



Nagindas Khandwala College (Autonomous)

**OBE DESIGN
ATTAINMENT LEVELS
ALL COURSES-2018-2019**

1. Course- Program outcome Matrix:

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

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



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.
- d. The target level is set (e.g. Level-2). It indicates that, the current target is level-2; 50% to 59.99% 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;



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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.

Bachelor of Commerce (B.Com.)

Table 1.0: PO & CO Mapping Table- B.Com.
Academic Year 2018-19

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

	AND STATISTICAL TECHNIQUES - II						
III	FUNDAMENTALS OF ADVERTISING	1731UCAD	*			*	*
	FOUNDATION COURSE - III	1732UCFC		*		*	
	COMMERCE - III (MANAGEMENT : FUNCTIONS AND CHALLENGES)	1733UCCM	*			*	*
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	*		*		
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	*		*		*
	BUSINESS ECONOMICS - III	1736UCBE	*				
	BUSINESS LAW	1737UCBL	*			*	*
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	*			*	*
	FOUNDATION COURSE - IV	1742UCFC		*		*	
	COMMERCE - IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCOM	*			*	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	*		*		
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCCA	*				*
	BUSINESS ECONOMICS - IV	1746UCBE	*				
	BUSINESS LAW - II	1747UCBL	*			*	*
V	COMMERCE - V (MARKETING)	1853UCOM	*			*	*
	BUSINESS ECONOMICS - V	1854UCBE	*				

	(INDIAN FINANCIAL SYSTEM)						
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	*				*
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	*		*		
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - COST ACCOUNTING	1852UCCA	*	*	*	*	*
	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 -	1862UCCA	*	*			*



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AUDITING						
PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					*
EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	*				*
COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		*		*	
ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		*		*	

7. The Results of CO Attainment:

The Results of CO attainment are provided below.

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

- 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.

Average Marks in External examination:.. 27.00

% Students score more than 27 is 398/583 i.e. 68.27% i.e. Level-3

Average Marks in Internal examination= 17.00

% Students score more than 17 is 412/583= 70.67%, i.e. Level-4

$$A(CO) \text{ 1831UCAD} = 75\% (3) + 25 \% (4) = 2.25 + 1 = 3.25$$

Hence, the attainment level is Level-3 and the set target level is Level-2 and therefore the CO is fully attained. Following table provides details of Course Outcome (CO) attainment levels.



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Table No. 1.1: CO Attainment Level -Bachelor of Commerce (B.Com.)-
Academic Year 2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION -I	1611UCBC	4	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES-I	1612UCES	3	2	Fully Attained	NA
	FOUNDATION COURSE - I	1613UCFC	2.75	2	Fully Attained	NA
	COMMERCE-I (INTRODUCTION TO BUSINESS)	1614UCCM	3.25	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - I	1615UCAF	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1616UCBE	3.5	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES - I	1817UCMS	2.75	2	Fully Attained	NA
II	BUSINESS COMMUNICATION -II	1621UCBC	2.25	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES -II	1622UCES	2.25	2	Fully Attained	NA
	FOUNDATION COURSE -II	1623UCFC	2.5	2	Fully Attained	NA
	COMMERCE - II (SERVICE SECTOR)	1624UCOM	2.5	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - II	1625UCAF	2	2	Fully Attained	NA
	BUSINESS ECONOMICS -II	1626UCBE	2	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES - II	1627UCMS	2	2	Fully Attained	NA
III	FUNDAMENTALS OF ADVERTISING	1731UCAD	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - III	1732UCFC	3	2	Fully Attained	NA
	COMMERCE - III (MANAGEMENT : FUNCTIONS AND CHALLENGES)	1733UCCM	2.25	2	Fully Attained	NA

	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	2.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	2.75	2	Fully Attained	NA
	BUSINESS ECONOMICS - III	1736UCBE	3	2	Fully Attained	NA
	BUSINESS LAW	1737UCBL	2	2	Fully Attained	NA
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	2.25	2	Fully Attained	NA
	FOUNDATION COURSE - IV	1742UCFC	2.25	2	Fully Attained	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCOM	2.25	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	2	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCCA	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - IV	1746UCBE	2	2	Fully Attained	NA
	BUSINESS LAW - II	1747UCBL	3	2	Fully Attained	NA
V	COMMERCE - V (MARKETING)	1853UCOM	2	2	Fully Attained	NA
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.75	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	3.75	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING	1851UCFA	3	2	Fully Attained	NA



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	PAPER - VII - FINANCIAL ACCOUNTING					
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - COST ACCOUNTING	1852UCC A	2.75	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCP S	2.75	2	Fully Attained	NA
	EXPORT MARKETING: FUNDAMENTALS	1856UCE M	3.25	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCC S	2.75	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS RESEARCH	1856UCO R	3.25	2	Fully Attained	NA
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCO M	2	2	Fully Attained	NA
	BUSINESS ECONOMICS- VI	1864UCB E	2.5	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES- PAPER II - INDIRECT TAX	1865UCD T	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX - FINANCIAL ACCOUNTING	1861UCF A	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X - AUDITING	1862UCC A	2.25	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCP S	2.25	2	Fully Attained	NA
	EXPORT	1866UCE	2.25	2	Fully	NA



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	MARKETING: PROCESS AND PROCEDURES	M			Attained	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCC S	1.75	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	ELEMENTS OF OPERATIONS RESEARCH	1866UCO R	2.25	2	Fully Attained	NA
	Average		2.54			
<i>NA: Not applicable as target level is fully attained</i>						

Table No. 1.2: Results of CO-PO attainment
Bachelor of Commerce (B.Com.)- Academic Year 2018-19

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION -I	1611UCBC		4			4	
	ENVIRONMENTAL STUDIES-I	1612UCES					3	
	FOUNDATION COURSE - I	1613UCFC	2.75	2.75			2.75	
	COMMERCE-I (INTRODUCTION TO BUSINESS)	1614UCCM	3.25					3.25
	ACCOUNTANCY AND FINANACIAL MANAGEMENT - I	1615UCAF	2	2	2	2	2	2
	BUSINESS ECONOMICS - I	1616UCBE	3.5	3.5			3.5	
	MATHEMATICAL AND STATISTICAL TECHNIQUES - I	1817UCMS				2.75		
II	BUSINESS COMMUNICATION -II	1621UCBC		2.25			2.25	
	ENVIRONMENTAL STUDIES -II	1622UCES					2.25	
	FOUNDATION COURSE -II	1623UCFC	2.5	2.5			2.5	

	COMMERCE - II (SERVICE SECTOR)	1624UCOM	2.5						2.5
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - II	1625UCAF	2	2	2	2	2		
	BUSINESS ECONOMICS -II	1626UCBE	2	2				2	
	MATHEMATICAL AND STATISTICAL TECHNIQUES - II	1627UCMS					2		
III	FUNDAMENTALS OF ADVERTISING	1731UCAD	3.25					3.25	3.25
	FOUNDATION COURSE - III	1732UCFC		3				3	
	COMMERCE - III (MANAGEMENT : FUNCTIONS AND CHALLENGES)	1733UCCM	2.25					2.25	2.25
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	1734UCAF	2.75		2.75				
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	1835UCCA	2.75		2.75				2.75
	BUSINESS ECONOMICS - III	1736UCBE	3						
	BUSINESS LAW	1737UCBL	2					2	2
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	1841UCAD	2.25					2.25	2.25
	FOUNDATION COURSE - IV	1742UCFC		2.25				2.25	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	1743UCOM	2.25					2.25	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	1744UCAF	2		2				
	FINANCIAL ACCOUNTING AND AUDITING - VI - COST ACCOUNTING	1845UCCA	2						2
	BUSINESS ECONOMICS - IV	1746UCBE	2						
	BUSINESS LAW - II	1747UCBL	3					3	3



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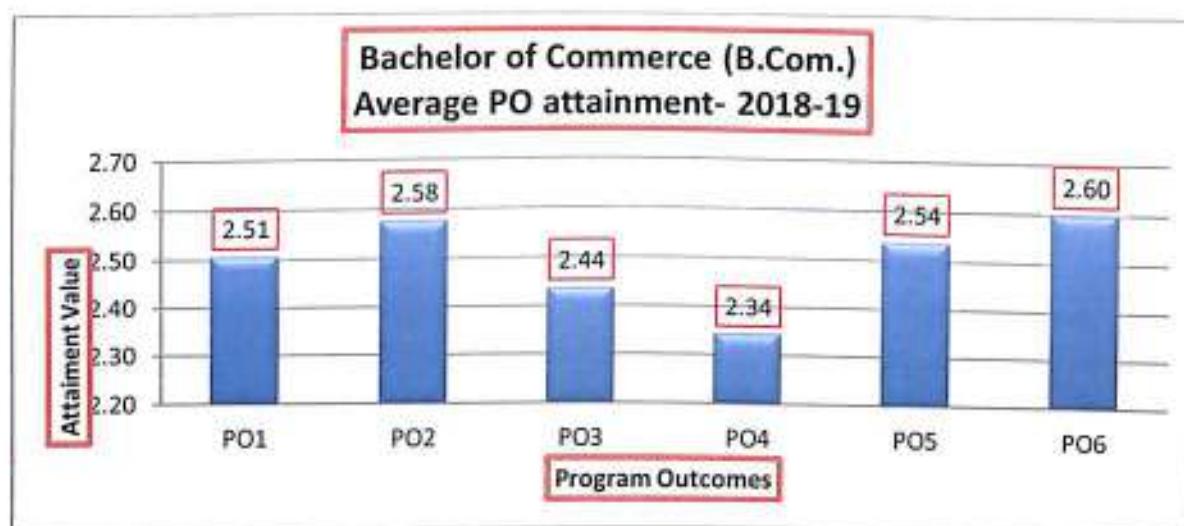
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V	COMMERCE - V (MARKETING)	1853UCOM	2			2	2
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.75				
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	3.75				3.75
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	3		3		
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - COST ACCOUNTING	1852UCCA	2.75	2.75	2.75	2.75	2.75
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					2.75
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	3.25				3.25
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		2.75		2.75	
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR		3.25		3.25	
VI							
	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	2			2	
	BUSINESS ECONOMICS- VI	1864UCBE	2.5				
	DIRECT AND INDIRECT TAXES - PAPER II - INDIRECT TAX	1865UCDT	1.5				3
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX -	1861UCFA	2.25		2.25		2.25


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FINANCIAL ACCOUNTING							
FINANCIAL ACCOUNTING AND AUDITING PAPER- X – AUDITING	1862UCCA	2.25	2.25			2.25	
PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					2.25	
EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	2.25				2.25	
COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		1.75		1.75		
ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		2.25		2.25		
	Average	2.51	2.58	2.44	2.34	2.54	2.60



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

8. The Results of PO Attainment:

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

For example: PO of B.Com

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% (2.54) + 20% (4) = 2.032 + 0.8 = **2.832- Level 5- Excellent**

Target Level was 4. Hence PO attended.

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

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

NA: Not applicable as target level is fully attained

9. Planned Actions for Course Attainment:

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

10. Planned Actions for Program Outcome Attainment:

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

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

Table No.1.3: Attainment level - Undergraduate programs academic year 2018-19

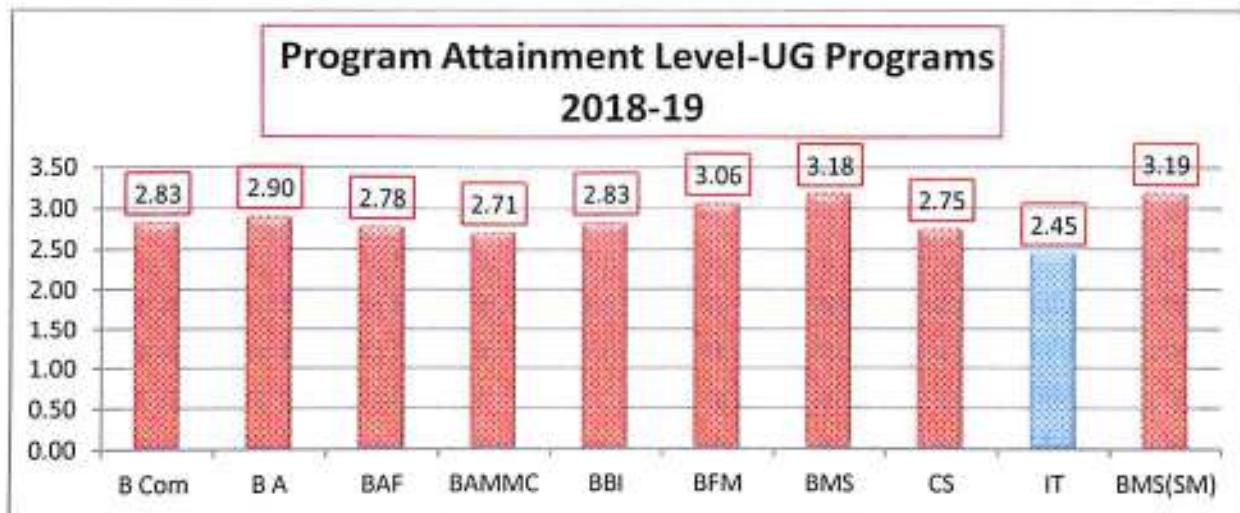
Academic Year- 2018-19	Attainment level - Undergraduate programs						Program Attainment	
	First Year		Second Year		Third Year			
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6		
B Com	3.04	2.21	2.71	2.25	2.92	2.11	2.54 2.54	
B A	3	2.36	2.63	2.78	2.69	2.26	2.62 2.62	
BAF	2.54	2.71	2.39	2.61	2.25	2.33	2.47 2.47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

NA: Not applicable as this course began in this academic year.

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



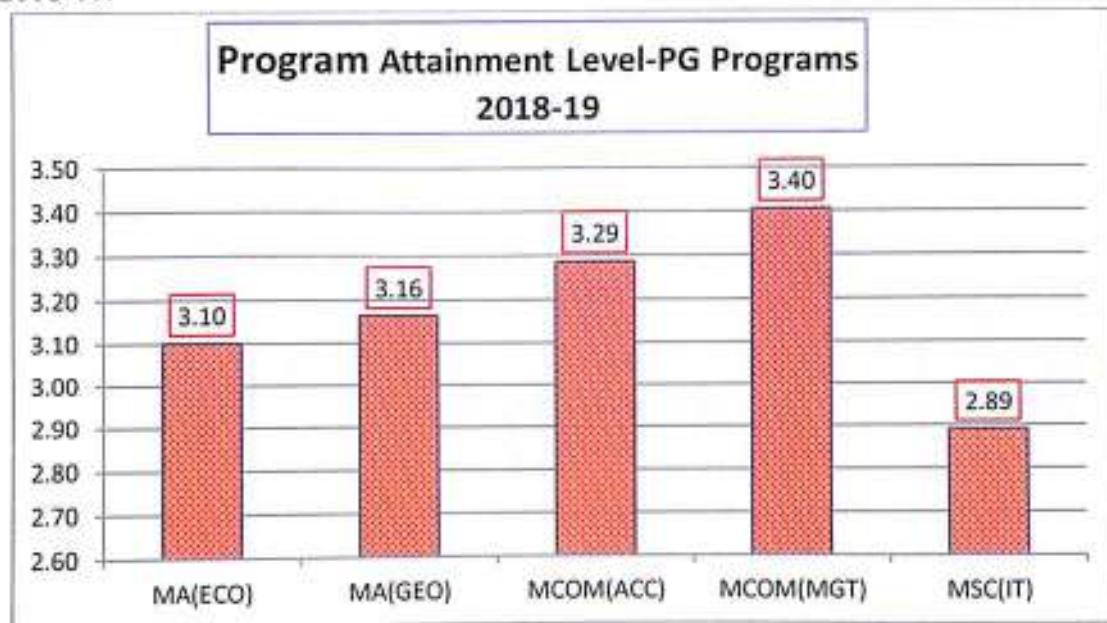
It is observed that program attainment value for all but one program (IT) is greater than or equal to 2.5. This indicates in this academic year, overall attainment of all but one UG programs (IT) is 5 i.e. Excellent. For IT program attainment value is 2.43 (between 2 and 2.5). i.e. Very Good.

In the following table no. 1.4 provides semester wise CO attainment and PO attainment levels of 5 post graduate programs for three academic years.

Table No.1.4: Attainment level - Postgraduate programs academic year 2018-19

Academic Year-2018-19	Attainment level - Postgraduate courses				Program Attainment	
	First Year		Second Year			
	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. 1.2a PO Attainment Level- PG Programs

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
2018-19	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 is greater than Level-4. Hence at present no plans is required

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(AUTONOMOUS)
MALAD (W), MUMBAI - 400 084

ALL UNDER GRADUATE COURSES

ANNEXTURE A

Bachelor of Arts (BA):

Table No. A.1: PO CO Mapping Matrix: Bachelor of Arts (BA)

Academic Year - 2018-19

Se me ste r	Course	Course 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	P S O 1	P S O 2	P S O 3	P S O 4	P S O 1	P S O 2	P S O 3	P S O 4
I	COMMUNICATION SKILLS IN ENGLISH - I	1611U ACS	*	*	*	*												
	FOUNDATION COURSE - I	1612U AFC				*												
	GEOGRAPHY - I (GEOMORPHOLOGY PAPER - I)	1613U AGE	*	*	*	*	*											
	PSYCHOLOGY - I (FUNDAMENTALS OF PSYCHOLOGY PAPER-I)	1614U APS													*	*		
	ECONOMICS - I (MICRO ECONOMICS : PAPER - I)	1615U AEC	*									*	*	*	*			
	HINDI	1616U AHN	*															
	FRENCH	1716U AFR	*															
II	COMMUNICATION SKILLS IN ENGLISH - II	1621U ACS	*	*	*	*												
	FOUNDATION COURSE - II	1622U AFC				*												
	GEOGRAPHY - I (HUMAN GEOGRAPHY)	1723U AGE	*												*	*		
	PSYCHOLOGY	1624U	*	*	*	*	*											



PRINCIPAL

NAGINDAS KHINDWA A COLLEGE OF COMMERCE
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 (AUTONOMOUS)
 MALDI (W), MAZGAON - 400 004

	- I (FUNDAMENTALS OF PSYCHOLOGY PAPER -II)	APS												
	ECONOMICS- I (MACRO ECONOMICS : PAPER - I)	1625U AEC	*							*	*	*	*	
	HINDI	1626U AHN	*											
	FRENCH	1726U AFR	*											
III	Foundation Course - III	1731U AFC			*									
	Advertising	1738U AAD		*										
	Eco-II Microeconomics	1732U AEC	*							*	*			
	Eco-III Indian Economy	1733U AEC	*								*	*		
	An Intro to Climatology	1734U AGE	*									*	*	
	Physical Geography of India	1735U AGE	*									*		
	Social Psychology	1736U APS	*		*	*	*	*			*			
	Developmental Psychology	1737U APS	*		*	*	*	*			*			
IV	Foundation Course -IV	1741U AFC			*									
	Advertising	1748U AAD		*										
	Eco II Macroeconomics	1742U AEC	*							*	*			
	Eco III Maharashtra Economy	173UA EC	*								*	*		
	Intro to Oceanography	1744U AGE	*									*	*	
	Agricultural Geography of India	1745U AGE	*									*	*	
	Social Psychology	1746U APS	*		*	*	*	*						

[Signature]

**NAGINDEV KHANNA COLLEGE OF COMMERCE
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NAGINDAS KHANNA COLLEGE OF SCIENCE
& TECHNOLOGY
MALAD (E), MUMBAI - 400 004**

	Developmental Psychology	1747U APS	*	*	*	*	*						
V (Eco)	MICROECONOMICS - III	1851U AMI	*						*	*	*	*	
	ECONOMICS OF DEVELOPMENT	1852U AED				*			*	*	*	*	
	ECONOMICS OF AGRICULTURE AND CO-OPERATION	1853U AAC		*					*	*	*	*	
	RESEARCH METHODOLOGY	1854U ARM		*		*			*	*	*	*	
	ENVIRONMENTAL ECONOMICS	1855U AEV		*					*	*	*	*	
	HISTORY OF ECONOMIC THOUGHT	1856U AET		*					*	*	*	*	
VI (Eco)	ECONOMICS- IV (MACROECONOMICS- III)	1861U AMA							*	*	*	*	
	ECONOMICS- V (INTERNATIONAL ECONOMICS)	1862U AIE				*			*	*	*	*	
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM)	1863U AFS		*		*			*	*	*	*	
	ECONOMICS- VII (RESEARCH METHODOLOGY)	1864U ARM		*		*			*	*	*	*	
	ECONOMICS- VIII (DEVELOPMENT THEORY AND	1865U ADT		*					*	*	*	*	

	EXPERIENCE)										
	ECONOMICS-IX (INTERNATIONAL TRADE, POLICY AND PRACTICE)	1866U AIP	*					*	*	*	*
V (Geo g)	GEOGRAPHY OF SETTLEMENTS	1851U AGS	*							*	
	POPULATION GEOGRAPHY	1852U APG	*							*	*
	TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I	1853U ASA	*	*	*						*
	REGIONAL PLANNING AND DEVELOPMENT	1854U APD	*							*	*
	GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT	1855U ADM	*							*	*
	GEOSPATIAL TECHNOLOGY	1856U AGT	*	*	*						*
VI (Geo g)	GEOGRAPHY-IV (ENVIRONMENTAL - GEOGRAPHY)	1861U AEG	*		*					*	*
	GEOGRAPHY-V (GEOGRAPHY OF TOURISM AND RECREATION)	1862U ATR	*							*	*
	GEOGRAPHY-VI (TOOLS AND)	1863U ASA	*	*							*



PRINCIPAL

NAGINDAS KHANJWALA COLLEGE OF COMMERCE
ARTS & MANAGEMENT (UNDEP AND SHAIKHAZEE)
NAGINDAS KHANJWALA COLLEGE OF SCIENCE
(AUTONOMOUS)
MALAD (W), MUMBAI - 400 064

	TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II)									
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	1864U AEG	*						*	*
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	1865U ASG	*						*	*
	GEOGRAPHY- IX (RESEARCH METHODOLO GY IN GEOGRAPHY)	1861U APJ	*	*	*					*
V (P sy)	PSYCHOLOGIC AL TESTING AND STATISTICS	1851U ATS	*	*	*	*	*			
	ABNORMAL PSYCHOLOGY	1852U AAB	*	*	*	*	*	*	*	
	INDUSTRIAL PSYCHOLOGY	1853U AIO	*	*	*	*	*	*	*	
	COGNITIVE PSYCHOLOGY	1854U ACO	*	*	*	*	*	*	*	
	PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGIC AL TESTING	1855U APT	*	*	*	*	*			
	COUNSELING PSYCHOLOGY	1856U ACP	*	*	*	*	*	*	*	
VI (P sy)	PSYCHOLOGY - IV (PSYCHOLOGI CAL TESTING AND STATISTICS)	1861U ATS	*	*	*	*	*			
	PSYCHOLOGY - V (ABNORMAL PSYCHOLOGY)	1862U AAS	*	*	*	*	*	*	*	

)	PSYCHOLOGY - VI (INDUSTRIAL PSYCHOLOGY)	1863U AIO	*	*	*	*	*	*	*				
)	PSYCHOLOGY - VII (COGNITIVE PSYCHOLOGY)	1864U ACO	*	*	*	*	*	*	*				
)	PSYCHOLOGY - VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGIC AL TESTING)	1865U APT	*	*	*	*	*	*					
)	PSYCHOLOGY - IX (COUNSELING PSYCHOLOGY)	1866U ACP	*	*	*	*	*	*	*				

