	*														
	INTRODUCTION TO ECONOMICS	2014UMCIE	*	*	*		*	*												
	INTRODUCTION TO SOCIOLOGY	2015UMCIS	*	*	*															
	INTRODUCTION TO COMPUTERS	2016UMCIC	*	*			*	*												
II	EFFECTIVE COMMUNICATION-II	2021UMCEC	*	*	*		*	*												
	POLITICAL CONCEPTS AND INDIAN POLITICAL SYSTEM	2022UMCPC	*	*	*	*	*	*												
	INTRODUCTION TO LITERATURE	2023UMCIL	*	*																
	PRINCIPLES OF MARKETING	2024UMCPMK	*	*	*	*	*	*												
	PRINCIPLES OF MANAGEMENT	2025UMCPMG	*					*												
	MEDIA PSYCHOLOGY	2026UMCPSY	*	*	*	*	*	*												
III	INTRODUCTION TO PUBLIC RELATIONS	1731UMCPR	*	*	*	*	*	*												
	MEDIA STUDIES	1732UMCMS	*	*	*	*	*	*												
	UNDERSTANDING CINEMA	1733UMCUC	*	*	*		*	*												
	INTRODUCTION TO CULTURAL STUDIES	1734UMCCS	*	*	*	*	*	*												
	CREATIVE WRITING	1735UMCCW	*	*	*	*	*	*												
	ADVANCE COMPUTERS	1736UMCAC	*	*	*	*	*	*												
IV	PHOTOGRAPHY AND PRINT PRODUCTION	1741UMCPPP	*	*	*		*	*												
	INTRODUCTION TO JOURNALISM	1742UMCIJ							*	*	*	*	*	*						
	INTRODUCTION TO ADVERTISING	1743UMCIA													*	*	*	*	*	*
	TV AND RADIO	1744UMCTVR	*	*	*		*	*												
	ORGANIZATIONAL BEHAVIOUR	1745UMCOB	*	*	*	*	*	*												


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	ADVANCE COMPUTERS	1736UMCAC	2.5	2	Fully Attained	NA
IV	PHOTOGRAPHY AND PRINT PRODUCTION	1741UMCPPP	2.25	2	Fully Attained	NA
	INTRODUCTION TO JOURNALISM	1742UMCIJ	3.25	2	Fully Attained	NA
	INTRODUCTION TO ADVERTISING	1743UMCIA	2.5	2	Fully Attained	NA
	TV AND RADIO	1744UMCTVR	2.25	2	Fully Attained	NA
	ORGANIZATIONAL BEHAVIOUR	1745UMCOB	3.25	2	Fully Attained	NA
	MASS MEDIA RESEARCH	1746UMCMR	2.5	2	Fully Attained	NA
V	DIGITAL MEDIA	2051UMMDIM	3.25	2	Fully Attained	NA
Jou	JOURNALISM AND PUBLIC OPINION	1852UMMJP	2	2	Fully Attained	NA
rnal	INDIAN REGIONAL JOURNALISM	1853UMMIR	3.75	2	Fully Attained	NA
ism	GLOBAL AND NEW MEDIA REPORTING	1954UMMGNM	2	2	Fully Attained	NA
		1855UMMRP	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	CROSS MEDIA WRITING AND EDITING-I	1956UMMCME	2.25	2	Fully Attained	NA
V	DIGITAL MEDIA	2051UMMDIM	3.25	2	Fully Attained	NA
Ad	BRAND BUILDING	1852UMMBB	2.5	2	Fully Attained	NA
vt	ADVERTISING IN CONTEMPORARY SOCIETY	1853UMMAC	3	2	Fully Attained	NA
	CONSUMER BEHAVIOUR	1854UMMCB	3	2	Fully Attained	NA
	MEDIA PLANNING AND BUYING	1855UMMMP	3.25	2	Fully Attained	NA
	COPYWRITING	1856UMMCW	2.5	2	Fully Attained	NA
VI	NEWSPAPER AND MAGAZINE MAKING	2061UMMN	2	2	Fully Attained	NA
Jou	CONTEMPORARY ISSUES	1962UMMCI	2.75	2	Fully Attained	NA
rnal	PRESS LAWS AND ETHICS	1863UMMPL	3	2	Fully Attained	NA
ism	BROADCAST JOURNALISM	1864UMMBJ	1.25	2	Not Attained	Assignments, tutorials, exercises and


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						remedial coaching shall be planned.
	BUSINESS AND MAGAZINE JOURNALISM	1865UMMB MJ	3.25	2	Fully Attained	NA
	NEWS MEDIA MANAGEMENT	1866UMMN MM	2.25	2	Fully Attained	NA
	CROSS MEDIA WRITING AND EDITING-II	1967UMMC ME	2	2	Fully Attained	NA
VI Ad vt	ADVERTISING DESIGN	2061UMMAD	2.25	2	Fully Attained	NA
	CONTEMPORARY ISSUES	1962UMMCI	2.75	2	Fully Attained	NA
	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1863UMMLE	3.25	2	Fully Attained	NA
	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1864UMMFM	4	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1865UMMD M	4	2	Fully Attained	NA
	AGENCY MANAGEMENT	1866UMMA M	3.25	2	Fully Attained	NA
	ADVERTISING AND MARKETING RESEARCH	1867UMMA MR	4	2	Fully Attained	NA
		Average	2.76			

NA: Not Applicable as target level is fully attained.

**Table No. C.2a: PO Attainment Level-
Bachelor of Multi Media & Mass Communication(BAMMC): 2020-21**

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
A2020-21	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.



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Table No. C.3: Results of CO-PO attainment-Bachelor of Multi Media & Mass Communication (BAMMC)- Academic Year 2020-21

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PS O 1	PS O 2	PS O 3	PS O 4	PS O 5	PS O 6	PS O 1	PS O 2	PS O 3	PS O 4	PS O 5	PS O 6
I	EFFECTIVE COMMUNICATION-I	2011UMCEC	3	3																
	MASS COMMUNICATION	2012UMCMC	2.4		2.4	2.4														
	LANDMARK EVENTS OF THE WORLD AND INDIA- A MASS MEDIA APPROACH	2013UMCLE	2.4	2.4	2.4	2.4														
	INTRODUCTION TO ECONOMICS	2014UMCIE	2.8	2.8	2.8		2.8	2.8												
	INTRODUCTION TO SOCIOLOGY	2015UMCIS	3	3	3															
	INTRODUCTION TO COMPUTERS	2016UMCIC	3.2	3.2			3.2	3.2												
II	EFFECTIVE COMMUNICATION-II	2021UMCEC	2.2	2.2	2.2		2.2	2.2												
	POLITICAL CONCEPTS AND INDIAN POLITICAL SYSTEM	2022UMCPC	2	2	2	2	2	2												
	INTRODUCTION TO LITERATURE	2023UMCIL	3	3																
	PRINCIPLES OF MARKETING	2024UMCPMK	3	3	3	3	3	3												
	PRINCIPLES OF MANAGEMENT	2025UMCPMG	3.4					3.4												
	MEDIA PSYCHOLOGY	2026UMCPSY	3	3	3	3	3													
III	INTRODUCTION TO PUBLIC RELATIONS	1731UMCPR	3	3	3	3	3	3												
	MEDIA STUDIES	1732UMCMS	3	3	3	3	3													
	UNDERSTANDING CINEMA	1733UMCUC	2.5	2.5	2.5		2.5	2.5												
	INTRODUCTION TO CULTURAL STUDIES	1734UMCCS	2.2	2.2	2.2	2.2	2.2	2.2												
	CREATIVE WRITING	1735UMCCW	3.2	3.2	3.2	3.2	3.2	3.2												
	ADVANCE COMPUTERS	1736UMCAC	2.5	2.5	2.5	2.5	2.5	2.5												
IV	PHOTOGRAPHY AND PRINT PRODUCTION	1741UMCPPP	2.2	2.2	2.2		2.2	2.2												
	INTRODUCTION TO JOURNALISM	1742UMCIJ							3.2	3.2	3.2	3.2	3.2	3.2						
	INTRODUCTION TO ADVERTISING	1743UMCIA													2.5	2.5	2.5	2.5	2.5	2.5


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	TV AND RADIO	1744UMCTV R	2.2 5	2.2 5	2.2 5		2.2 5	2.2 5											
	ORGANIZATIONAL BEHAVIOUR	1745UMCOB	3.2 5	3.2 5	3.2 5	3.2 5		3.2 5											
	MASS MEDIA RESEARCH	1746UMCM MR	2.5	2.5	2.5			2.5											
VJournalism	DIGITAL MEDIA	2051UMMDI M	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5												
	JOURNALISM AND PUBLIC OPINION	1852UMMJP						2	2	2		2	2						
	INDIAN REGIONAL JOURNALISM	1853UMMIR						3.7 5											
	GLOBAL AND NEW MEDIA	1954UMMGN M						2		2			2*						
	REPORTING	1855UMMRP						1.5	1.5	1.5	1.5	1.5	1.5						
	CROSS MEDIA WRITING AND EDITING-I	1956UMMC ME						2.2 5	2.2 5			2.2 5	2.2 5						
VAdvertising	DIGITAL MEDIA	2051UMMDI M	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5												
	BRAND BUILDING	1852UMMBB											2.5	2.5	2.5	2.5		2.5	
	ADVERTISING IN CONTEMPORARY SOCIETY	1853UMMAC											3	3	3	3	3	3	
	CONSUMER BEHAVIOUR	1854UMMCB											3	3	3			3	
	MEDIA PLANNING AND BUYING	1855UMMMP											3.2 5	3.2 5	3.2 5		3.2 5	3.2 5	
	COPYWRITING	1856UMMC W											2.5	2.5	2.5		2.5	2.5	
VIJournalism	NEWSPAPER AND MAGAZINE MAKING	2061UMMN M						2	2	2	2	2	2						
	CONTEMPORARY ISSUES	1962UMMCI	2.7 5	2.7 5	2.7 5	2.7 5	2.7 5												
	PRESS LAWS AND ETHICS	1863UMMP LE						3	3	3	3	3	3						
	BROADCAST JOURNALISM	1864UMMBJ						1.2 5	1.2 5	1.2 5	1.2 5	1.2 5	1.2 5						
	BUSINESS AND MAGAZINE JOURNALISM	1865UMMB MJ						3.2 5				3.2 5	3.2 5						
	NEWS MEDIA MANAGEMENT	1866UMMN MM						2.2 5					2.2 5						
	CROSS MEDIA WRITING AND EDITING-II	1967UMMC ME						2	2		2	2	2						

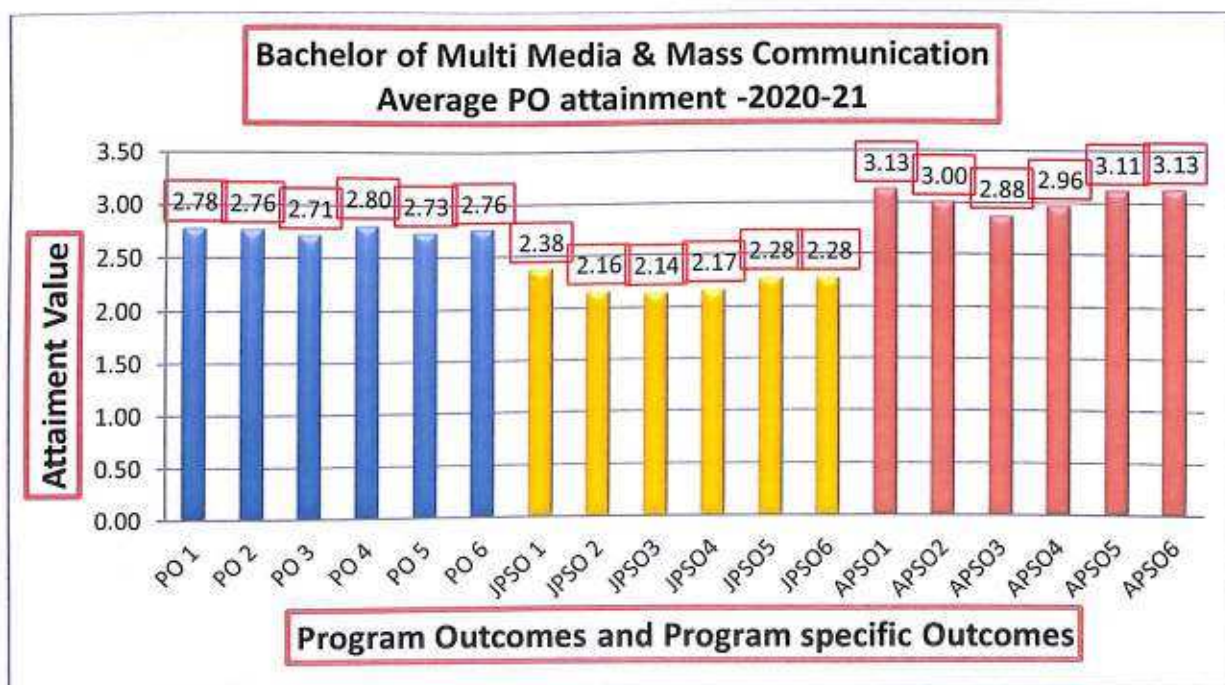


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VI Adverti sing	ADVERTISING DESIGN	2061UMMAD														2.25	2.25	2.25	2.25	2.25	2.25
	CONTEMPORARY ISSUES	1962UMMC	2.75	2.75	2.75	2.75	2.75	2.75													
	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1863UMMLE														3.25			3.25	3.25	3.25
	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1864UMMF														4					4
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1865UMMD														4	4	4		4	4
	AGENCY MANAGEMENT	1866UMMA														3.25			3.25	3.25	3.25
	ADVERTISING AND MARKETING RESEARCH	1867UMMA														4	4		4	4	4
	Average		2.78	2.76	2.71	2.80	2.73	2.76	2.38	2.16	2.14	2.17	2.28	2.28		3.13	3.00	2.88	2.96	3.11	3.13



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 - 2020-21

Sem ester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	2011UBIBC	*	*			*	*
	PRINCIPLES OF MANAGEMENT	2012UBIPM	*	*	*			*
	FOUNDATION COURSE - I	2013UBIFC	*	*			*	*
	BUSINESS ECONOMICS - I	2014UBIBE	*	*	*			*
	FINANCIAL ACCOUNTING - I	2015UBIFA	*		*	*		*
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	2016UBIEM	*	*			*	
	QUANTITATIVE METHODS - I	2017UBIQM	*		*	*		*
II	BUSINESS COMMUNICATION - II	2021UBIBC	*	*				*
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	*	*			*	*
	FOUNDATION COURSE - II	2023UBIFC	*	*			*	*
	BUSINESS LAW	2024UBIBL	*		*		*	
	FINANCIAL ACCOUNTING - II	2025UBIFA	*		*	*		*
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	*	*				*
	QUANTITATIVE METHODS -II	2027UBIQM	*		*	*		*
	FINANCIAL MARKETS	1731UBIFM	*			*		*
	INFORMATION TECHNOLOGY IN	1732UBIIT	*	*	*			*



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III	BANKING AND INSURANCE-I							
	FINANCIAL MANAGEMENT - I	1733UBIFT	*		*	*		*
	MANAGEMENT ACCOUNTING	1734UBIMA	*		*			*
	DIRECT TAXATION	1735UBIDT	*		*			*
	RISK MANAGEMENT	1936UBIRM	*		*	*		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1937UBIFC	*	*			*	*
IV	CORPORATE AND SECURITIES LAW	1741UBICL	*		*			*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1942UBIIT	*	*		*		*
	FINANCIAL MANAGEMENT -II	1743UBIFM	*		*	*		*
	COST ACCOUNTING	2044UBICA	*		*	*		
	BUSINESS ECONOMICS -II	1745UBIBE	*	*				*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1946UBICG	*	*			*	*
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	1947UBIFC	*	*			*	*
V	INTERNATIONAL BANKING AND FINANCE	1851UBIIBF	*	*				*
	RESEARCH METHODOLOGY	1852UBIRM	*		*	*		*
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1853UBIAA	*		*	*		
	FINANCIAL REPORTING AND ANALYSIS	1854UBIFRA	*		*		*	*


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	AUDITING - I	1855UBIAD	*	*			*	
	FINANCIAL SERVICES MANAGEMENT	1856UBIFS	*	*				*
VI	WEALTH MANAGEMENT	2061UBIWM	*		*			*
	INTERNSHIP BASED PROJECT WORK	1962UBIIP	*	*		*		*
	MARKETING IN BANKING AND INSURANCE	1863UBIMK	*	*				*
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1864UBISM	*		*	*		*
	AUDITING- II	1865UBIAD	*	*	*		*	
	BANKING ASPECTS IN BUSINESS	1966UBIBA	*	*				*

**Table No. D.2: CO Attainment Level: Bachelor of Commerce (Banking and Insurance)-BBI
Academic Year - 2020-21**

Sem ester	Course	Course code	CO Attainme nt value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNIC ATION - I	2011UBIBC	2.4	2	Fully Attained	NA
	PRINCIPLES OF MANAGEM ENT	2012UBIPM	3	2	Fully Attained	NA
	FOUNDATI ON COURSE - I	2013UBIFC	2.8	2	Fully Attained	NA
	BUSINESS ECONOMIC S - I	2014UBIBE	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTI NG - I	2015UBIFA	2.2	2	Fully Attained	NA
	ENVIRONM ENT AND MANAGEM ENT OF FINANCIAL SERVICES	2016UBIEM	2.4	2	Fully Attained	NA



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	QUANTITATIVE METHODS - I	2017UBIQM	2.8	2	Fully Attained	NA
II	BUSINESS COMMUNICATION- II	2021UBIBC	2.6	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	3	2	Fully Attained	NA
	FOUNDATION COURSE- II	2023UBIFC	3	2	Fully Attained	NA
	BUSINESS LAW	2024UBIBL	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II	2025UBIFA	2.4	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	2.8	2	Fully Attained	NA
	QUANTITATIVE METHODS - II	2027UBIQM	2	2	Fully Attained	NA
III	FINANCIAL MARKETS	1731UBIFM	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -I	1732UBIIT	1.75	2	Not Attained	
	FINANCIAL MANAGEMENT - I	1733UBIFT	1.25	2	Not Attained	
	MANAGEMENT ACCOUNTING	1734UBIMA	1.5	2	Not Attained	
	DIRECT TAXATION	1735UBIDT	1.75	2	Not Attained	
	RISK	1936UBIRM	1.5	2	Not Attained	



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	MANAGEMENT					
	FOUNDATION COURSE - III (HUMAN RESOURCE MANAGEMENT)	1937UBIFC	1.5	2	Not Attained	
IV	CORPORATE AND SECURITIES LAW	1741UBICL	1.75	2	Not Attained	
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1942UBIIT	1.5	2	Not Attained	
	FINANCIAL MANAGEMENT -II	1743UBIFM	1.5	2	Not Attained	
	COST ACCOUNTING	2044UBICA	1.5	2	Not Attained	
	BUSINESS ECONOMICS -II	1745UBIBE	1.25	2	Not Attained	
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1946UBICG	1.5	2	Not Attained	
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	1947UBIFC	1.5	2	Not Attained	
V	INTERNATIONAL BANKING AND FINANCE	1851UBIIBF	2.25	2	Fully Attained	NA



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	RESEARCH METHODOLOGY	1852UBIRM	2.25	2	Fully Attained	NA
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1853UBIAA	2.5	2	Fully Attained	NA
	FINANCIAL REPORTING AND ANALYSIS	1854UBIFRA	2.25	2	Fully Attained	NA
	AUDITING - I	1855UBIAD	2.25	2	Fully Attained	NA
	FINANCIAL SERVICES MANAGEMENT	1856UBIFS	3.25	2	Fully Attained	NA
VI	WEALTH MANAGEMENT	2061UBIWM	3	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1962UBIIP	4	2	Fully Attained	NA
	MARKETING IN BANKING AND INSURANCE	1863UBIMK	3.25	2	Fully Attained	NA
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1864UBISM	3.25	2	Fully Attained	NA
	AUDITING- II	1865UBIAD	2.25	2	Fully Attained	NA
	BANKING ASPECTS IN BUSINESS	1966UBIBA	3	2	Fully Attained	NA
		Average	2.30375			

NA: Not Applicable as target level is fully attained.


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Table No.D.2a: PO Attainment Level-B.Com(Banking and Insurance)-BBI-2020-21

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
A2020-21	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.

**Table No. D.3: Results of CO-PO attainment-
Bachelor of Commerce (Banking and Insurance)(BBI)-Academic Year 2020-21**

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	2011UBIBC	2.4	2.4			2.4	2.4
	PRINCIPLES OF MANAGEMENT	2012UBIPM	3	3	3			3
	FOUNDATION COURSE - I	2013UBIFC	2.8	2.8			2.8	2.8
	BUSINESS ECONOMICS - I	2014UBIBE	3	3	3			3
	FINANCIAL ACCOUNTING - I	2015UBIFA	2.2		2.2	2.2		*
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	2016UBIEM	2.4	2.4			2.4	
	QUANTITATIVE METHODS - I	2017UBIQM	2.8		2.8	2.8		2.8
II	BUSINESS COMMUNICATION - II	2021UBIBC	2.6	2.6				2.6
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	3	3			3	3
	FOUNDATION COURSE- II	2023UBIFC	3	3			3	3
	BUSINESS LAW	2024UBIBL	3		3		3	



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	FINANCIAL ACCOUNTING - II	2025UBIFA	2.4		2.4	2.4		2.4
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	2.8	2.8				2.8
	QUANTITATIVE METHODS -II	2027UBIQM	2		2	2		2
III	FINANCIAL MARKETS	1731UBIFM	1.5			1.5		1.5
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	1732UBIIT	1.75	1.75	1.75			1.75
	FINANCIAL MANAGEMENT - I	1733UBIFT	1.25		1.25	1.25		1.25
	MANAGEMENT ACCOUNTING	1734UBIMA	1.5		1.5			1.5
	DIRECT TAXATION	1735UBIDT	1.75		1.75			1.75
	RISK MANAGEMENT	1936UBIRM	1.5		1.5	1.5		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1937UBIFC	1.5	1.5			1.5	1.5
IV	CORPORATE AND SECURITIES LAW	1741UBICL	1.75		1.75			1.75
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1942UBIIT	1.5	1.5		1.5		1.5
	FINANCIAL MANAGEMENT - II	1743UBIFM	1.5		1.5	1.5		1.5
	COST ACCOUNTING	2044UBICA	1.5		1.5	1.5		
	BUSINESS ECONOMICS -II	1745UBIBE	1.25	1.25				1.25
	BUSINESS	1946UBICG	1.5	1.5			1.5	1.5



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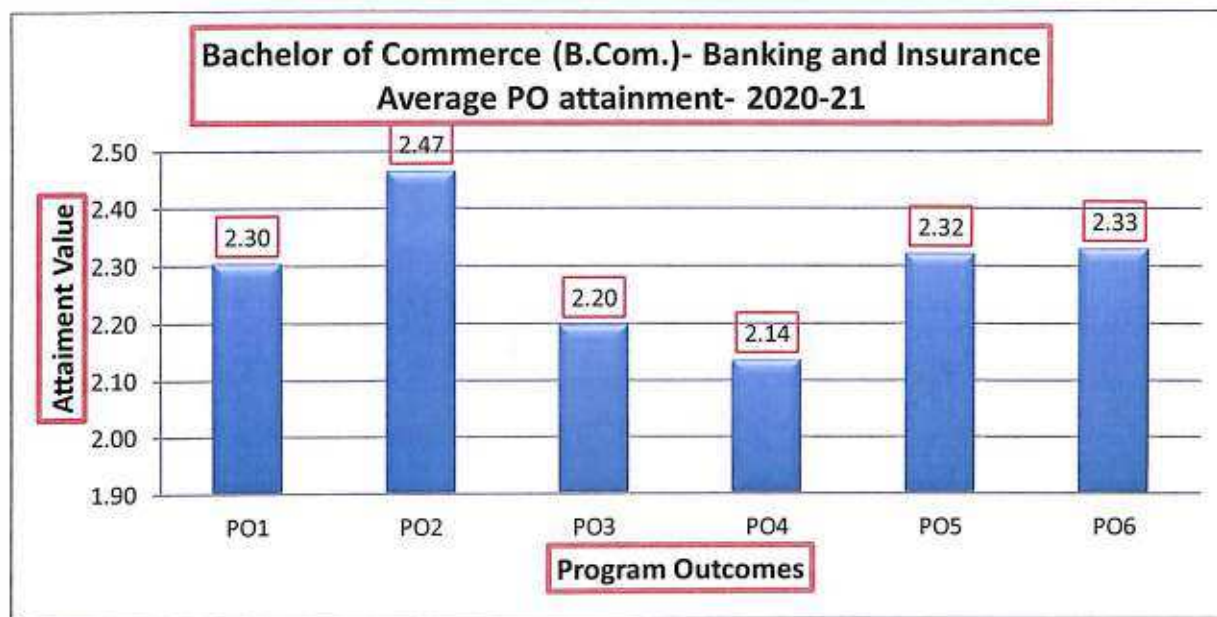
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	ETHICS AND CORPORATE GOVERNANCE							
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	1947UBIFC	1.5	1.5			1.5	1.5
V	INTERNATIONAL BANKING AND FINANCE	1851UBIIB F	2.25	2.25				2.25
	RESEARCH METHODOLOGY	1852UBIRM	2.25		2.25	2.25		2.25
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1853UBIA A	2.5		2.25	2.25		
	FINANCIAL REPORTING AND ANALYSIS	1854UBIFR A	2.25		2.25		2.25	2.25
	AUDITING - I	1855UBIA D	2.25	2.25			2.25	
	FINANCIAL SERVICES MANAGEMENT	1856UBIFS	3.25	3.25				3.25
VI	WEALTH MANAGEMENT	2061UBIW M	3		3			3
	INTERNSHIP BASED PROJECT WORK	1962UBIIP	4	4		4		4
	MARKETING IN BANKING AND INSURANCE	1863UBIM K	3.25	3.25				3.25
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1864UBIS M	3.25		3.25	3.25		3.25
	AUDITING- II	1865UBIA D	2.25	2.25	2.25		2.25	
	BANKING ASPECTS IN BUSINESS	1966UBIBA	3	3				3
		Average	2.30	2.47	2.20	2.14	2.32	2.33


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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 between 2.0 and 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 - 2020-21

Semester	Course	Course Code	PO 1	PO2	PO3	PO4	PO5	PO 6
I	BUSINESS COMMUNICATION-I	2011UFMBC	*	*	*	*		*
	BUSINESS ENVIRONMENT	2012UFMBE	*	*			*	*
	FOUNDATION COURSE – I	2013UFMFC		*	*		*	
	BUSINESS ECONOMICS-I	2014UFMBE	*	*	*	*		*
	FINANCIAL ACCOUNTING- I	2015UFMFA	*	*	*	*		*
	INTRODUCTION TO FINANCIAL SYSTEM	2016UFMFS	*	*				*
	BUSINESS MATHEMATICS	2017UFMBM	*	*	*	*		*
II	BUSINESS COMMUNICATION-II	2021UFMBC	*	*	*	*		*
	ACCOUNTING IN CORPORATE ENVIRONMENT	2022UFMAE	*	*	*	*		*
	FOUNDATION COURSE – II	2023UFMFC		*	*	*	*	
	COMPUTER SKILLS-I	2024UFMCS	*	*		*	*	*
	FINANCIAL ACCOUNTING- II	2025UFMFA	*	*	*	*		*
	PRINCIPLES OF MANAGEMENT	2026UFMPM	*	*	*	*	*	*
	BUSINESS STATISTICS	2027UFMBS	*	*	*	*		*
III	MANAGEMENT ACCOUNTING	1731UFMM A	*	*	*	*		*
	FOUNDATION COURSE– III (MONEY MARKET)	1732UFMFC	*	*	*	*		*
	DEBT MARKET-I	1733UFMD M	*	*	*	*		*
	EQUITY MARKET-I	1934UFMEM	*	*	*	*		*
	COMMODITY MARKET	2035UFMCM	*	*	*	*		*
	COMPUTER SKILLS-II	2036UFMCS	*	*	*	*		*



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	BUSINESS LAW-I	1737UFMBL	*	*	*	*	*	*
IV	CORPORATE FINANCE	1741UFMCF	*	*	*	*		*
	FOUNDATION COURSE – IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	*	*	*	*		*
	DEBT MARKET-II	1743UFMDM	*	*	*	*		*
	EQUITY MARKET - II	1944UFMEM	*	*	*	*		*
	COMMODITY AND DERIVATIVE MARKET	2045UFMCD	*	*	*	*		*
	BUSINESS ECONOMICS-II	1746UFMBE	*	*	*	*		*
	BUSINESS LAW-II	1847UFMBL	*	*	*	*	*	*
V	FINANCIAL DERIVATIVES	1851UFMFD	*	*	*	*		*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1852UFMCG	*	*			*	*
	CORPORATE ACCOUNTING	1853UFMCA	*	*	*	*		*
	EQUITY RESEARCH	2054UFMER	*	*	*	*		*
	DIRECT TAX - INCOME TAX	1855UFMDT	*	*	*	*	*	*
	MARKETING IN FINANCIAL SERVICES	1856UFMFS	*	*	*	*		*
VI	RISK MANAGEMENT	1861UFMRM	*	*	*	*		*
	INTERNSHIP BASED PROJECT WORK	1962UFMIP	*	*	*	*	*	*
	VENTURE CAPITAL AND PRIVATE EQUITY	1863UFMVE	*	*	*	*		*
	STRATEGIC CORPORATE FINANCE	1864UFMSCF	*	*	*	*		*
	INDIRECT TAX-GST	1865UFMIT	*	*	*	*	*	*
	ORGANIZATIONAL BEHAVIOUR	1966UFMOB	*	*	*		*	*



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**Table No. E.2: CO Attainment Level: Bachelor of Commerce (Financial Markets)-BFM
Academic Year - 2020-21**

Seme ster	Course	Course Code	CO Attainme nt value	Attainme nt Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICA TION-I	2011UFMBC	3.4	2	Fully Attained	NA
	BUSINESS ENVIRONME NT	2012UFMBE	2.4	2	Fully Attained	NA
	FOUNDATION COURSE – I	2013UFMFC	2.8	2	Fully Attained	NA
	BUSINESS ECONOMICS-I	2014UFMBE	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL ACCOUNTING - I	2015UFMFA	2.4	2	Fully Attained	NA
	INTRODUCTI ON TO FINANCIAL SYSTEM	2016UFMFS	3.6	2	Fully Attained	NA
	BUSINESS MATHEMATI CS	2017UFMBM	3	2	Fully Attained	NA
II	BUSINESS COMMUNICA TION-II	2021UFMBC	2.8	2	Fully Attained	NA
	ACCOUNTING IN CORPORATE ENVIRONME NT	2022UFMAE	2.4	2	Fully Attained	NA
	FOUNDATION COURSE – II	2023UFMFC	3	2	Fully Attained	NA
	COMPUTER SKILLS-I	2024UFMCS	2.2	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II	2025UFMFA	2.6	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMEN T	2026UFMPM	3.6	2	Fully Attained	NA
	BUSINESS	2027UFMBS	2.4	2	Fully	NA



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	STATISTICS				Attained	
III	MANAGEMENT ACCOUNTING	1731UFMMA	3	2	Fully Attained	NA
	FOUNDATION COURSE- III (MONEY MARKET)	1732UFMFC	3.25	2	Fully Attained	NA
	DEBT MARKET-I	1733UFMDM	4	2	Fully Attained	NA
	EQUITY MARKET-I	1934UFMEM	2.5	2	Fully Attained	NA
	COMMODITY MARKET	2035UFMCM	4	2	Fully Attained	NA
	COMPUTER SKILLS-II	2036UFMCS	2.5	2	Fully Attained	NA
	BUSINESS LAW-I	1737UFMBL	2.5	2	Fully Attained	NA
IV	CORPORATE FINANCE	1741UFMCF	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	3.25	2	Fully Attained	NA
	DEBT MARKET-II	1743UFMDM	2.25	2	Fully Attained	NA
	EQUITY MARKET - II	1944UFMEM	3.25	2	Fully Attained	NA
	COMMODITY AND DERIVATIVE MARKET	2045UFMCD	3.25	2	Fully Attained	NA
	BUSINESS ECONOMICS-II	1746UFMBE	3.25	2	Fully Attained	NA
	BUSINESS LAW-II	1847UFMBL	4	2	Fully Attained	NA
V	FINANCIAL DERIVATIVES	1851UFMFD	3.25	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1852UFMCG	3.25	2	Fully Attained	NA
	CORPORATE ACCOUNTING	1853UFMCA	3	2	Fully Attained	NA
	EQUITY	2054UFMER	2.5	2	Fully	NA



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	RESEARCH				Attained	
	DIRECT TAX - INCOME TAX	1855UFMDT	2.5	2	Fully Attained	NA
	MARKETING IN FINANCIAL SERVICES	1856UFMFS	3.25	2	Fully Attained	NA
VI	RISK MANAGEMENT	1861UFMRM	3.25	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1962UFMIP	2.25	2	Fully Attained	NA
	VENTURE CAPITAL AND PRIVATE EQUITY	1863UFMVE	3.25	2	Fully Attained	NA
	STRATEGIC CORPORATE FINANCE	1864UFMSCF	2.5	2	Fully Attained	NA
	INDIRECT TAX-GST	1865UFMIT	3.25	2	Fully Attained	NA
	ORGANIZATIONAL BEHAVIOUR	1966UFMOB	3	2	Fully Attained	NA
		Average	2.92			
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
A2020-21	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.


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**Table No. E.3: Results of CO-PO attainment-Bachelor of Financial Markets (BFM)-
Academic Year 2020-21**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION -I	2011UFMBC	3.4	3.4	3.4	3.4		3.4
	BUSINESS ENVIRONMENT	2012UFMBE	2.4	2.4			2.4	2.4
	FOUNDATION COURSE – I	2013UFMFC		2.8	2.8		2.8	
	BUSINESS ECONOMICS-I	2014UFMBE	1.8	1.8	1.8	1.8		1.8
	FINANCIAL ACCOUNTING- I	2015UFMFA	2.4	2.4	2.4	2.4		2.4
	INTRODUCTION TO FINANCIAL SYSTEM	2016UFMFS	3.6	3.6				3.6
	BUSINESS MATHEMATICS	2017UFMBM	3	3	3	3		3
II	BUSINESS COMMUNICATION -II	2021UFMBC	2.8	2.8	2.8	2.8		2.8
	ACCOUNTING IN CORPORATE ENVIRONMENT	2022UFMAE	2.4	2.4	2.4	2.4		2.4
	FOUNDATION COURSE – II	2023UFMFC		3	3	3	3	
	COMPUTER SKILLS-I	2024UFMCS	2.2	2.2		2.2	2.2	2.2
	FINANCIAL ACCOUNTING- II	2025UFMFA	2.6	2.6	2.6	2.6		2.6
	PRINCIPLES OF MANAGEMENT	2026UFMPM	3.6	3.6	3.6	3.6	3.6	3.6
	BUSINESS STATISTICS	2027UFMBS	2.4	2.4	2.4	2.4		2.4
III	MANAGEMENT ACCOUNTING	1731UFMMA	3	3	3	3		3
	FOUNDATION COURSE– III (MONEY MARKET)	1732UFMFC	3.25	3.25	3.25	3.25		3.25
	DEBT MARKET-I	1733UFMDM	4	4	4	4		4
	EQUITY MARKET-I	1934UFMEM	2.5	2.5	2.5	2.5		2.5


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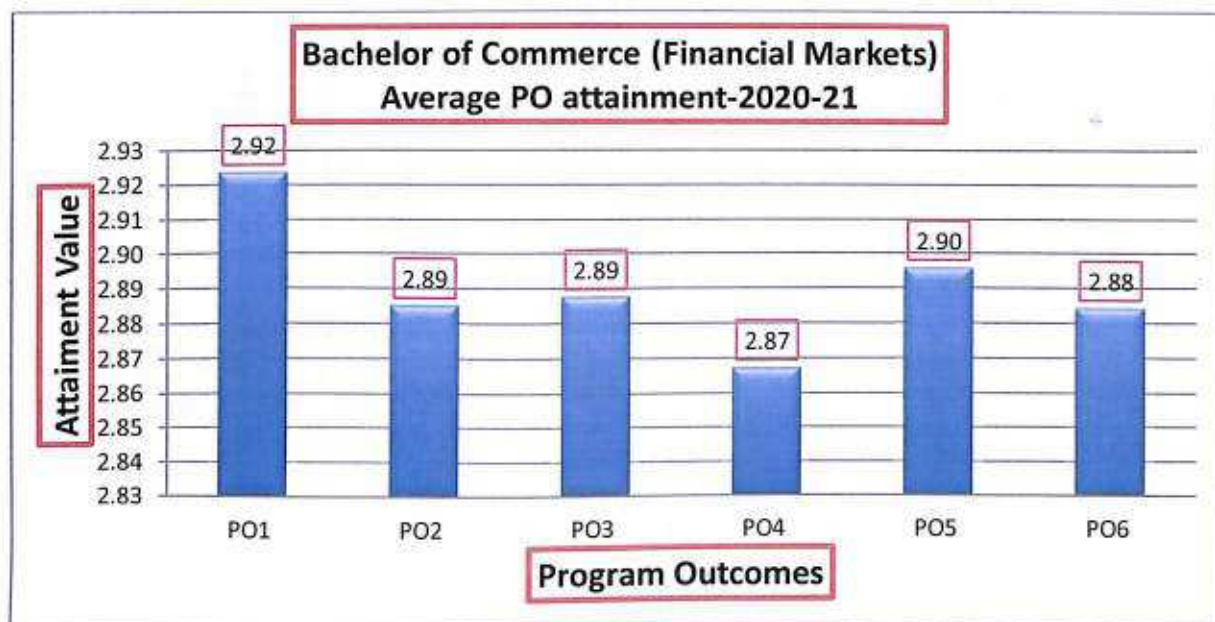
	COMMODITY MARKET	2035UFMCM	4	2.5	2.5	2.5		2.5
	COMPUTER SKILLS-II	2036UFMCS	2.5	2.5	2.5	2.5		2.5
	BUSINESS LAW-I	1737UFMBL	2.5	2.5	2.5	2.5	2.5	2.5
IV	CORPORATE FINANCE	1741UFMCF	2.25	2.25	2.25	2.25		2.25
	FOUNDATION COURSE – IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	3.25	3.25	3.25	3.25		3.25
	DEBT MARKET-II	1743UFMDM	2.25	2.25	2.25	2.25		2.25
	EQUITY MARKET - II	1944UFMEM	3.25	3.25	3.25	3.25		3.25
	COMMODITY AND DERIVATIVE MARKET	2045UFMCD	3.25	3.25	3.25	3.25		3.25
	BUSINESS ECONOMICS-II	1746UFMBE	3.25	3.25	3.25	3.25		3.25
	BUSINESS LAW-II	1847UFMBL	4	4	4	4	4	4
V	FINANCIAL DERIVATIVES	1851UFMFD	3.25	3.25	3.25	3.25		3.25
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1852UFMCG	3.25	3.25			3.25	3.25
	CORPORATE ACCOUNTING	1853UFMCA	3	3	3	3		3
	EQUITY RESEARCH	2054UFMER	2.5	2.5	2.5	2.5		2.5
	DIRECT TAX - INCOME TAX	1855UFMDT	2.5	2.5	2.5	2.5	2.5	2.5
	MARKETING IN FINANCIAL SERVICES	1856UFMFS	3.25	3.25	3.25	3.25		3.25
VI	RISK MANAGEMENT	1861UFMRM	3.25	3.25	3.25	3.25		3.25
	INTERNSHIP BASED PROJECT WORK	1962UFMIP	2.25	2.25	2.25	2.25	2.25	2.25
	VENTURE CAPITAL AND PRIVATE EQUITY	1863UFMVE	3.25	3.25	3.25	3.25		3.25
	STRATEGIC CORPORATE	1864UFMSC F	2.5	2.5	2.5	2.5		2.5



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	FINANCE							
	INDIRECT TAX-GST	1865UFMIT	3.25	3.25	3.25	3.25	3.25	3.25
	ORGANIZATIONAL BEHAVIOUR	1966UFMOB	3	3	3		3	3
		Average	2.92	2.89	2.89	2.87	2.90	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).