Table No. A.2: CO Attainment Level -Bachelor of Arts (B.A.)-
Academic Year 2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS IN ENGLISH - I	1611UACS	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UAFC	2.5	2	Fully Attained	NA
	GEOGRAPHY - I (GEOMORPHOLOGY PAPER - I)	1613UAGE	2	2	Fully Attained	NA
	PSYCHOLOGY - I (FUNDAMENTALS OF PSYCHOLOGY PAPER-I)	1614UAPS	3	2	Fully Attained	NA
	ECONOMICS - I (MICRO ECONOMICS : PAPER - I)	1615UAEC	3.5	2	Fully Attained	NA
	HINDI	1616UAHN	3	2	Fully Attained	NA

	FRENCH	1716UAFR	3.75	2	Fully Attained	NA
II	COMMUNICATION SKILLS IN ENGLISH -II	1621UACS	3.25	2	Fully Attained	NA
	FOUNDATION COURSE -II	1622UAFC	2.25	2	Fully Attained	NA
	GEOGRAPHY- I (HUMAN GEOGRAPHY)	1723UAGE	2	2	Fully Attained	NA
	PSYCHOLOGY- I (FUNDAMENTALS OF PSYCHOLOGY PAPER -II)	1624UAPS	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ECONOMICS- I (MACRO ECONOMICS : PAPER - I)	1625UAEC	2	2	Fully Attained	NA
	HINDI	1626UAHN	2.25	2	Fully Attained	NA
	FRENCH	1726UAFR	3.25	2	Fully Attained	NA
III	FOUNDATION COURSE - III	1731UAFC	3.25	2	Fully Attained	NA
	ADVERTISING	1738UAAD	2.25	2	Fully Attained	NA
	ECO-II MICROECONOMICS	1732UAEC	2.25	2	Fully Attained	NA
	ECO-III INDIAN ECONOMY	1733UAEC	2.75	2	Fully Attained	NA
	AN INTRO TO CLIMATOLOGY	1734UAGE	3.5	2	Fully Attained	NA
	PHYSICAL GEOGRAPHY OF INDIA	1735UAGE	3	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	1736UAPS	2	2	Fully Attained	NA
	DEVELOPMENTAL PSYCHOLOGY	1737UAPS	2	2	Fully Attained	NA
IV	FOUNDATION COURSE -IV	1741UAFC	3.75	2	Fully Attained	NA
	ADVERTISING	1748UAAD	2.5	2	Fully Attained	NA
	ECO II MACROECONOMICS	1742UAEC	2.25	2	Fully Attained	NA
	ECO III	173UAEC	3	2	Fully	NA


PRINCIPAL

NAGINDAS KHANDWALA COLLEGE OF COMMERCE
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 MALAD (W), MUMBAI - 400 084

	MAHARASHTRA ECONOMY				Attained	
	INTRO TO OCEANOGRAPHY	1744UAGE	3	2	Fully Attained	NA
	AGRICULTURAL GEOGRAPHY OF INDIA	1745UAGE	3	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	1746UAPS	2	2	Not Attained	NA
	DEVELOPMENTAL PSYCHOLOGY	1747UAPS	2.75	2	Fully Attained	NA
V (Eco)	MICROECONOMIC S - III	1851UAMI	2.5	2	Fully Attained	NA
	ECONOMICS OF DEVELOPMENT	1852UAED	3	2	Fully Attained	NA
	ECONOMICS OF AGRICULTURE AND CO-OPERATION	1853UAAC	2	2	Fully Attained	NA
	RESEARCH METHODOLOGY	1854UARM	2	2	Fully Attained	NA
	ENVIRONMENTAL ECONOMICS	1855UAEV	2.5	2	Fully Attained	NA
	HISTORY OF ECONOMIC THOUGHT	1856UAET	2.75	2	Fully Attained	NA
VI (Eco)	ECONOMICS- IV (MACROECONOMICS- III)	1861UAMA	2	2	Fully Attained	NA
	ECONOMICS- V (INTERNATIONAL ECONOMICS)	1862UAIE	2.25	2	Fully Attained	NA
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM)	1863UAFS	2	2	Fully Attained	NA
	ECONOMICS- VII (RESEARCH METHODOLOGY)	1864UARM	2	2	Fully Attained	NA
	ECONOMICS- VIII (DEVELOPMENT THEORY AND EXPERIENCE)	1865UADT	2.25	2	Fully Attained	NA
	ECONOMICS- IX (INTERNATIONAL TRADE, POLICY AND PRACTICE)	1866UAIP	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
V	GEOGRAPHY OF	1851UAGS	3	2	Fully	NA


PRINCIPAL

NAGINDAS KHEDWALA COLLEGE OF COMMERCE
 ARTS & MANAGEMENT, MUMBAI (M.G.R.E.A.C.B.S.)
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 (AUTONOMOUS)
 MALAD (W), MUMBAI - 400 064

(Geo)	SETTLEMENTS				Attained	
	POPULATION GEOGRAPHY	1852UAPG	2.25	2	Fully Attained	NA
	TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I	1853UASA	2.75	2	Fully Attained	NA
	REGIONAL PLANNING AND DEVELOPMENT	1854UAPD	3.75	2	Fully Attained	NA
	GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT	1855UADM	3.75	2	Fully Attained	NA
	GEOSPATIAL TECHNOLOGY	1856UAGT	3.75	2	Fully Attained	NA
VI (Geo)	GEOGRAPHY- IV (ENVIRONMENTAL -GEOGRAPHY)	1861UAEG	2	2	Fully Attained	NA
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	1862UATR	2	2	Fully Attained	NA
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II)	1863UASA	4	2	Fully Attained	NA
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	1864UAEG	3.25	2	Fully Attained	NA
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	1865UASG	2.25	2	Fully Attained	NA
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	1861UAPJ	4	2	Fully Attained	NA
V (Psy)	PSYCHOLOGICAL TESTING AND STATISTICS	1851UATS	3	2	Fully Attained	NA
	ABNORMAL PSYCHOLOGY	1852UAAB	2.25	2	Fully Attained	NA
	INDUSTRIAL PSYCHOLOGY	1853UAIO	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall
	COGNITIVE PSYCHOLOGY	1854UACO	1.5	2	Not Attained	


PRINCIPAL

NAGINDAS KHAN COLLEGE OF COMMERCE
 ARTS & MANAGEMENT - 11, P. C. ROAD, MUMBAI
 NAGINDAS KHAN COLLEGE OF SCIENCE
 (E.C.I.D.)

MAIL ID: nccm@rediffmail.com - 400 004

						be planned.
	PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING	1855UAPT	3	2	Fully Attained	NA
	COUNSELING PSYCHOLOGY	1856UACP	3	2	Fully Attained	NA
VI (Psy)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	1861UATS	2.25	2	Fully Attained	NA
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	1862UAAS	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	1863UAIO	2	2	Fully Attained	NA
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	1864UACO	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1865UAPT	2	2	Fully Attained	NA
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	1866UACP	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Average	2.55				

NA: Not Applicable as target level is fully attained

Table No.A.2a: PO Attainment Level- BA
Academic Year 2018-19

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

NA: Not Applicable as target level is fully attained

PRINCIPAL

NAGINDAS KHANJANIYA COLLEGE OF COMMERCE
ARTS & MANAGEMENT FACULTY OF SCIENCE
NAGINDAS KHANJANIYA COLLEGE OF SCIENCE
(AUTONOMOUS)
MALAD (W), MUMBAI - 400 034

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

**Table No. A.3: Results of CO-PO attainment-Bachelor of Arts (BA)-
Academic Year 2018-19**

Semester	Course	Course 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	P S 1	P S 2	P S 3	P S O 1	P S O 2	P S O 3	P S O 4	P S O 1	P S O 2	P S O 3	P S O 4	
I	COMMUNICATION SKILLS IN ENGLISH - I	1611UACS	3 . 2 5	3 . 2 5	3 . 2 5														
	FOUNDATION COURSE - I	1612UAFC				2 . 5													
	GEOGRAPHY - I (GEOMORPHOLOGY PAPER - I)	1613UAGE	2	2	2	2	2												
	PSYCHOLOGY - I (FUNDAMENTALS OF PSYCHOLOGY PAPER-I)	1614UAPS		3		3										3		3	
	ECONOMICS - I (MICRO ECONOMICS : PAPER - I)	1615UAEC	3 . 5								3. 5	3. 5	3. 5	3. 5					
	HINDI	1616UAHN	3																
II	FRENCH	1716UAFR	3 . 7 5																
	COMMUNICATION SKILLS IN ENGLISH - II	1621UACS	3 . 2 5	3 . 2 5	3 . 2 5														
	FOUNDATION COURSE -II	1622UAFC				2 . 5													
	GEOGRAPHY- I	1723UAGE	2													2	2		

PRINCIPAL

NAGINDAS KHANNA COLLEGE OF COMMERCE
ARTS & MANAGEMENT, MUMBAI AND MUMBAI
NAGINDAS KHANNA COLLEGE OF SCIENCE
(INTERCOLLEGES)
MALAD (W), MUMBAI - 400 084

	(HUMAN GEOGRAPHY)											
	PSYCHOLOGY- I (FUNDAMENTALS OF PSYCHOLOGY PAPER -II)	1624UAPS	1 5	1 5	1 5	1 5						
	ECONOMICS- I (MACRO ECONOMICS : PAPER - I)	1625UAEC		2					2	2	2	2
	HINDI	1626UAHN	2 5									
	FRENCH	1726UAFR	3 2 5									
III	FOUNDATION COURSE - III	1731UAFC			3 2 5							
	ADVERTISING	1738UAAD		2 2 5								
	ECO-II MICROECONOMICS	1732UAEC	2 2 5					2 2 5	2 2 5			
	ECO-III INDIAN ECONOMY	1733UAEC	2 7 5						2 7 5	2 7 5		
	AN INTRO TO CLIMATOLOGY	1734UAGE	3 5							3 5	3 5	
	PHYSICAL GEOGRAPHY OF INDIA	1735UAGE	3							3		
	SOCIAL PSYCHOLOGY	1736UAPS	2	2	2	2	2					
	DEVELOPMENTAL PSYCHOLOGY	1737UAPS	2	2	2	2	2					
	FOUNDATION COURSE - IV	1741UAFC			3 7 5							

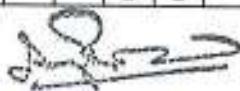

PRINCIPAL

NAGINDAR KHAN COLLEGE OF COMMERCE
 ARTS & MANAGEMENT UNIVERSITY OF JALANDHAR, PUNJAB
 NAGINDAR KHAN COLLEGE OF SCIENCE
 UNIVERSITY OF PUNJAB
 MALO (W) 1600324-460004

V (Eco)	ADVERTISING	1748UAAD		2 5									
	ECO II MACROECONOMICS	1742UAEC	2 2 5					2 2 5	2 2 5				
	ECO III MAHARASHTRA ECONOMY	173UAEC	3							3	3		
	INTRO TO OCEANOGRAPHY	1744UAGE	3								3	3	
	AGRICULTURAL GEOGRAPHY OF INDIA	1745UAGE	3								3	3	
	SOCIAL PSYCHOLOGY	1746UAPS	2 7 5	2 7 5	2 7 5	2 75	2 75						
	DEVELOPMENTAL PSYCHOLOGY	1747UAPS											
	MICROECONOMICS - III	1851UAMI	2 5						2 5	2 5	2 5	2 5	
VI (Eco)	ECONOMICS OF DEVELOPMENT	1852UAED	3		3				3	3	3	3	
	ECONOMICS OF AGRICULTURE AND CO-OPERATION	1853UAAC											
	RESEARCH METHODOLOGY	1854UARM	2	2					2	2	2	2	
	ENVIRONMENTAL ECONOMICS	1855UAEV	2 5						2 5	2 5	2 5	2 5	
	HISTORY OF ECONOMIC THOUGHT	1856UAET	2 7 5						2 7	2 7	2 7	2 7	
	ECONOMICS- IV (MACROECONOMICS- III)	1861UAMA							2	2	2	2	
	ECONOMICS- V (INTERNATIONAL ECONOMICS)	1862UAIE	2 2 5		2 2 5				2 2 5	2 2 5	2 2 5	2 2 5	
	ECONOMICS- VI (INDIAN)	1863UAFS	2	2					2	2	2	2	



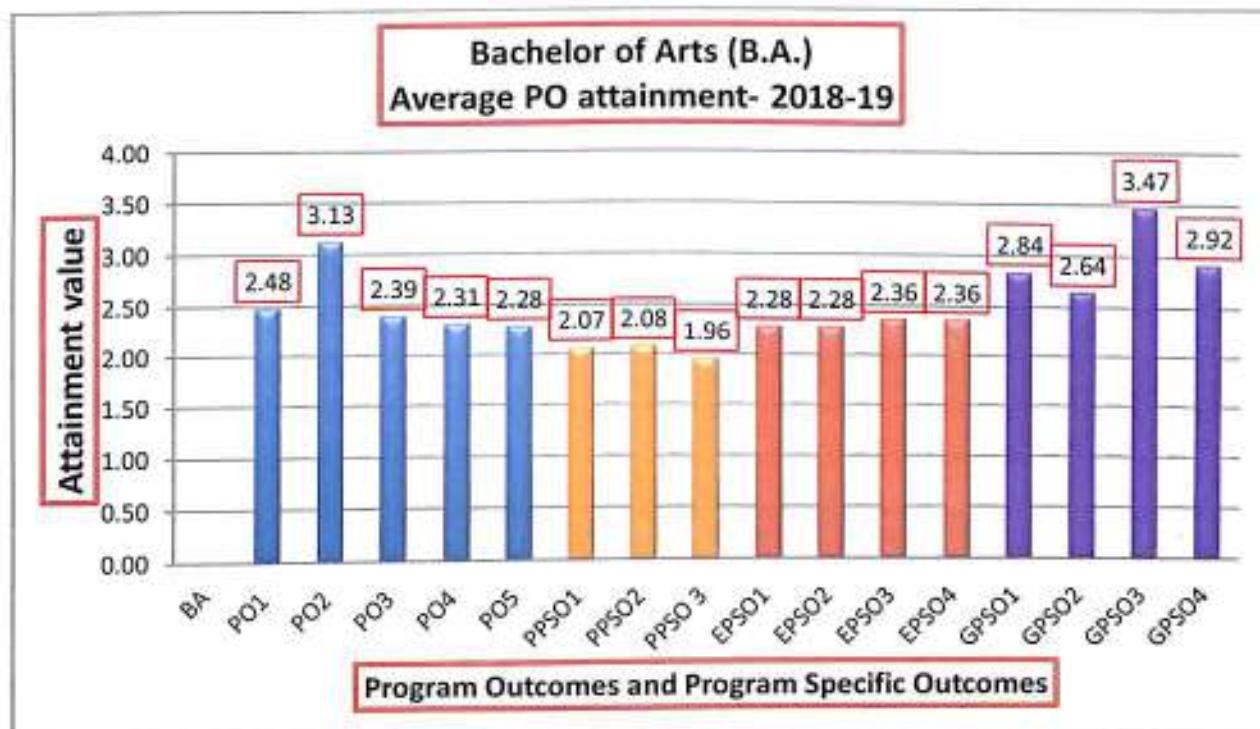
	FINANCIAL SYSTEM)								
	ECONOMICS- VII (RESEARCH METHODOLOGY)	1864UARM	2	2			2	2	2
	ECONOMICS- VIII (DEVELOPMENT THEORY AND EXPERIENCE)	1865UADT	2 + 2 5				2 2 5	2 2 5	2 2 5
	ECONOMICS- IX (INTERNATIONAL TRADE, POLICY AND PRACTICE)	1866UAIP	1 + 2 5				1 2 5	1 2 5	1 2 5
	GEOGRAPHY OF SETTLEMENTS	1851UAGS	3						3
V (Geog)	POPULATION GEOGRAPHY	1852UAPG	2 + 2 5						2, 2 5
	TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I	1853UASA	2 + 7 5	2 + 7 5	2 + 7 5				2, 7 5
	REGIONAL PLANNING AND DEVELOPMENT	1854UAPD	3 + 7 5						3, 7 5
	GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT	1855UADM	3 + 7 5						3, 7 5
	GEOSPATIAL TECHNOLOGY	1856UAGT	3 + 7 5	3 + 7 5	3 + 7 5				3, 7 5
	GEOGRAPHY- IV (ENVIRONMENTAL - GEOGRAPHY)	1861UAEG	2		2				2
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	1862UATR	2						2



10

PRINCIPAL
NAGINDAS KHANDWALA COLLEGE OF COMMERCE
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	VI (INDUSTRIAL PSYCHOLOGY)														
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	1864UACO	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 2 5	1 2 5	1 2 5		
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	1865UAPT	2	2	2		2	2							
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	1866UACP	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 2 5	1 2 5	1 2 5		
		Average	2 4 8	3 1 3	2 3 9	2 3 1	2 2 8	2 07 07	2 08 08	1 96 96	2 2 8	2 2 8	2 3 6	2 4 7	2 4 2



From above graph, it is observed that average PO attainment value for all but one 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. In fact in some cases it is at excellent level (value greater than 2.5).

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ANNEXURE 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 - 2018-19

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION - I	1611UAFBC	*	*		*		*
	FOUNDATION COURSE - I	1612UAFFC	*	*		*	*	
	COMMERCE (BUSINESS ENVIRONMENT) - I	1613UAFBV	*	*		*	*	*
	BUSINESS ECONOMICS - I	1614UAFBE	*	*		*	*	
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	1615UAFFA						
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	1616UAFCA						*
	BUSINESS MATHEMATICS	1717UAFBM	*		*	*		*
II	BUSINESS COMMUNICATION - II	1621UAFBC	*	*		*		*
	FOUNDATION COURSE - II	1622UAFFC	*	*		*	*	
	BUSINESS LAW - I	1623UAFBL	*	*	*	*	*	
	FINANCIAL MANAGEMENT - I	1724UAFFM	*	*	*	*		*
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFFA						*
	AUDITING - I (INTRODUCTION AND	1626UAFAD	*	*	*	*	*	*

	PLANNING)						
	TAXATION- I (INDIRECT TAXES I)	1627UAFTX	*	*	*	*	*
III	FINANCIAL ACCOUNTING - III	1731UAFFA	*	*	*		*
	COST ACCOUNTING - II	1732UAFCA	*	*	*		*
	AUDITING - II	1733UAFAD	*	*	*	*	*
	BUSINESS LAW - II	1734UAFBL	*	*	*	*	*
	ECONOMICS - II	1735UAFEO	*	*		*	*
	INFORMATION TECHNOLOGY IN ACCOUNTANCY - I	1736UAFIT	*	*	*	*	*
	FOUNDATION COURSE IN COMMERCE - III	1737UAFFC	*		*	*	*
IV	FINANCIAL ACCOUNTING - IV	1741UAFFA	*	*	*		*
	MANAGEMENT ACCOUNTING	1742UAFM A	*	*	*	*	*
	TAXATION -II	1743UAFTX	*	*	*	*	*
	BUSINESS LAW -III	1744UAFBL	*	*	*	*	*
	RESEARCH						
	METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFRM	*	*	*	*	*
	INFORMATION TECHNOLOGY IN ACCOUNTING -II	1746UAFIT	*	*	*		*
V	FOUNDATION COURSE IN COMMERCE - IV	1747UAFFC	*	*	*	*	*
	COST ACCOUNTING - III	1851UAFCA	*	*	*	*	*
	FINANCIAL MANAGEMENT - II	1852UAFFM	*	*	*	*	*
	TAXATION - III	1853UAFTX	*	*	*	*	*
	MANAGEMENT APPLICATIONS	1854UAFM A	*	*		*	*
	FINANCIAL ACCOUNTING - V	1855UAFFA 5	*	*	*		*
VI	FINANCIAL ACCOUNTING - VI	1856UAFFA 6	*	*	*		*
	COST ACCOUNTING- IV	1861UAFCA	*	*	*		*


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	FINANCIAL MANAGEMENT- III	1862UAFFM	*	*	*	*	*	*
	TAXATION - IV (INDIRECT TAXES-III)	1863UAFTX	*	*	*	*	*	*
	ECONOMICS - III (INDIAN ECONOMY)	1864UAFEC	*	*		*	*	*
	FINANCIAL ACCOUNTING- VII	1865UAFFA	*		*	*		*
	PROJECT WORK IN ACCOUNTING AND FINANCE	1866UAFPW	*	*	*	*	*	*

**Table No. B.2: CO Attainment Level - B.Com. (Accounting and Finance) (BAF)-
Academic Year 2018-19**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained / Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	1611UAFBC	2.75	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UAFFC	2.25	2	Fully Attained	NA
	COMMERCE (BUSINESS ENVIRONMENT) - I	1613UAFCO	3	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1614UAFBE	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	1615UAFFA	2.5	2	Fully Attained	NA
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	1616UAFCA	2.5	2	Fully Attained	NA
	BUSINESS MATHEMATICS	1717UAFBM	2.25	2	Fully Attained	NA
II	BUSINESS COMMUNICATION	1621UAFBC	3	2	Fully Attained	NA

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	N - II					
	FOUNDATION COURSE - II	1622UAFFC	2.5	2	Fully Attained	NA
	BUSINESS LAW - I	1623UAFBL	3.75	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - I	1724UAFFM	2.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFFA	3	2	Fully Attained	NA
	AUDITING - I (INTRODUCTION AND PLANNING)	1626UAFA D	2.25	2	Fully Attained	NA
	TAXATION- I (INDIRECT TAXES I)	1627UAFTX	2.25	2	Fully Attained	NA
III	FINANCIAL ACCOUNTING - III	1731UAFFA	2.5	2	Fully Attained	NA
	COST ACCOUNTING - II	1732UAFC A	2.25	2	Fully Attained	NA
	AUDITING - II	1733UAFA D	2.5	2	Fully Attained	NA
	BUSINESS LAW - II	1734UAFBL	2.5	2	Fully Attained	NA
	ECONOMICS - II	1735UAFEO	2.5	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTANCY - I	1736UAFIT	2.25	2	Fully Attained	NA
	FOUNDATION COURSE IN COMMERCE - III	1737UAFFC	2.25	2	Fully Attained	NA
IV	FINANCIAL ACCOUNTING - IV	1741UAFFA	2.5	2	Fully Attained	NA
	MANAGEMENT ACCOUNTING	1742UAFMA	2.5	2	Fully Attained	NA
	TAXATION -II	143UAFTX	3	2	Fully Attained	NA



	BUSINESS LAW - III	1744UAFBL	3.25	2	Fully Attained	NA
	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFR M	2.25	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING -II	1746UAFIT	2.5	2	Fully Attained	NA
	FOUNDATION COURSE IN COMMERCE - IV	1747UAFFC	2.25	2	Fully Attained	NA
V	COST ACCOUNTING - III	1851UAFC A	2	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - II	1852UAFF M	2.25	2	Fully Attained	NA
	TAXATION - III	1853UAFTX	3	2	Fully Attained	NA
	MANAGEMENT APPLICATIONS	1854UAFM A	1.5	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL ACCOUNTING - V	1855UAFFA 5	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - VI	1856UAFFA 6	2.25	2	Fully Attained	NA
VI	COST ACCOUNTING- IV	1861UAFC A	1.25	2	Not Attained	Assignment s, tutorials, exercises and remedial coaching shall be planned.
	FINANCIAL MANAGEMENT- III	1862UAFF M	2.5	2	Fully Attained	NA