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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 - 2020-21**

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	PS O5	PS O6	PS O7	PS O8
I	BUSINESS COMMUNICATION - I	2011 UMS BC	*	*	*			*								
	FOUNDATION COURSE - I	2012 UMS FC	*	*												
	FOUNDATION OF HUMAN SKILLS	2013 UMS HS	*		*	*	*									
	BUSINESS LAW	2014 UMS BL	*		*		*									
	BUSINESS STATISTICS	2015 UMS BS	*	*			*	*								
	INTRODUCTION TO FINANCIAL ACCOUNTS	2016 UMS FA	*	*		*		*								
	PRINCIPLES OF MANAGEMENT	2017 UMS PM	*	*	*	*		*								
II	BUSINESS COMMUNICATION-II	2021 UMS BC	*	*	*			*								
	FOUNDATION COURSE - II (VALUE EDUCATION AND SOFT SKILLS)	2022 UMS FC	*	*	*	*										
	BUSINESS ENVIRONMENT	2023 UMS BV	*	*			*	*								
	BUSINESS MATHEMATICS	2024 UMS BM	*	*			*	*								
	INDUSTRIAL LAW	2025 UMSI	*		*		*									


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	PRODUCT INNOVATIONS MANAGEMENT	1837 UMS PIM											*	*	*	*
	ACCOUNTING FOR MANAGERIAL DECISIONS	1937 UMS AD											*	*	*	*
	STRATEGIC MANAGEMENT	1937 UMS SM											*	*	*	*
													*		*	*
IV	BUSINESS ECONOMICS - II	2041 UMS BE	*	*			*	*								
	BUSINESS RESEARCH METHODS	1942 UMS BRM	*	*	*	*	*	*								
	CHANGE MANAGEMENT	1943 UMS CM	*	*	*	*	*									
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1844 UMS PQM	*	*			*									
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	1845 UMSI BM	*	*	*		*									
	STRATEGIC COST MANAGEMENT	1846 UMS SCM							*	*	*	*				
	CORPORATE RESTRUCTURING	1947 UMS CR							*	*	*	*				
	FINANCIAL INSTITUTIONS & MARKETS	1946 UMS FIM							*	*	*	*				
	AUDITING	1946 UMS A							*	*	*					



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ARTS & MANAGEMENT STUDIES AND SHANTABEN
NAGINDAS KHANWALA COLLEGE OF SCIENCE
(AUTONOMOUS)
MALAD (W), MUMBAI - 400 084

	INTEGRATED MARKETING COMMUNICATION	1846 UMSI MC											*	*	*	*
	EVENT MARKETING	1847 UMS EM											*		*	*
	RURAL MARKETING	1947 UMS RM											*	*	*	*
	TOURISM MARKETING	1947 UMS TM											*	*		*
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851 UMS LSM	*	*	*		*									
	ANALYTICAL SKILLS FOR MANAGERS	1952 UMS ASM	*	*			*	*								
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853 UMSI PM							*	*	*	*				
	WEALTH MANAGEMENT	1854 UMS WM							*	*	*	*				
	DIRECT TAXES	1855 UMS DT							*	*	*	*				
	COMMODITY AND DERIVATIVES MARKET	1856 UMS CDM							*	*	*	*				
	FINANCIAL ACCOUNTING	1953 UMS FA							*	*	*	*				
	RISK MANAGEMENT	1953 UMS RM							*	*		*				
	SERVICE MARKETING	1853 UMS SM											*	*	*	*
	E-	1854 UMS											*	*		*



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NAGINDAS KHANDWALA COLLEGE OF SCIENCE
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MALAD (W), MUMBAI - 400 064

	COMMERCE AND DIGITAL MARKETING	EDM															
	SALES AND DISTRIBUTION MANAGEMENT	1855 UMS SDM										*	*	*	*		
	CUSTOMER RELATIONSHIP MANAGEMENT	1956 UMS CRM										*	*	*	*		
	INDUSTRIAL MARKETING	1954 UMSI M										*	*			*	
	STRATEGIC MARKETING MANAGEMENT	1954 UMS SMM										*	*	*	*		
VI	OPERATION RESEARCH	1861 UMS OR	*	*	*		*	*									
	RESEARCH BASED PROJECT WORK	1862 UMS RPW	*	*	*	*	*	*									
	INTERNATIONAL FINANCE	1863 UMSI F							*	*	*	*					
	INNOVATIVE FINANCIAL SERVICES	1864 UMSI FS							*	*		*					
	PROJECT MANAGEMENT	1865 UMS PM							*	*	*	*					
	INDIRECT TAXES	1866 UMSI DT							*	*		*					
	STRATEGIC FINANCIAL MANAGEMENT	1963 UMS SFM							*	*	*	*					
	FINANCING RURAL DEVELOPMENT	1963 UMS FRD							*		*	*					



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BRAND MANAGEMENT	1863 UMS BM											*	*	*	*
RETAIL MANAGEMENT	1864 UMS RM											*	*	*	*
SPORTS MARKETING	1965 UMS SM												*	*	*
MEDIA PLANNING AND MANAGEMENT	1866 UMS MPM											*	*	*	*
INTERNATIONAL MARKETING	1864 UMSI M											*		*	*
MARKETING FOR NON- PROFIT ORGANIZATION	1964 UMS MNO												*	*	*

Table No. F.2: CO Attainment Level: Bachelor of Management Studies (BMS)
Academic Year - 2020-21

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION – I	2011UMSBC	3.4	2	Fully Attained	NA
	FOUNDATION COURSE – I	2012UMSFC	3.6	2	Fully Attained	NA
	FOUNDATION OF HUMAN SKILLS	2013UMSHS	2.4	2	Fully Attained	NA
	BUSINESS LAW	2014UMSBL	3	2	Fully Attained	NA
	BUSINESS STATISTICS	2015UMSBS	3	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL ACCOUNTS	2016UMSFA	4	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	2017UMSPM	3.4	2	Fully Attained	NA
II	BUSINESS	2021UMSBC	2.4	2	Fully	NA



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NAGINDAS KHANDWALA COLLEGE OF SCIENCE

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

	COMMUNICATION-II				Attained	
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	2022UMSFC	3.4	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	2023UMSBV	3.6	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2024UMSBM	3.4	2	Fully Attained	NA
	INDUSTRIAL LAW	2025UMSIL	4	2	Fully Attained	NA
	PRINCIPLES OF MARKETING	2026UMSPM	4	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	2027UMSBE	3.4	2	Fully Attained	NA
III	PERSONAL EFFECTIVENESS MANAGEMENT	1831UMSPE M	3	2	Fully Attained	NA
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1832UMSBE M	3.25	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	1833UMSAM D	3.25	2	Fully Attained	NA
	STRATEGIC MANAGEMENT	1934UMSSM	2.5	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT – I	1935UMSITB	3.25	2	Fully Attained	NA
	EQUITY AND DEBT MARKET	1936UMSED M	3.25	2	Fully Attained	NA
	CORPORATE FINANCE	1837UMSCF	2.25	2	Fully Attained	NA
	BASICS OF FINANCIAL SERVICES	1836UMSBFS	NA	2	Fully Attained	NA
	ICA	1936UMSICA	NA	2	Fully Attained	NA



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	CONSUMER BEHAVIOUR	1836UMSCB	2.25	2	Fully Attained	NA
	PRODUCT INNOVATIONS MANAGEMENT	1837UMSPIM	3.25	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	1937UMSAD	NA	2	Fully Attained	NA
	STRATEGIC MANAGEMENT	1937UMSSM	NA	2	Fully Attained	NA
IV	BUSINESS ECONOMICS- II	2041UMSBE	3	2	Fully Attained	NA
	BUSINESS RESEARCH METHODS	1942UMSBRM	3	2	Fully Attained	NA
	CHANGE MANAGEMENT	1943UMSCM	4	2	Fully Attained	NA
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1844UMSPQM	2.5	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	1845UMSIBM	3.75	2	Fully Attained	NA
	STRATEGIC COST MANAGEMENT	1846UMSSCM	2.5	2	Fully Attained	NA
	CORPORATE RESTRUCTURING	1947UMSCR	3.25	2	Fully Attained	NA
	FIM	1946UMSFIM	NA	2	Fully Attained	NA
	AU	1946UMSA	NA	2	Fully Attained	NA
	INTEGRATED MARKETING COMMUNICATION	1846UMSIMC	2.25	2	Fully Attained	NA
	EVENT MARKETING	1847UMSEM	3.25	2	Fully Attained	NA
	RM	1947UMSRM	NA	2	Fully Attained	NA
	TM	1947UMSTM	NA	2	Fully	NA



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					Attained	
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLSM	2.5	2	Fully Attained	NA
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSASM	3.25	2	Fully Attained	NA
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIPM	2.25	2	Fully Attained	NA
	WEALTH MANAGEMENT	1854UMSWM	3.25	2	Fully Attained	NA
	DIRECT TAXES	1855UMSDT	3.75	2	Fully Attained	NA
	COMMODITY AND DERIVATIVES MARKET	1856UMSCDM	2.25	2	Fully Attained	NA
	FA	1953UMSFA	NA	2	Fully Attained	NA
	RM	1953UMSRM	3.25	2	Fully Attained	NA
	SERVICE MARKETING	1853UMSSM	3.25	2	Fully Attained	NA
	E-COMMERCE AND DIGITAL MARKETING	1854UMSEDM	2.25	2	Fully Attained	NA
	SALES AND DISTRIBUTION MANAGEMENT	1855UMSSDM	2.5	2	Fully Attained	NA
	CUSTOMER RELATIONSHIP MANAGEMENT	1956UMSCR M	NA	2	Fully Attained	NA
	IM	1954UMSIM	NA	2	Fully Attained	NA
	SMM	1954UMSSM M	NA	2	Fully Attained	NA
VI	OPERATION RESEARCH	1861UMSOR	3.5	2	Fully Attained	NA
	RESEARCH BASED PROJECT WORK	1862UMSRP W	3.25	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1863UMSIF	2.5	2	Fully Attained	NA
	INNOVATIVE	1864UMSIFS	3	2	Fully	NA



PRINCIPAL

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MALAD (W), MUMBAI - 400 064

	FINANCIAL SERVICES				Attained	
	PROJECT MANAGEMENT	1865UMSPM	3.75	2	Fully Attained	NA
	INDIRECT TAXES	1866UMSIDT	2.25	2	Fully Attained	NA
	SFM	1963UMSSF	NA	2	Fully Attained	NA
	FRD	1963UMSFRD	NA	2	Fully Attained	NA
	BRAND MANAGEMENT	1863UMSBM	3.75	2	Fully Attained	NA
	RETAIL MANAGEMENT	1864UMSRM	3.25	2	Fully Attained	NA
	SPORTS MARKETING	1965UMSSM	2.5	2	Fully Attained	NA
	MEDIA PLANNING AND MANAGEMENT	1866UMSMP M	4	2	Fully Attained	NA
	INTERNATIONAL MARKETING	1864UMSIM	NA	2	Fully Attained	NA
	MNO	1964UMSMNO	NA	2	Fully Attained	NA
		Average	3.10			
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
A2020-21	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 2020-21**

Se mes ter	Course	Course Code	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	Finance Elective				Marketing Elective			
									P S O 1	P S O 2	P S O 3	P S O 4	P S O 5	P S O 6	P S O 7	P S O 8
I	BUSINESS COMMUNICATION - I	2011UMSB C	3.4	3.4	3.4			3.4								
	FOUNDATION COURSE - I	2012UMSF C	3.6	3.6												
	FOUNDATION OF HUMAN SKILLS	2013UMSH S	2.4		2.4	2.4	2.4									
	BUSINESS LAW	2014UMSB L	3		3		3									
	BUSINESS STATISTICS	2015UMSB S	3	3			3	3								
	INTRODUCTION TO FINANCIAL ACCOUNTS	2016UMSF A	4	4		4		4								
	PRINCIPLES OF MANAGEMENT	2017UMSP M	3.4	3.4	3.4	3.4		3.4								
II	BUSINESS COMMUNICATION-II	2021UMSB C	2.4	2.4	2.4			2.4								
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	2022UMSF C	3.4	3.4	3.4	3.4										
	BUSINESS ENVIRONMENT	2023UMSB V	3.6	3.6			3.6	3.6								
	BUSINESS MATHEMATICS	2024UMSB M	3.4	3.4			3.4	3.4								
	INDUSTRIAL LAW	2025UMSIL	4		4		4									
	PRINCIPLES OF MARKETING	2026UMSP M	4	4	4	4	4	4								
	BUSINESS ECONOMICS - I	2027UMSB E	3.4	3.4			3.4									
III	PERSONAL EFFECTIVENESS MANAGEMENT	1831UMSPE M	3		3	3		3								
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1832UMSB EM	3.25	3.25	3.25	3.25	3.25	3.25								
	ACCOUNTING FOR MANAGERIAL DECISIONS	1833UMSA MD	3.25	3.25			3.25	3.25								



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IV	STRATEGIC MANAGEMENT	1934UMSS M	2.5	2.5		2.5	2.5	2.5									
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT – I	1935UMSIT B	3.25	3.25	3.25			3.25									
	EQUITY AND DEBT MARKET	1936UMSE DM							3.25	3.25	3.25	3.25					
	CORPORATE FINANCE	1837UMSC F							2.25	2.25	2.25	2.25					
	BASICS OF FINANCIAL SERVICES	1836UMSB FS							N A		N A	N A					
	ICA	1936UMSIC A							N A	N A	N A						
	CONSUMER BEHAVIOUR	1836UMSC B											2.25	2.25	2.25	2.25	
	PRODUCT INNOVATIONS MANAGEMENT	1837UMSPI M											3.25	3.25	3.25	3.25	
	ACCOUNTING FOR MANAGERIAL DECISIONS	1937UMSA D											N A	N A	N A	N A	
	STRATEGIC MANAGEMENT	1937UMSS M											N A	N A	N A	N A	
													N A		N A	N A	
IV	BUSINESS ECONOMICS- II	2041UMSB E	3	3				3	3								
	BUSINESS RESEARCH METHODS	1942UMSB RM	3	3	3	3	3	3									
	CHANGE MANAGEMENT	1943UMSC M	4	4	4	4	4										
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1844UMSP QM	2.25	2.25				2.25									
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	1845UMSIB M	3.75	3.75	3.75			3.75									
	STRATEGIC COST MANAGEMENT	1846UMSS CM							2.25	2.25	2.25	2.25					
	CORPORATE RESTRUCTURING	1947UMSC R							3.25	3.25	3.25	3.25					
	FIM	1946UMSFI M							N A	N A	N A	N A					
	AU	1946UMSA							N A	N A	N A						



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	INTEGRATED MARKETING COMMUNICATION	1846UMSI MC												2.25	2.25	2.25	2.25
	EVENT MARKETING	1847UMSE M												3.25		3.25	3.25
	RM	1947UMSR M												N A	N A	N A	N A
	TM	1947UMST M												N A	N A		N A
	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLS M	2.25	2.25	2.25		2.25										
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSA SM	3.25	3.25			3.25	3.25									
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIP M						2.25	2.25	2.25	2.25						
	WEALTH MANAGEMENT	1854UMSW M						3.25	3.25	3.25	3.25						
	DIRECT TAXES	1855UMSD T						3.75	3.75	3.75	3.75						
	COMMODITY AND DERIVATIVES MARKET	1856UMSC DM						2.25	2.25	2.25	2.25						
V	FA	1953UMSF A						N A	N A	N A	N A						
	RM	1953UMSR M						3.25	3.25		3.25						
	SERVICE MARKETING	1853UMSS M										3.25	3.25	3.25	3.25	3.25	3.25
	E-COMMERCE AND DIGITAL MARKETING	1854UMSE DM										2.25	2.25			2.25	2.25
	SALES AND DISTRIBUTION MANAGEMENT	1855UMSS DM										2.5	2.5	2.5	2.5	2.5	2.5
	CUSTOMER RELATIONSHIP MANAGEMENT	1956UMSC RM										N A	N A	N A	N A	N A	N A
	IM	1954UMSI M										N A	N A			N A	N A
	SMM	1954UMSS MM										N A	N A	N A	N A	N A	N A
VI	OPERATION RESEARCH	1861UMSO R	3.5	3.5	3.5		3.5	3.5									



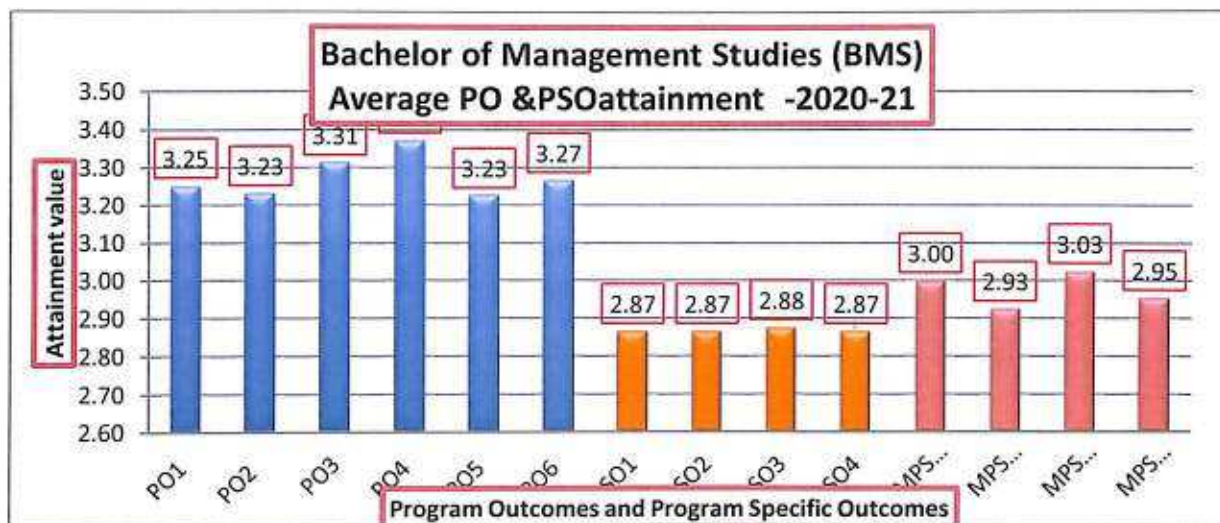
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RESEARCH BASED PROJECT WORK	1862UMSR PW	3.25	3.25	3.25	3.25	3.25	3.25								
INTERNATIONAL FINANCE	1863UMSIF							2.5	2.5	2.5	2.5				
INNOVATIVE FINANCIAL SERVICES	1864UMSIFS							3	3		3				
PROJECT MANAGEMENT	1865UMSPM							3.75	3.75	3.75	3.75				
INDIRECT TAXES	1866UMSIDT							2.25	2.25		2.25				
SFM	1963UMSSFM							N/A	N/A	N/A	N/A				
FRD	1963UMSF RD							N/A		N/A	N/A				
BRAND MANAGEMENT	1863UMSBM											3.75	3.75	3.75	3.75
RETAIL MANAGEMENT	1864UMSRM											3.25	3.25	3.25	3.25
SPORTS MARKETING	1965UMSSM												2.5	2.5	2.5
MEDIA PLANNING AND MANAGEMENT	1866UMSM PM											4	4	4	4
INTERNATIONAL MARKETING	1864UMSIM											N/A		N/A	N/A
MNO	1964UMSM NO												N/A	N/A	N/A
	Average	3.25	3.25	3.25	3.25	3.25	3.25	2.87	2.87	2.87	2.87	3.00	2.90	3.00	2.90

NA: Not Applicable as in some cases course is 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 two program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 2.5).