	TAXATION - IV (INDIRECT TAXES-III)	1863UAFTX	2.5	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY)	1864UAFEC	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING- VII	1865UAFFA	2.25	2	Fully Attained	NA
	PROJECT WORK IN ACCOUNTING AND FINANCE	1866UAFP W	3	2	Fully Attained	NA
	Average	2.48				

NA: Not Applicable as target level is fully attained

**Table No.B.2a: PO Attainment Level- B.Com. (Accounting and Finance) (BAF)-
Academic Year 2018-19**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is 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 2018-19**

Sem ester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION -1	1611UAFBC	2.75	2.75		2.75		2.75
	FOUNDATION COURSE - 1	1612UAFFC	2.25	2.25		2.25	2.25	
	COMMERCE (BUSINESS ENVIRONMENT) - 1	1613UAFCO	3	3		3	3	3

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	BUSINESS ECONOMICS - I	1614UAFBE	2.5	2.5		2.5	2.5	
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	1615UAFFA	2.5		2.5	2.5		2.5
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	1616UAFCA	2.5		2.5			2.5
	BUSINESS MATHEMATICS	1717UAFBM	2.25		2.25	2.25		2.25
II	BUSINESS COMMUNICATION - II	1621UAFBC	3	3		3		3
	FOUNDATION COURSE - II	1622UAFFC	2.5	2.5		2.5	2.5	
	BUSINESS LAW - I	1623UAFBL	3.75	3.75	3.75	3.75	3.75	
	FINANCIAL MANAGEMENT - I	1724UAFFM	2.25	2.25	2.25	2.25		2.25
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	1625UAFFA	3		3	3		3
	AUDITING - I (INTRODUCTION AND PLANNING)	1626UAFAD	2.25	2.25	2.25	2.25	2.25	2.25
	TAXATION - I (INDIRECT TAXES I)	1627UAFTX	2.25		2.25	2.25	2.25	2.25
III	FINANCIAL ACCOUNTING - III	1731UAFFA	2.5		2.5	2.5		2.5
	COST ACCOUNTING - II	1732UAFCA	2.25		2.25	2.25		2.25
	AUDITING - II	1733UAFAD	2.5	2.5	2.5	2.5	2.5	2.5
	BUSINESS LAW - II	1734UAFBL	2.5	2.5	2.5	2.5	2.5	
	ECONOMICS - II	1735UAFEO	2.5	2.5		2.5	2.5	

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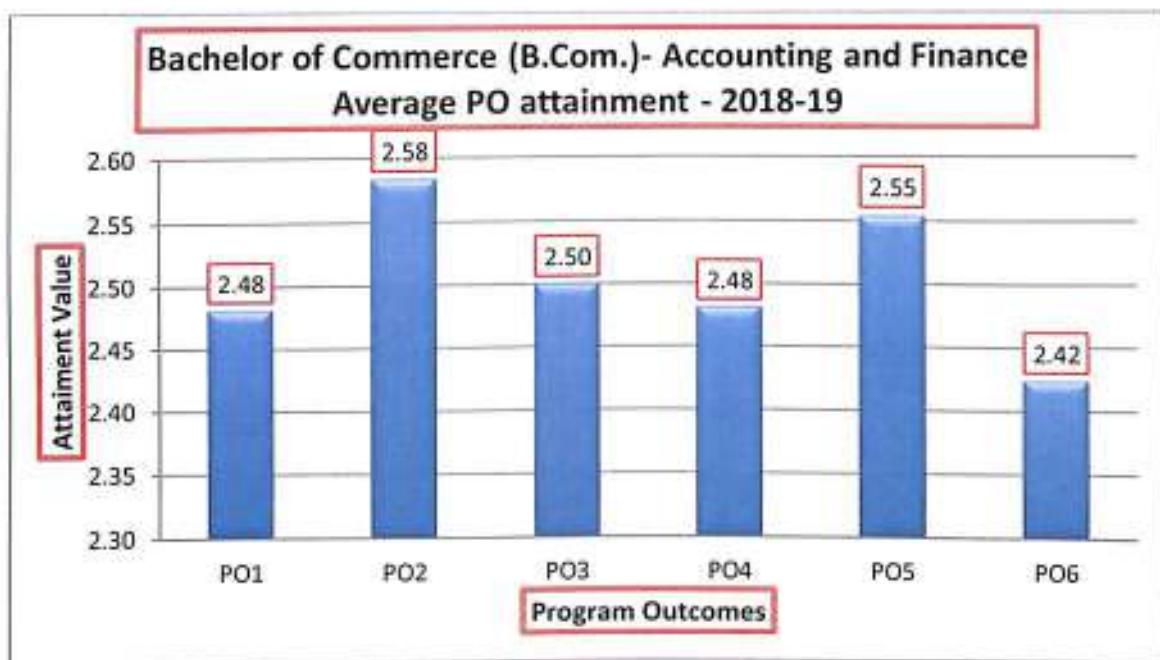
	INFORMATION TECHNOLOGY IN ACCOUNTANCY - I	1736UAFIT	2.25	2.25	2.25	2.25		2.25
	FOUNDATION COURSE IN COMMERCE - III	1737UAFFC	2.25			2.25	2.25	2.25
IV	FINANCIAL ACCOUNTING - IV	1741UAFFA	2.5		2.5	2.5		2.5
	MANAGEMENT ACCOUNTING	1742UAFMA	2.5		2.5	2.5	2.5	2.5
	TAXATION - II	1743UAFTX	3	3	3	3	3	3
	BUSINESS LAW - III	1744UAFBL	3.25	3.25	3.25	3.25	3.25	
	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	1745UAFRM	2.25	2.25		2.25	2.25	2.25
	INFORMATION TECHNOLOGY IN ACCOUNTING - II	1746UAFIT	2.5	2.5	2.5	2.5		2.5
	FOUNDATION COURSE IN COMMERCE - IV	1747UAFFC	2.25	2.25		2.25	2.25	2.25
V	COST ACCOUNTING - III	1851UAFCA	2		2	2		2
	FINANCIAL MANAGEMENT - II	1852UAFFM	2.25	2.25	2.25	2.25	2.25	2.25
	TAXATION - III	1853UAFTX	3	3	3	3	3	3
	MANAGEMENT APPLICATIONS	1854UAFMA	1.5	1.5		1.5	1.5	1.5
	FINANCIAL ACCOUNTING - V	1855UAFFA5	2.5		2.5	2.5		2.5
	FINANCIAL ACCOUNTING - VI	1856UAFFA6	2.25		2.25	2.25		2.25
VI	COST ACCOUNTING- IV	1861UAFCA	1.25		1.25	1.25		1.25
	FINANCIAL MANAGEMENT- III	1862UAFFM	2.5		2.5	2.5	2.5	2.5
	TAXATION - IV (INDIRECT TAXES- III)	1863UAFTX	2.5	2.5	2.5	2.5	2.5	2.5



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	ECONOMICS - III (INDIAN ECONOMY)	1864UAFEC	2.5	2.5		2.5	2.5	2.5
	FINANCIAL ACCOUNTING- VII	1865UAFFA	2.25		2.25	2.25		2.25
	PROJECT WORK IN ACCOUNTING AND FINANCE	1866UAFPW	3	3	3	3	3	3
	Average		2.48	2.58	2.50	2.48	2.55	2.42



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

ANNEXURE C

Bachelor of Mass Media (BMM)

Table No. C.1: PO CO Mapping Matrix: Bachelor of Mass Media (BMM)

Academic Year - 2018-19

Semester	Course	Course Code							Programme Specific Outcomes (Journalism)						Programme Specific Outcomes (Advertising)						
			P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	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 1	P S O 2	P S O 3	P S O 4	P S O 5	P S O 6	
I	MASS COMMUNICATION	1611UM MMC	*	*	*	*															
	EFFECTIVE COMMUNICATION -I	1612UM MEC	*	*																	
	LANDMARK EVENTS IN 20TH CENTURY WORLD, INDIA AND MAHARASHTRA	1713UM MLE	*	*	*	*															
	INTRODUCTION TO ECONOMICS	1614UM MIE	*	*	*			*													
	INTRODUCTION TO SOCIOLOGY	1615UM MIS	*	*	*																
	INTRODUCTION TO COMPUTERS	1616UM MIC	*	*					*	*											
II	EFFECTIVE COMMUNICATION -II	1621UM MEC	*	*	*			*													
	POLITICAL CONCEPTS AND	1622UM MPC	*	*	*	*	*	*													



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THE INDIA N POLITICA L SYSTEM														
INTRO DUCTI ON TO LITER ATURE	1623UM MIL	*	*											
PRINC IPLES OF MARK ETING	1624UM MPMK	*	*	*	*	*	*	*						
MEDIA PSYCHOL OGY	1625UM MPSY	*	*	*	*	*	*							
PRINCIPL ES OF MANAGE MENT	1626UM MPMG	*					*							
MEDIA STUDIES	1731UM MMS	*	*	*	*	*	*							
UNDERST ANDING CINEMA	1732UM MUC	*	*	*	*	*	*							
CREATIVE WRITING	1733UM MCW	*	*	*	*	*	*							
III	INTRO DUCTI ON TO PUBLI C RELATIO NS	1734UM MPR	*	*	*	*	*	*						
ADVA NCED COMP UTERS	1736UM MAC	*	*	*	*	*	*							
INTRO DUCTI ON TO JOURN ALISM	1741UM MIJ					*	*	*	*	*	*	*	*	*
INTRODU CTION TO ADVER TISING	1742UM MIA													
PHOTOG RAPHY AND														



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	PRINT PRODUCTION	1743UM MPPP	*	*	*	*	*	*												
IV	TV AND RADIO	1744UM MRTV	*	*	*	*	*	*												
	MASS MEDIA RESEARCH	1745UM MMMR	*	*	*	*	*	*												
	ORGANISATIONAL BEHAVIOR	1746UM MOB	*	*	*		*													
V	MEDIA PLANNING AND BUYING	1851UM MMP											*	*	*	*	*	*	*	*
Advertising	BRAND BUILDING	1852UM MBB											*	*	*	*	*	*	*	*
	ADVERTISING IN CONTEMPORARY SOCIETY	1853UM MAC											*	*	*	*	*	*	*	*
	CONSUMER BEHAVIOR	1854UM MCB											*	*	*				*	
	COPYWRITING	1855UM MCW											*	*	*	*	*	*	*	*
	ADVERTISING DESIGN	1856UM MAD											*	*	*	*	*	*	*	*
V	EDITING	1857UM MED							*	*			*	*						
Journalism	REPORTING	1858UM MRP							*	*	*		*	*	*					
	FEATURES & OPINION	1859UM MFO							*	*	*		*	*	*					
	JOURNALISM AND PUBLIC OPINION	18510UM MJP							*	*	*		*	*	*					
	INDIAN REGIONAL JOURNALISM	18511UM MIR							*											


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	NEWSPAPER AND MAGAZINE MAKING	18512UM MNM		*	*	*	*	*	*	*	*		
	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1863UBM MFM								*			
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1864UBM MDM								*	*	*	*
VI	ADVERTISING AND MARKETING RESEARCH	1865UBM MAM								*	*	*	*
Advertising	ADVERTISING AND MARKETING RESEARCH	1866UBM MAMR								*	*	*	*
	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1867UBM MLE								*		*	*
	CONTEMPORARY ISSUES	1861UBM MCI	*	*	*	*	*	*					
	DIGITAL MEDIA	1862UBM MDIM	*	*	*	*	*	*					
VI	PRESS LAWS AND ETHICS	1868UBM MPLE						*	*	*	*	*	
Journalism	BROADCAST JOURNALISM	1869UBM MBJ						*	*	*	*	*	

BUSIN ESS AND MAGA ZINE JOURNALI SM	18610UB MMBMJ	*	*	*	*	*	*	*	*	*	*	*	*
ISSUES OF GLOBAL MEDIA	18611UB MMIGM	*	*	*	*	*	*	*	*	*	*	*	*
NEWS MEDIA MANAGE MENT	18612UB MMNMM	*	*	*	*	*	*	*	*	*	*	*	*
CONTEMP ORARY ISSUES	1861UBM MCI	*	*	*	*	*	*	*	*	*	*	*	*
DIGITAL MEDIA	1862UBM MDIM	*	*	*	*	*	*	*	*	*	*	*	*

Table No. C.2: CO Attainment Level: Bachelor of Mass Media (BMM)
Academic Year - 2018-19

Sem ester	Subject	Subject Code	CO Attainmen t value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	MASS COMMUNICATION	1611UMMMC	3.75	2	Fully Attained	NA
	EFFECTIVE COMMUNICATION-I	1612UMMEC	3	2	Fully Attained	NA
	LANDMARK EVENTS IN 20TH CENTURY WORLD, INDIA AND MAHARASHTRA	1713UMMLE	2	2	Fully Attained	NA
	INTRODUCTION TO ECONOMICS	1614UMMIE	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTRODUCTION TO SOCIOLOGY	1615SUMMIS	2.25	2	Fully Attained	NA
	INTRODUCTION TO COMPUTERS	1616UMMIC	2.25	2	Fully Attained	NA
II	EFFECTIVE COMMUNICATION-II	1621UMMEC	2.25	2	Fully Attained	NA
	POLITICAL CONCEPTS AND THE INDIAN POLITICAL SYSTEM	1622UMMPC	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTRODUCTION TO LITERATURE	1623UMMIL	2.25	2	Fully Attained	NA

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	PRINCIPLES OF MARKETING	1624UMMPM K	0.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MEDIA PSYCHOLOGY	1625UMMPSY	3.5	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1626UMMPM G	2.25	2	Fully Attained	NA
III	MEDIA STUDIES	1731UMMMS	2.5	2	Fully Attained	NA
	UNDERSTANDING CINEMA	1732UMMUC	3	2	Fully Attained	NA
	CREATIVE WRITING	1733UMMCW	2	2	Fully Attained	NA
	INTRODUCTION TO PUBLIC RELATIONS	1734UMMPR	2.25	2	Fully Attained	NA
	INTRODUCTION TO CULTURAL STUDIES	1735UMMCS	3	2	Fully Attained	NA
	ADVANCED COMPUTERS	1736UMMAC	3	2	Fully Attained	NA
IV	INTRODUCTION TO JOURNALISM	1741UMMIJ	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTRODUCTION TO ADVERTISING	1742UMMIA	2	2	Fully Attained	NA
	PHOTOGRAPHY AND PRINT PRODUCTION	1743UMMPPP	2.25	2	Fully Attained	NA
	TV AND RADIO	1744UMMRT V	2.25	2	Fully Attained	NA
	MASS MEDIA RESEARCH	1745UMMMMR	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ORGANISATIONAL BEHAVIOUR	1746UMMOB	2	2	Fully Attained	NA
V Advt	MEDIA PLANNING AND BUYING	1851UMMMP	2.75	2	Fully Attained	NA
	BRAND BUILDING	1852UMMBB	2.5	2	Fully Attained	NA
	ADVERTISING IN CONTEMPORARY SOCIETY	1853UMMAC	2	2	Fully Attained	NA
	CONSUMER BEHAVIOUR	1854UMMCB	3	2	Fully Attained	NA
	COPYWRITING	1855UMMCW	3	2	Not	NA


PRINCIPAL

					Attained	
	ADVERTISING DESIGN	1856UMMAD	2.25	2	Fully Attained	NA
V Jour nalis m	EDITING	1857UMMED	2.75	2	Fully Attained	NA
	REPORTING	1858UMMRP	2.5	2	Fully Attained	NA
	FEATURES & OPINION	1859UMMFO	2.25	2	Fully Attained	NA
	JOURNALISM AND PUBLIC OPINION	18510UMMJP	3.25	2	Fully Attained	NA
	INDIAN REGIONAL JOURNALISM	18511UMMIR	2	2	Fully Attained	NA
	NEWSPAPER AND MAGAZINE MAKING	18512UMMN M	4	2	Fully Attained	NA
VI Advt	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1863UBMMF M	2.25	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF DIRECT MARKETING	1864UBMMD M	2.5	2	Fully Attained	NA
	AGENCY MANAGEMENT	1865UBMMA M	2.25	2	Fully Attained	NA
	ADVERTISING AND MARKETING RESEARCH	1866UBMMA MR	2.25	2	Fully Attained	NA
	LEGAL ENVIRONMENT AND ADVERTISING ETHICS	1867UBMMLE	2.25	2	Fully Attained	NA
	CONTEMPORARY ISSUES	1861UBMMCI	2.25	2	Fully Attained	NA
	DIGITAL MEDIA	1862UBMMDI M	3	2	Fully Attained	NA
VI Jour nalis m	PRESS LAWS AND ETHICS	1868UBMMPL E	2.5	2	Fully Attained	NA
	BROADCAST JOURNALISM	1869UBMMBJ	2.25	2	Fully Attained	NA
	BUSINESS AND MAGAZINE JOURNALISM	18610UBMMB MJ	4	2	Fully Attained	NA
	ISSUES OF GLOBAL MEDIA	18611UBMMI GM	2	2	Fully Attained	NA
	NEWS MEDIA MANAGEMENT	18612UBMMN MM	4	2	Fully Attained	NA
	CONTEMPORARY ISSUES	1861UBMMCI	2.25	2	Fully Attained	NA

	DIGITAL MEDIA	1862UBMMDI M	3	2	Fully Attained	NA
			2.46			

NA: Not Applicable as target level is fully attained

Table No. C.2a: PO Attainment Level- B. Sc. Bachelor of Mass Media (BMM)-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is equal to target level 4. Hence at present no plans are required.

Table No. C.3: Results of CO-PO attainment- Bachelor of Mass Media (BMM)
Academic Year 2018-19

Semester	Course	Course Code	Programme Specific Outcomes (Journalism)												Programme Specific Outcomes (Advertising)											
			P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	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 1	P S O 2	P S O 3	P S O 4	P S O 5	P S O 6						
I	MASS COMMUNICATION	1611UM MMC	3 7 5		3.7 5	3.7 5																				
	EFFECTIVE COMMUNICATION -I	1612UM MEC		3	3																					
	LANDMARK EVENTS IN 20TH CENTURY WORLD, INDIA	1713UM MLE		2	2	2	2																			

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	AND MAHARA SHTRA																			
	INTRODU CTION TO ECONOMI CS	1614UM MIE	1 2 5	1.2 5 5	1.2 5 5															
	INTRODU CTION TO SOCIOLO GY	1615UM MIS	2 2 5	2.2 5 5	2.2 5 5															
	INTRODU CTION TO COMPUTER S	1616UM MIC	2.2 5 5	2.2 5 5																
	EFFECTIV E COMMUNI CATION -II	1621UM MEC	2.2 5 5	2.2 5 5	2.2 5 5															
II	POLITI CAL CONCE PTS AND THE INDIA N POLITICA L SYSTEM	1622UM MPC	1.2 5 5	1.2 5 5	1.2 5 5	1.2 5 5	1.2 5 5	1.2 5 5												
	INTRO DUCTI ON TO LITER ATURE	1623UM MIL	2.2 5 5	2.2 5 5																
	PRINC IPLES OF MARK ETING	1624UM MPMK	0 7 5	0.7 5 5	0.7 5 5	0.7 5 5	0.7 5 5	0.7 5 5												
	MEDIA PSYCHOL OGY	1625UM MPSY	3 5	3.5 5	3.5 5	3.5 5	3.5 5	3.5 5												
	PRINCIP LES OF MANAGE MENT	1626UM MPMG	2.2 5						2.2 5											
	MEDIA STUDIES	1731UM MMS	2.5 5	2.5 5	2.5 5	2.5 5	2.5 5	2.5 5												

	UNDERSTANDING CINEMA	1732UM MUC	3	3	3		3	3							
	CREATIVE WRITING	1733UM MCW	2	2	2	2	2	2							
III	INTRODUCTORY ONTOLOGY	1734UM MPR	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5							
	INTRODUCTION TO CULTURAL STUDIES	1735UMM CS	3												
	ADVANCED COMPUTER SCIENCE	1736UM MAC	3	3	3	3	3	3							
IV	INTRODUCTION TO JOURNALISM	1741UM MIJ							1.5	1.5	1.5	1.5	1.5	1.5	
	INTRODUCTION TO ADVERTISING	1742UM MIA													2 2 2 2 2 2
	PHOTOGRAPHY AND PRINT PRODUCTION	1743UM MPPP	2.2 5	2.2 5	2.2 5		2.2 5	2.2 5							
	TV AND RADIO	1744UM MRTV	2.2 5	2.2 5	2.2 5		2.2 5	2.2 5							
	MASS MEDIA RESEARCH	1745UM MMMR	1.5	1.5	1.5	1.5			1.5						
	ORGANISATIONAL BEHAVIOR	1746UM MOB	2	2	2				2						
V	Advertising	MEDIA PLANNING AND BUYING	1851UM MMP												
															2.75 2.75 2.75 2.75 2.75



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	BRAND BUILDING	1852UM MBB							2.5	2.5	2.5	2.5		2.5
	ADVERTISING IN CONTEMPORARY SOCIETY	1853UM MAC							2	2	2	2	2	2
	CONSUMER BEHAVIOR	1854UM MCB							3	3	3			3
	COPYWRITING	1855UM MCW							3	3	3		3	3
	ADVERTISING DESIGN	1856UM MAD							2.25	2.25	2.25	2.25	2.25	2.25
V Journalism	EDITING	1857UM MED			2.75	2.75		2.75	2.75					
	REPORTING	1858UM MRP			2.5	2.5	2.5	2.5	2.5	2.5				
	FEATURES & OPINION	1859UM MFO			2.25	2.25	2.25	2.25	2.25	2.25				
	JOURNALISM AND PUBLIC OPINION	18510UM MJP			3.25	3.25	3.25		3.25	3.25				
	INDIAN REGIONAL JOURNALISM	18511UM MIR			2									
	NEWSPAPER AND MAGAZINE MAKING	18512UM MNM			4	4	4	4	4	4				
VI Advertising	FINANCIAL MANAGEMENT FOR MARKETING AND ADVERTISING	1863UBM MFM								2.25				2.25
	PRINCIPLES AND PRACTICE	1864UBM MDM								2.5	2.5	2.5	2.5	2.5