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 – 2020-21

Semester	Course	Course Code	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10
I	COMMUNICATION SKILLS	2016UISCS	*			*			*	*	*	*
	WEB PROGRAMMING I	2014UISWP	*		*	*	*		*	*		*
	INTRODUCTION TO PROGRAMMING	2011UISIP	*	*		*	*	*			*	*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2012UISFC	*	*	*	*		*				
	OPERATING SYSTEMS	2013UISOS	*	*	*	*			*	*		*
	DISCRETE	2015UISDM	*	*				*				

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	MATHEMATICS-I												
	WEB PROGRAMMING I PRACTICAL	2014UISPR	*		*	*	*		*	*		*	
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UISPR	*	*		*	*	*			*	*	
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UISPR	*	*	*	*		*					
	OPERATING SYSTEMS PRACTICAL	2013UISPR	*	*	*	*			*	*		*	
II	IT PLATFORMS, TOOLS AND PRACTICES	2026UISTP	*	*		*	*		*	*	*	*	*
	WEB PROGRAMMING II	2024UISWP	*				*			*	*	*	*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UISPP	*	*	*		*		*	*		*	
	OBJECT ORIENTED PROGRAMMING	2022UISOO	*	*		*			*	*	*	*	*
	DATABASE MANAGEMENT SYSTEMS I	2023UISDS	*		*	*			*	*		*	
	DISCRETE MATHEMATICS II	2025UISDM	*	*				*		*			
	WEB PROGRAMMING II PRACTICAL	2024UISPR	*				*			*	*	*	*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2021UISPR	*	*	*		*		*	*		*	
	OBJECT ORIENTED PROGRAMMING PRACTICAL	2022UISPR	*	*		*			*	*	*	*	*
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UISPR	*		*	*			*	*		*	
III	CORE JAVA	2031UISCJ	*	*	*					*	*	*	*
	DATA STRUCTURES	2032UISDS	*	*	*		*			*		*	*
	COMPUTER NETWORKS	2033UISCN	*	*	*				*	*		*	*
	DATABASE MANAGEMENT SYSTEMS- II	2034UISDB	*	*	*					*	*	*	*
	DESCRIPTIVE STATISTICS	2035UISST	*	*	*	*	*	*					
	ADVANCED WEB PROGRAMMING - I	2036UISAW	*	*	*					*		*	*
	HYBRID MOBILE APPLICATION	2036UISMD	*	*	*	*				*	*	*	*

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	DEVELOPMENT I											
	COMPUTER GRAPHICS AND ANIMATION	2037UISC	*	*	*	*	*	*		*		*
	EMBEDDED SYSTEMS	2037UISE	*	*	*					*		*
	THEORY OF COMPUTATION I	2037UCSTC	*	*		*	*	*	*	*	*	*
	CORE JAVA PRACTICAL	2031UISPR	*	*	*					*	*	*
	DATA STRUCTURES PRACTICAL	2032UISPR	*	*	*		*			*		*
	COMPUTER NETWORKS PRACTICAL	2033UISPR	*	*	*				*	*		*
	DATABASE MANAGEMENT SYSTEMS- II PRACTICAL	2034UISPR	*	*	*					*	*	*
	ADVANCED WEB PROGRAMMING - I PRACTICAL	2036UISAWP R	*	*	*					*		*
	HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2036UISMDP R	*	*	*	*				*		*
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UISCGR	*	*	*	*	*	*		*		*
	EMBEDDED SYSTEMS PRACTICAL	2037UISESPR	*	*	*					*		*
	THEORY OF COMPUTATION I PRACTICAL	2037UCSTCP R	*	*		*	*	*	*	*		*
IV	DESIGN PATTERNS	2041UISDP	*	*	*	*		*		*		
	DESIGN AND ANALYSIS OF ALGORITHMS	2042UISDA	*	*	*	*	*	*		*	*	*
	SYSTEM PROGRAMMING	2043UISSP	*	*	*	*				*		*
	SOFTWARE ENGINEERING	2044UISSE	*	*	*	*	*			*		*
	PROBABILITY THEORY	2045UISPT	*	*	*	*	*	*		*		*
	ADVANCED WEB PROGRAMMING - II	2046UISAW	*	*	*	*						*
	HYBRID MOBILE APPLICATION DEVELOPMENT II	2046UISMD	*	*	*	*				*	*	*
	ADVANCED JAVA	2046UISAJ	*	*	*					*		*
	MULTIMEDIA SYSTEMS	2047UISMM	*	*	*	*			*	*		*
	INTERNET OF THINGS	2047UISIT	*	*	*	*				*		*
	THEORY OF COMPUTATION II	2047UCSTC	*	*	*		*	*	*	*		*
	DESIGN PATTERNS PRACTICAL	2041UISPR	*	*	*	*		*		*		


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	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UISPR	*	*	*	*	*	*		*	*	*
	SYSTEM PROGRAMMING PRACTICAL	2043UISPR	*	*	*	*				*		*
	SOFTWARE ENGINEERING PRACTICAL	2044UISPR	*	*	*	*	*			*		*
	ADVANCED PROGRAMMING PRACTICAL - WEB II	2046UISAWPR	*	*	*	*						*
	HYBRID APPLICATION DEVELOPMENT PRACTICAL - MOBILE II	2046UISMDPR	*	*	*	*				*	*	*
	ADVANCED PRACTICAL - JAVA	2046UISPR	*	*	*					*		*
	MULTIMEDIA SYSTEMS PRACTICAL	2047UISMMPR	*	*	*	*				*	*	*
	INTERNET OF THINGS PRACTICAL	2047UISITPR	*	*	*	*				*		*
	THEORY OF COMPUTATION II PRACTICAL	2047UCSTCPR	*	*	*		*	*	*	*		*
V	GAME PROGRAMMING	1857UCSGP	*	*	*	*	*	*		*		*
	ARTIFICIAL INTELLIGENCE	1851UCSAI	*	*	*	*	*	*	*	*		*
	LINUX SERVER ADMINISTRATION	1852UCSLA	*	*	*				*	*		
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCSST	*	*	*	*	*	*	*	*		*
	INFORMATION AND NETWORK SECURITY	1854UCSNS	*	*	*	*				*	*	*
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCSWN	*	*	*					*		*
	WEB SERVICES	1856UCSWS	*	*	*	*			*	*	*	*
	GAME PROGRAMMING PRACTICAL	1857UCSPR	*	*	*	*	*	*		*		*
	PROJECT IMPLEMENTATION	1858UCSPR	*	*	*	*	*	*	*	*	*	*
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCSPR	*	*	*	*	*	*	*	*		*
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	*	*	*				*	*		
	SOFTWARE TESTING	1853UCSPR	*	*	*	*	*	*	*	*		*



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	SKILLS				Attained	
	WEB PROGRAMMING I	2014UISWP	3.4	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING	2011UISIP	2	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2012UISFC	2.4	2	Fully Attained	NA
	OPERATING SYSTEMS	2013UISOS	4	2	Fully Attained	NA
	DISCRETE MATHEMATICS-I	2015UISDM	2.6	2	Fully Attained	NA
	WEB PROGRAMMING I PRACTICAL	2014UISPR	2	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UISPR	3	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UISPR	3	2	Fully Attained	NA
	OPERATING SYSTEMS PRACTICAL	2013UISPR	2	2	Fully Attained	NA
II	IT PLATFORMS, TOOLS AND PRACTICES	2026UISTP	3.4	2	Fully Attained	NA
	WEB PROGRAMMING II	2024UISWP	3	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UISPP	3	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING	2022UISOO	3.4	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I	2023UISDS	3.4	2	Fully Attained	NA
	DISCRETE MATHEMATICS II	2025UISDM	3.2	2	Fully Attained	NA
	WEB PROGRAMMING II PRACTICAL	2024UISPR	3	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION	2021UISPR	3	2	Fully Attained	NA


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	DEVELOPMENT IN PYTHON PRACTICAL					
	OBJECT ORIENTED PROGRAMMING PRACTICAL	2022UISPR	3	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UISPR	2	2	Fully Attained	NA
III	CORE JAVA	2031UISCJ	3	2	Fully Attained	NA
	DATA STRUCTURES	2032UISDS	3.25	2	Fully Attained	NA
	COMPUTER NETWORKS	2033UISCN	3	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS- II	2034UISDB	2.5	2	Fully Attained	NA
	DESCRIPTIVE STATISTICS	2035UISST	3.75	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING - I	2036UISAW	3.25	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT I	2036UISMD	2	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION	2037UISCG	3	2	Fully Attained	NA
	EMBEDDED SYSTEMS	2037UISES	2.25	2	Fully Attained	NA
	THEORY OF COMPUTATION I	2037UCSTC	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	CORE JAVA PRACTICAL	2031UISPR	3	2	Fully Attained	NA
	DATA STRUCTURES PRACTICAL	2032UISPR	3	2	Fully Attained	NA
	COMPUTER NETWORKS PRACTICAL	2033UISPR	3	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS- II PRACTICAL	2034UISPR	2	2	Fully Attained	NA


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	ADVANCED WEB PROGRAMMING - I PRACTICAL	2036UISAWPR	3	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2036UISMDPR	2	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UISCGRP	4	2	Fully Attained	NA
	EMBEDDED SYSTEMS PRACTICAL	2037UISESPR	2	2	Fully Attained	NA
	THEORY OF COMPUTATION I PRACTICAL	2037UCSTCPR	2	2	Fully Attained	NA
IV	DESIGN PATTERNS	2041UISDP	3.25	2	Fully Attained	NA
	DESIGN AND ANALYSIS OF ALGORITHMS	2042UISDA	3	2	Fully Attained	NA
	SYSTEM PROGRAMMING	2043UISSP	3.25	2	Fully Attained	NA
	SOFTWARE ENGINEERING	2044UISSE	3.75	2	Fully Attained	NA
	PROBABILITY THEORY	2045UISPT	4	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING - II	2046UISAW	4	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT II	2046UISMD	2	2	Fully Attained	NA
	ADVANCED JAVA	2046UISAJ	NA	2	NA	NA
	MULTIMEDIA SYSTEMS	2047UISMM	3.75	2	Fully Attained	NA
	INTERNET OF THINGS	2047UISIT	2.25	2	Fully Attained	NA
	THEORY OF COMPUTATION II	2047UCSTC	2.75	2	Fully Attained	NA
	DESIGN PATTERNS PRACTICAL	2041UISPR	2	2	Fully Attained	NA
	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UISPR	4	2	Fully Attained	NA
	SYSTEM PROGRAMMING PRACTICAL	2043UISPR	4	2	Fully Attained	NA
	SOFTWARE	2044UISPR	4	2	Fully	NA



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	ENGINEERING PRACTICAL				Attained	
	ADVANCED WEB PROGRAMMING - II PRACTICAL	2046UISAWPR	5	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2046UISMDPR	5	2	Fully Attained	NA
	ADVANCED JAVA PRACTICAL	2046UISAJPR	NA	2	NA	NA
	MULTIMEDIA SYSTEMS PRACTICAL	2047UISMMP R	4	2	Fully Attained	NA
	INTERNET OF THINGS PRACTICAL	2047UISITPR	3	2	Fully Attained	NA
	THEORY OF COMPUTATION II PRACTICAL	2047UCSTCPR	4	2	Fully Attained	NA
V	GAME PROGRAMMING	1857UCSGP	2.5	2	Fully Attained	
	ARTIFICIAL INTELLIGENCE	1851UCSAI	3.25	2	Fully Attained	NA
	LINUX SERVER ADMINISTRATION	1852UCSLA	2.25	2	Fully Attained	NA
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCSST	NA	2	NA	NA
	INFORMATION AND NETWORK SECURITY	1854UCSNS	2.5	2	Fully Attained	NA
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCSWN	3	2	Fully Attained	NA
	WEB SERVICES	1856UCSWS	NA	2	NA	NA
	GAME PROGRAMMING PRACTICAL	1857UCSPR	3	2	Fully Attained	NA
	PROJECT IMPLEMENTATION	1858UCSPR	2	2	Fully Attained	
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCSPR	4	2	Fully Attained	NA
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	2	2	Fully Attained	NA
	SOFTWARE TESTING AND QUALITY	1853UCSPR	NA	2	NA	NA


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	ASSURANCE PRACTICAL					
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCSPR	3	2	Fully Attained	NA
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCSPR	2	2	Fully Attained	NA
	WEB SERVICES PRACTICAL	1856UCSPR	NA	2	NA	NA
VI	ETHICAL HACKING	1867UCSEH	2.5	2	Fully Attained	NA
	ARCHITECTING OF IOT	1861UCSIT	NA	2	NA	NA
	CLOUD COMPUTING	1862UCSCC	3.5	2	Fully Attained	NA
	CYBER FORENSICS	1863UCSCF	2.25	2	Fully Attained	NA
	INFORMATION RETRIEVAL	1864UCSIR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1865UCSDP	2.25	2	Fully Attained	NA
	DATA SCIENCE	1866UCSDS	2	2	Fully Attained	NA
	ETHICAL HACKING PRACTICAL	1867UCSPR	2	2	Fully Attained	NA
	PROJECT IMPLEMENTATION	1868UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ARCHITECTING OF IOT PRACTICAL	1861UCSPR	NA	2	NA	NA
	CLOUD COMPUTING PRACTICAL	1862UCSPR	3	2	Fully Attained	NA
	CYBER FORENSICS PRACTICAL	1863UCSPR	3	2	Fully Attained	NA
	INFORMATION RETRIEVAL PRACTICAL	1864UCSPR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1865UCSPR	3	2	Fully Attained	NA


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	PRACTICAL					
	DATA SCIENCE PRACTICAL	1866UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
		Average	2.90			
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)-2020-21

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
A2020-21	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. G.3: Results of CO-PO attainment-
Bachelor of Science (Computer Science)-B. Sc.(CS)-Academic Year 2020-21**

Seme ster	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	2016UIS CS	3.6			3.6			3.6	3.6	3.6	3.6
	WEB PROGRAMMING I	2014UIS WP	3.4		3.4	3.4	3.4		3.4	3.4		3.4
	INTRODUCTION TO PROGRAMMING	2011UIS IP	2	2		2	2	2			2	2
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2012UIS FC	2.4	2.4	2.4	2.4		2.4				
	OPERATING SYSTEMS	2013UIS OS	4	4	4	4			4	4		4
	DISCRETE MATHEMATICS-I	2015UIS DM	2.6	2.6				2.6				


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	WEB PROGRAMMING I PRACTICAL	2014UIS PR	2		2	2	2		2	2		2
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UIS PR	3	3		3	3	3			3	3
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UIS PR	3	3	3	3		3				
	OPERATING SYSTEMS PRACTICAL	2013UIS PR	2	2	2	2			2	2		2
	IT PLATFORMS, TOOLS AND PRACTICES	2026UIS TP	3.4	3.4		3.4	3.4		3.4	3.4	3.4	3.4
	WEB PROGRAMMING II	2024UIS WP	3				3			3	3	3
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UIS PP	3	3	3		3		3	3		3
	OBJECT ORIENTED PROGRAMMING	2022UIS OO	3.4	3.4		3.4			3.4	3.4	3.4	3.4
	DATABASE MANAGEMENT SYSTEMS I	2023UIS DS	3.4		3.4	3.4			3.4	3.4		3.4
	DISCRETE MATHEMATICS II	2025UIS DM	3.2	3.2				3.2		3.2		
II	WEB PROGRAMMING II PRACTICAL	2024UIS PR	3				3			3	3	3
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2021UIS PR	3	3	3		3		3	3		3
	OBJECT ORIENTED PROGRAMMING PRACTICAL	2022UIS PR	3	3		3			3	3	3	3
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UIS PR	2		2	2			2	2		2
	CORE JAVA	2031UIS CJ	3	3	3					3	3	3
	DATA STRUCTURES	2032UIS DS	3.2 5	3.2 5	3.2 5		3.2 5			3.2 5		3.25
	COMPUTER NETWORKS	2033UIS CN	3	3	3				3	3		3
III	DATABASE MANAGEMENT SYSTEMS- II	2034UIS DB	2.5	2.5	2.5					2.5	2.5	2.5
	DESCRIPTIVE STATISTICS	2035UIS ST	3.7 5	3.7 5	3.7 5	3.7 5	3.7 5	3.7 5				
	ADVANCED WEB PROGRAMMING - I	2036UIS AW	3.2 5	3.2	3.2					3.2 5		3.25


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			5	5								
	HYBRID MOBILE APPLICATION DEVELOPMENT I	2036UIS MD	2	2	2	2				2	2	2
	COMPUTER GRAPHICS AND ANIMATION	2037UIS CG	3	3	3	3	3	3		3		3
	EMBEDDED SYSTEMS	2037UIS ES	2.2 5	2.2 5	2.2 5					2.2 5		2.25
	THEORY OF COMPUTATION I	2037UC STC	1.2 5	1.2 5		1.2 5	1.2 5	1.2 5	1.2 5	1.2 5	1.2 5	1.25
	CORE JAVA PRACTICAL	2031UIS PR	3	3	3					3	3	3
	DATA STRUCTURES PRACTICAL	2032UIS PR	3	3	3		3			3		3
	COMPUTER NETWORKS PRACTICAL	2033UIS PR	3	3	3				3	3		3
	DATABASE MANAGEMENT SYSTEMS- II PRACTICAL	2034UIS PR	2	2	2					2	2	2
	ADVANCED WEB PROGRAMMING - I PRACTICAL	2036UIS AWPR	3	3	3					3		3
	HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2036UIS MDPR	2	2	2	2				2		2
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UIS CGPR	4	4	4	4	4	4		4		4
	EMBEDDED SYSTEMS PRACTICAL	2037UIS ESPR	2	2	2					2		2
	THEORY OF COMPUTATION I PRACTICAL	2037UC STCPR	2	2		2	2	2	2	2		2
IV	DESIGN PATTERNS	2041UIS DP	3.2 5	3.2 5	3.2 5	3.2 5		3.2 5		3.2 5		
	DESIGN AND ANALYSIS OF ALGORITHMS	2042UIS DA	3	3	3	3	3	3		3	3	3
	SYSTEM PROGRAMMING	2043UIS SP	3.2 5	3.2 5	3.2 5	3.2 5				3.2 5		3.25
	SOFTWARE ENGINEERING	2044UIS SE	3.7 5	3.7 5	3.7 5	3.7 5	3.7 5			3.7 5		3.75
	PROBABILITY THEORY	2045UIS PT	4	4	4	4	4	4		4		4
	ADVANCED WEB PROGRAMMING - II	2046UIS AW	4	4	4	4						4
	HYBRID MOBILE APPLICATION	2046UIS MD	2	2	2	2				2	2	2


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	DEVELOPMENT II											
	ADVANCED JAVA	2046UIS AJ	NA	NA	NA					NA		NA
	MULTIMEDIA SYSTEMS	2047UIS MM	3.7 5	3.7 5	3.7 5	3.7 5			3.7 5	3.7 5		3.75
	INTERNET OF THINGS	2047UIS IT	2.2 5	2.2 5	2.2 5	2.2 5				2.2 5		2.25
	THEORY OF COMPUTATION II	2047UC STC	2.7 5	2.7 5	2.7 5		2.7 5	2.7 5	2.7 5	2.7 5		2.75
	DESIGN PATTERNS PRACTICAL	2041UIS PR	2	2	2	2		2		2		
	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UIS PR	4	4	4	4	4	4		4	4	4
	SYSTEM PROGRAMMING PRACTICAL	2043UIS PR	4	4	4	4				4		4
	SOFTWARE ENGINEERING PRACTICAL	2044UIS PR	4	4	4	4	4			4		4
	ADVANCED WEB PROGRAMMING - II PRACTICAL	2046UIS AWPR	5	5	5	5						5
	HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2046UIS MDPR	5	5	5	5				5	5	5
	ADVANCED JAVA PRACTICAL	2046UIS AJPR	NA	NA	NA					NA		NA
	MULTIMEDIA SYSTEMS PRACTICAL	2047UIS MMPR	4	4	4	4			4	4		4
	INTERNET OF THINGS PRACTICAL	2047UIS ITPR	3	3	3	3				3		3
	THEORY OF COMPUTATION II PRACTICAL	2047UC STCPR	4	4	4		4	4	4	4		4
V	GAME PROGRAMMING	1857UC SGP	2.5	2.5	2.5	2.5	2.5	2.5		2.5		2.5
	ARTIFICIAL INTELLIGENCE	1851UC SAI	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5		3.25
	LINUX SERVER ADMINISTRATION	1852UC SLA	2.2 5	2.2 5	2.2 5				2.2 5	2.2 5		
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UC SST	NA	NA	NA	NA	NA	NA	NA	NA		NA
	INFORMATION AND NETWORK SECURITY	1854UC SNS	2.5	2.5	2.5	2.5				2.5	2.5	2.5
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UC SWN	3	3	3					3		3



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	WEB SERVICES	1856UC SWS	NA	NA	NA	NA			NA	NA	NA	NA
	GAME PROGRAMMING PRACTICAL	1857UC SPR	3	3	3	3	3	3		3		3
	PROJECT IMPLEMENTATION	1858UC SPR	2	2	2	2	2	2	2	2	2	2
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UC SPR	4	4	4	4	4	4	4	4		4
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UC SPR	2	2	2				2	2		
	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UC SPR	NA	NA	NA	NA	NA	NA	NA	NA		NA
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UC SPR	3	3	3	3				3	3	3
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UC SPR	2	2	2					2		2
	WEB SERVICES PRACTICAL	1856UC SPR	NA	NA	NA	NA			NA	NA	NA	NA
VI	ETHICAL HACKING	1867UC SEH	2.5	2.5	2.5	2.5			2.5	2.5	2.5	2.5
	ARCHITECTING OF IOT	1861UC SIT	NA	NA	NA	NA			NA	NA		NA
	CLOUD COMPUTING	1862UC SCC	3.5	3.5	3.5	3.5			3.5	3.5	3.5	3.5
	CYBER FORENSICS	1863UC SCF	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.25
	INFORMATION RETRIEVAL	1864UC SIR	NA	NA	NA				NA	NA		NA
	DIGITAL IMAGE PROCESSING	1865UC SDP	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	1866UC SDS	2	2	2	2	2	2	2	2	2	2
	ETHICAL HACKING PRACTICAL	1867UC SPR	2	2	2	2			2	2	2	2
	PROJECT IMPLEMENTATION	1868UC SPR	1	1	1	1	1	1	1	1	1	1
	ARCHITECTING OF IOT PRACTICAL	1861UC SPR	NA	NA	NA	NA			NA	NA		NA
	CLOUD COMPUTING PRACTICAL	1862UC SPR	3	3	3	3			3	3	3	3
	CYBER FORENSICS PRACTICAL	1863UC SPR	3	3	3	3	3	3	3	3	3	3
	INFORMATION RETRIEVAL PRACTICAL	1864UC SPR	NA	NA	NA				NA	NA		NA

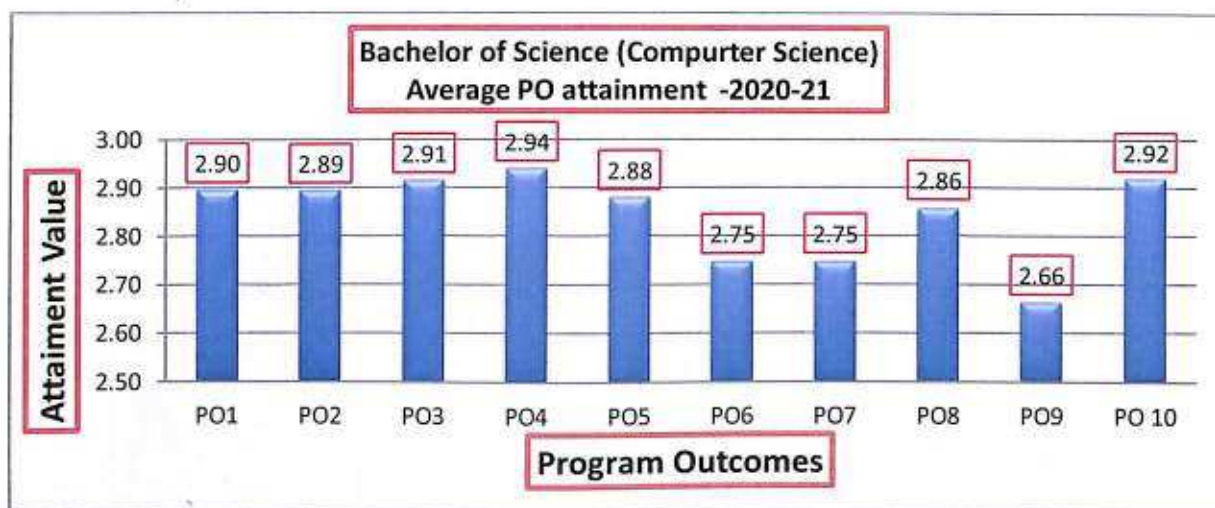


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DIGITAL PROCESSING PRACTICAL	IMAGE	1865UC SPR	3	3	3	3	3	3	3	3		3
DATA PRACTICAL	SCIENCE	1866UC SPR	1	1	1	1	1	1	1	1	1	1
		Average	2.90	2.89	2.91	2.94	2.88	2.75	2.75	2.86	2.66	2.92

NA: Not Applicable as some Courses are offered by institute 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 excellent level (value greater than 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 - 2020-21

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	2016UISCS	*			*			*	*	*	*
	WEB PROGRAMMING I	2014UISWP	*		*	*	*		*	*		*
	INTRODUCTION TO PROGRAMMING	2011UISIP	*	*		*	*	*			*	*
	FUNDAMENTALS OF COMPUTERS	2012UISFC	*	*	*	*		*				



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	AND ELECTRONICS											
	OPERATING SYSTEMS	2013UI SOS	*	*	*	*			*	*		*
	DISCRETE MATHEMATICS-I	2015UI SDM	*	*				*				
	WEB PROGRAMMING I PRACTICAL	2014UI SPR	*		*	*	*		*	*		*
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UI SPR	*	*		*	*	*			*	*
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UI SPR	*	*	*	*		*				
	OPERATING SYSTEMS PRACTICAL	2013UI SPR	*	*	*	*			*	*		*
II	IT PLATFORMS, TOOLS AND PRACTICES	2026UI STP	*	*		*	*		*	*	*	*
	WEB PROGRAMMING II	2024UI SWP	*				*			*	*	*
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UI SPP	*	*	*		*		*	*		*
	OBJECT ORIENTED PROGRAMMING	2022UI SOO	*	*		*			*	*	*	*
	DATABASE MANAGEMENT SYSTEMS I	2023UI SDS	*		*	*			*	*		*
	DISCRETE MATHEMATICS II	2025UI SDM	*	*				*		*		
	WEB PROGRAMMING II PRACTICAL	2024UI SPR	*				*			*	*	*


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	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2021UI SPR	*	*	*		*		*	*		*
	OBJECT ORIENTED PROGRAMMING PRACTICAL	2022UI SPR	*	*		*			*	*	*	*
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UI SPR	*		*	*			*	*		*
III	CORE JAVA	2031UI SCJ	*	*	*					*	*	*
	DATA STRUCTURES	2032UI SDS	*	*	*		*			*		*
	COMPUTER NETWORKS	2033UI SCN	*	*	*				*	*		*
	DATABASE MANAGEMENT SYSTEMS- II	2034UI SDB	*	*	*					*	*	*
	DESCRIPTIVE STATISTICS	2035UI SST	*	*	*	*	*	*				
	ADVANCED WEB PROGRAMMING - I	2036UI SAW	*	*	*					*		*
	HYBRID MOBILE APPLICATION DEVELOPMENT I	2036UI SMD	*	*	*	*				*	*	*
	COMPUTER GRAPHICS AND ANIMATION	2037UI SCG	*	*	*	*	*	*		*		*
	EMBEDDED SYSTEMS	2037UI SES	*	*	*					*		*
	PRINCIPLES OF MANAGEMENT	2037UI SPM	*			*			*	*	*	*
	CORE JAVA PRACTICAL	2031UI SPR	*	*	*					*	*	*
	DATA STRUCTURES PRACTICAL	2032UI SPR	*	*	*		*			*		*
	COMPUTER NETWORKS PRACTICAL	2033UI SPR	*	*	*				*	*		*



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DATABASE MANAGEMENT SYSTEMS- II PRACTICAL	2034UI SPR	*	*	*					*	*	*
ADVANCED WEB PROGRAMMING - I PRACTICAL	2036UI SAWP R	*	*	*					*		*
HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2036UI SMDP R	*	*	*	*				*		*
COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UI SCGP R	*	*	*	*	*	*		*		*
EMBEDDED SYSTEMS PRACTICAL	2037UI SESPR	*	*	*					*		*
PRINCIPLES OF MANAGEMENT PRACTICAL	2037UI SPMP R	*			*			*	*	*	*
DESIGN PATTERNS	2041UI SDP	*	*	*	*		*		*		
DESIGN AND ANALYSIS OF ALGORITHMS	2042UI SDA	*	*	*	*	*	*		*	*	*
SYSTEM PROGRAMMING	2043UI SSP	*	*	*	*				*		*
SOFTWARE ENGINEERING	2044UI SSE	*	*	*	*	*			*		*
PROBABILITY THEORY	2045UI SPT	*	*	*	*	*	*		*		*
ADVANCED WEB PROGRAMMING - II	2046UI SAW	*	*	*	*						*
HYBRID MOBILE APPLICATION DEVELOPMENT II	2046UI SMD	*	*	*	*				*	*	*
ADVANCED JAVA	2046UI SAJ	*	*	*					*		*
MULTIMEDIA SYSTEMS	2047UI SMM	*	*	*	*			*	*		*
INTERNET OF THINGS	2047UI SIT	*	*	*	*				*		*


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IV	PRINCIPLES OF MARKETING	2047UI SPM	*		*	*			*	*		*
	DESIGN PATTERNS PRACTICAL	2041UI SPR	*	*	*	*		*		*		
	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UI SPR	*	*	*	*	*	*		*	*	*
	SYSTEM PROGRAMMING PRACTICAL	2043UI SPR	*	*	*	*				*		*
	SOFTWARE ENGINEERING PRACTICAL	2044UI SPR	*	*	*	*	*			*		*
	ADVANCED WEB PROGRAMMING - II PRACTICAL	2046UI SAWP R	*	*	*	*						*
	HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2046UI SMDP R	*	*	*	*				*	*	*
	ADVANCED JAVA PRACTICAL	2046UI SAJPR	*	*	*					*		*
	MULTIMEDIA SYSTEMS PRACTICAL	2047UI SMMP R	*	*	*	*			*	*		*
	INTERNET OF THINGS PRACTICAL	2047UI SITPR	*	*	*	*				*		*
	PRINCIPLES OF MARKETING PRACTICAL	2047UI SPMP R	*		*	*			*	*		*
V	SOFTWARE PROJECT MANAGEMENT	1851UI TPM	*	*	*	*				*	*	*
	INTERNET OF THINGS	1852UI TIT	*	*	*	*		*	*	*		*
	ADVANCED WEB PROGRAMMING	1853UI TWP	*	*	*					*	*	*
	ARTIFICIAL INTELLIGENCE	1854UI TAI	*	*	*	*	*	*	*	*		*
	LINUX SYSTEM ADMINISTRATIO N	1855UI TLA	*	*	*	*				*		*


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ENTERPRISE JAVA	1856UI TEJ	*	*	*	*			*	*		*
NEXT GENERATION TECHNOLOGIES	1857UI TNG	*	*	*				*	*		
PROJECT DISSERTATION	1851UI TPR	*	*	*	*	*	*	*	*	*	*
INTERNET OF THINGS PRACTICAL	1852UI TPR	*	*	*	*		*	*	*		*
ADVANCED WEB PROGRAMMING PRACTICAL	1853UI TPR	*	*	*					*	*	*
ARTIFICIAL INTELLIGENCE PRACTICAL	1854UI TPR	*	*	*	*	*	*	*	*		*
LINUX SYSTEM ADMINISTRATIO N PRACTICAL	1855UI TPR	*	*	*	*				*		*
ENTERPRISE JAVA PRACTICAL	1856UI TPR	*	*	*	*			*	*		*
NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UI TPR	*	*	*				*	*		
SOFTWARE QUALITY ASSURANCE	1861UI TSQ	*	*	*	*	*	*		*		*
SECURITY IN COMPUTING	1862UI TSC	*	*	*	*	*			*		*
BUSINESS INTELLIGENCE	1863UI TBI	*	*	*	*	*	*	*	*		*
PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UI TGI	*	*	*					*		*
ENTERPRISE NETWORKING	1865UI TEN	*	*	*	*	*	*		*		*
IT SERVICE MANAGEMENT	1866UI TIS	*	*	*	*			*	*	*	*
CYBER LAWS	1867UI TCL	*	*	*	*			*	*	*	*
PROJECT IMPLEMENTATI ON	1861UI TPR	*	*	*	*	*	*	*	*	*	*



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VI	SECURITY IN COMPUTING PRACTICAL	1862UI TPR	*	*	*	*	*			*		*
	BUSINESS INTELLIGENCE PRACTICAL	1863UI TPR	*	*	*	*	*	*	*	*		*
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UI TPR	*	*	*					*		*
	ENTERPRISE NETWORKING PRACTICAL	1865UI TPR	*	*	*	*	*	*		*		*
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UI TPR	*	*	*	*			*	*	*	*

Table No. H.2: CO Attainment Level: Bachelor of Science- B. Sc. (Information Technology)
Academic Year - 2020-21

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS	2016UISCS	2.4	2	Fully Attained	NA
	WEB PROGRAMMING I	2014UISWP	3	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING	2011UISIP	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2012UISFC	3	2	Fully Attained	NA
	OPERATING SYSTEMS	2013UISOS	3.4	2	Fully Attained	NA
	DISCRETE MATHEMATICS -I	2015UISDM	2.4	2	Fully Attained	NA
	WEB PROGRAMMING	2014UISPR	3	2	Fully	NA


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	G I PRACTICAL				Attained	
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UISPR	2	2	Fully Attained	NA
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UISPR	3	2	Fully Attained	NA
	OPERATING SYSTEMS PRACTICAL	2013UISPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
II	IT PLATFORMS, TOOLS AND PRACTICES	2026UISTP	2.4	2	Fully Attained	NA
	WEB PROGRAMMING II	2024UISWP	2.4	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UISPP	2.4	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING	2022UISOO	2.8	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS I	2023UISDS	3.4	2	Fully Attained	NA
	DISCRETE MATHEMATICS II	2025UISDM	2	2	Fully Attained	NA
	WEB PROGRAMMING II PRACTICAL	2024UISPR	3	2	Fully Attained	NA
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2021UISPR	3	2	Fully Attained	NA
	OBJECT ORIENTED PROGRAMMING	2022UISPR	3	2	Fully Attained	NA


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	G PRACTICAL					
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UISPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
III	CORE JAVA	2031UISCJ	3	2	Fully Attained	NA
	DATA STRUCTURES	2032UISDS	3	2	Fully Attained	NA
	COMPUTER NETWORKS	2033UISCN	3	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS- II	2034UISDB	2.5	2	Fully Attained	NA
	DESCRIPTIVE STATISTICS	2035UISST	2	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING - I	2036UISAW	2	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT 1	2036UISMD	2	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION	2037UISCG	2.25	2	Fully Attained	NA
	EMBEDDED SYSTEMS	2037UISES	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PRINCIPLES OF MANAGEMENT	2037UISPM	NA	2	NA	NA
	CORE JAVA PRACTICAL	2031UISPR	3	2	Fully Attained	NA
	DATA STRUCTURES PRACTICAL	2032UISPR	3	2	Fully Attained	NA
	COMPUTER NETWORKS PRACTICAL	2033UISPR	3	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS- II	2034UISPR	2	2	Fully Attained	NA



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	PRACTICAL					
	ADVANCED WEB PROGRAMMIN G - I PRACTICAL	2036UISA WPR	2	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2036UISMD PR	3	2	Fully Attained	NA
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UISCG PR	3	2	Fully Attained	NA
	EMBEDDED SYSTEMS PRACTICAL	2037UISES PR	2	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT PRACTICAL	2037UISPM PR	NA	2	NA	NA
IV	DESIGN PATTERNS	2041UISDP	3	2	Fully Attained	NA
	DESIGN AND ANALYSIS OF ALGORITHMS	2042UISDA	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SYSTEM PROGRAMMIN G	2043UISSP	4	2	Fully Attained	NA
	SOFTWARE ENGINEERING	2044UISSE	3	2	Fully Attained	NA
	PROBABILITY THEORY	2045UISPT	3.25	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMIN G - II	2046UISA W	3	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT II	2046UISMD	3.25	2	Fully Attained	NA
	ADVANCED JAVA	2046UISAJ	NA	2	NA	NA
	MULTIMEDIA SYSTEMS	2047UISM M	3	2	Fully Attained	NA


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	INTERNET OF THINGS	2047UISIT	3	2	Fully Attained	NA
	PRINCIPLES OF MARKETING	2047UISPM	NA	2	NA	NA
	DESIGN PATTERNS PRACTICAL	2041UISPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UISPR	3	2	Fully Attained	NA
	SYSTEM PROGRAMMING PRACTICAL	2043UISPR	3	2	Fully Attained	NA
	SOFTWARE ENGINEERING PRACTICAL	2044UISPR	3	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING - II PRACTICAL	2046UISA WPR	4	2	Fully Attained	NA
	HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2046UISMD PR	2	2	Fully Attained	NA
	ADVANCED JAVA PRACTICAL	2046UISAJ PR	NA	2	NA	NA
	MULTIMEDIA SYSTEMS PRACTICAL	2047UISM MPR	4	2	Fully Attained	NA
	INTERNET OF THINGS PRACTICAL	2047UISITP R	4	2	Fully Attained	NA
	PRINCIPLES OF MARKETING PRACTICAL	2047UISPM PR	NA	2	NA	NA
V	SOFTWARE PROJECT MANAGEMENT	1851UITPM	3	2	Fully Attained	NA
	INTERNET OF THINGS	1852UITIT	3	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING	1853UITWP	3.25	2	Fully Attained	NA



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	G					
	ARTIFICIAL INTELLIGENCE	1854UITAI	3.75	2	Fully Attained	NA
	LINUX SYSTEM ADMINISTRATI ON	1855UITLA	NA	2	NA	NA
	ENTERPRISE JAVA	1856UITAJ	3	2	Fully Attained	NA
	NEXT GENERATION TECHNOLOGIE S	1857UITNG	NA	2	NA	NA
	PROJECT DISSERTATION	1851UITPR	2	2	Fully Attained	NA
	INTERNET OF THINGS PRACTICAL	1852UITPR	4	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMIN G PRACTICAL	1853UITPR	2	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	3	2	Fully Attained	NA
	LINUX SYSTEM ADMINISTRATI ON PRACTICAL	1855UITPR	NA	2	NA	NA
	ENTERPRISE JAVA PRACTICAL	1856UITPR	2	2	Fully Attained	NA
	NEXT GENERATION TECHNOLOGIE S PRACTICAL	1857UITPR	NA	2	NA	NA
IV	SOFTWARE QUALITY ASSURANCE	1861UITSQ	2.5	2	Fully Attained	NA
	SECURITY IN COMPUTING	1862UITSC	3.25	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	3.75	2	Fully Attained	NA



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	CYBER LAWS	1867UITCL	NA	2	NA	NA
	PROJECT IMPLEMENTATION	1861UITPR	3	2	Fully Attained	NA
	SECURITY IN COMPUTING PRACTICAL	1862UITPR	3	2	Fully Attained	NA
	BUSINESS INTELLIGENCE PRACTICAL	1863UITPR	4	2	Fully Attained	NA
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	3	2	Fully Attained	NA
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	NA	2	NA	NA
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UITPR	4	2	Fully Attained	NA
		Average	2.75			
NA means not applicable as target is fully attained.. In some cases courses were offered by institute but not opted by students.						