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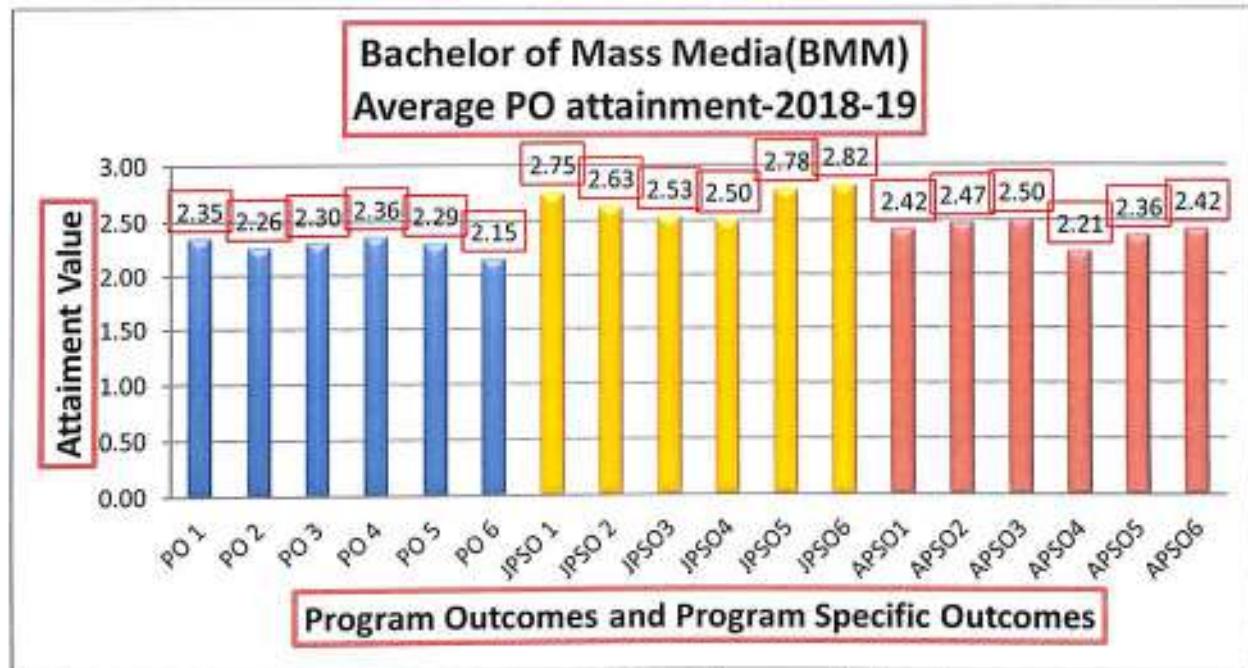
	S OF DIRECT MARKETI NG												
	AGENCY MANAGE MENT	1865UBM MAM								2.25		2.25	2.25
	ADVERT SING AND MARKE TING RESEARC H	1866UBM MAMR								2.25	2.25	2.25	2.25
	LEGAL ENVIRO NMENT AND ADVERTI SING ETHICS	1867UBM MLE								2.25		2.25	2.25
	CONTEMP ORARY ISSUES	1861UBM MCI	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5					
	DIGITAL MEDIA	1862UBM MDIM	3	3	3	3	3	3					
VI Journ alism	PRESS LAWS AND ETHICS	1868UBM MPLE							2.5	2.5	2.5	2.5	2.5
	BROADCA ST JOURNALI SM	1869UBM MBJ						2.25	2.25	2.25	2.25	2.25	
	BUSIN ESS AND MAGA ZINE JOURNALI SM	18610UB MMBMJ						4			4	4	
	ISSUES OF GLOBAL MEDIA	18611UB MMIGM						2		2		2	
	NEWS MEDIA MANAGE MENT	18612UB MMNMM						4				4	
	CONTEMP ORARY ISSUES	1861UBM MCI	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5	2.2 5					
	DIGITAL MEDIA	1862UBM MDIM	3	3	3	3	3	3					



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		Average	2.3 5	2.2 6	2.3 0	2.3 6	2.2 9	2.1 5	2.75	2.63	2.53	2.50	2.78	2.82	2.42	2.47	2.50	2.21	2.36	2.42
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From above graph, it is observed that average PO attainment value for all 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 - 2018-19

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	1611UBIBC	*	*			*	*
	PRINCIPLES OF MANAGEMENT	1614UBIPM	*	*	*			*
	FOUNDATION COURSE - I	1612UBIFC	*	*			*	*
	BUSINESS ECONOMICS - I	1613UBIBE	*	*	*			*
	FINANCIAL ACCOUNTING - I	1616UBIFA	*		*	*		*
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIEM	*	*			*	
	QUANTITATIVE METHODS - I	1617UBIQM	*		*	*		*
II	BUSINESS COMMUNICATION - II	1621UBIBC	*	*				*
	ORGANISATIONAL BEHAVIOUR	1623UBIOB	*	*			*	*
	FOUNDATION COURSE - II	1622UBIFC	*	*			*	*
	BUSINESS LAW	1624UBIBL	*		*		*	
	FINANCIAL ACCOUNTING - II	1626UBIFA	*		*	*		*
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPP-B	*	*				*
	QUANTITATIVE METHODS - II	1627UBIQM	*		*	*		*
	FINANCIAL MARKETS	1731UBIFM	*			*		*
	INFORMATION TECHNOLOGY	1735UBIIT	*	*	*			*



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III	IN BANKING AND INSURANCE-I						
	FINANCIAL MANAGEMENT - I	1732UBIFM	*	*	*	*	*
	MANAGEMENT ACCOUNTING	1734UBIMA	*	*			*
	DIRECT TAXATION	1735UBIDT	*	*			*
	ORGANISATION AL BEHAVIOUR	1736UBIOB	*	*	*	*	
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1737UBIFC	*	*		*	*
<hr/>							
IV	CORPORATE AND SECURITIES LAW	1741UBICL	*	*			*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	*	*	*		*
	FINANCIAL MANAGEMENT - II	1742UBIFM	*	*	*	*	*
	COST ACCOUNTING	1743UBICA	*	*	*	*	
	BUSINESS ECONOMICS -II	1744UBIBE	*	*			*
	ENTREPRENEUR SHIP MANAGEMENT	1746UBIEM	*	*		*	*
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONA L BUSINESS)	1747UBIFC	*	*		*	*
<hr/>							
V	INTERNATIONA L BANKING AND FINANCE	1855UBIIB	*	*			*
	RESEARCH METHODOLOGY	1856UBIRM	*	*	*	*	*
	ACTUARIAL	1854UBIAA	*	*	*	*	

	ANALYSIS IN BANKING AND INSURANCE						
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFRA	*	*		*	*
	AUDITING - I	1852UBIAD	*	*		*	
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	*	*			*
VI	TURNAROUND MANAGEMENT	1863UBITM	*	*			*
	PROJECT WORK BASED IN BANKING AND INSURANCE	1866UBIPW	*	*		*	*
	MARKETING IN BANKING AND INSURANCE	1864UBIMB I	*	*			*
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1861UBISA	*	*	*	*	*
	AUDITING- II	1862UBIAD	*	*	*	*	
	CENTRAL BANKING	1865UBICB	*	*			*

**Table No. D.2: CO Attainment Level: Bachelor of Commerce (Banking and Insurance)-BBI
Academic Year - 2018-19**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	1611UBIBC	3.75	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1614UBIPM	3	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UBIFC	3.25	2	Fully Attained	NA
	BUSINESS ECONOMIC S - I	1613UBIBE	2.5	2	Fully Attained	NA
	FINANCIAL ACCOUNTING	1616UBIFA	3.25	2	Fully Attained	NA

	NG - I					
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIFS	3	2	Fully Attained	NA
	QUANTITATIVE METHODS - I	1617UBIQM	2	2	Fully Attained	NA
II	BUSINESS COMMUNICATION- II	1621UBIBC	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ORGANISATIONAL BEHAVIOR	1623UBIOB	3.75	2	Fully Attained	NA
	FOUNDATION COURSE- II	1622UBIFC	2.5	2	Fully Attained	NA
	BUSINESS LAW	1624UBIBL	2	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II	1626UBIFA	3.5	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPPB	2.25	2	Fully Attained	NA
	QUANTITATIVE METHODS - II	1627UBIQM	2.25	2	Fully Attained	NA
III	FINANCIAL MARKETS	1731UBIFM	3.25	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -I	1735UBIIT	3.25	2	Fully Attained	NA
	FINANCIAL	1732UBIFM-	2.25	2	Fully Attained	NA

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	MANAGEMENT - I	I				
	MANAGEMENT ACCOUNTING	1733UBIMA	2.25	2	Fully Attained	NA
	DIRECT TAXATION	1734UBIDT	2.25	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOR	1736UBIOB	3.25	2	Fully Attained	NA
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	1737UBIFC	3	2	Fully Attained	NA
IV	CORPORATE AND SECURITIES LAW	1744UBICL	3	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	4	2	Fully Attained	NA
	FINANCIAL MANAGEMENT -II	1742UBIFM	2.5	2	Fully Attained	NA
	COST ACCOUNTING	1743UBICA	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	BUSINESS ECONOMIC S-II	1741UBIBE	1.75	2	Not Attained	
	ENTERPRENEURSHIP MANAGEMENT	1746UBIEM	3.25	2	Fully Attained	NA
	FOUNDATION COURSE -IV (INTRODUCTION TO	1747UBIFC	2.5	2	Fully Attained	NA

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	INTERNATIONAL BUSINESS)					
V	INTERNATIONAL BANKING AND FINANCE	1855UBIIB	2.5	2	Fully Attained	NA
	RESEARCH METHODOLOGY	1856UBIRM	1.5	2	Not Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1854UBIAA	2.25	2	Fully Attained	NA
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFRA	1.25	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	AUDITING - I	1852UBIAD	2	2	Fully Attained	NA
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	2.25	2	Fully Attained	NA
VI	TURNAROUND MANAGEMENT	1863UBITM	2	2	Fully Attained	NA
	PROJECT WORK IN BANKING AND INSURANCE	1866UBIIP	3.5	2	Fully Attained	NA
	MARKETING IN BANKING AND INSURANCE	1864UBIBI	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SECURITY ANALYSIS AND	1861UBISA	3.25	2	Fully Attained	NA



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	PORTFOLIO MANAGEMENT					
	AUDITING-II	1862UBIAD	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	CENTRAL BANKING	1865UBICB	2	2	Fully Attained	NA
		Average	2.56			

NA: Not Applicable as target level is fully attained

Table No.D.2a: PO Attainment Level-B.Com(Banking and Insurance)-BBI-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is greater than target level-4. Hence at present no plan is required.

**Table No. D.3: Results of CO-PO attainment-
Bachelor of Commerce (Banking and Insurance) (BBI)-Academic Year 2018-19**

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
I	BUSINESS COMMUNICATION - I	1611UBIBC	3.75	3.75			3.75	3.75
	PRINCIPLES OF MANAGEMENT	1614UBIPM	3	3	3			3
	FOUNDATION COURSE - I	1612UBIFC	3.25	3.25			3.25	3.25
	BUSINESS ECONOMICS - I	1613UBIBE	2.5	2.5	2.5			2.5
	FINANCIAL	1616UBIFA	3.25		3.25	3.25		3.25



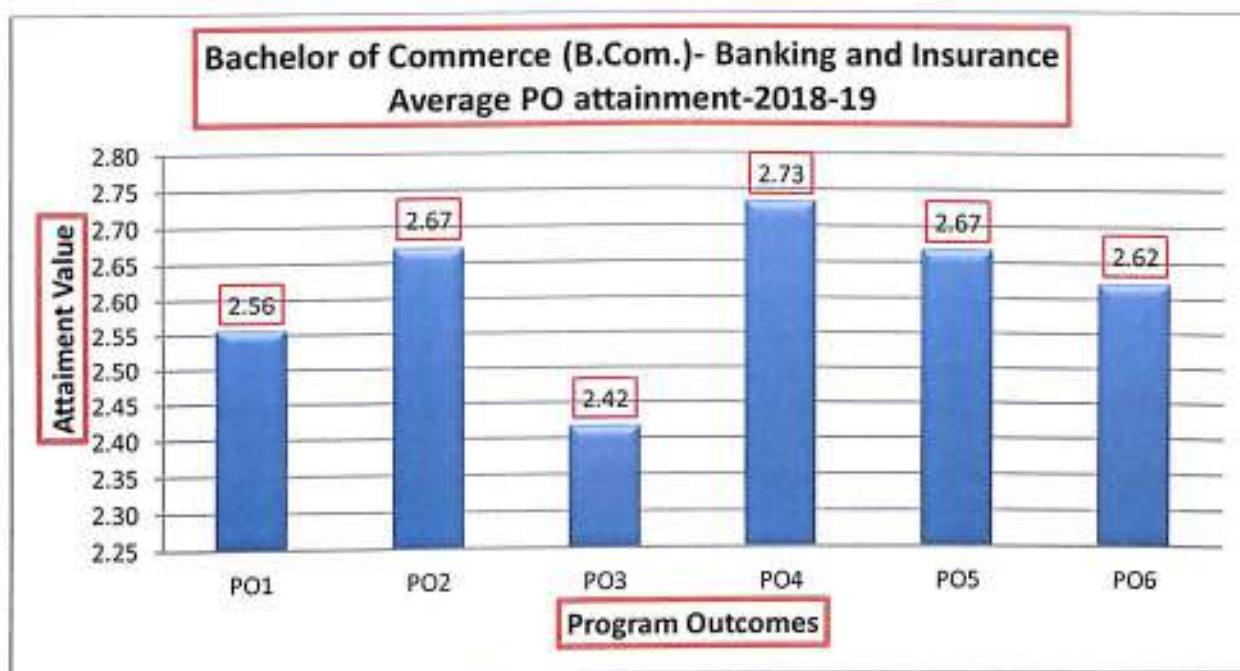
PRINCIPAL

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NAGINDAS KHADWALA COLLEGE OF SCIENCE
AND ECONOMICS
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	ACCOUNTING -I						
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	1615UBIEM	3	3			3
	QUANTITATIVE METHODS -I	1617UBIQM	2		2	2	2
II	BUSINESS COMMUNICATION-II	1621UBIBC	1.5	1.5			1.5
	ORGANISATIONAL BEHAVIOUR	1623UBIOB	3.75	3.75			3.75
	FOUNDATION COURSE-II	1622UBIFC	2.5	2.5			2.5
	BUSINESS LAW	1624UBIBL	2		2		2
	FINANCIAL ACCOUNTING-II	1626UBIFA	3.5		3.5	3.5	3.5
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	1625UBIPP	2.25	2.25			2.25
	QUANTITATIVE METHODS-II	1627UBIQM	2.25		2.25	2.25	2.25
III	FINANCIAL MARKETS	1731UBIFM	3.25			3.25	3.25
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	1735UBIIT	3.25	3.25	3.25		3.25
	FINANCIAL MANAGEMENT -I	1732UBIFM-I	2.25		2.25	2.25	2.25
	MANAGEMENT ACCOUNTING	1733UBIMA	2.25		2.25		2.25
	DIRECT TAXATION	1734UBIDT	2.25		2.25		2.25
	ORGANISATIONAL BEHAVIOUR	1736UBIOB	3.25		3.25	3.25	
	FOUNDATION COURSE-III	1737UBIFC	3	3			3

	(HUMAN RESORUCE MANAGEMENT)						
IV	CORPORATE AND SECURITIES LAW	1744UBICL	3		3		3
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	1745UBIIT	4	4		4	4
	FINANCIAL MANAGEMENT -II	1742UBIFM	2.5		2.5	2.5	2.5
	COST ACCOUNTING	1743UBICA	1.5		1.5	1.5	
	BUSINESS ECONOMICS – II	1741UBIBE	1.75	1.75			1.75
	ENTERPRENEU RSHIP MANAGEMENT	1746UBIEM	3.25	3.25		3.25	3.25
V	INTERNATION AL BANKING AND FINANCE	1855UBIIB	2.5	2.5			2.5
	RESEARCH METHODOLOG Y	1856UBIRM	1.5		1.5	1.5	1.5
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	1854UBIAA	2.25		2.25	2.25	
	FINANCIAL REPORTING AND ANALYSIS	1851UBIFRA	1.25		1.25		1.25
	AUDITING - I	1852UBIAD	2	2		2	
	FINANCIAL SERVICES MANAGEMENT	1853UBIFS	2.25	2.25			2.25

VI	TURNAROUND MANAGEMENT	1863UBITM	2		2		2
	INTERNSHIP BASED PROJECT WORK	1866UBIIP	3.5	3.5		3.5	3.5
	MARKETING IN BANKING AND INSURANCE	1864UBIMBI	1.5	1.5			1.5
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1861UBISA	3.25		3.25	3.25	3.25
	AUDITING- II	1862UBIAD	1.75	1.75	1.75		1.75
	CENTRAL BANKING	1865UBICB	2	2			2
		Average	2.56	2.67	2.42	2.73	2.67
							2.62



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

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 - 2018-19

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



PRINCIPAL

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NAGINDAS KHANDELA COLLEGE OF SCIENCE
JALGAON - 425 001
M: 022 2261 400 064

	DEBT MARKET-I	1731UFMDM	*	*	*	*		*
	EQUITY MARKET-I	1732UFMEM	*	*	*	*		*
	COMMODITY MARKET	1733UFMCM	*	*	*	*		*
	COMPUTER SKILLS-II	1737UFMCS	*	*	*	*		*
	BUSINESS LAW-I	1736UFMBL	*	*	*	*	*	*
IV	CORPORATE FINANCE	1745UFMCF	*	*	*	*		*
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	1742UFMFC	*	*	*	*		*
	DEBT MARKET-II	1741UFMDM	*	*	*	*		*
	EQUITY MARKET - II	1742UFMEM	*	*	*	*		*
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	*	*	*	*		*
	BUSINESS ECONOMICS-II	1747UFMBE	*	*	*	*		*
	BUSINESS LAW-II	1746UFMBL	*	*	*	*	*	*
V	FINANCIAL DERIVATIVES	1855UFMFD	*	*	*	*		*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	*	*			*	*
	CORPORATE ACCOUNTING	1852UFMCA	*	*	*	*		*
	EQUITY RESEARCH	1853UFMER	*	*	*	*		*
	DIRECT TAX - INCOME TAX	1854UFMDT	*	*	*	*	*	*
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	*	*	*	*		*
VI	RISK MANAGEMENT	1865UFMRM	*	*	*	*		*
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	*	*	*	*	*	*
	VENTURE CAPITAL AND	1861UFMVE	*	*	*	*		*



PRINCIPAL

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 ARTS & MANAGEMENT, MUMBAI AND SHANTABEN
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 (AUTONOMOUS)
 MALAD (W), MUMBAI - 400 084

	PRIVATE EQUITY						
	STRATEGIC CORPORATE FINANCE	1863UFMCF	*	*	*	*	*
	INDIRECT TAX-GST	1845UFMIT	*	*	*	*	*
	ORGANIZATIONAL BEHAVIOUR	1862UFMOB	*	*	*	*	*

**Table No. E.2: CO Attainment Level: Bachelor of Commerce (Financial Markets)-BFM
Academic Year - 2018-19**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION-I	1611UFMBC	3	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	1613UFMBV	2.25	2	Fully Attained	NA
	FOUNDATION COURSE – I	1612UFMFC	4	2	Fully Attained	NA
	BUSINESS ECONOMIC S-I	1614UFMBE	3.25	2	Fully Attained	NA
	FINANCIAL ACCOUNTING- I	1615UFMFA	3.25	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL SYSTEM	1616UFMFS	2.5	2	Fully Attained	NA
	BUSINESS MATHEMATICS	1617UFMBM	3.25	2	Fully Attained	NA
II	BUSINESS COMMUNICATION-II	1621UFMBC	3.25	2	Fully Attained	NA
	ACCOUNTING IN CORPORATE ENVIRONMENT	1723UFMAC	2.5	2	Fully Attained	NA
	FOUNDATION	1622UFMFC	2.25	2	Fully Attained	NA

II	COURSE -	1624UFMCS	2.5	2	Fully Attained	NA
III	FINANCIAL ACCOUNTS-II	1625UFMFA	1.5	2	Not Attained	Assigments, tutorials, exercises and remedial coaching shall be planned.
IV	PRINCIPLE OF MANAGEMENT	1626UFMP	2.5	2	Fully Attained	NA
V	ENT. STATISTICS	1627UFMBS	2.5	2	Fully Attained	NA
VI	ENT. ACCOUNTING	1735UFMM	2	2	Fully Attained	NG
DEBT MARKET-I	1731UFMD	2.75	2	Fully Attained	NA	
DEBT MARKET-II	1732UFMME	2.5	2	Fully Attained	NA	
COMMODITY MARKET	1733UFMGC	2.5	2	Fully Attained	NA	
SKILLS-II	1737UFMCS	2.25	2	Fully Attained	NA	
BUSINESS LAW-I	1736UFMBL	3	2	Fully Attained	NA	
CORPORATE FINANCE	1745UFMCF	4	2	Fully Attained	NA	
FOUNDATI. IV COURSE - ON FOREIGN EXCHANGE MARKET	1744UFMFC	2.5	2	Fully Attained	NA	
LAW-I	1741UFMD	2.5	2	Fully Attained	NA	
IV COURSE - ON FOREIGN EXCHANGE MARKET)	1742UFMFE	2.5	2	Fully Attained	NA	

	MARKET - II	M				
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	3.25	2	Fully Attained	NA
	BUSINESS ECONOMIC S-II	1747UFMCI	2.5	2	Fully Attained	NA
	BUSINESS LAW-II	1846UFMBL	2.25	2	Fully Attained	NA
V	FINANCIAL DERIVATIVES	1855UFMFD	4	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	3.75	2	Fully Attained	NA
	CORPORATE ACCOUNTING	1852UFMCA	3.25	2	Fully Attained	NA
	EQUITY RESEARCH	1853UFMER	3	2	Fully Attained	NA
	DIRECT TAX - INCOME TAX	1854UFMDT	3.75	2	Fully Attained	NA
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	3	2	Fully Attained	NA
VI	RISK MANAGEMENT	1865UFMRM	2.25	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	4	2	Fully Attained	NA
	VENTURE CAPITAL AND PRIVATE EQUITY	1861UFMVE	3.25	2	Fully Attained	NA
	STRATEGIC CORPORATE FINANCE	1863UFMCF	2.25	2	Fully Attained	NA

PRINCIPAL

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	INDIRECT TAX-GST	1864UFMIT	3.25	2	Fully Attained	NA
	ORGANIZATIONAL BEHAVIOR	1862UFMOB	2.25	2	Fully Attained	NA
	Average	2.81				

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

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 is greater than target level-4. Hence at present no plans I are required.