Table No. H.2a: PO Attainment Level- B. Sc. (Information Technology)-2020-21

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	4	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA
A2020-21	5	4	Fully Attained	NA
NA means not applicable as target 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. H.3: Results of CO-PO attainment-


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B. Sc. (Information Technology)-B. Sc.(IT)-Academic Year 2019-20

Semester	Course	Course Code	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
I	COMMUNICATION SKILLS	2016UISCS	2.4			2.4			2.4	2.4	2.4	2.4
	WEB PROGRAMMING I	2014UISWP	3		3	3	3		3	3		3
	INTRODUCTION TO PROGRAMMING	2011UISIP	1.6	1.6		1.6	1.6	1.6			1.6	1.6
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2012UISFC	3	3	3	3		3				
	OPERATING SYSTEMS	2013UISOS	3.4	3.4	3.4	3.4			3.4	3.4		3.4
	DISCRETE MATHEMATICS-I	2015UISDM	2.4	2.4				2.4				
	WEB PROGRAMMING I PRACTICAL	2014UISPR	3		3	3	3		3	3		3
	INTRODUCTION TO PROGRAMMING PRACTICAL	2011UISPR	2	2		2	2	2			2	2
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2012UISPR	3	3	3	3		3				
	OPERATING SYSTEMS PRACTICAL	2013UISPR	1	1	1	1			1	1		1
II	IT PLATFORMS, TOOLS AND PRACTICES	2026UISTP	2.4	2.4		2.4	2.4		2.4	2.4	2.4	2.4
	WEB PROGRAMMING II	2024UISWP	2.4				2.4			2.4	2.4	2.4


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PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2021UISPP	2.4	2.4	2.4		2.4		2.4	2.4		2.4
OBJECT ORIENTED PROGRAMMING	2022UIISO	2.8	2.8		2.8			2.8	2.8	2.8	2.8
DATABASE MANAGEMENT SYSTEMS I	2023UISDS	3.4		3.4	3.4			3.4	3.4		3.4
DISCRETE MATHEMATICS II	2025UIDM	2	2				2		2		
WEB PROGRAMMING II PRACTICAL	2024UISPR	3				3			3	3	3
PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2021UISPR	3	3	3		3		3	3		3
OBJECT ORIENTED PROGRAMMING PRACTICAL	2022UISPR	3	3		3			3	3	3	3
DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2023UISPR	1		1	1			1	1		1
CORE JAVA	2031UISCJ	3	3	3					3	3	3
DATA STRUCTURES	2032UISDS	3	3	3		3			3		3
COMPUTER NETWORKS	2033UISCN	3	3	3				3	3		3
DATABASE MANAGEMENT	2034UIDB	2.5	2.5	2.5					2.5	2.5	2.5


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III	SYSTEMS- II											
	DESCRIPTIV E STATISTICS	2035UISST	2	2	2	2	2	2				
	ADVANCED WEB PROGRAMM ING - I	2036UISA W	2	2	2					2		2
	HYBRID MOBILE APPLICATIO N DEVELOPME NT I	2036UISM D	2	2	2	2				2	2	2
	COMPUTER GRAPHICS AND ANIMATION	2037UISC G	2.25	2.25	2.25	2.25	2.25	2.25		2.25		2.25
	EMBEDDED SYSTEMS	2037UISES	1.5	1.5	1.5					1.5		1.5
	PRINCIPLES OF MANAGEME NT	2037UISP M	NA			NA			NA	NA	NA	NA
	CORE JAVA PRACTICAL	2031UISPR	3	3	3					3	3	3
	DATA STRUCTURE S PRACTICAL	2032UISPR	3	3	3		3			3		3
	COMPUTER NETWORKS PRACTICAL	2033UISPR	3	3	3				3	3		3
	DATABASE MANAGEME NT SYSTEMS- II PRACTICAL	2034UISPR	2	2	2					2	2	2
	ADVANCED WEB PROGRAMM ING - I PRACTICAL	2036UISA WPR	2	2	2					2		2
	HYBRID MOBILE APPLICATIO N DEVELOPME	2036UISM DPR	3	3	3	3				3		3



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	NT 1 PRACTICAL											
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2037UISC GPR	3	3	3	3	3	3		3		3
	EMBEDDED SYSTEMS PRACTICAL	2037UISES PR	2	2	2					2		2
	PRINCIPLES OF MANAGEMENT PRACTICAL	2037UISP MPR	NA			NA			NA	NA	NA	NA
IV	DESIGN PATTERNS	2041UISDP	3	3	3	3		3		3		
	DESIGN AND ANALYSIS OF ALGORITHMS	2042UISD A	1.25	1.25	1.25	1.25	1.25	1.25		1.25	1.25	1.25
	SYSTEM PROGRAMMING	2043UISSP	4	4	4	4				4		4
	SOFTWARE ENGINEERING	2044UISSE	3	3	3	3	3			3		3
	PROBABILITY THEORY	2045UISPT	3.25	3.25	3.25	3.25	3.25	3.25		3.25		3.25
	ADVANCED WEB PROGRAMMING - II	2046UISA W	3	3	3	3						3
	HYBRID MOBILE APPLICATION DEVELOPMENT II	2046UISM D	3.25	3.25	3.25	3.25				3.25	3.25	3.25
	ADVANCED JAVA	2046UISAJ	NA	NA	NA					NA		NA
	MULTIMEDIA SYSTEMS	2047UISM M	3	3	3	3			3	3		3
	INTERNET OF THINGS	2047UISIT	3	3	3	3				3		3


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PRINCIPLES OF MARKETING	2047UISPM	NA		NA	NA			NA	NA		NA
DESIGN PATTERNS PRACTICAL	2041UISPR	1	1	1	1		1		1		
DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2042UISPR	3	3	3	3	3	3		3	3	3
SYSTEM PROGRAMMING PRACTICAL	2043UISPR	3	3	3	3				3		3
SOFTWARE ENGINEERING PRACTICAL	2044UISPR	3	3	3	3	3			3		3
ADVANCED WEB PROGRAMMING - II PRACTICAL	2046UISAWPR	4	4	4	4						4
HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2046UISMDPR	2	2	2	2				2	2	2
ADVANCED JAVA PRACTICAL	2046UISAJPR	NA	NA	NA					NA		NA
MULTIMEDIA SYSTEMS PRACTICAL	2047UISMPR	4	4	4	4			4	4		4
INTERNET OF THINGS PRACTICAL	2047UISITPR	4	4	4	4				4		4
PRINCIPLES OF MARKETING PRACTICAL	2047UISPMR	NA		NA	NA			NA	NA		NA
SOFTWARE PROJECT MANAGEMENT	1851UITPM	3	3	3	3				3	3	3



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V	INTERNET OF THINGS	1852UITIT	3	3	3	3		3	3	3	3	3
	ADVANCED WEB PROGRAMMING	1853UITWP	3.25	3.25	3.25					3.25	3.25	3.25
	ARTIFICIAL INTELLIGENCE	1854UITAI	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75		3.75
	LINUX SYSTEM ADMINISTRATION	1855UITLA	NA	NA	NA	NA				NA		NA
	ENTERPRISE JAVA	1856UITAJ	3	3	3	3			3	3		3
	NEXT GENERATION TECHNOLOGIES	1857UITNG	NA	NA	NA				NA	NA		
	PROJECT DISSERTATION	1851UITPR	2	2	2	2	2	2	2	2	2	2
	INTERNET OF THINGS PRACTICAL	1852UITPR	4	4	4	4		4	4	4		4
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UITPR	2	2	2					2	2	2
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	3	3	3	3	3	3	3	3		3
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITPR	NA	NA	NA	NA				NA		NA
	ENTERPRISE JAVA PRACTICAL	1856UITPR	2	2	2	2			2	2		2
	NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UITPR	NA	NA	NA				NA	NA		



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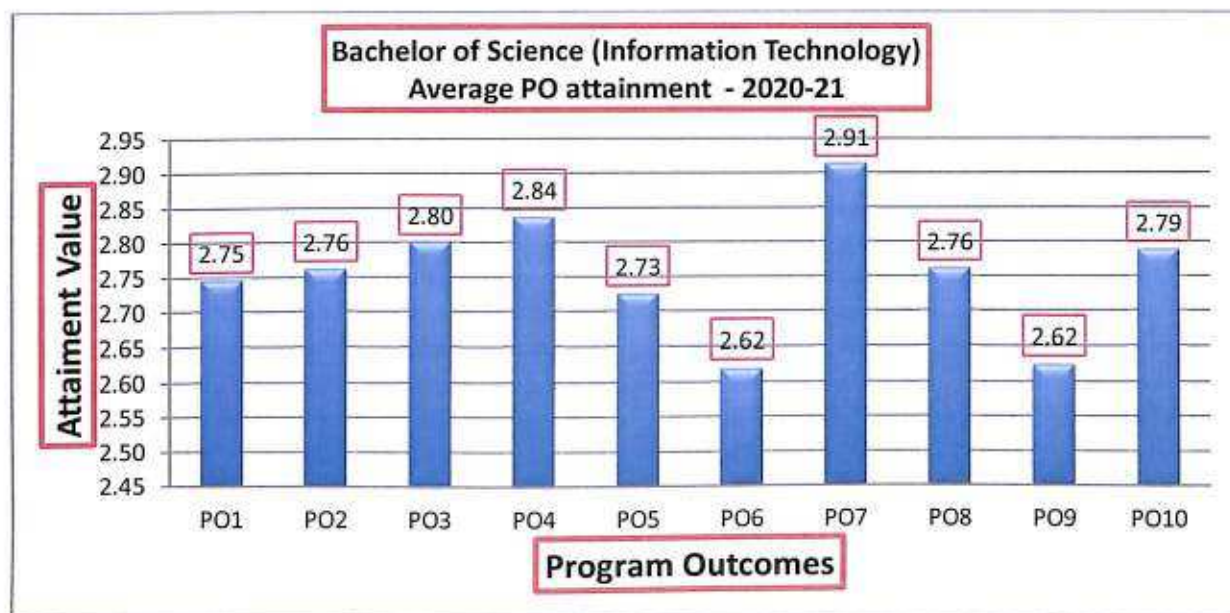
VI	SOFTWARE QUALITY ASSURANCE	1861UITSQ	2.5	2.5	2.5	2.5	2.5	2.5		2.5	2.5
	SECURITY IN COMPUTING	1862UITSC	3.25	3.25	3.25	3.25	3.25			3.25	3.25
	BUSINESS INTELLIGENCE	1863UITBI	2.25	2.25	2.25	2.25	2.25	2.25	2.25		2.25
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UITGI	2.25	2.25	2.25					2.25	2.25
	ENTERPRISE NETWORKING	1865UITEN	NA	NA	NA	NA	NA	NA		NA	NA
	IT SERVICE MANAGEMENT	1866UITIS	3.75	3.75	3.75	3.75			3.75	3.75	3.75
	CYBER LAWS	1867UITCL	NA	NA	NA	NA			NA	NA	NA
	PROJECT IMPLEMENTATION	1861UITPR	3	3	3	3	3	3	3	3	3
	SECURITY IN COMPUTING PRACTICAL	1862UITPR	3	3	3	3	3			3	3
	BUSINESS INTELLIGENCE PRACTICAL	1863UITPR	4	4	4	4	4	4	4	4	4
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	3	3	3					3	3
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	NA	NA	NA	NA	NA	NA		NA	NA



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ADVANCED MOBILE PROGRAMM ING PRACTICAL	1866UITPR	4	4	4	4			4	4	4	4
	Average	2.75	2.76	2.80	2.84	2.73	2.62	2.91	2.76	2.62	2.79
NA: Not Applicable as in some Courses are offered by institute but not opted by students.											



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 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-2020-21**

Seme ster	Course	Course Code	PO1	PO2	PO 3	PO4	P O5	P O6	P O7
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 (TRAINING)	1816BSBPS		*	*	*	*	*	
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	*			*		*	
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	*			*		*	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	*					*	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	*			*		*	*



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II	MARKETING MANAGEMENT	1822BSMM T	*			*			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT – II (TRAINING)	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 (TRAINING)	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 (INTERNSHIP)	1846BSWBL		*	*	*	*	*	*
V	MEDIA MANAGEMENT	1851BSMED	*			*			
V	ETHICS & GOVERNANCE	1852BSEGV	*					*	
V	INTERNATIONAL SPORTS MANAGEMENT	1853BSISM	*			*		*	


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V	SPORTS TRAINING & TACTICS	1854BSSTT	*			*			*
V	ENTREPRENEURSHIP & PROJECT MANAGEMENT	1855BSEPM	*			*			
V	ADVANCED PRACTICAL SPORTS MANAGEMENT (INTERNSHIP)	1856BSAPS		*	*	*	*		*
VI	MANAGEMENT OF ADAPTIVE SPORTS	1861BSMAS	*					*	
VI	SOFT SKILLS & PERSONALITY DEVELOPMENT	1862BSSPD				*	*		
VI	CASE STUDIES	1863BSCS	*		*				
VI	SPORTS & ALLIED INDUSTRY RESEARCH	1864BSIEP	*		*		*	*	*
VI	FINAL PROJECT & VIVA	186BSFPV		*	*		*		*

**Table No. I.2: CO Attainment Level: Bachelor of management (Sports management)
BMS(SM)-Academic Year - 2020-21**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	3.4	2	Fully Attained	NA
	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	2.4	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1811BSPOM	3	2	Fully Attained	NA
	BUSINESS ECONOMICS	1812BSBEC	3.4	2	Fully Attained	NA
	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS	2	2	Fully Attained	NA
	BASICS OF PRACTICAL	1816BSBPS	3	2	Fully Attained	NA



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	SPORTS MANAGEMENT - I (TRAINING)					
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	2	2	Fully Attained	NA
	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	1.6	2	Not Attained	Assignmen ts, tutorials, exercises and remedial coaching shall be planned.
	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	2.4	2	Fully Attained	NA
	HUMAN RESOURCE MANAGEMENT	1821BSHRM	2	2	Fully Attained	NA
	MARKETING MANAGEMENT	1822BSMMT	2.2	2	Fully Attained	NA
	BASICS OF PRACTICAL SPORTS MANAGEMENT - II (TRAINING)	1826BSBPS	4	2	Fully Attained	NA
III	SPORTS & ENTERTAINME NT MARKETING	1831BSENT	1.6	2	Not Attained	Assignmen ts, tutorials, exercises and remedial coaching shall be planned.
	SPORTS FUNDING & FINANCIAL MANAGEMENT	1832BSSFF	2.8	2	Fully Attained	NA
	SPORTS MEDIA , BROADCASTIN G & JOURNALISM	1833BSMBJ	2.2	2	Fully Attained	NA
	PR,	1834BSPSA	1.2	2	Not Attained	Assignmen



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	TACTICS					remedial coaching shall be planned.
	ENTREPRENEURSHIP & PROJECT MANAGEMENT	1855BSEPM	1.2	2	Not Attained	
	ADVANCED PRACTICAL SPORTS MANAGEMENT (INTERNSHIP)	1856BSAPS	2	2	Fully Attained	NA
VI	MANAGEMENT OF ADAPTIVE SPORTS	1861BSMAS	3	2	Fully Attained	NA
	SOFT SKILLS & PERSONALITY DEVELOPMENT	1862BSSPD	3.6	2	Fully Attained	NA
	CASE STUDIES	1863BSCS	2	2	Fully Attained	NA
	SPORTS & ALLIED INDUSTRY RESEARCH	1864BSIEP	2.6	2	Fully Attained	NA
	FINAL PROJECT & VIVA	186BSFPV	3	2	Fully Attained	NA
	Average		2.45			
NA: Not Applicable as target level is fully attained.						

Table No. I.2a: PO Attainment Level-BMS (Sports Management)- 2020-21

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	5	4	Fully Attained	NA
A2019-20	4	4	Fully Attained	NA
A2020-21	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. I.3: Results of CO-PO attainment-
Bachelor of Management Studies(Sports Management)-BMS(SM)-Academic Year 2020-21**

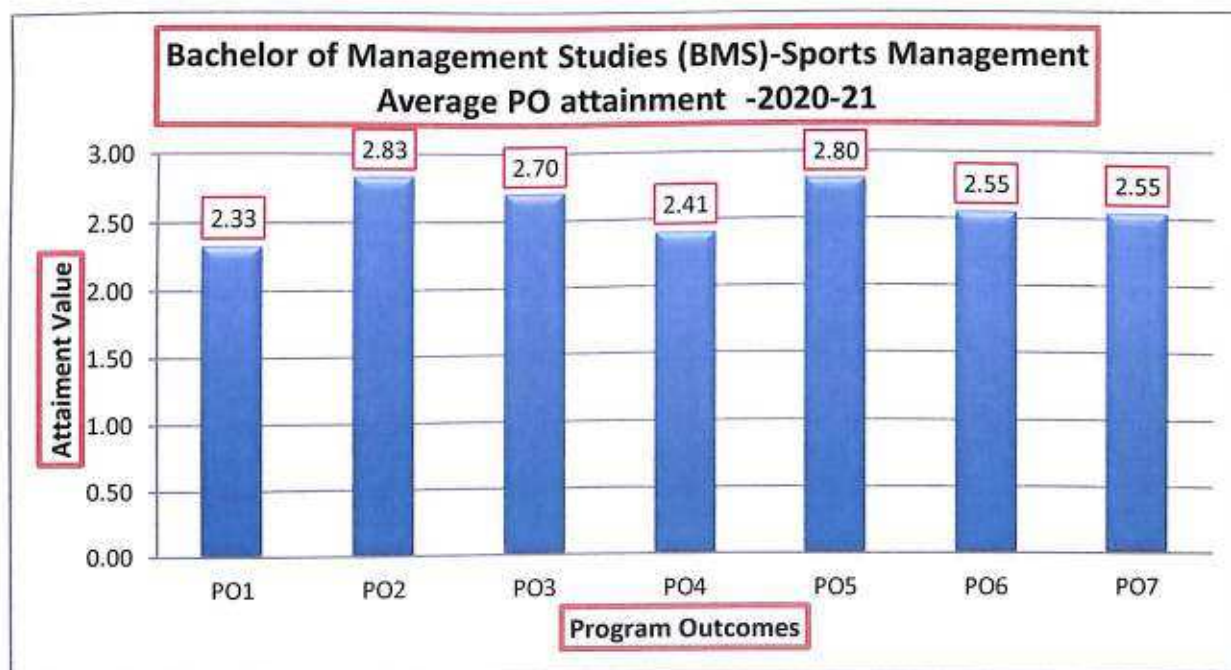
Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	3.4			3.4		3.4	
I	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	2.4			2.4		2.4	2.4
I	PRINCIPLES OF MANAGEMENT	1811BSPOM	3			3			3
I	BUSINESS ECONOMICS	1812BSBEC	3.4			3.4			
I	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS				2	2		
I	BASICS OF PRACTICAL SPORTS MANAGEMENT – I (TRAINING)	1816BSBPS		3	3	3	3	3	
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	2			2		2	
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	1.6			1.6		1.6	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	2.4					2.4	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	2			2		2	2
II	MARKETING MANAGEMENT	1822BSMMT	2.2			2.2			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT – II (TRAINING)	1826BSBPS		4	4	4	4	4	4
III	SPORTS & ENTERTAINMENT MARKETING	1831BSENT	1.6			1.6		1.6	
III	SPORTS FUNDING & FINANCIAL MANAGEMENT	1832BSSFF	2.8			2.8		2.8	
III	SPORTS MEDIA , BROADCASTING & JOURNALISM	1833BSMBJ	2.2			2.2		2.2	
III	PR, SPONSORSHIP & ADVERTISING IN SPORTS	1834BSPSA	1.2			1.2			
III	SPORTS EVENT MANAGEMENT	1835BSSEM	2.2			2.2		2.2	2.2
III	PROFESSIONAL INDUSTRY ENGAGEMENT (TRAINING)	1836BSPIE		2	2		2	2	2
IV	SPORTS LAW & RISK MANAGEMENT	1842BSLRM	3					3	
IV	GLOBAL SPORTS TOURISM	1843BSGST	4			4		4	
IV	SPORTS HEALTH & NUTRITION	1844BSSHN	2.2			2.2			
IV	SPORTS PSYCHOLOGY	1845BSPSY	2.6			2.6		2.6	
IV	BRAND MANAGEMENT	1841BSBMT	2			2		2	
IV	WORK BASED LEARNING ROUTE (INTERNSHIP)	1846BSWBL		3	3	3	3	3	3



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V	MEDIA MANAGEMENT	1851BSMED	1.8			1.8			
V	ETHICS & GOVERNANCE	1852BSEGV	2.6					2.6	
V	INTERNATIONAL SPORTS MANAGEMENT	1853BSISM	1.8			1.8		1.8	
V	SPORTS TRAINING & TACTICS	1854BSSTT	1.8			1.8			1.8
V	ENTREPRENEURSHIP & PROJECT MANAGEMENT	1855BSEPM	1.2			1.2			
V	ADVANCED PRACTICAL SPORTS MANAGEMENT (INTERNSHIP)	1856BSAPS		2	2	2	2		2
VI	MANAGEMENT OF ADAPTIVE SPORTS	1861BSMAS	3					3	
VI	SOFT SKILLS & PERSONALITY DEVELOPMENT	1862BSSPD				3.6	3.6		
VI	CASE STUDIES	1863BSCS	2		2				
VI	SPORTS & ALLIED INDUSTRY RESEARCH	1864BSIEP	2.6		2.6		2.6	2.6	2.6
VI	FINAL PROJECT & VIVA	186BSFPV		3	3		3		3
			2.3	2.8	2.7	2.4	2.8	2.5	2.5
		Average	3	3	0	1	0	5	5



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).