Table No. E.3: Results of CO-PO attainment- Bachelor of Financial Markets (BFM)- Academic Year 2018-19

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION -I	1611UFMBC	3	3	3	3		3
	BUSINESS ENVIRONMENT	1613UFMBV	2.25	2.25			2.25	2.25
	FOUNDATION COURSE - I	1612UFMFC		4	4		4	
	BUSINESS ECONOMICS-I	1614UFMBE	3.25	3.25	3.25	3.25		3.25
	FINANCIAL ACCOUNTING- I	1615UFMFA	3.25	3.25	3.25	3.25		3.25
	INTRODUCTION TO FINANCIAL SYSTEM	1616UFMFS	2.5	2.5				2.5
	BUSINESS MATHEMATICS	1617UFMBM	3.25	3.25	3.25	3.25		3.25
II	BUSINESS	1621UFMBC	3.25	3.25	3.25	3.25		3.25

	COMMUNICATION -II						
	ACCOUNTING IN CORPORATE ENVIRONMENT	1723UFMAC	2.5	2.5	2.5	2.5	2.5
	FOUNDATION COURSE - II	1622UFMFC		2.25	2.25	2.25	2.25
	COMPUTER SKILLS-I	1624UFMCS	2.5	2.5		2.5	2.5
	FINANCIAL ACCOUNTING - II	1625UFMFA	1.5	1.5	1.5	1.5	1.5
	PRINCIPLES OF MANAGEMENT	1626UFMPM G	2.5	2.5	2.5	2.5	2.5
	BUSINESS STATISTICS	1627UFMBS	2.25	2.25	2.25	2.25	2.25
III	MANAGEMENT ACCOUNTING	1735UFMMA	2	2	2	2	2
	FOUNDATION COURSE IN FINANCIAL MARKETS	1734UFMMM	1.75	1.75	1.75	1.75	1.75
	DEBT MARKET-I	1731UFMDM	2.75	2.75	2.75	2.75	2.75
	EQUITY MARKET- I	1732UFMEM	2.5	2.5	2.5	2.5	2.5
	COMMODITY MARKET	1733UFMCM	2.5	2.5	2.5	2.5	2.5
	COMPUTER SKILLS-II	1737UFMCS	2.25	2.25	2.25	2.25	2.25
	BUSINESS LAW-I	1736UFMBL	3	3	3	3	3
IV	CORPORATE FINANCE	1745UFMCF	4	4	4	4	4
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	1744UFMFC	2.5	2.5	2.5	2.5	2.5
	DEBT MARKET-II	1741UFMDM	2.5	2.5	2.5	2.5	2.5
	EQUITY MARKET - II	1742UFMEM	2.5	2.5	2.5	2.5	2.5
	COMMODITY AND DERIVATIVE MARKET	1743UFMCD	3.25	3.25	3.25	3.25	3.25
	BUSINESS ECONOMICS-II	1747UFMCI	2.5	2.5	2.5	2.5	2.5
	BUSINESS LAW-II	1846UFMBL	2.25	2.25	2.25	2.25	2.25



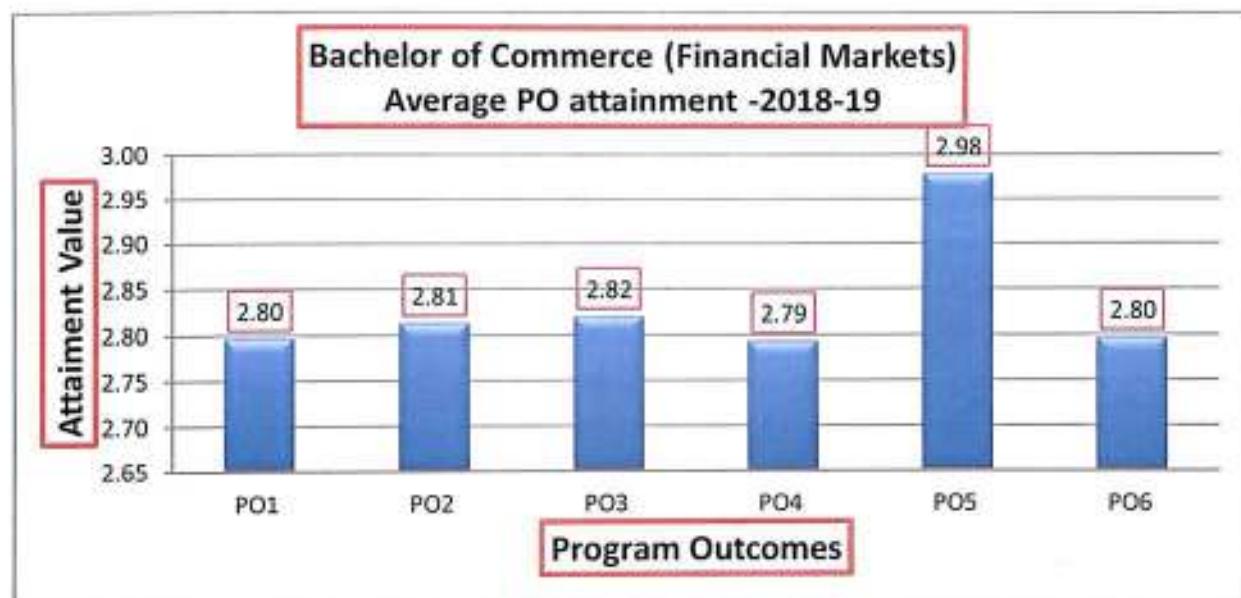
PRINCIPAL

NAGINDAS KHANNA COLLEGE OF COMMERCE
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NAGINDAS KHANNA COLLEGE OF SCIENCE
(AUTONOMOUS)
MMAD (W), MUMBAI - 400 064

V	FINANCIAL DERIVATIVES	1855UFMFD	4	4	4	4		4
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	1856UFMBE	3.75	3.75			3.75	3.75
	CORPORATE ACCOUNTING	1852UFMCA	3.25	3.25	3.25	3.25		3.25
	EQUITY RESEARCH	1853UFMER	3	3	3	3		3
	DIRECT TAX - INCOME TAX	1854UFMDT	3.75	3.75	3.75	3.75	3.75	3.75
	MARKETING IN FINANCIAL SERVICES	1851UFMMF	3	3	3	3		3
VI	RISK MANAGEMENT	1865UFMRM	2.25	2.25	2.25	2.25		2.25
	INTERNSHIP BASED PROJECT WORK	1866UFMPW	4	4	4	4	4	4
	VENTURE CAPITAL AND PRIVATE EQUITY	1861UFMVE	3.25	3.25	3.25	3.25		3.25
	STRATEGIC CORPORATE FINANCE	1863UFMCF	2.25	2.25	2.25	2.25		2.25
	INDIRECT TAX-GST	1864UFMIT	3.25	3.25	3.25	3.25	3.25	3.25
	ORGANIZATIONAL BEHAVIOUR	1862UFMOB	2.25	2.25	2.25		2.25	2.25
		Average	2.80	2.81	2.82	2.79	2.98	2.80

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 NAGINDAS KHANDWALA COLLEGE OF SCIENCE
 (AUTONOMOUS)
 MALAD (W), MUMBAI - 400 084



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 F
Bachelor of Management Studies (BMS):

Table No. E.1: PO CO Mapping Matrix: Bachelor of Management Studies (BMS):
Academic Year - 2018-19

Semester	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			
			PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8						
I	BUSINESS COMMUNICATION - I	1611UMS BC	*	*	*			*								
	FOUNDATION COURSE - I	1612UMS FC	*	*												
	FOUNDATION OF HUMAN SKILLS	1613UMS HS	*		*	*	*	*								
	PRINCIPLES OF MANAGEMENT	1714UMS PM	*	*	*	*	*	*								
	INTRODUCTION TO FINANCIAL ACCOUNTS	1615UMS FA	*	*		*	*		*							
	BUSINESS LAW	1616UMS BL	*		*			*								
	BUSINESS STATISTICS	1617UMS BS	*	*				*	*							
II	BUSINESS COMMUNICATION-II	1621UMS BC	*	*	*				*							
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622UMS FC	*	*	*	*	*									
	BUSINESS ENVIRONMENT	1623UMS BE	*	*					*	*						
	BUSINESS ECONOMICS - I	1724UMS ECO	*	*					*							
	PRINCIPLES OF MARKETING	1625UMS PMK	*	*	*	*	*	*								
	INDUSTRIAL LAW	1626UMSI L	*		*				*							
	BUSINESS	1627UMS	*	*					*	*						



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 MALAD (W), MUMBAI - 400 064

	MATHEMATICS	BM										
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - I	1731UMSIT		*	*	*		*				
	PERSONAL EFFECTIVENESS MANAGEMENT	1832UMP EM		*	*	*		*				
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1733UMSBPE		*	*	*	*	*	*			
III	ACCOUNTING FOR MANAGERIAL DECISIONS	1734UMSAMD		*	*			*	*			
	STRATEGIC MANAGEMENT	1735UMSSM		*	*		*	*	*			
	CORPORATE FINANCE	1736UMSCF						*	*	*		
	BASICS OF FINANCIAL SERVICES	1737UMSBFS						*		*		
	CONSUMER BEHAVIOUR	1738UMSCB								*	*	*
	PRODUCT INNOVATIONS MANAGEMENT	1739UMSPIM								*	*	*
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - II	1741UMSITB		*	*	*		*				
IV	BUSINESS ECONOMICS-II	1742UMSBE		*	*			*	*			
	BUSINESS	1743UMS		*	*	*	*	*	*			



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	RESEARCH METHODS	BRM											
	CHANGE MANAGEMENT	1844UMCM	*	*	*	*	*	*					
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1745UMSPQM	*	*			*						
	CORPORATE RESTRUCTURING	1746UMSCRS						*	*	*	*		
	STRATEGIC COST MANAGEMENT	1747UMSSCM						*	*	*	*		
	INTEGRATED MARKETING COMMUNICATION	1748UMSMC								*	*	*	*
	EVENT MARKETING	1749UMSEM								*	*	*	
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLS	*	*	*	*							
	CORPORATE COMMUNICATION AND PUBLIC RELATIONS	1852UMSPR	*	*			*	*					
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIA						*	*	*	*		
	COMMODITY AND DERIVATIVE S MARKET	1854UMSCD						*	*	*	*		
	WEALTH MANAGEMENT	1855UMSWM						*	*	*	*		
	DIRECT TAXES	1856UMSDT						*	*	*	*		
	SERVICE MARKETING	1857UMSSM								*	*	*	*
	E-	1858UMSE								*	*		*



PRINCIPAL

NAGINDAS KHANDWALA COLLEGE OF COMMERCE
 ARTS & MANAGEMENT STUDIES AND SHANTABEN
 NAGINDAS KHANDWALA INSTITUTE OF SCIENCE
 UNIVERSITY
 MULADI (V.V.D.M.U.), MULADI - 460 064

	COMMERCE AND DIGITAL MARKETING	EC												
	SALES AND DISTRIBUTION MANAGEMENT	1859UMS SD										*	*	*
	CUSTOMER RELATIONSHIP MANAGEMENT	18510UM SCR										*	*	*
VI	OPERATION RESEARCH	1861UMS OR	*	*	*	*	*							
	RESEARCH BASED PROJECT WORK	1862UMS PW	*	*	*	*	*	*						
	INTERNATIONAL FINANCE	1863UMSI F						*	*	*	*			
	INNOVATIVE FINANCIAL SERVICES	1864UMSI FM						*	*		*			
	PROJECT MANAGEMENT	1865UMS PM						*	*	*	*			
	INDIRECT TAXES	1866UMSI NT						*	*		*			
	BRAND MANAGEMENT	1867UMS BM										*	*	*
	RETAIL MANAGEMENT	1862UMS RM										*	*	*
	INTERNATIONAL MARKETING	1869UMSI M										*	*	*
	MEDIA PLANNING AND MANAGEMENT	18610UM SMPM										*	*	*

Table No. F.2: CO Attainment Level: Bachelor of Management Studies (BMS)
Academic Year - 2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not	Remedial Measures



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 (Autonomous)
 MALAD (W), MUMBAI - 400 064

					Attained	
I	BUSINESS COMMUNICATION - I	1611UMSBC	3	2	Fully Attained	NA
	FOUNDATION COURSE - I	1612UMSFC	2.25	2	Fully Attained	NA
	FOUNDATION OF HUMAN SKILLS	1613UMSHS	2.5	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1714UMSPM	2	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL ACCOUNTS	1615UMSFA	2.25	2	Fully Attained	NA
	BUSINESS LAW	1616UMSBL	3	2	Fully Attained	NA
	BUSINESS STATISTICS	1617UMSBS	2	2	Fully Attained	NA
II	BUSINESS COMMUNICATION-II	1621UMSBC	3	2	Fully Attained	NA
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622UMSFC	2.25	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	1623UMSBE	3	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	1724UMSEC O	2.5	2	Fully Attained	NA
	PRINCIPLES OF MARKETING	1625UMSPMK	2.25	2	Fully Attained	NA
	INDUSTRIAL LAW	1626UMSIL	3	2	Fully Attained	NA
	BUSINESS MATHEMATICS	1627UMSBM	1.75	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
III	INFORMATION	1731UMSIT	3.75	2	Fully	NA

	TECHNOLOGY IN BUSINESS MANAGEMENT - I				Attained	
	PERSONAL EFFECTIVENES MANAGEMENT	1832UMPE M	3.75	2	Fully Attained	NA
	BUSINESS PLANNING AND ENTREPRENEU RSHIP MANAGEMENT	1733UMSBP E	3.75	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	1734UMSA MD	3.25	2	Fully Attained	NA
	STRATEGIC MANAGEMENT	1735UMSS M	3	2	Fully Attained	NA
	CORPORATE FINANCE	1736UMSCF	2.75	2	Fully Attained	NA
	BASICS OF FINANCIAL SERVICES	1737UMSBF S	3.25	2	Fully Attained	NA
	CONSUMER BEHAVIOUR	1738UMSCB	3.75	2	Fully Attained	NA
	PRODUCT INNOVATIONS MANAGEMENT	1739UMSP1 M	3	2	Fully Attained	NA
IV	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - II	1741UMSIT B	3	2	Fully Attained	NA
	BUSINESS ECONOMICS- II	1742UMSBE	2.25	2	Fully Attained	NA
	BUSINESS RESEARCH METHODS	1743UMSBR M	3.25	2	Fully Attained	NA
	CHANGE MANAGEMENT	1844UMCM	3.25	2	Fully Attained	NA
	PRODUCTION & TOTAL QUALITY MANAGEMENT	1745UMSPQ M	3	2	Fully Attained	NA



PRINCIPAL

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MALAD (W), MUMBAI - 400 064

	CORPORATE RESTRUCTURI NG	1746UMSCR S	3	2	Fully Attained	NA
	STRATEGIC COST MANAGEMENT	1747UMSSC M	3.75	2	Fully Attained	NA
	INTEGRATED MARKETING COMMUNICATI ON	1748UMSIM C	2.25	2	Fully Attained	NA
	EVENT MARKETING	1749UMSE M	2	2	Fully Attained	NA
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLS	4	2	Fully Attained	NA
	CORPORATE COMMUNICATI ON AND PUBLIC RELATIONS	1852UMSPR	4	2	Fully Attained	NA
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIA	3	2	Fully Attained	NA
	COMMODITY AND DERIVATIVES MARKET	1854UMSCD	4	2	Fully Attained	NA
	WEALTH MANAGEMENT	1855UMSW M	3.25	2	Fully Attained	NA
	DIRECT TAXES	1856UMSDT	3	2	Fully Attained	NA
	SERVICE MARKETING	1857UMSS M	4	2	Fully Attained	NA
	E-COMMERCE AND DIGITAL MARKETING	1858UMSEC	4	2	Fully Attained	NA
	SALES AND DISTRIBUTION MANAGEMENT	1859UMSSD	3	2	Fully Attained	NA
	CUSTOMER RELATIONSHIP MANAGEMENT	18510UMSC R	3.5	2	Fully Attained	NA
VI	OPERATION	1861UMSOR	3	2	Fully	NA

	RESEARCH				Attained	
	RESEARCH BASED PROJECT WORK	1862UMSP W	4	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1863UMSIF	2.5	2	Fully Attained	NA
	INNOVATIVE FINANCIAL SERVICES	1864UMSIF M	2.25	2	Fully Attained	NA
	PROJECT MANAGEMENT	1865UMSP M	2.25	2	Fully Attained	NA
	INDIRECT TAXES	1866UMSIN T	4	2	Fully Attained	NA
	BRAND MANAGEMENT	1867UMSB M	3.25	2	Fully Attained	NA
	RETAIL MANAGEMENT	1862UMSR M	3.25	2	Fully Attained	NA
	INTERNATIONAL MARKETING	1869UMSIM	3.25	2	Fully Attained	NA
	MEDIA PLANNING AND MANAGEMENT	18610UMSM PM	3.25	2	Fully Attained	NA
	Average	3.03				

NA: Not Applicable as target level is fully attained

Table No.E.2a: PO Attainment Level- Bachelor of Management Studies (BMS)-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is greater than target level-4. Hence at present no plans are required.

Table No. E.3: Results of CO-PO attainment- Bachelor of Management Studies (BMS)- Academic Year 2018-19

Semester	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			
			PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O7	PS O8						
I	BUSINESS COMMUNICATION -I	1611UMS BC	3	3	3			3								
	FOUNDATION COURSE -I	1612UMS FC	2. 25	2. 25												
	FOUNDATION OF HUMAN SKILLS	1613UMS HS	2. 25		2. 25	2. 25	2. 25									
	PRINCIPLES OF MANAGEMENT	1714UMS PM		2	2	2	2		2							
	INTRODUCTION TO FINANCIAL ACCOUNTS	1615UMS FA	2. 25	2. 25		2. 25		2. 25								
	BUSINESS LAW	1616UMS BL			3			3								
	BUSINESS STATISTICS	1617UMS BS	2	2				2	2							
II	BUSINESS COMMUNICATION-II	1621UMS BC		3	3	3			3							
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	1622UMS FC														
	BUSINESS ENVIRONMENT	1623UMS BE	3	3					3	3						
	BUSINESS ECONOMICS -I	1724UMS ECO	2. 5	2. 5					2. 5							
	PRINCIPLES OF MARKETING	1625UMS PMK	2. 25	2. 25	2. 25	2. 25	2. 25	2. 25								
	INDUSTRIAL LAW	1626UMSI L				3			3							

	BUSINESS MATHEMATICS	1627UMS BM	1. 75	1. 75			1. 75	1. 75					
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - I	1731UMSIT											
III	PERSONAL EFFECTIVENESS MANAGEMENT	1832UMP EM											
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	1733UMS BPE											
	ACCOUNTING FOR MANAGERIAL DECISIONS	1734UMS AMD	3. 75	3. 75	3. 75	3. 75	3. 75	3. 75					
	STRATEGIC MANAGEMENT	1735UMS SM	3	3		3	3	3					
	CORPORATE FINANCE	1736UMS CF							2.7 5	2.7 5	2.7 5	2.7 5	
	BASICS OF FINANCIAL SERVICES	1737UMS BFS							3.2 5	3.2 5			
	CONSUMER BEHAVIOUR	1738UMS CB									3.7 5	3.7 5	3.7 5
	PRODUCT INNOVATIONS MANAGEMENT	1739UMS PIM									3	3	3
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - II	1741UMSITB											
IV	BUSINESS ECONOMICS-	1742UMS BE	2. 25	2. 25			2. 25	2. 25					

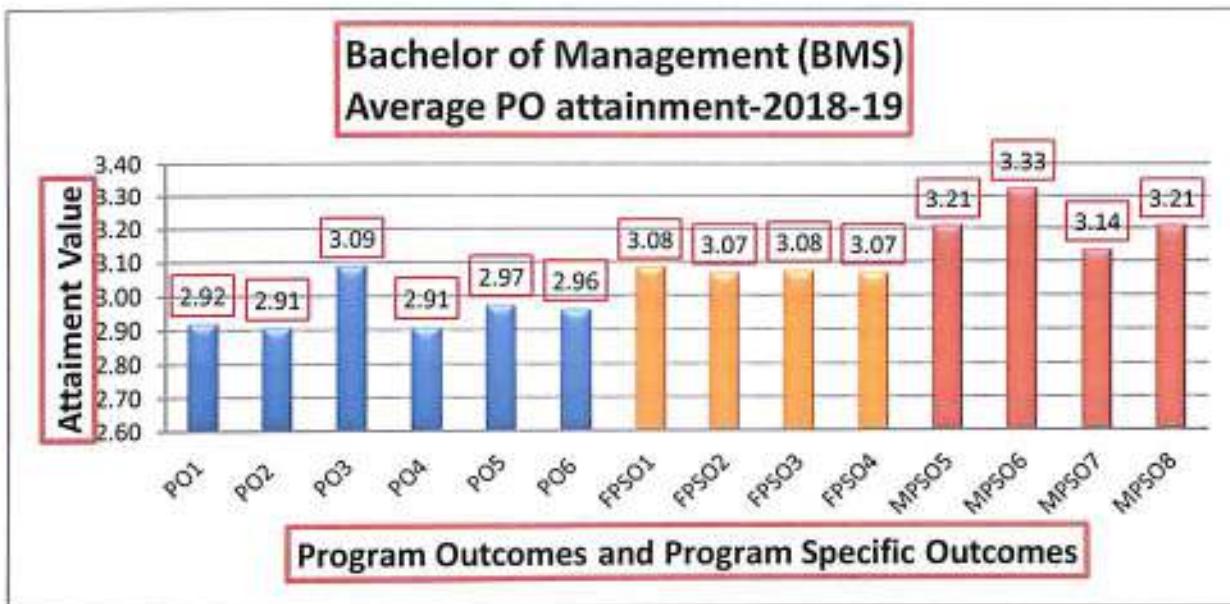
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	II														
BUSINESS RESEARCH METHODS	1743UMS BRM	3. 25	3. 25	3. 25	3. 25	3. 25	3. 25								
CHANGE MANAGEMENT	1844UMC M	3. 25	3. 25	3. 25	3. 25	3. 25									
PRODUCTION & TOTAL QUALITY MANAGEMENT	1745UMS PQM	3	3				3								
CORPORATE RESTRUCTURING	1746UMS CRS							3	3	3	3				
STRATEGIC COST MANAGEMENT	1747UMS SCM							3,7 5	3,7 5	3,7 5	3,7 5				
INTEGRATED MARKETING COMMUNICATION	1748UMSI MC											2,2 5	2,2 5	2,2 5	2,2 5
EVENT MARKETING	1749UMS EM											2		2	2
LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMS LS			4	4	4	4								
CORPORATE COMMUNICATION AND PUBLIC RELATIONS	1852UMS PR		4	4				4	4						
INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSI A									3	3	3	3		
COMMODITY AND DERIVATIVES MARKET	1854UMS CD								4	4	4	4			
WEALTH MANAGEMENT	1855UMS WM								3,2 5	3,2 5	3,2 5	3,2 5			
DIRECT TAXES	1856UMS DT								3	3	3	3			
SERVICE	1857UMS												4	4	4

V

	MARKETING	SM											
	E-COMMERCE AND DIGITAL MARKETING	1858UMS EC								4	4		4
	SALES AND DISTRIBUTION MANAGEMENT	1859UMS SD								3	3	3	3
	CUSTOMER RELATIONSHIP MANAGEMENT	18510UM SCR								3.5	3.5	3.5	3.5
VI	OPERATION RESEARCH	1861UMS OR	3	3	3		3	3					
	RESEARCH BASED PROJECT WORK	1862UMS PW	4	4	4	4	4	4					
	INTERNATIONAL FINANCE	1863UMSI F							2.5	2.5	2.5	2.5	
	INNOVATIVE FINANCIAL SERVICES	1864UMSI FM							2.2 5	2.2 5		2.2 5	
	PROJECT MANAGEMENT	1865UMS PM							2.2 5	2.2 5	2.2 5	2.2 5	
	INDIRECT TAXES	1866UMSI NT							4	4		4	
	BRAND MANAGEMENT	1867UMS BM									3.2 5	3.2 5	3.2 5
	RETAIL MANAGEMENT	1862UMS RM									3.2 5	3.2 5	3.2 5
	INTERNATIONAL MARKETING	1869UMSI M									3.2 5		3.2 5
	MEDIA PLANNING AND MANAGEMENT	18610UM SMPM									3.2 5	3.2 5	3.2 5
Average			2. 92	2. 91	3. 09	2. 91	2. 97	2. 96	3.0 8	3.0 7	3.0 8	3.0 7	3.2 1



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).

ANNEXURE 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 - 2018-19

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
	SOFT SKILLS DEVELOPMENT	1611UCSSS	*			*			*	*		*
I	COMPUTER ORGANIZATION AND DESIGN	1612UCSCO	*	*	*	*						*
	INTRODUCTION TO PROGRAMMING	1713UCSIP	*	*	*	*			*	*		
	FREE AND OPEN SOURCE SOFTWARE	1614UCSFS	*	*	*	*			*	*	*	*
	DATABASE SYSTEMS	1615UCSDB	*	*	*	*			*	*	*	*
	DISCRETE MATHEMATICS	1616UCSDM	*	*				*				
	DESCRIPTIVE STATISTICS AND INTRODUCTION TO PROBABILITY	1617UCSSP	*	*		*		*		*		
	COMPUTER ORGANIZATION AND DESIGN PRACTICAL	1612UCSPR	*	*	*	*						*
	INTRODUCTION TO PROGRAMMING PRACTICAL	1713UCSPR	*	*	*	*			*	*		
	FREE AND OPEN SOURCE SOFTWARE PRACTICAL	1614UCSPR	*	*	*	*			*	*	*	*
	DATABASE SYSTEMS PRACTICAL	1615UCSPR	*	*	*	*			*	*	*	*
	DISCRETE MATHEMATICS PRACTICAL	1616UCSPR	*	*				*				
	DESCRIPTIVE STATISTICS AND INTRODUCTION TO PROBABILITY PRACTICAL	1617UCSPR	*	*		*		*		*		
II	PROGRAMMING WITH C	1621UCSPC	*	*		*			*	*		*
	PROGRAMMING WITH PYTHON - II	1722UCSPP	*	*	*	*			*	*		*
	LINUX	1623UCSLX	*	*	*	*			*	*		*
	DATA STRUCTURES	1624UCSDS	*	*	*	*			*	*		*
	CALCULUS	1725UCSCC	*				*	*				*
	GREEN COMPUTING	1726UCSGC	*	*		*			*	*	*	*
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS	1627UCSSM	*				*	*				*
	PROGRAMMING WITH C PRACTICAL	1621UCSPR	*	*		*			*	*		*
	PROGRAMMING WITH PYTHON - II PRACTICAL	1722UCSPR	*	*	*	*			*	*		*
	LINUX PRACTICAL	1623UCSPR	*	*	*	*			*	*		*



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	DATA STRUCTURES PRACTICAL	1624UCSPR	*	*	*	*	*	*	*	*
	CALCULUS PRACTICAL	1725UCSPR	*			*	*	*		
	GREEN COMPUTING PRACTICAL	1726UCSPR	*	*	*		*	*	*	*
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS PRACTICAL	1627UCSPR	*			*	*	*		
III	THEORY OF COMPUTATION	1731UCSTC	*	*	*	*	*	*	*	*
	CORE JAVA	1732UCSCJ	*	*	*	*		*	*	*
	OPERATING SYSTEM	1733UCSOS	*	*	*	*		*	*	*
	DATABASE MANAGEMENT SYSTEM	1734UCSDB	*	*	*	*			*	*
	COMBINATORICS AND GRAPH THEORY	1735UCSCG	*	*	*	*		*	*	*
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UCSPC	*	*	*	*			*	*
	WEB PROGRAMMING	1737UCSWP	*	*	*			*	*	*
	CORE JAVA PRACTICAL	1732UCSPR	*	*	*	*		*	*	*
	OPERATING SYSTEM PRACTICAL	1733UCSPR	*	*	*	*		*	*	*
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UCSPR	*	*	*	*			*	*
	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UCSPR	*	*	*	*		*	*	*
	PHYSICAL COMPUTING PROGRAMMING AND IOT PRACTICAL	1736UCSPR	*	*	*	*			*	*
	WEB PROGRAMMING PRACTICAL	1737UCSPR	*	*	*			*	*	*
IV	FUNDAMENTALS OF ALGORITHM	1741UCSFA	*	*	*	*		*	*	*
	ADVANCED JAVA	1742UCSAJ	*	*	*	*			*	*
	COMPUTER NETWORKS	1743UCSCN	*	*	*	*		*	*	*
	SOFTWARE ENGINEERING	1744UCSSE	*	*	*	*		*	*	*
	LINEAR ALGEBRA USING PYTHON	1745UCSLA	*	*			*	*		
	.NET TECHNOLOGIES	1746UCSNT	*	*	*					*
	ANDROID DEVELOPER FUNDAMENTALS	1747UCSAD	*	*	*	*		*	*	*
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UCSPR	*	*	*	*		*	*	*
	ADVANCED JAVA PRACTICAL	1742UCSPR	*	*	*	*			*	*
	COMPUTER NETWORKS PRACTICAL	1743UCSPR	*	*	*	*		*	*	*
	LINEAR ALGEBRA USING PYTHON PRACTICAL	1745UCSPR	*	*			*	*		
	.NET TECHNOLOGIES PRACTICAL	1746UCSPR	*	*	*					*
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UCSPR	*	*	*	*		*	*	*

	GAME PROGRAMMING	1857UCSGP	*	*	*	*	*	*	*	*	*
	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	*	*	*				*	*	*
V	WEB SERVICES	1856UCSWS	*	*	*	*			*	*	*
	GAME PROGRAMMING PRACTICAL	1857UCSPR	*	*	*	*	*	*	*	*	*
	PROJECT IMPLEMENTATION	1858UCSPR	*	*	*	*	*	*	*	*	*
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCSPR	*	*	*	*	*	*	*	*	*
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	*	*	*				*	*	
	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UCSPR	*	*	*	*	*	*	*	*	*
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCSPR	*	*	*	*			*	*	*
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCSPR	*	*	*				*	*	*
	WEB SERVICES PRACTICAL	1856UCSPR	*	*	*	*			*	*	*
VI	ETHICAL HACKING	1867UCSEH	*	*	*	*			*	*	*
	ARCHITECTING OF IOT	1861UCSIT	*	*	*	*			*	*	*
	CLOUD COMPUTING	1862UCSCC	*	*	*	*			*	*	*
	CYBER FORENSICS	1863UCSCF	*	*	*	*	*	*	*	*	*
	INFORMATION RETRIEVAL	1864UCSIR	*	*	*				*	*	*
	DIGITAL IMAGE PROCESSING	1865UCSDP	*	*	*	*	*	*	*	*	*
	DATA SCIENCE	1866UCSDS	*	*	*	*	*	*	*	*	*
	ETHICAL HACKING PRACTICAL	1867UCSPR	*	*	*	*			*	*	*
	PROJECT IMPLEMENTATION	1868UCSPR	*	*	*	*	*	*	*	*	*
	ARCHITECTING OF IOT PRACTICAL	1861UCSPR	*	*	*	*			*	*	*
	CLOUD COMPUTING PRACTICAL	1862UCSPR	*	*	*	*			*	*	*
	CYBER FORENSICS PRACTICAL	1863UCSPR	*	*	*	*	*	*	*	*	*

INFORMATION RETRIEVAL PRACTICAL	1864UCSPR	*	*	*				*	*	*
DIGITAL IMAGE PROCESSING PRACTICAL	1865UCSPR	*	*	*	*	*	*	*	*	*
DATA SCIENCE PRACTICAL	1866UCSPR	*	*	*	*	*	*	*	*	*

Table No. G.2: CO Attainment Level: Bachelor of Science- B. Sc. (Computer Science)
Academic Year - 2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	SOFT SKILLS DEVELOPMENT	1611UCSSS	3	2	Fully Attained	NA
	COMPUTER ORGANIZATION AND DESIGN	1612UCSCO	3.25	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING	1713UCSIP	2	2	Fully Attained	NA
	FREE AND OPEN SOURCE SOFTWARE	1614UCSFS	3.75	2	Fully Attained	NA
	DATABASE SYSTEMS	1615UCSDB	2.5	2	Fully Attained	NA
	DISCRETE MATHEMATICS	1616UCSDM	3.25	2	Fully Attained	NA
	DESCRIPTIVE STATISTICS AND INTRODUCTION TO PROBABILITY	1617UCSSP	2.25	2	Fully Attained	NA
	COMPUTER ORGANIZATION AND DESIGN PRACTICAL	1612UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTRODUCTION TO PROGRAMMING PRACTICAL	1713UCSPR	1	2	Not Attained	
	FREE AND OPEN SOURCE SOFTWARE PRACTICAL	1614UCSPR	2	2	Fully Attained	NA
	DATABASE SYSTEMS PRACTICAL	1615UCSPR	2	2	Fully Attained	NA
	DISCRETE MATHEMATICS PRACTICAL	1616UCSPR	2	2	Fully Attained	NA
	DESCRIPTIVE STATISTICS AND	1617UCSPR	2	2	Fully Attained	NA



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	INTRODUCTION TO PROBABILITY PRACTICAL					
II	PROGRAMMING WITH C	1621UCSPC	3.75	2	Fully Attained	NA
	PROGRAMMING WITH PYTHON - II	1722UCSPP	2.5	2	Fully Attained	NA
	LINUX	1623UCSLX	3.25	2	Fully Attained	NA
	DATA STRUCTURES	1624UCSDS	2.25	2	Fully Attained	NA
	CALCULUS	1725UCSCC	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	GREEN COMPUTING	1726UCSGC	2.5	2	Fully Attained	NA
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS	1627UCSSM	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PROGRAMMING WITH C PRACTICAL	1621UCSPR	2	2	Fully Attained	NA
	PROGRAMMING WITH PYTHON - II PRACTICAL	1722UCSPR	3	2	Fully Attained	NA
	LINUX PRACTICAL	1623UCSPR	2	2	Not Attained	NA
	DATA STRUCTURES PRACTICAL	1624UCSPR	2	2	Fully Attained	NA
	CALCULUS PRACTICAL	1725UCSPR	2	2	Fully Attained	NA
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS PRACTICAL	1627UCSPR	4	2	Fully Attained	NA
III	THEORY OF COMPUTATION	1731UCSTC	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching



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						shall be planned.
	CORE JAVA	1732UCSCJ	2.25	2	Fully Attained	NA
	OPERATING SYSTEM	1733UCSOS	3	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DATABASE MANAGEMENT SYSTEM	1734UCSDB	2.5	2	Fully Attained	NA
	COMBINATORICS AND GRAPH THEORY	1735UCSCG	2.25	2	Fully Attained	NA
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UCSPC	2.75	2	Fully Attained	NA
	WEB PROGRAMMING	1737UCSWP	2.25	2	Fully Attained	NA
	CORE JAVA PRACTICAL	1732UCSPR	2	2	Fully Attained	NA
	OPERATING SYSTEM PRACTICAL	1733UCSPR	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UCSPR	2	2	Fully Attained	NA
	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PHYSICAL COMPUTING PROGRAMMING AND IOT PRACTICAL	1736UCSPR	3	2	Fully Attained	NA
	WEB PROGRAMMING PRACTICAL	1737UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
IV	FUNDAMENTALS	1741UCSFA	2	2	Fully	NA

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	OF ALGORITHM				Attained	
	ADVANCED JAVA	1742UCSAJ	2.5	2	Fully Attained	NA
	COMPUTER NETWORKS	1743UCSCN	2.5	2	Fully Attained	NA
	SOFTWARE ENGINEERING	1744UCSSE	2.25	2	Fully Attained	NA
	LINEAR ALGEBRA USING PYTHON	1745UCSLA	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	.NET TECHNOLOGIES	1746UCSNT	3.75	2	Fully Attained	NA
	ANDROID DEVELOPER FUNDAMENTALS	1747UCSAD	2.5	2	Fully Attained	NA
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UCSPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ADVANCED JAVA PRACTICAL	1742UCSPR	1	2	Not Attained	
	COMPUTER NETWORKS PRACTICAL	1743UCSPR	3	2	Fully Attained	NA
	LINEAR ALGEBRA USING PYTHON PRACTICAL	1745UCSPR	2	2	Fully Attained	NA
	.NET TECHNOLOGIES PRACTICAL	1746UCSPR	2	2	Fully Attained	NA
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UCSPR	2	2	Fully Attained	NA
V	GAME PROGRAMMING	1857UCSGP	2	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE	1851UCSAI	2	2	Fully Attained	NA
	LINUX SERVER ADMINISTRATION	1852UCSLA	2	2	Fully Attained	NA
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UCSST	NA	2	NA	NA
	INFORMATION AND NETWORK	1854UCSNS	1.5	2	Not	Assignments,

	SECURITY				Attained	tutorials, exercises and remedial coaching shall be planned.
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UCSWN	2.25	2	Fully Attained	NA
	WEB SERVICES	1856UCSWS	NA	2	NA	NA
	GAME PROGRAMMING PRACTICAL	1857UCSPR	4	2	Fully Attained	NA
	PROJECT IMPLEMENTATION	1858UCSPR	2	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UCSPR	3	2	Fully Attained	NA
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UCSPR	3	2	Fully Attained	NA
	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UCSPR	NA	2	NA	NA
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UCSPR	3	2	Fully Attained	NA
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UCSPR	4	2	Fully Attained	NA
	WEB SERVICES PRACTICAL	1856UCSPR	NA	2	NA	NA
VI	ETHICAL HACKING	1867UCSEH	2.25	2	Fully Attained	NA
	ARCHITECTING OF IOT	1861UCSIT	NA	2	NA	NA
	CLOUD COMPUTING	1862UCSCC	3	2	Fully Attained	NA
	CYBER FORENSICS	1863UCSCF	2	2	Fully Attained	NA
	INFORMATION RETRIEVAL	1864UCSIR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING	1865UCSDP	0.5	2	Not Attained	


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	DATA SCIENCE	1866UCSDS	2.25	2	Fully Attained	NA
	ETHICAL HACKING PRACTICAL	1867UCSPR	4	2	Fully Attained	NA
	PROJECT IMPLEMENTATION	1868UCSPR	4	2	Fully Attained	NA
	ARCHITECTING OF IOT PRACTICAL	1861UCSPR	NA	2	NA	NA
	CLOUD COMPUTING PRACTICAL	1862UCSPR	3	2	Fully Attained	NA
	CYBER FORENSICS PRACTICAL	1863UCSPR	5	2	Fully Attained	NA
	INFORMATION RETRIEVAL PRACTICAL	1864UCSPR	NA	2	NA	NA
	DIGITAL IMAGE PROCESSING PRACTICAL	1865UCSPR	2	2	Fully Attained	NA
	DATA SCIENCE PRACTICAL	1866UCSPR	4	2	Fully Attained	NA
	Average		2.43			

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)- 2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is 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 2018-19

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
	SOFT SKILLS DEVELOPMENT	1611UCSSS	3			3			3	3		3



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I	COMPUTER ORGANIZATION AND DESIGN	1612UC SCO	3. 2 5	3. 2 5	3. 2 5	3. 2 5				3. 25
	INTRODUCTION TO PROGRAMMING	1713UC SIP	2	2	2	2		2	2	
	FREE AND OPEN SOURCE SOFTWARE	1614UC SFS	3. 7 5	3. 7 5	3. 7 5	3. 7 5		3. 7 5	3. 7 5	3. 75
	DATABASE SYSTEMS	1615UC SDB	2. 5	2. 5	2. 5	2. 5		2. 5	2. 5	2. 5
	DISCRETE MATHEMATICS	1616UC SDM	3. 2 5	3. 2 5			3. 2 5			
	DESCRIPTIVE STATISTICS AND INTRODUCTION TO PROBABILITY	1617UC SSP	2. 5	2. 5	2.	2	2. 5	2. 5	2. 5	
	COMPUTER ORGANIZATION AND DESIGN PRACTICAL	1612UC SPR	1	1	1	1				1
	INTRODUCTION TO PROGRAMMING PRACTICAL	1713UC SPR	1	1	1	1		1	1	
	FREE AND OPEN SOURCE SOFTWARE PRACTICAL	1614UC SPR	2	2	2	2		2	2	2
	DATABASE SYSTEMS PRACTICAL	1615UC SPR	2	2	2	2		2	2	2
II	DISCRETE MATHEMATICS PRACTICAL	1616UC SPR	2	2			2			
	DESCRIPTIVE STATISTICS AND INTRODUCTION TO PROBABILITY PRACTICAL	1617UC SPR	2	2		2	2	2		
	PROGRAMMING WITH C	1621UC SPC	3. 7 5	3. 7 5	3. 7 5		3. 7 5	3. 7 5		3. 75
	PROGRAMMING WITH PYTHON - II	1722UC SPP	2. 5	2. 5	2. 5	2.	2. 5	2. 5		2. 5
	LINUX	1623UC SLX	3. 2 5	3. 2 5	3. 2 5		3. 2 5	3. 2 5		3. 25
	DATA STRUCTURES	1624UC SDS	2. 2 5	2. 2 5	2. 2 5		2. 2 5	2. 2 5		2. 25
	CALCULUS	1725UC SCC	1. 7 5			1. 7 5	1. 7 5	1. 7 5		
	GREEN COMPUTING	1726UC SGC	2. 5	2. 5	2. 5		2. 5	2. 5	2. 5	2. 5
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS	1627UC SSM	1. 7 5			1. 7 5	1. 7 5	1. 7 5		
III	PROGRAMMING WITH C PRACTICAL	1621UC SPR	2	2		2		2	2	2
	PROGRAMMING WITH PYTHON - II PRACTICAL	1722UC SPR	3	3	3	3		3	3	3
	LINUX PRACTICAL	1623UC	2	2	2	2			2	2

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		SPR								
	DATA STRUCTURES PRACTICAL	1624UC SPR	2	2	2	2		2	2	2
	CALCULUS PRACTICAL	1725UC SPR	2				2	2		2
	STATISTICAL METHODS AND TESTING OF HYPOTHESIS PRACTICAL	1627UC SPR	4				4	4		4
III	THEORY OF COMPUTATION	1731UC STC	1. 7 5	1. 7 5	1. 7 5	1. 7 5	1. 7 5	1. 7 5		
	CORE JAVA	1732UC SCJ	2. 2 5	2. 2 5	2. 2 5	2. 2 5		2. 2 5		2. 25
	OPERATING SYSTEM	1733UC SOS	3	3	3	3			3	3
	DATABASE MANAGEMENT SYSTEM	1734UC SDB	2. 5	2. 5	2. 5	2. 5			2. 5	2. 5
	COMBINATORICS AND GRAPH THEORY	1735UC SCG	2. 2 5	2. 2 5	2. 2 5	2. 2 5	2. 2 5	2. 2 5		2. 25
	PHYSICAL COMPUTING PROGRAMMING AND IOT	1736UC SPC	2. 7 5	2. 7 5	2. 7 5	2. 7 5			2. 7 5	2. 75
	WEB PROGRAMMING	1737UC SWP	2. 2 5	2. 2 5	2. 2 5	2. 2 5	2. 2 5	2. 2 5		2. 25
	CORE JAVA PRACTICAL	1732UC SPR	2	2	2	2			2	2
	OPERATING SYSTEM PRACTICAL	1733UC SPR	2	2	2	2			2	2
	DATABASE MANAGEMENT SYSTEM PRACTICAL	1734UC SPR	2	2	2	2			2	2
IV	COMBINATORICS AND GRAPH THEORY PRACTICAL	1735UC SPR	1	1	1	1		1	1	1
	PHYSICAL COMPUTING PROGRAMMING AND IOT PRACTICAL	1736UC SPR	3	3	3	3			3	3
	WEB PROGRAMMING PRACTICAL	1737UC SPR	1	1	1			1	1	1
	FUNDAMENTALS OF ALGORITHM	1741UC SFA	2	2	2	2		2	2	2
	ADVANCED JAVA	1742UC SAJ	2. 5	2. 5	2. 5	2. 5		2. 5		2. 5
IV	COMPUTER NETWORKS	1743UC SCN	2. 5	2. 5	2. 5	2. 5		2. 5	2. 5	2. 5
	SOFTWARE ENGINEERING	1744UC SSE	2. 5	2. 5	2. 5	2. 5		2. 5	2. 5	2. 25
	LINEAR ALGEBRA USING PYTHON	1745UC SLA	1. 7 5	1. 7 5		1. 7 5	1. 7 5	1. 7 5		
	.NET TECHNOLOGIES	1746UC SNT	3. 7	3. 7	3. 7					3. 75



			5	5	5						
	ANDROID DEVELOPER FUNDAMENTALS	1747UC SAD	2.5	2.5	2.5			2.5	2.5	2.5	
	FUNDAMENTALS OF ALGORITHM PRACTICAL	1741UC SPR	1	1	1	1		1	1	1	1
	ADVANCED JAVA PRACTICAL	1742UC SPR	1	1	1	1			1		1
	COMPUTER NETWORKS PRACTICAL	1743UC SPR	3	3	3	3			3	3	3
	LINEAR ALGEBRA USING PYTHON PRACTICAL	1745UC SPR	2	2			2	2		2	
	.NET TECHNOLOGIES PRACTICAL	1746UC SPR	2	2	2						*
	ANDROID DEVELOPER FUNDAMENTALS PRACTICAL	1747UC SPR	2	2	2	2			2	2	2
V	GAME PROGRAMMING	1857UC SGP	2	2	2	2	2	2		2	2
	ARTIFICIAL INTELLIGENCE	1851UC SAI	2	2	2	2	2	2	2	2	
	LINUX SERVER ADMINISTRATION	1852UC SLA	2	2	2				2	2	
	SOFTWARE TESTING AND QUALITY ASSURANCE	1853UC SST	N A	N A	N A	N A	N A	N A	N A	N A	
	INFORMATION AND NETWORK SECURITY	1854UC SNS	1. 5	1. 5	1. 5	1. 5			1. 5	1. 5	1. 5
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION	1855UC SWN	2. 5	2. 5	2. 5				2. 5	2. 5	25
	WEB SERVICES	1856UC SWS	N A	N A	N A	N A			N A	N A	N A
	GAME PROGRAMMING PRACTICAL	1857UC SPR	4	4	4	4	4	4		4	4
	PROJECT IMPLEMENTATION	1858UC SPR	2	2	2	2	2	2	2	2	2
	ARTIFICIAL INTELLIGENCE PRACTICAL	1851UC SPR	3	3	3	3	3	3	3	3	3
	LINUX SERVER ADMINISTRATION PRACTICAL	1852UC SPR	3	3	3				3	3	
VI	SOFTWARE TESTING AND QUALITY ASSURANCE PRACTICAL	1853UC SPR	N A	N A	N A	N A	N A	N A	N A	N A	
	INFORMATION AND NETWORK SECURITY PRACTICAL	1854UC SPR	3	3	3	3			3	3	3
	WIRELESS SENSOR NETWORKS AND MOBILE COMMUNICATION PRACTICAL	1855UC SPR	4	4	4				4		4
	WEB SERVICES PRACTICAL	1856UC SPR	N A	N A	N A	N A			N A	N A	N A
VI	ETHICAL HACKING	1867UC SEH	2. 5	2. 5	2. 5	2. 5			2. 5	2. 5	2. 5
	ARCHITECTING OF IOT	1861UC SIT	N A	N A	N A	N A			N A	N A	N A



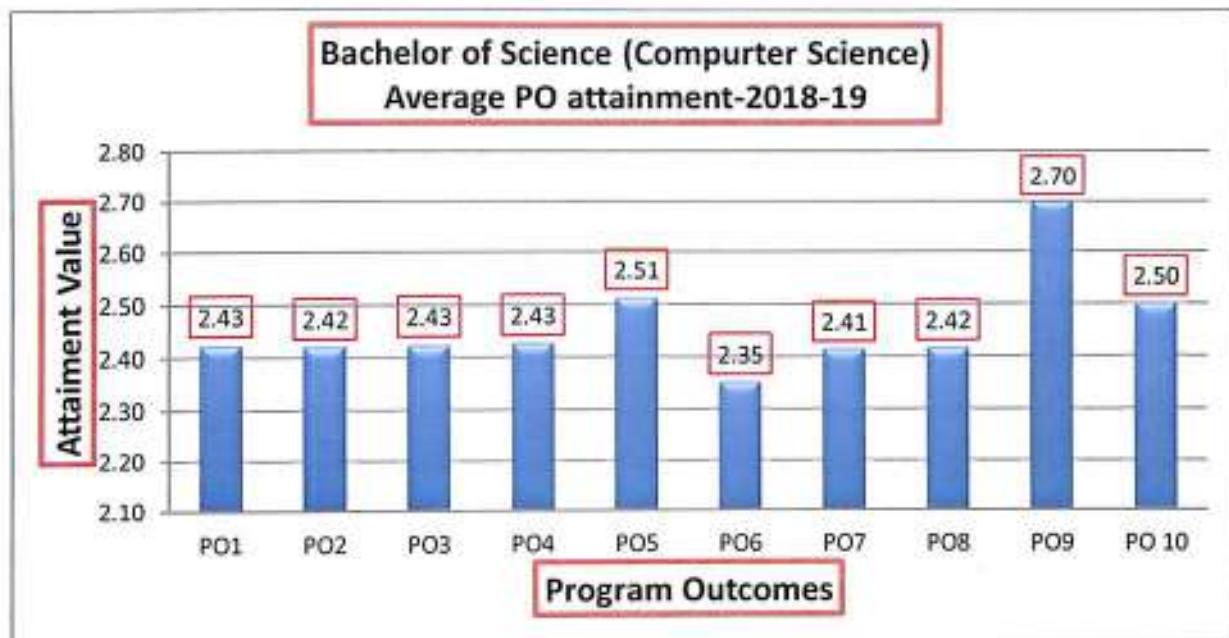
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CLOUD COMPUTING	1862UC SCC	3	3	3	3			3	3	3	3
CYBER FORENSICS	1863UC SCF	2	2	2	2	2	2	2	2	2	2
INFORMATION RETRIEVAL	1864UC SIR	N A	N A	N A				N A	N A		N A
DIGITAL IMAGE PROCESSING	1865UC SDP	0. 5		0. 5							
DATA SCIENCE	1866UC SDS	2. 5	2. 25								
ETHICAL HACKING PRACTICAL	1867UC SPR	4	4	4	4			4	4	4	4
PROJECT IMPLEMENTATION	1868UC SPR	4	4	4	4	4	4	4	4	4	4
ARCHITECTING OF IOT PRACTICAL	1861UC SPR	N A	N A	N A	N A			N A	N A		N A
CLOUD COMPUTING PRACTICAL	1862UC SPR	3	3	3	3			3	3	3	3
CYBER FORENSICS PRACTICAL	1863UC SPR	5	5	5	5	5	5	5	5	5	5
INFORMATION RETRIEVAL PRACTICAL	1864UC SPR	N A	N A	N A				N A	N A		N A
DIGITAL IMAGE PROCESSING PRACTICAL	1865UC SPR	2	2	2	2	2	2	2	2		2
DATA SCIENCE PRACTICAL	1866UC SPR	4	4	4	4	4	4	4	4	4	4
	Average	2. 4 3	2. 4 2	2. 4 3	2. 4 3	2. 5 1	2. 3 5	2. 4 1	2. 4 2	2. 4 0	2. 7 50

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 program outcomes is greater than 2. It means, PO attainment by corresponding courses is very good level (value between 2.0 and 2.5).