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-2020-21

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		*	*	*		
II	MICROECONOMICS -II	1623PMEMI	*	*	*	*	*	
	MACROECONOMICS -II	1624PMEMA	*	*	*	*		
	PUBLIC ECONOMICS	1621PMEPE	*	*	*	*	*	*
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		*	*	*		
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	*	*	*	*	*	*
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	*	*	*	*		*
	INDUSTRIAL ECONOMICS	1733PMEIE	*	*	*	*	*	*
	BANKING: THEORY AND POLICY	1734PMEBA	*	*	*	*	*	*
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	*	*	*	*	*	*



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	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-2020-21**

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	MICROECONOMICS -I	1611PMEMI	3.4	2	Fully Attained	NA
	MACROECONOMICS -I	1612PMEMA	2.8	2	Fully Attained	NA
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.8	2	Fully Attained	NA
	STATISTICAL METHODS IN ECONOMICS	1814PMESM	3.4	2	Fully Attained	NA
II	MICROECONOMICS -II	1623PMEMI	2.4	2	Fully Attained	NA
	MACROECONOMICS -II	1624PMEMA	3.4	2	Fully Attained	NA
	PUBLIC ECONOMICS	1621PMEPE	2.4	2	Fully Attained	NA
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT	3	2	Fully Attained	NA
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2.6	2	Fully Attained	NA
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	3.4	2	Fully Attained	NA
	INDUSTRIAL ECONOMICS	1733PMEIE	3.4	2	Fully Attained	NA
	BANKING: THEORY AND POLICY	1734PMEBA	3.4	2	Fully Attained	NA
IV	AGRICULTURAL	1741PMEAD	3	2	Fully Attained	NA


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	DEVELOPMENT AND POLICY					
	INTERNATIONAL FINANCE	1742PMEIF	3	2	Fully Attained	NA
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3.4	2	Fully Attained	NA
	RESEARCH PROJECT	1744PMERP	2	2	Fully Attained	NA
	Average		2.96			
NA: Not Applicable as target level is fully attained/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

Table No.J.2a: PO Attainment Level-MA (Economics)- 2020-21

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	4	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
A 2020-21	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. J.3: Results of CO-PO attainment-
Master of Arts(Economics)-MA(ECO)-Academic Year 2020-21**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	MICROECONOMICS -I	1611PMEMI	3.4	3.4	3.4	3.4		
	MACROECONOMICS -I	1612PMEMA	2.8	2.8	2.8	2.8		
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.8	2.8	2.8	2.8	2.8	2.8
	STATISTICAL METHODS IN	1814PMESM		3.4	3.4	3.4		



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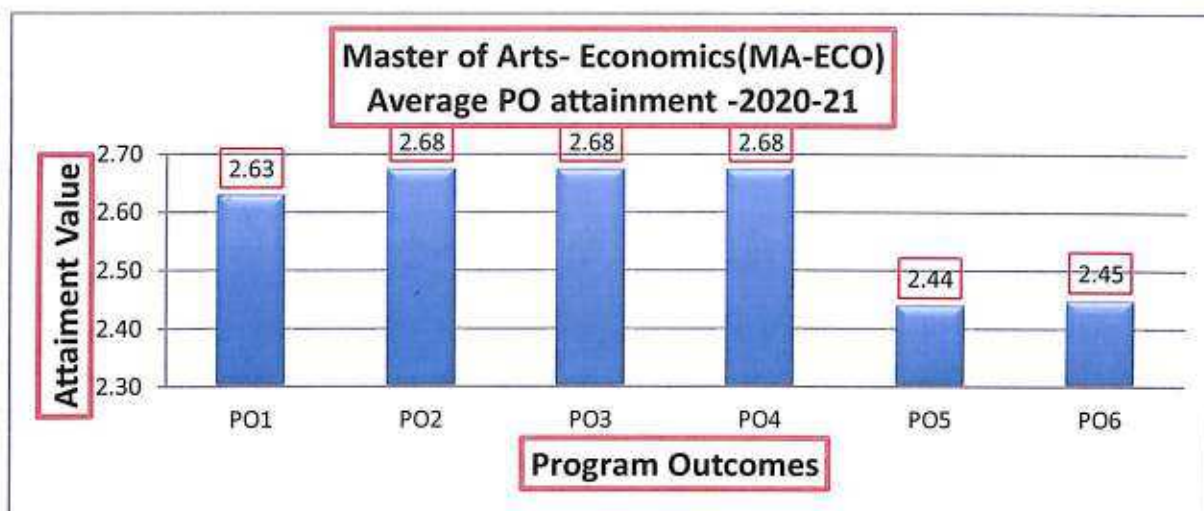
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	ECONOMICS							
II	MICROECONOMICS - II	1623PMEI	2.4	2.4	2.4	2.4	2.4	
	MACROECONOMICS -II	1624PMEI	3.4	3.4	3.4	3.4		
	PUBLIC ECONOMICS	1621PMEPE	2.4	2.4	2.4	2.4	2.4	2.4
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEIT		3	3	3		
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2.6	2.6	2.6	2.6	2.6	2.6
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	3.4	3.4	3.4	3.4		3.4
	INDUSTRIAL ECONOMICS	1733PMEIE	3.4	3.4	3.4	3.4	3.4	3.4
	BANKING: THEORY AND POLICY	1734PMEBA	3.4	3.4	3.4	3.4	3.4	3.4
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	3	3	3	3	3	3
	INTERNATIONAL FINANCE	1742PMEIF	3	3	3	3	3	3
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3.4	3.4	3.4	3.4	3.4	3.4
	RESEARCH PROJECT	1744PMEHP	2	2	2	2	2	2
	Average		2.63	2.68	2.68	2.68	2.44	2.45
NA: Not Applicable because Semester II examination is not conducted due to pandemic.								



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From above graph, it is observed that average PO attainment value for all but two program outcomes is greater than 2.5. It means, PO attainment by corresponding courses is at excellent level (value greater than 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-2020-21

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 ACTIVITIES	1614PGEEA		*	*			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA					*	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA					*	
II	OCEANOGRAPHY AND	1621PGEOH	*					*



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	HYDROLOGY							
	GEONFORMATICS	1622PGEIF				*		
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGECP		*	*			
	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	1742PGEEE					*	*
	DISSERTATION	1743PGED	*	*	*	*	*	*

Table No. K.2: CO Attainment Level: Master of Arts(Geography)- MA(GEO)- Academic Year-2020-21

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	2.4	2	Fully Attained	NA
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	2.4	2	Fully Attained	NA
	PERSPECTIVES IN	1613PGESP	2.8	2	Fully	NA


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	HUMAN GEOGRAPHY				Attained	
	SPATIAL ORGANISATION OF ECONOMIC ACTIVITIES	1614PGEEA	3	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA	4	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - II	1616PGESA	3	2	Fully Attained	NA
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	4	2	Fully Attained	NA
	GEOINFORMATICS	1622PGEIF	4	2	Fully Attained	NA
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGECF	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	3	2	Fully Attained	NA
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGERM	2.4	2	Fully Attained	NA
	CLIMATOLOGY OF TROPICS	1732PGECT	2.4	2	Fully Attained	NA
	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGESA	3	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGETT	3	2	Fully Attained	NA
	TOOLS AND	1735PGETT	4	2	Fully	NA



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	TECHNIQUES OF SPATIAL ANALYSIS- VI				Attained	
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEHE	3	2	Fully Attained	NA
	ECOLOGY AND ENVIRONMENT	1742PGEEE	2.8	2	Fully Attained	NA
	DISSERTATION	1743PGED	0	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Average		3.09			
NA: Not Applicable as target level is fully attained/ Semester II is not conducted so far as course begins very late due to pandemic.						

Table No. PO Attainment Level-MA (Geography)- A20-21

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
A 2020-21	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 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
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	2.4					
	PRINCIPLES OF CLIMATOLOGY	1612PGEP C	2.4					
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP		2.8	2.8			
	SPATIAL	1614PGEEA		3	3			

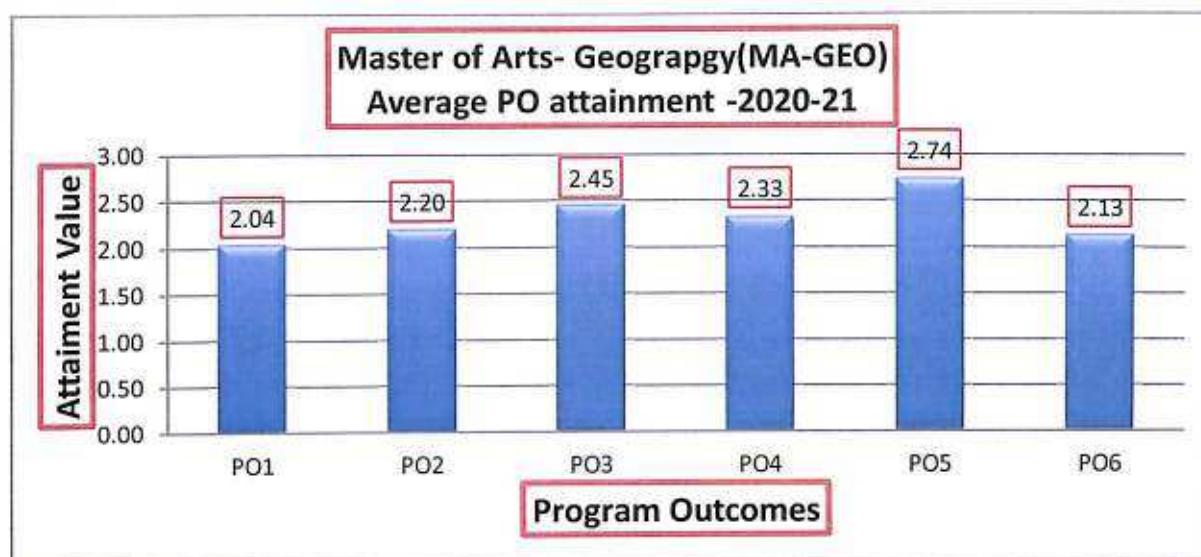
	ORGANISATION OF ECONOMIC ACTIVITIES							
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGES A					4	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGES A					3	
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEO H	4					4
	GEOINFORMATICS	1622PGEIF				4		
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGEC P		4	4			
	URBAN GEOGRAPHY	1624PGEU G			4			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - III	1625PGES A				4	4	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGES A					3	
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGER M	2.4				2.4	
	CLIMATOLOGY OF TROPICS	1732PGEC T	2.4					2.4
	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGES A		3	3			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGET T					3	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGET T					4	
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEH E	3			3		
	ECOLOGY AND ENVIRONMENT	1742PGEE E					2.8	2.8
	DISSERTATION	1743PGED	0	0	0	0	0	0
		Average	2.04	2.20	2.45	2.33	2.74	2.13

NA: Not Applicable because Semester II examination is not conducted so far as course begins very late due to pandemic.



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

ANNEXTURE L

Master of Commerce (Accountancy)-MCOM (Accountancy)

Table No. L1: PO CO Mapping Matrix:

Master of Commerce (Accountancy) - MCOM (Accountancy)

Academic Year-2020-21

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
I	STRATEGIC MANAGEMENT	1611PCMSM	*		*	*	*
	MICROECONOMICS	1612PCMEB	*			*	
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	*			*	
	BUSINESS ETHICS AND CSR	1614PCMBE	*			*	
II	RESEARCH METHODOLOGY	1621PCMRM	*	*	*		*
	MACROECONOMICS	1622PCMME	*			*	
	CORPORATE FINANCE	1623PCMCF	*	*	*		*
	E COMMERCE	1624PCMEC	*	*			*

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III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	*	*		*	
	DIRECT TAX	1732PCMDT	*	*			*
	ADVANCED COST ACCOUNTING	1733PCMCA	*			*	
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	*	*		*	*
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	*				
	INDIRECT TAX	1742PCMIT	*	*			*
	IFRS	1743PCMIF	*	*			
	RESEARCH BASED PROJECT	1744PCMRP	*	*	*	*	*

**Table No. L.2: CO Attainment Level: Master of Commerce(Accountancy)-
MCOM (Accountancy)-Academic Year-2020-21**

Seme ster	Course	Course Code	CO Attainme nt value	Attainme nt Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	1611PCMSM	1	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MICROECONOMICS	1612PCMEB	1.4	2	Fully Attained	
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	1.2	2	Fully Attained	
	BUSINESS ETHICS AND CSR	1614PCMBE	3.2	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	1621PCMRM	4	2	Fully Attained	NA
	MACROECONOMICS	1622PCMME	3.2	2	Fully Attained	NA
	CORPORATE FINANCE	1623PCMCF	3.4	2	Fully Attained	NA



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	E COMMERCE	1624PCMEC	2.4	2	Fully Attained	NA
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	2.8	2	Fully Attained	NA
	DIRECT TAX	1732PCMDT	3.4	2	Fully Attained	NA
	ADVANCED COST ACCOUNTING	1733PCMCA	3.4	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	1	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	1.8	2	Fully Attained	
	INDIRECT TAX	1742PCMIT	2.4	2	Fully Attained	
	IFRS	1743PCMIF	2.6	2	Fully Attained	
	RESEARCH BASED PROJECT	1744PCMRP	2	2	Fully Attained	
		Average	2.48			
NA: Not Applicable as target level is fully attained/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

Table No.L.2a: PO Attainment Level-MCOM (Accountancy)-2020-21

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-20	5	4	Fully Attained	NA
A2019-20	5	4	Fully Attained	NA
A 2020-21	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 target level-4. Hence at present no plans are required.

Table No. L.3: Results of CO-PO attainment-


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

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
	STRATEGIC MANAGEMENT	1611PCMSM	1		1	1	1
I	MICROECONOMICS	1612PCMEB	1.4			1.4	
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	1.2			1.2	
	BUSINESS ETHICS AND CSR	1614PCMBE	3.2			3.2	
II	RESEARCH METHODOLOGY	1621PCMRM	3.2	3.2	3.2		3.2
	MACROECONOMICS	1622PCMME	3.4			3.4	
	CORPORATE FINANCE	1623PCMCF	2.4	2.4	2.4		2.4
	E COMMERCE	1624PCMEC	2.8	2.8			2.8
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	2.8	2.8		2.8	
	DIRECT TAX	1732PCMDT	3.4	3.4			3.4
	ADVANCED COST ACCOUNTING	1733PCMCA	3.4			3.4	
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	1	1		1	1
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	1.8				
	INDIRECT TAX	1742PCMIT	2.4	2.4			2.4
	IFRS	1743PCMIF	2.6	2.6			
	RESEARCH BASED PROJECT	1744PCMRP	2	2	2	2	2
		Average	2.38	2.51	2.15	2.16	2.28
NA: Not Applicable because Semester II examination is not conducted so far as course begins very late due to pandemic.							



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 at very good level (value between 2 and 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-2020-21

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	*			*	
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-2020-21**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	1611PCMSM	4	2	Fully Attained	NA
	MICROECONOMICS	1612PCMEB	4	2	Fully Attained	NA
	SERVICE MARKETING	1715PCMMK	4	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	1614PCMBE	4	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	1621PCMRM	4	2	Fully Attained	NA
	MACROECONOMICS	1622PCMME	4	2	Fully Attained	NA
	RETAIL MANAGEMENT	1623PCMRM	4	2	Fully Attained	NA
	E COMMERCE	1624PCMEC	4	2	Fully Attained	NA
III	RURAL MARKETING	1731PCMRM	2.2	2	Fully Attained	NA


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	ENTREPRENEURSHIP	1732PCMEP	2.8	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	1733PCMOB	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	2	2	Fully Attained	NA
IV	RESEARCH BASED PROJECT	1744PCMRP	4	2	Fully Attained	NA
	SUPPLY CHAIN MANAGEMENT	1741PCMML	2.4	2	Fully Attained	NA
	BRAND MANAGEMENT	1742PCMBM	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMBR	1.8	2	Not Attained	
		Average	3.09			
NA: Not Applicable as target level is fully attained/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

Table No. M.2a: PO Attainment Level-(Management)-2020-21

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
A2020-21	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. M.3: Results of CO-PO attainment-

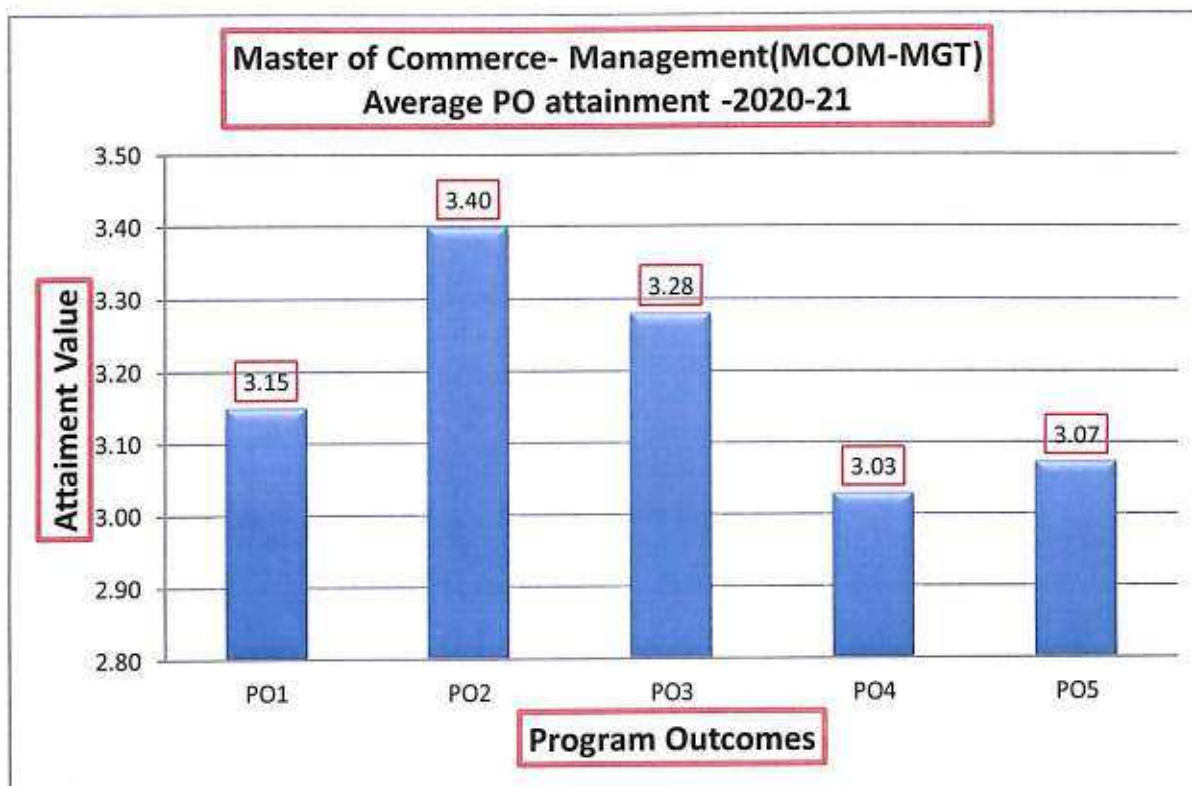
Master of Commerce(Management)- MCOM (Management) Academic Year 2020-21


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Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
I	STRATEGIC MANAGEMENT	1611PCMSM	4		4	4	4
	MICROECONOMICS	1612PCMEB	4			4	
	SERVICE MARKETING	1715PCMMK	4			4	4
	BUSINESS ETHICS AND CSR	1614PCMBE	4			4	
II	RESEARCH METHODOLOGY	1621PCMRM	4	4	4		4
	MACROECONOMICS	1622PCMME	4			4	
	RETAIL MANAGEMENT	1723PCMRM	4	4		4	4
	E COMMERCE	1624PCMEC	4	4			4
III	RURAL MARKETING	1731PCMRM	2.2			2.2	
	ENTREPRENEURSHIP	1732PCMEP	2.8		2.8	2.8	2.8
	ORGANISATIONAL BEHAVIOUR	1733PCMOB	1.6		1.6	1.6	1.6
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	2	2		2	2
IV	RESEARCH BASED PROJECT	1744PCMRP	4	4	4	4	4
	SUPPLY CHAIN MANAGEMENT	1741PCMML	2.4	2.4		2.4	
	BRAND MANAGEMENT	1742PCMBM	1.6			1.6	1.6
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMBR	1.8			1.8	1.8
		Average	3.15	3.40	3.28	3.03	3.07

NA: Not Applicable because Semester II examination is not conducted so far as course begins very late due to pandemic.