ANNEXTURE H

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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 - 2018-19

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
I	BUSINESS COMMUNICATION	1711UITBC	*			*			*	*	*	*
	INTRODUCTION TO PROGRAMMING	1712UITIP	*	*	*	*	*	*	*	*		*
	DIGITAL LOGIC DESIGN	1713UITDL	*	*	*	*		*	*	*		*
	OPERATING SYSTEMS	1714UITOS	*	*		*			*	*		*
	DISCRETE MATHEMATICS	1715UITDM	*	*			*	*				
	BUSINESS COMMUNICATION PRACTICAL	1711UITPR	*			*			*	*	*	*
	INTRODUCTION TO PROGRAMMING PRACTICAL	1712UITPR	*	*	*	*	*	*	*	*		*
	DIGITAL ELECTRONICS PRACTICAL	1713UITPR	*	*	*	*		*	*	*		*
	OPERATING SYSTEMS PRACTICAL	1714UITPR	*	*		*			*	*		*
	DISCRETE MATHEMATICS PRACTICAL	1715UITPR	*	*			*	*				
II	OBJECT ORIENTED PROGRAMMING	1621UITOP	*	*		*					*	*
	MICROPROCESSOR ARCHITECTURE	1622UITMA	*	*	*	*					*	*
	WEB PROGRAMMING	1623UITWP	*	*	*	*			*	*		*
	GREEN COMPUTING	1624UITGC	*	*	*	*			*	*	*	*
	NUMERICAL AND STATISTICAL	1625UITNS	*	*			*	*				



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METHODS										
OBJECT ORIENTED PROGRAMMIN G PRACTICAL	1621UITPR	*	*	*				*	*	*
MICROPROCES SOR ARCHITECTUR E PRACTICAL	1622UITPR	*	*	*	*			*	*	*
WEB PROGRAMMIN G PRACTICAL	1623UITPR	*	*	*	*			*	*	*
GREEN COMPUTING PRACTICAL	1624UITPR	*	*	*	*			*	*	*
NUMERICAL AND STATISTICAL METHODS PRACTICAL	1625UITPR	*	*			*	*			
PYTHON PROGRAMMIN G	1731UITPP	*	*	*	*			*	*	*
DATA STRUCTURES	1732UITDS	*	*	*	*			*	*	*
COMPUTER NETWORKS	1733UITCN	*	*	*	*			*	*	*
DATABASE MANAGEMENT SYSTEMS	1734UITD M	*	*	*	*	*				*
APPLIED MATHEMATICS	1735UITA M	*	*			*	*			
PYTHON PROGRAMMIN G PRACTICAL	1731UITPR	*	*	*	*			*	*	*
DATA STRUCTURES PRACTICAL	1732UITPR	*	*	*	*			*	*	*
COMPUTER NETWORKS PRACTICAL	1733UITPR	*	*	*	*			*	*	*
DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UITPR	*	*	*	*	*				*
MOBILE PROGRAMMIN G PRACTICAL	1735UITPR	*	*	*	*	*	*	*		*
CORE JAVA	1741UITCJ	*	*	*	*			*		*
INTRODUCTIO N TO EMBEDDED	1742UITES	*	*	*	*					



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SYSTEMS										
COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UITST	*	*	*	*	*	*	*	*	*
SOFTWARE ENGINEERING	1744UITSE	*	*	*	*	*	*	*	*	*
COMPUTER GRAPHICS AND ANIMATION	1745UITCG	*	*	*	*	*	*	*	*	*
CORE JAVA PRACTICAL	1741UITPR	*	*	*	*			*		*
INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UITPR	*	*	*	*					
COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UITPR	*	*	*	*	*	*	*	*	*
SOFTWARE ENGINEERING PRACTICAL	1744UITPR	*	*	*	*	*	*	*	*	*
COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UITPR	*	*	*	*	*	*	*	*	*
III	SOFTWARE PROJECT MANAGEMENT	1851UITPM	*	*	*	*			*	*
	INTERNET OF THINGS	1852UITIT	*	*	*	*	*	*	*	*
	ADVANCED WEB PROGRAMMING	1853UITWP	*	*	*				*	*
	ARTIFICIAL INTELLIGENCE	1854UITAI	*	*	*	*	*	*	*	*
	LINUX SYSTEM ADMINISTRATION	1855UITLA	*	*	*	*			*	*
	ENTERPRISE JAVA	1856UIITEJ	*	*	*	*		*	*	*
	NEXT GENERATION TECHNOLOGIES	1857UITNG	*	*	*			*	*	
	PROJECT DISSERTATION	1851UITPR	*	*	*	*	*	*	*	*
	INTERNET OF THINGS	1852UITPR	*	*	*	*	*	*	*	*


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PRACTICAL										
ADVANCED WEB PROGRAMMING PRACTICAL	1853UITPR	*	*	*					*	*
ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	*	*	*	*	*	*	*	*	*
LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITPR	*	*	*	*				*	*
ENTERPRISE JAVA PRACTICAL	1856UITPR	*	*	*	*			*	*	*
NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UITPR	*	*	*				*	*	
III	SOFTWARE QUALITY ASSURANCE	1861UITSQ	*	*	*	*	*	*	*	*
	SECURITY IN COMPUTING	1862UITSC	*	*	*	*	*		*	*
	BUSINESS INTELLIGENCE	1863UITBI	*	*	*	*	*	*	*	*
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UITGI	*	*	*				*	*
	ENTERPRISE NETWORKING	1865UITEN	*	*	*	*	*	*	*	*
	IT SERVICE MANAGEMENT	1866UITIS	*	*	*	*		*	*	*
	CYBER LAWS	1867UITCL	*	*	*	*		*	*	*
	PROJECT IMPLEMENTATION	1861UITPR	*	*	*	*	*	*	*	*
	SECURITY IN COMPUTING PRACTICAL	1862UITPR	*	*	*	*	*		*	*
	BUSINESS INTELLIGENCE PRACTICAL	1863UITPR	*	*	*	*	*	*	*	*
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	*	*	*				*	*
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	*	*	*	*	*	*	*	*



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ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UITPR	*	*	*	*	*	*	*	*	*
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Table No. H.2: CO Attainment Level: Bachelor of Science- B. Sc. (Information Technology)
Academic Year - 2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION	1711UITBC	3.25	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING	1712UITIP	2.75	2	Fully Attained	NA
	DIGITAL LOGIC DESIGN	1713UITDL	3	2	Fully Attained	NA
	OPERATING SYSTEMS	1714UITOS	2.25	2	Fully Attained	NA
	DISCRETE MATHEMATICS	1715UITDM	1.5	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	BUSINESS COMMUNICATION PRACTICAL	1711UITPR	4	2	Fully Attained	NA
	INTRODUCTION TO PROGRAMMING PRACTICAL	1712UITPR	1	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DIGITAL ELECTRONICS PRACTICAL	1713UITPR	2	2	Fully Attained	NA
	OPERATING SYSTEMS PRACTICAL	1714UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISCRETE MATHEMATICS PRACTICAL	1715UITPR	2	2	Fully Attained	NA
II	OBJECT ORIENTED	1621UITOP	2.25	2	Fully	NA

	PROGRAMMING				Attained	
	MICROPROCESSOR ARCHITECTURE	1622UITMA	2.25	2	Fully Attained	NA
	WEB PROGRAMMING	1623UITWP	3.75	2	Fully Attained	NA
	GREEN COMPUTING	1624UITGC	1.5	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	NUMERICAL AND STATISTICAL METHODS	1625UITNS	1.75	2	Fully Attained	
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1621UITPR	2	2	Fully Attained	NA
	MICROPROCESSOR ARCHITECTURE PRACTICAL	1622UITPR	0	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	WEB PROGRAMMING PRACTICAL	1623UITPR	2	2	Fully Attained	NA
	GREEN COMPUTING PRACTICAL	1624UITPR	3	2	Fully Attained	NA
	NUMERICAL AND STATISTICAL METHODS PRACTICAL	1625UITPR	2	2	Fully Attained	NA
III	PYTHON PROGRAMMING	1731UITPP	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DATA STRUCTURES	1732UITDS	2.5	2	Fully Attained	NA
	COMPUTER NETWORKS	1733UITCN	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DATABASE MANAGEMENT SYSTEMS	1734UITDM	2.5	2	Fully Attained	NA
	APPLIED MATHEMATICS	1735UITAM	2.25	2	Fully Attained	NA
	PYTHON	1731UITPR	4	2	Fully	NA

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	PROGRAMMING PRACTICAL				Attained	
	DATA STRUCTURES PRACTICAL	1732UITPR	1	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMPUTER NETWORKS PRACTICAL	1733UITPR	2	2	Fully Attained	NA
	DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UITPR	2	2	Fully Attained	NA
	MOBILE PROGRAMMING PRACTICAL	1735UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
IV	CORE JAVA	1741UITCJ	2.5	2	Fully Attained	NA
	INTRODUCTION TO EMBEDDED SYSTEMS	1742UITES	2.5	2	Fully Attained	NA
	COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UITST	2.5	2	Fully Attained	NA
	SOFTWARE ENGINEERING	1744UITSE	1.75	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMPUTER GRAPHICS AND ANIMATION	1745UITCG	2.5	2	Fully Attained	NA
	CORE JAVA PRACTICAL	1741UITPR	2	2	Fully Attained	NA
	INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	SOFTWARE ENGINEERING PRACTICAL	1744UITPR	3	2	Fully Attained	NA



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	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UITPR	2	2	Fully Attained	NA
V	SOFTWARE PROJECT MANAGEMENT	1851UITPM	1.5	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTERNET OF THINGS	1852UITIT	2.25	2	Fully Attained	NA
	ADVANCED WEB PROGRAMMING	1853UITWP	2	2	Fully Attained	NA
	ARTIFICIAL INTELLIGENCE	1854UITAI	2.5	2	Fully Attained	NA
	LINUX SYSTEM ADMINISTRATION	1855UITLA	NA	2	NA	NA
	ENTERPRISE JAVA	1856UITEJ	2.5	2	Fully Attained	NA
	NEXT GENERATION TECHNOLOGIES	1857UITNG	NA	2	NA	NA
	PROJECT DISSERTATION	1851UITPR	3	2	Fully Attained	NA
	INTERNET OF THINGS PRACTICAL	1852UITPR	1	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	2	2	Fully Attained	NA
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITPR	NA	2	NA	NA
	ENTERPRISE JAVA PRACTICAL	1856UITPR	0	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UITPR	NA	2	NA	NA
VI	SOFTWARE QUALITY ASSURANCE	1861UITSQ	1.75	2	Not Attained	Assignments, tutorials, exercises and

						remedial coaching shall be planned.
	SECURITY IN COMPUTING	1862UITSC	2.25	2	Fully Attained	NA
	BUSINESS INTELLIGENCE	1863UITBI	2.5	2	Fully Attained	NA
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UITGI	2	2	Fully Attained	NA
	ENTERPRISE NETWORKING	1865UITEN	NA	2	NA	NA
	IT SERVICE MANAGEMENT	1866UITIS	1.75	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	CYBER LAWS	1867UITCL	NA	2	NA	NA
	PROJECT IMPLEMENTATION	1861UITPR	3	2	Fully Attained	NA
	SECURITY IN COMPUTING PRACTICAL	1862UITPR	4	2	Fully Attained	NA
	BUSINESS INTELLIGENCE PRACTICAL	1863UITPR	2	2	Fully Attained	NA
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	NA	2	NA	NA
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UITPR	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Average	2.06				

NA means not applicable as target is fully attained. In this case, some courses were offered by institute but not opted by students.


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Table No. H.2a: PO Attainment Level- B. Sc. (Information Technology)-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	4	4	Fully Attained	NA
<i>NA means not applicable as target is fully attained.</i>				

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 is equal to target level-4. Hence at present no plan is required.

**Table No. H.3: Results of CO-PO attainment-
B. Sc. (Information Technology)-B. Sc.(IT)-Academic Year 2018-19**

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
I	BUSINESS COMMUNICATION	1711UITBC	3.25			3.25			3.25	3.25	3.25	3.25
	INTRODUCTION TO PROGRAMMING	1712UITIP	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75		2.75
	DIGITAL LOGIC DESIGN	1713UITDL	3	3	3	3		3	3	3		3
	OPERATING SYSTEMS	1714UITOS	2.25	2.25		2.25			2.25	2.25		2.25
	DISCRETE MATHEMATICS	1715UITDM	1.5	1.5			1.5	1.5				
	BUSINESS COMMUNICATION PRACTICAL	1711UITPR	4			4			4	4	4	4
	INTRODUCTION TO PROGRAMMING PRACTICAL	1712UITPR	1	1	1	1	1	1	1	1		1
	DIGITAL ELECTRONICS PRACTICAL	1713UITPR	2	2	2	2		2	2	2		2
	OPERATING SYSTEMS PRACTICAL	1714UITPR	1	1		1			1	1		1
	DISCRETE MATHEMATICS PRACTICAL	1715UITPR	2	2			2	2				
II	OBJECT	1621UITOP	2.25	2.25		2.25				2.25	2.25	2.25

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	ORIENTED PROGRAMMING									
	MICROPROCESSOR ARCHITECTURE	1622UITMA	2.25	2.25	2.25	2.25			2.25	2.25
	WEB PROGRAMMING	1623UITWP	3.75	3.75	3.75	3.75			3.75	3.75
	GREEN COMPUTING	1624UITGC	1.5	1.5	1.5	1.5			1.5	1.5
	NUMERICAL AND STATISTICAL METHODS	1625UITNS	1.75	1.75			1.75	1.75		
	OBJECT ORIENTED PROGRAMMING PRACTICAL	1621UITPR	2	2		2			2	2
	MICROPROCESSOR ARCHITECTURE PRACTICAL	1622UITPR	0	0	0	0			0	0
	WEB PROGRAMMING PRACTICAL	1623UITPR	2	2	2	2			2	2
	GREEN COMPUTING PRACTICAL	1624UITPR	1.5	1.5	1.5	1.5			1.5	1.5
	NUMERICAL AND STATISTICAL METHODS PRACTICAL	1625UITPR	2	2			2	2		
III	PYTHON PROGRAMMING	1731UITPP	1.5	1.5	1.5	1.5			1.5	1.5
	DATA STRUCTURES	1732UITDS	2.5	2.5	2.5	2.5			2.5	2.5
	COMPUTER NETWORKS	1733UITCN	1.75	1.75	1.75	1.75			1.75	1.75
	DATABASE MANAGEMENT SYSTEMS	1734UITDM	2.5	2.5	2.5	2.5	2.5			2.5
	APPLIED MATHEMATICS	1735UITAM	2.25	2.25			2.25	2.25		
	PYTHON PROGRAMMING PRACTICAL	1731UITPR	4	4	4	4			4	4
	DATA STRUCTURES PRACTICAL	1732UITPR	1	1	1	1			1	1

	COMPUTER NETWORKS PRACTICAL	1733UITPR	2	2	2	2		2	2	2
	DATABASE MANAGEMENT SYSTEMS PRACTICAL	1734UITPR	2	2	2	2	2			2
	MOBILE PROGRAMMING PRACTICAL	1735UITPR	1	1	1	1	1	1		1
	CORE JAVA	1741UITCJ	2.5	2.5	2.5	2.5			2.5	2.5
	INTRODUCTION TO EMBEDDED SYSTEMS	1742UITES	2.5	2.5	2.5	2.5				
	COMPUTER ORIENTED STATISTICAL TECHNIQUES	1743UITST	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	SOFTWARE ENGINEERING	1744UITSE	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	COMPUTER GRAPHICS AND ANIMATION	1745UITCG	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	CORE JAVA PRACTICAL	1741UITPR	2	2	2	2			2	2
IV	INTRODUCTION TO EMBEDDED SYSTEMS PRACTICAL	1742UITPR	1	1	1	1				
	COMPUTER ORIENTED STATISTICAL TECHNIQUES PRACTICAL	1743UITPR	1	1	1	1	1	1	1	1
	SOFTWARE ENGINEERING PRACTICAL	1744UITPR	3	3	3	3	3	3	3	3
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	1745UITPR	2	2	2	2	2	2	2	2
V	SOFTWARE PROJECT MANAGEMENT	1851UITPM	1.5	1.5	1.5	1.5			1.5	1.5
	INTERNET OF THINGS	1852UITIT	2.25	2.25	2.25	2.25		2.25	2.25	2.25
	ADVANCED WEB PROGRAMMING	1853UITWP	2	2	2				2	2

	ARTIFICIAL INTELLIGENCE	1854UITAI	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	LINUX SYSTEM ADMINISTRATION	1855UITLA	NA	NA	NA	NA			NA		NA
	ENTERPRISE JAVA	1856UITEJ	2.5	2.5	2.5	2.5			2.5	2.5	2.5
	NEXT GENERATION TECHNOLOGIES	1857UITNG	NA	NA	NA				NA	NA	
	PROJECT DISSERTATION	1851UITPR	3	3	3	3	3	3	3	3	3
	INTERNET OF THINGS PRACTICAL	1852UITPR	1	1	1	1		1	1	1	1
	ADVANCED WEB PROGRAMMING PRACTICAL	1853UITPR	1	1	1				1		1
	ARTIFICIAL INTELLIGENCE PRACTICAL	1854UITPR	2	2	2	2	2	2	2		2
	LINUX SYSTEM ADMINISTRATION PRACTICAL	1855UITPR	NA	NA	NA	NA			NA		NA
	ENTERPRISE JAVA PRACTICAL	1856UITPR	0	0	0	0			0	0	0
	NEXT GENERATION TECHNOLOGIES PRACTICAL	1857UITPR	NA	NA	NA				NA	NA	
VI	SOFTWARE QUALITY ASSURANCE	1861UITSQ	1.75	1.75	1.75	1.75	1.75	1.75	1.75		1.75
	SECURITY IN COMPUTING	1862UITSC	2.25	2.25	2.25	2.25	2.25			2.25	2.25
	BUSINESS INTELLIGENCE	1863UITBI	2.5	2.5	2.5	2.5	2.5	2.5	2.5		2.5
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS	1864UITGI	2	2	2				2		2
	ENTERPRISE NETWORKING	1865UITEN	NA		NA						
	IT SERVICE MANAGEMENT	1866UITIS	1.75	1.75	1.75	1.75			1.75	1.75	1.75
	CYBER LAWS	1867UITCL	NA	NA	NA	NA			NA	NA	NA
	PROJECT IMPLEMENTATION	1861UITPR	3	3	3	3	3	3	3	3	3

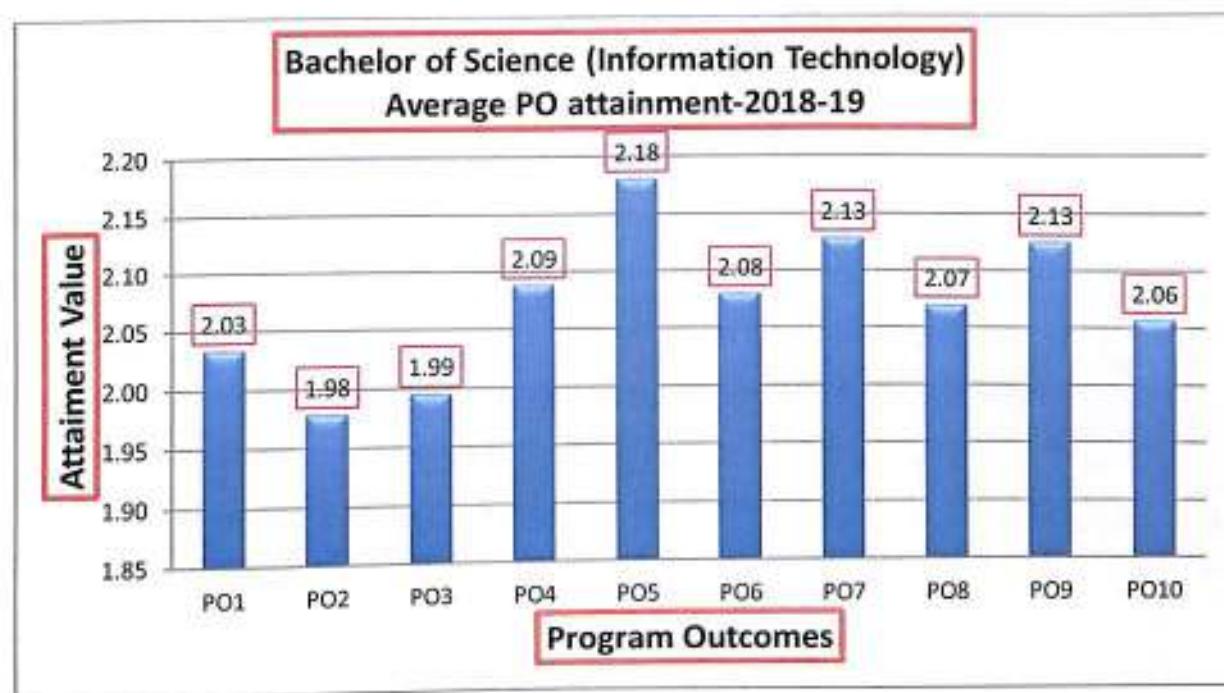


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	SECURITY IN COMPUTING PRACTICAL	1862UITPR	4	4	4	4	4		4	4
	BUSINESS INTELLIGENCE PRACTICAL	1863UITPR	2	2	2	2	2	2	2	2
	PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS PRACTICAL	1864UITPR	1	1	1				1	1
	ENTERPRISE NETWORKING PRACTICAL	1865UITPR	NA							
	ADVANCED MOBILE PROGRAMMING PRACTICAL	1866UITPR	1	1	1	1			1	1
	Average		2.03	1.98	1.99	2.09	2.18	2.08	2.13	2.07
									2.13	2.06

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 two program outcomes is greater than 2. It means, PO attainment by corresponding courses is at very good level (value greater than 2).