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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 N

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-2020-21

Se mes ter	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
I	RESEARCH IN COMPUTING	2011PIT RC	*	*			*	*	*	*	*	*		*
	MACHINE LEARNING	2012PIT ML	*	*	*	*	*				*	*	*	*

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	FOUNDATIO NS OF DATA SCIENCE	2013PITF D	*	*	*			*	*		*			*
	DISTRIBUTE D SYSTEMS	2013PIT DS	*	*	*	*					*			
	CYBER AND INFORMATI ON SECURITY	2014PIT CS	*	*	*	*					*			
	ANALYSIS OF ALGORITHM S	2014PIT AA	*	*	*			*	*	*	*	*		
	RESEARCH IN COMPUTING PRACTICAL	2015PIT RC	*	*			*	*	*	*	*	*		*
	MACHINE LEARNING PRACTICAL	2016PIT ML	*	*	*	*	*				*	*	*	*
	FOUNDATIO NS OF DATA SCIENCE PRACTICAL	2017PITF D	*	*	*			*	*		*			*
	DISTRIBUTE D SYSTEMS PRACTICAL	2017PIT DS	*	*	*	*					*			
	CYBER AND INFORMATI ON SECURITY PRACTICAL	2018PIT CS	*	*	*	*					*			
	ANALYSIS OF ALGORITHM S PRACTICAL	2018PIT AA	*	*	*			*	*	*	*	*		
II	INTERNSHIP / RESEARCH PAPER/ MINI- PROJECT	2021PIT RP	*	*	*	*	*	*	*	*	*	*		*
	SOFT COMPUTING	2022PITS C	*	*	*			*	*		*	*		
	FOUNDATIO NS OF BIG DATA	2023PIT BD	*	*	*			*			*	*	*	*
	CLOUD COMPUTING	2023PIT CC	*	*	*	*						*		*
	COMPUTER FORENSIC	2024PIT CF	*	*	*	*	*				*			*
	OPTIMIZATI ON	2024PIT OT	*	*	*			*	*		*			



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	TECHNIQUES													
	PAPER PRESENTATION/ PAPER PUBLICATION	2025PITRP	*	*	*	*	*	*	*	*	*	*		*
	SOFT COMPUTING PRACTICAL	2026PITSC	*	*	*			*	*		*	*		
	FOUNDATIONS OF BIG DATA PRACTICAL	2027PITBD	*	*	*			*			*	*	*	*
	CLOUD COMPUTING PRACTICAL	2027PITCC	*	*	*	*					*			*
	COMPUTER FORENSIC PRACTICAL	2028PITCF	*	*	*	*					*			*
	OPTIMIZATION TECHNIQUES PRACTICAL	2028PITOT	*	*	*			*	*		*			
III	EMBEDDED SYSTEMS	1731PITES	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT	1732PITIS	*	*	*	*			*	*	*			*
	ARTIFICIAL NEURAL NETWORKS	1733PITNN	*	*	*	*				*	*	*		*
	VIRTUALIZATION	1733PITVR	*	*	*						*			*
	DIGITAL IMAGE PROCESSING	1734PITIP	*	*							*	*		
	ETHICAL HACKING	1734PITEH	*	*	*	*		*	*	*	*		*	*
	EMBEDDED SYSTEMS PRACTICAL	1735PESPR	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1736PISPR	*	*	*	*			*	*	*			*


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	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1737PNN PR	*	*	*					*	*	*	*		*
	VIRTUALIZATION PRACTICAL	1737PVR PR	*	*	*						*				*
	DIGITAL IMAGE PROCESSING PRACTICAL	1738PIPP R	*	*							*	*			
	ETHICAL HACKING PRACTICAL	1738PEH PR	*	*	*	*		*	*	*	*		*	*	*
IV	ARTIFICIAL INTELLIGENCE	1741PIT AI	*	*	*	*	*	*	*		*	*			*
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	*	*	*						*	*			*
	INTELLIGENT SYSTEMS	1743PITIS	*	*	*	*	*		*		*	*			*
	REAL TIME EMBEDDED SYSTEMS	1743PITES	*	*	*						*				*
	COMPUTER FORENSICS	1743PITCF	*	*	*	*			*	*	*	*			*
	ADVANCED IMAGE PROCESSING	1744PITIP	*	*	*						*	*			
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	*	*	*	*				*	*	*			
	CLOUD MANAGEMENT	1744PITCM	*	*	*						*	*			*
	INTELLIGENT SYSTEMS PRACTICAL	1745PIPRS	*	*	*	*	*		*		*	*			*
	REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PESPR	*	*	*						*				*
	COMPUTER FORENSICS PRACTICAL	1745PITCF	*	*	*	*			*	*	*	*			*


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ADVANCED IMAGE PROCESSING PRACTICAL	1746PIPPR	*	*	*						*	*		
DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PESPR	*	*	*	*				*	*	*		
CLOUD MANAGEMENT PRACTICAL	1746PCMPR	*	*	*						*	*		*
PROJECT	1747PITPR	*	*	*	*	*	*	*	*	*	*		*

**Table No. N.2: CO Attainment Level: Master of Science(Information Technology)-
M.Sc.(IT)-Academic Year-2020-21**

SEM	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	RESEARCH IN COMPUTING	2011PITRC	3.6	2	Fully Attained	NA
	MACHINE LEARNING	2012PITML	3	2	Fully Attained	NA
	FOUNDATIONS OF DATA SCIENCE	2013PITFD	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISTRIBUTED SYSTEMS	2013PITDS	NA	2	NA	NA
	CYBER AND INFORMATION SECURITY	2014PITCS	4.2	2	Fully Attained	NA
	ANALYSIS OF ALGORITHMS	2014PITAA	NA	2	NA	NA
	RESEARCH IN COMPUTING PRACTICAL	2015PITRC	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MACHINE LEARNING PRACTICAL	2016PITML	1	2	Not Attained	
	FOUNDATIONS OF DATA SCIENCE PRACTICAL	2017PITFD	1.5	2	Not Attained	


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	DISTRIBUTED SYSTEMS PRACTICAL	2017PITDS	NA	2	Fully Attained	NA
	CYBER AND INFORMATION SECURITY PRACTICAL	2018PITCS	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	ANALYSIS OF ALGORITHMS PRACTICAL	2018PITAA	NA	2	NA	NA
II	INTERNSHIP/ RESEARCH PAPER/ MINI-PROJECT	2021PITRP	3	2	Fully Attained	NA
	SOFT COMPUTING	2022PITSC	2	2	Fully Attained	NA
	FOUNDATIONS OF BIG DATA	2023PITBD	2.6	2	Fully Attained	NA
	CLOUD COMPUTING	2023PITCC	5.8	2	Fully Attained	NA
	COMPUTER FORENSIC	2024PITCF	NA	2	NA	NA
	OPTIMIZATION TECHNIQUES	2024PITOT	NA	2	NA	NA
	PAPER PRESENTATION/ PAPER PUBLICATION	2025PITRP	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	SOFT COMPUTING PRACTICAL	2026PITSC	1.5	2	Not Attained	
	FOUNDATIONS OF BIG DATA PRACTICAL	2027PITBD	1.5	2	Not Attained	
	CLOUD COMPUTING PRACTICAL	2027PITCC	NA	2	NA	NA
	COMPUTER FORENSIC PRACTICAL	2028PITCF	2	2	Fully Attained	NA
	OPTIMIZATION TECHNIQUES PRACTICAL	2028PITOT	NA	2	NA	NA
III	EMBEDDED SYSTEMS	1731PITES	2.8	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT	1732PITIS	3.4	2	Fully Attained	NA
	ARTIFICIAL NEURAL NETWORKS	1733PITNN	4	2	Fully Attained	NA


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	VIRTUALIZATION	1733PITVR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1734PITIP	3.4	2	Fully Attained	NA
	ETHICAL HACKING	1734PITEH	NA	2	NA	NA
	EMBEDDED SYSTEMS PRACTICAL	1735PESPR	2.8	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1736PISPR	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1737PNNPR	1.5	2	Not Attained	
	VIRTUALIZATION PRACTICAL	1737PVRPR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING PRACTICAL	1738PIPPR	2	2	Fully Attained	NA
	ETHICAL HACKING PRACTICAL	1738PEHPR	NA	2	NA	NA
IV	ARTIFICIAL INTELLIGENCE	1741PITAI	2.8	2	Fully Attained	NA
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	3.4	2	Fully Attained	NA
	INTELLIGENT SYSTEMS	1743PITIS	2.8	2	Fully Attained	NA
	REAL TIME EMBEDDED SYSTEMS	1743PITES	NA	2	NA	NA
	COMPUTER FORENSICS	1743PITCF	NA	2	NA	NA
	ADVANCED IMAGE PROCESSING	1744PITIP	3.4	2	Fully Attained	NA
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	NA	2	NA	NA
	CLOUD MANAGEMENT	1744PITCM	NA	2	NA	NA
	INTELLIGENT SYSTEMS PRACTICAL	1745PIPRS	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	REAL TIME EMBEDDED	1745PESPR	NA	2	NA	NA


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	SYSTEMS PRACTICAL					
	COMPUTER FORENSICS PRACTICAL	1745PITCF	NA	2	NA	NA
	ADVANCED IMAGE PROCESSING PRACTICAL	1746PIPPR	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PESPR	NA	2	NA	NA
	CLOUD MANAGEMENT PRACTICAL	1746PCMPR	NA	2	NA	NA
	PROJECT	1747PITPR	3	2	Fully Attained	NA
	Average		2.47			
NA: Not Applicable as target level is fully attained. Also some courses are offered by institution but not opted by students/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

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

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
A 2020-21	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.

**Table No. N.3: Results of CO-PO attainment-
Master of Science(Information Technology)- M.Sc.-(IT) Academic Year 2020-21**

Se mes ter	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
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I	RESEARCH IN COMPUTING	2011PIT RC	3.6	3.6			3.6	3.6	3.6	3.6	3.6	3.6		3.6
	MACHINE LEARNING	2012PIT ML	3	3	3	3	3				3	3	3	3
	FOUNDATIONS OF DATA SCIENCE	2013PITF D	1.8	1.8	1.8			1.8	1.8		1.8			1.8
	DISTRIBUTED SYSTEMS	2013PIT DS	NA	NA	NA	NA					NA			
	CYBER AND INFORMATION SECURITY	2014PIT CS	4.2	4.2	4.2	4.2					4.2			
	ANALYSIS OF ALGORITHMS	2014PIT AA	NA	NA	NA			NA	NA	NA	NA	NA		
	RESEARCH IN COMPUTING PRACTICAL	2015PIT RC	1.5	1.5			1.5	1.5	1.5	1.5	1.5	1.5		1.5
	MACHINE LEARNING PRACTICAL	2016PIT ML	1	1	1	1	1				1	1	1	1
	FOUNDATIONS OF DATA SCIENCE PRACTICAL	2017PITF D	1.5	1.5	1.5			1.5	1.5		1.5			1.5
	DISTRIBUTED SYSTEMS PRACTICAL	2017PIT DS	NA	NA	NA	NA					NA			
	CYBER AND INFORMATION SECURITY PRACTICAL	2018PIT CS	1.5	1.5	1.5	1.5					1.5			
	ANALYSIS OF ALGORITHMS PRACTICAL	2018PIT AA	NA	NA	NA			NA	NA	NA	NA	NA		
II	INTERNSHIP / RESEARCH PAPER/ MINI-PROJECT	2021PIT RP	3	3	3	3	3	3	3	3	3	3		3
	SOFT COMPUTING	2022PITS C	2	2	2			2	2		2	2		
	FOUNDATIONS OF BIG DATA	2023PIT BD	2.6	2.6	2.6			2.6			2.6	2.6	2.6	2.6
	CLOUD	2023PIT	5.8	5.8	5.8	5.8						5.8		5.8


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	COMPUTING	CC												
	COMPUTER FORENSIC	2024PIT CF	NA	NA	NA	NA	NA				NA			NA
	OPTIMIZATION TECHNIQUES	2024PIT OT	NA	NA	NA			NA	NA		NA			
	PAPER PRESENTATION/ PAPER PUBLICATION	2025PIT RP	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		1.5
	SOFT COMPUTING PRACTICAL	2026PITS C	1.5	1.5	1.5			1.5	1.5		1.5	1.5		
	FOUNDATIONS OF BIG DATA PRACTICAL	2027PIT BD	1.5	1.5	1.5			1.5			1.5	1.5	1.5	1.5
	CLOUD COMPUTING PRACTICAL	2027PIT CC	NA	NA	NA	NA						NA		NA
	COMPUTER FORENSIC PRACTICAL	2028PIT CF	2	2	2	2					2			2
	OPTIMIZATION TECHNIQUES PRACTICAL	2028PIT OT	NA	NA	NA			NA	NA		NA			
III	EMBEDDED SYSTEMS	1731PITES	2.8	2.8	2.8	2.8				2.8	2.8	2.8		2.8
	INFORMATION SECURITY MANAGEMENT	1732PITS	3.4	3.4	3.4	3.4			3.4	3.4	3.4			3.4
	ARTIFICIAL NEURAL NETWORKS	1733PIT NN	4	4	4	4				4	4	4		4
	VIRTUALIZATION	1733PIT VR	NA	NA	NA						NA			NA
	DIGITAL IMAGE PROCESSING	1734PITIP	3.4	3.4							3.4	3.4		
	ETHICAL HACKING	1734PITEH	NA	NA	NA	NA		NA	NA	NA	NA		NA	NA
	EMBEDDED SYSTEMS PRACTICAL	1735PES PR	2.8	2.8	2.8	2.8				2.8	2.8	2.8		2.8



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	INFORMATION SECURITY MANAGEMENT PRACTICAL	1736PISPR	1.5	1.5	1.5	1.5			1.5	1.5	1.5		1.5
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1737PNNPR	1.5	1.5	1.5				1.5	1.5	1.5	1.5	1.5
	VIRTUALIZATION PRACTICAL	1737PVRPR	NA	NA	NA						NA		NA
	DIGITAL IMAGE PROCESSING PRACTICAL	1738PIPPR	2	2							2	2	
	ETHICAL HACKING PRACTICAL	1738PEHPR	NA	NA	NA	NA		NA	NA	NA	NA		NA
IV	ARTIFICIAL INTELLIGENCE	1741PITAI	2.8	2.8	2.8	2.8	2.8	2.8	2.8		2.8	2.8	2.8
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	3.4	3.4	3.4						3.4	3.4	3.4
	INTELLIGENT SYSTEMS	1743PITIS	2.8	2.8	2.8	2.8	2.8		2.8		2.8	2.8	2.8
	REAL TIME EMBEDDED SYSTEMS	1743PITES	NA	NA	NA						NA		NA
	COMPUTER FORENSICS	1743PITCF	NA	NA	NA	NA			NA	NA	NA	NA	NA
	ADVANCED IMAGE PROCESSING	1744PITIP	3.4	3.4	3.4						3.4	3.4	
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	NA	NA	NA	NA				NA	NA	NA	
	CLOUD MANAGEMENT	1744PITCM	NA	NA	NA						NA	NA	NA
	INTELLIGENT SYSTEMS PRACTICAL	1745PIPRS	1.5	1.5	1.5	1.5	1.5		1.5		1.5	1.5	1.5
	REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PESPR	NA	NA	NA						NA		NA

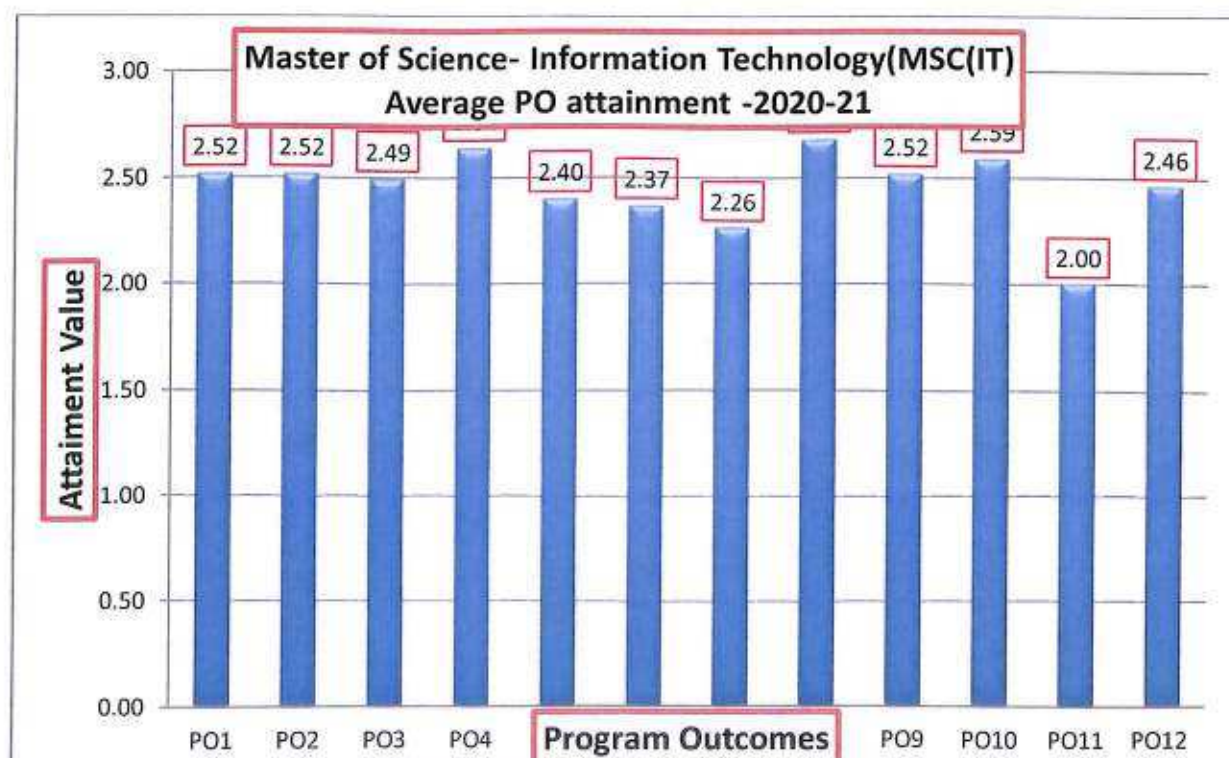


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COMPUTER FORENSICS PRACTICAL	1745PITCF	NA	NA	NA	NA				NA	NA	NA	NA		NA
ADVANCED IMAGE PROCESSING PRACTICAL	1746PIPPR	1.5	1.5	1.5							1.5	1.5		
DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PESPR	NA	NA	NA	NA					NA	NA	NA		
CLOUD MANAGEMENT PRACTICAL	1746PCMPR	NA	NA	NA							NA	NA		NA
PROJECT	1747PITPR	3	3	3	3	3	3	3	3	3	3	3		3
	Average	2.51	2.51	2.49	2.74	2.37	2.19	2.19	2.60	2.40		2.58	2.03	2.53

NA: Not Applicable as some courses are offered by institution but not opted by students. Also Semester II examination is not conducted so far as course begins very late due to pandemic.




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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 and 2.5).


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