ANNEXURE 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-2018-19

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
I	FUNDAMENTALS OF SPORTS & NEW AGE DYNAMICS	1814BSFSD	*			*		*	
I	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	*			*		*	*
I	PRINCIPLES OF MANAGEMENT	1811BSPOM	*			*			*
I	BUSINESS ECONOMICS	1812BSBEC	*			*			
I	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS				*	*		
I	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS		*	*	*	*	*	
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	*			*		*	
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	*			*		*	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	*					*	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	*			*		*	*
II	MARKETING MANAGEMENT	1822BSMMT	*			*			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT – II	1826BSBPS		*	*	*	*	*	*

Table No. I.2: CO Attainment Level: Bachelor of management (Sports management) BMS(SM)- Academic Year - 2018-19

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	2	Fully Attained	NA
	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	3	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	1811BSPOM	3	2	Fully Attained	NA
	BUSINESS ECONOMICS	1812BSBEC	2	2	Fully Attained	NA
	BUSINESS COMMUNICATION	1813BSBCS	3.2	2	Fully Attained	NA

N & SOFT SKILLS						
	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS	3	2	Fully Attained	NA
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	3.4	2	Fully Attained	NA
	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	3.4	2	Fully Attained	NA
	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	3.4	2	Fully Attained	NA
	HUMAN RESOURCE MANAGEMENT	1821BSHRM	3.4	2	Fully Attained	NA
	MARKETING MANAGEMENT	1822BSMMT	3.4	2	Fully Attained	NA
	BASICS OF PRACTICAL SPORTS MANAGEMENT - II	1826BSBPS	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
			2.93	2	Fully Attained	

NA: Not Applicable as target level is fully attained

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

Table No. I.2a: PO Attainment Level- BMS (Sports Management)- 2018-19

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

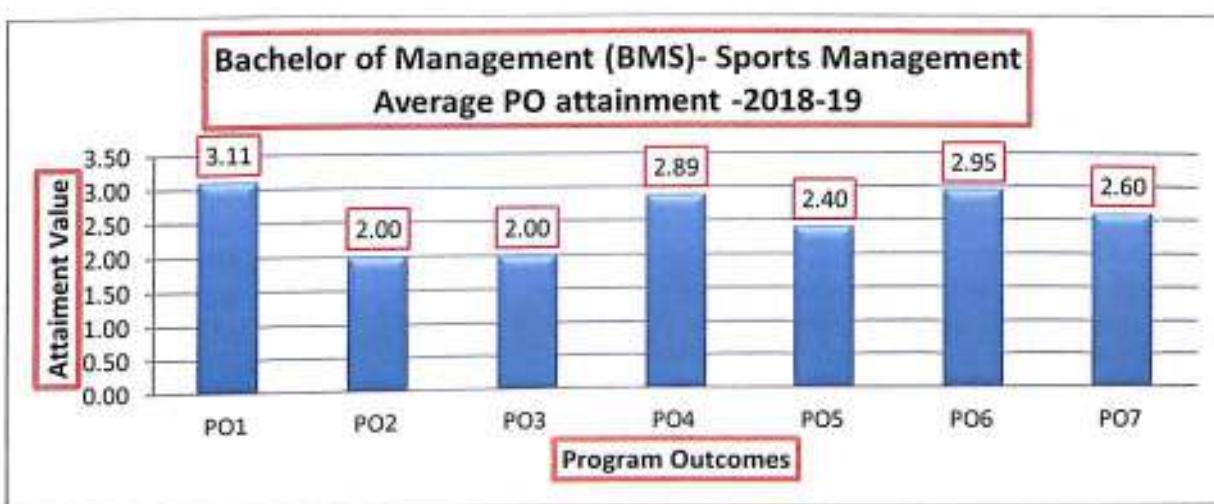
10. Planned Actions for Program Outcome Attainment:

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

**Table No. I.3: Results of CO-PO attainment-
Bachelor of Management Studies (Sports Management)-BMS(SM)-Academic Year 2018-19**

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			3		3	
I	LEADERSHIP PRINCIPLES IN SPORTS	1815BSLPS	3			3		3	3
I	PRINCIPLES OF MANAGEMENT	1811BSPOM	3			3			3
I	BUSINESS ECONOMICS	1812BSBEC	2			2			
I	BUSINESS COMMUNICATION & SOFT SKILLS	1813BSBCS				3.2	3.2		
I	BASICS OF PRACTICAL SPORTS MANAGEMENT - I	1816BSBPS		3	3	3	3	3	
II	MANAGEMENT OF SPORTS LEAGUES & TEAMS	1823BSMLT	3.4			3.4		3.4	
II	SPORTS FACILITIES PLANNING & MANAGEMENT	1824BSSPF	3.4			3.4		3.4	
II	SPORTS EQUIPMENT & TECHNOLOGY MANAGEMENT	1825BSETM	3.4					3.4	
II	HUMAN RESOURCE MANAGEMENT	1821BSHRM	3.4			3.4		3.4	3.4
II	MARKETING MANAGEMENT	1822BSMMT	3.4			3.4			
II	BASICS OF PRACTICAL SPORTS MANAGEMENT - II	1826BSBPS		1	1	1	1	1	1
		Average	3.1 1	2.0 0	2.0 0	2.8 9	2.4 0	2.9 5	2.6 0

Only two semesters data is available as course is stared in the academic year 2018-19



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

ALL POST GRADUATE COURSES

ANNEXTURE J

Master of Arts (Economics)- MA(ECO)

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

Master of Arts (Economics)- MA(ECO)- Academic Year-2018-19

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	MICROECONOMICS -I	1611PMEMI	*	*	*	*		
	MACROECONOMICS -I	1612PMEMA	*	*	*	*		
	ECONOMICS OF DEVELOPMENT	1613PMEED	*	*	*	*	*	*
	STATISTICAL METHODS IN ECONOMICS	1614PMESM		*	*	*		
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	*	*	*	*	*	*
	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-2018-19**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	MICROECONOMICS -I	1611PMEMI	2	2	Fully Attained	NA
	MACROECONOMIC S -I	1612PMEMA	2.6	2	Fully Attained	NA
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.2	2	Fully Attained	NA
	STATISTICAL METHODS IN ECONOMICS	1614PMESM	2.4	2	Fully Attained	NA
II	MICROECONOMICS -II	1623PMEMI	4	2	Fully Attained	NA
	MACROECONOMIC S -II	1624PMEMA	3	2	Fully Attained	NA
	PUBLIC ECONOMICS	1621PMEPE	2.4	2	Fully Attained	NA
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT	3.4	2	Fully Attained	NA
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2.4	2	Fully Attained	NA
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	3	2	Fully Attained	NA
	INDUSTRIAL ECONOMICS	1733PMEIE	2	2	Fully Attained	NA
	BANKING: THEORY AND POLICY	1734PMEBA	2.8	2	Fully Attained	NA
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEA D	2.4	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1742PMEIF	3	2	Fully Attained	NA
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3.4	2	Fully Attained	NA
	RESEARCH PROJECT	1744PMERP	5	2	Fully Attained	NA
	Average		2.88			

NA: Not Applicable as target level is fully attained

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Table No.J.2a: PO Attainment Level- MA (Economics)- 2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is greater than 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 2018-19**

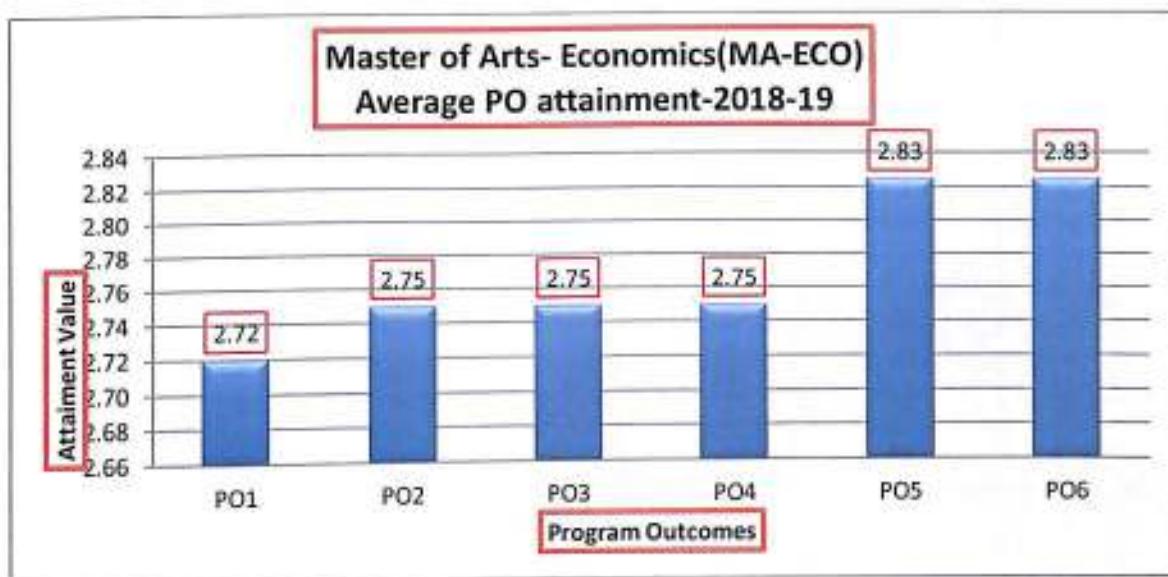
Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	MICROECONOMICS -I	1611PMEMI	2	2	2	2		
	MACROECONOMICS -I	1612PMEMA	2.6	2.6	2.6	2.6		
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.2	2.2	2.2	2.2	2.2	2.2
	STATISTICAL METHODS IN ECONOMICS	1614PMESM		2.4	2.4	2.4		
II	MICROECONOMICS -II	1623PMEMI	4	4	4	4	4	
	MACROECONOMICS -II	1624PMEMA	3	3	3	3		
	PUBLIC ECONOMICS	1621PMEPE	2.4	2.4	2.4	2.4	2.4	2.4
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		3.4	3.4	3.4		
III	ECONOMICS OF AGRICULTURAL	1731PMEAP	2.4	2.4	2.4	2.4	2.4	2.4



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(ECONOMICS)
SUJOD (V), MUMBAI - 400 064

	PRODUCTION AND RURAL MARKETS						
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	3	3	3	3	3
	INDUSTRIAL ECONOMICS	1733PMEIE	2	2	2	2	2
	BANKING: THEORY AND POLICY	1734PMEBA	2.8	2.8	2.8	2.8	2.8
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	2.4	2.4	2.4	2.4	2.4
	INTERNATIONAL FINANCE	1742PMEIF	3	3	3	3	3
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	3.4	3.4	3.4	3.4	3.4
	RESEARCH PROJECT	1744PMERP	5	5	5	5	5
	Average	2.72	2.75	2.75	2.75	2.83	2.83



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).

ANNEXURE K
Master of Arts (Geography)- MA(GEO)
Table No. I.1: PO CO Mapping Matrix:
Master of Arts (Geography)- MA(GEO)- Academic Year-2018-19

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 HYDROLOGY	1621PGEOH	*					*
	GEOINFORMATICS	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	1732PGECT	*				*	



	TROPICS						
	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-2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	2.8	2	Fully Attained	NA
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	3.4	2	Fully Attained	NA
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP	3.6	2	Fully Attained	NA
	SPATIAL ORGANISATION OF ECONOMIC ACTIVITIES	1614PGEEA	3.4	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA	3	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA	4	2	Fully Attained	NA
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	4.6	2	Fully Attained	NA
	GEOINFORMATICS	1622PGEIF	4	2	Fully Attained	NA
	SOCIO-CULTURAL	1623PGEC	4.2	2	Fully	NA

	AND POLITICAL GEOGRAPHY	P			Attained	
	URBAN GEOGRAPHY	1624PGEU G	4	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - III	1625PGES A	3	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGES A	5	2	Fully Attained	NA
III	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGER M	2	2	Fully Attained	NA
	CLIMATOLOGY OF TROPICS	1732PGEC T	3.4	2	Fully Attained	NA
	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGES A	2.8	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGET T	2	2	Fully Attained	NA
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGET T	2	2	Fully Attained	NA
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEH E	2	2	Fully Attained	NA
	ECOLOGY AND ENVIRONMENT	1742PGEE E	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISSERTATION	1743PGED	2	2	Fully Attained	NA
	Average	3.16				

NA: Not Applicable as target level is fully attained



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Table No.K.2a: PO Attainment Level- MA (Geography)- 2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is 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 2018-19**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	PRINCIPLES OF GEOMORPHOLOGY	1611PGEFG	2.8					
	PRINCIPLES OF CLIMATOLOGY	1612PGEPC	3.4					
	PERSPECTIVES IN HUMAN GEOGRAPHY	1613PGESP		3.6	3.6			
	SPATIAL ORGANISATION OF ECONOMIC ACTIVITIES	1614PGEEA		3.4	3.4			
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - I	1615PGESA					3	
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- II	1616PGESA					4	
II	OCEANOGRAPHY AND HYDROLOGY	1621PGEOH	4.6					4.6
	GEOINFORMATICS	1622PGEIF				4		
	SOCIO-CULTURAL AND POLITICAL GEOGRAPHY	1623PGECP		4.2	4.2			
	URBAN GEOGRAPHY	1624PGEUG			4			
	TOOLS AND TECHNIQUES OF	1625PGESA				3	3	

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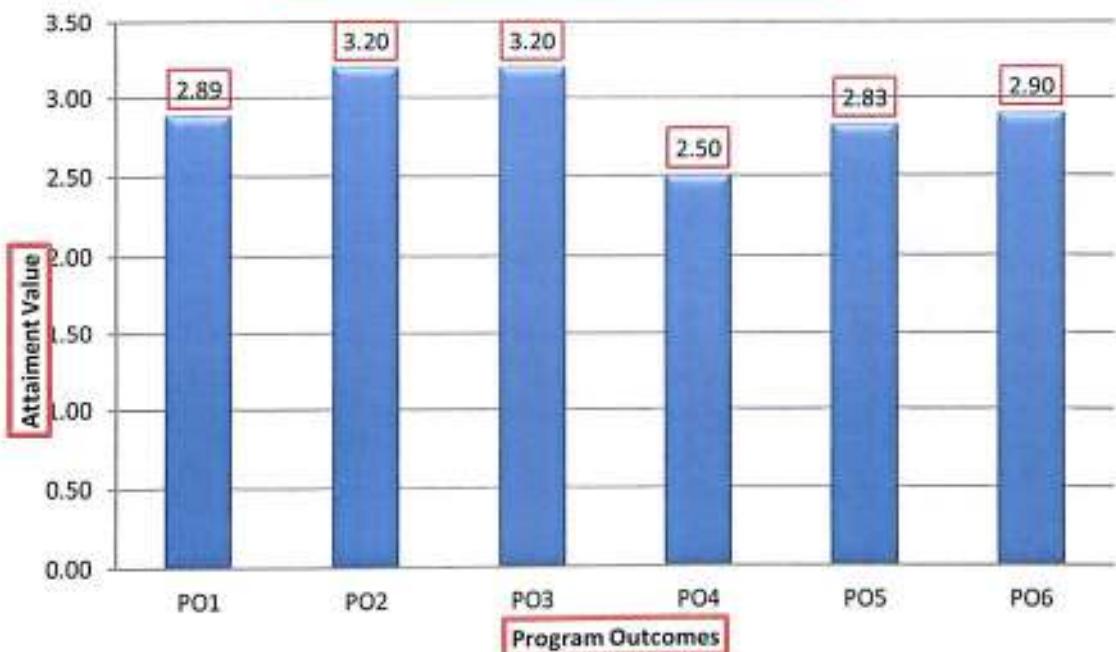
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	SPATIAL ANALYSIS - III						
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- IV	1626PGESA					5
	RESEARCH METHODOLOGY IN GEOGRAPHY	1731PGERM					2
	CLIMATOLOGY OF TROPICS	1732PGECT	2				3.4
III	GEOGRAPHY OF SOUTH ASIA WITH SPECIAL REFERENCE TO INDIA	1733PGESA					
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS - V	1734PGETT					2
	TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- VI	1735PGETT					2
IV	GEO-INFORMATICS AND HEALTH CARE	1741PGEHE	2			2	
	ECOLOGY AND ENVIRONMENT	1742PGEEE					1.6
	DISSERTATION	1743PGED	2	2	2	2	2
		Average	2.89	3.20	3.20	2.50	2.83
							2.90

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Master of Arts- Geography(MA-GEO)
Average PO attainment-2018-19



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).

ANNEXURE L
Master of Commerce (Accountancy)- MCOM (Accountancy)

Table No. I.1: PO CO Mapping Matrix:
Master of Commerce (Accountancy) - MCOM (Accountancy)
Academic Year-2018-19

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



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**Table No. L.2: CO Attainment Level: Master of Commerce (Accountancy)-
MCOM (Accountancy)-Academic Year-2018-19**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	1611PCMSM	3	2	Fully Attained	NA
	MICROECONOMICS	1612PCMEB	3.4	2	Fully Attained	NA
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	3	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	1614PCMBE	2.6	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	1621PCM RM	2.6	2	Fully Attained	NA
	MACROECONOMICS	1622PCMME	2.8	2	Fully Attained	NA
	CORPORATE FINANCE	1623PCMCF	3.4	2	Fully Attained	NA
	E COMMERCE	1624PCM EC	2.6	2	Fully Attained	NA
III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	2.6	2	Fully Attained	NA
	DIRECT TAX	1732PCM D T	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ADVANCED COST ACCOUNTING	1733PCMCA	3	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	2	Fully Attained	NA
IV	CORPORATE	1741PCMCF	2.4	2	Fully	NA

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	FINANCIAL ACCOUNTING				Attained	
	INDIRECT TAX	1742PCMGT	3.2	2	Fully Attained	NA
	IFRS	1743PCMFR	3	2	Fully Attained	NA
	RESEARCH BASED PROJECT	1744PCMRP	5	2	Fully Attained	NA
	Average	2.96				

NA: Not Applicable as target level is fully attained

Table No.L.2a: PO Attainment Level- MCOM (Accountancy)-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is greater than target level-4. Hence at present no plans are required.

Table No. L.3: Results of CO-PO attainment-
Master of Commerce (Accountancy)- MCOM (Accountancy)- Academic Year 2018-19

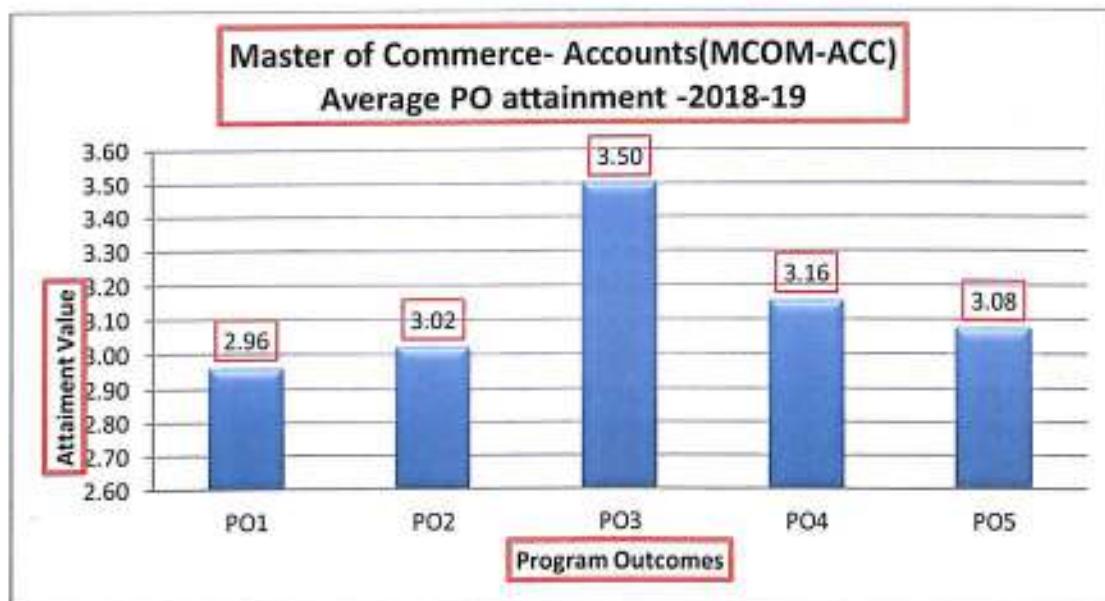
Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO 1	PO 2	PO 3	PO 4	PO 5
I	STRATEGIC MANAGEMENT	1611PCMSM	3		3	3	3
	MICROECONOMICS	1612PCMEB	3.4			3.4	
	COST AND MANAGEMENT ACCOUNTING	1613PCMCA	3			3	
	BUSINESS ETHICS AND CSR	1614PCMBE	2.6			2.6	
II	RESEARCH METHODOLOGY	1621PCMRRM	2.6	2.6	2.6		2.6
	MACROECONOMICS	1622PCMME	2.8			2.8	
	CORPORATE FINANCE	1623PCMCF	3.4	3.4	3.4		3.4
	E COMMERCE	1624PCMECT	2.6	2.6			2.6



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III	ADVANCED FINANCIAL ACCOUNTING	1731PCMFA	2.6	2.6		2.6
	DIRECT TAX	1732PCMDT	1.8	1.8		1.8
	ADVANCED COST ACCOUNTING	1733PCMCA	3		3	
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	3	3	3
IV	CORPORATE FINANCIAL ACCOUNTING	1741PCMCF	2.4			
	INDIRECT TAX	1742PCMGT	3.2	3.2		3.2
	IFRS	1743PCMFR	3	3		
	RESEARCH BASED PROJECT	1744PCMRF	5	5	5	5
		Average	2.96	3.02	3.50	3.16
						3.08



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).

ANNEXURE M
Master of Commerce (Management)- MCOM (Management)

Table No. M.1: PO CO Mapping Matrix:
Master of Commerce (Management) - MCOM (Management)
Academic Year-2018-19

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
I	STRATEGIC MANAGEMENT	1611PCMSM	*		*	*	*
	MICROECONOMICS	1612PCMEB	*			*	
	SERVICE MARKETING	1715PCMMK	*			*	*
	BUSINESS ETHICS AND CSR	1614PCMBE	*			*	
II	RESEARCH METHODOLOGY	1621PCM RM	*	*	*		*
	MACROECONOMICS	1622PCM ME	*			*	
	RETAIL MANAGEMENT	1723PCM RM	*	*		*	*
	E COMMERCE	1624PCM EC	*	*			*
III	RURAL MARKETING	1731PCM RM	*			*	
	ENTREPRENEURSHIP	1732PCM EP	*		*	*	*
	ORGANISATIONAL BEHAVIOUR	1733PCM OB	*		*	*	*
	INTERNSHIP BASED PROJECT WORK	1734PCM IP	*	*		*	*
IV	RESEARCH BASED PROJECT	1744PCM RP	*	*	*	*	*
	SUPPLY CHAIN MANAGEMENT	1741PCM ML	*	*		*	
	BRAND MANAGEMENT	1742PCM BM	*			*	*
	MANAGEMENT OF BUSINESS RELATIONS	1743PCM BR	*			*	*

Table No. M.2: CO Attainment Level: Master of Commerce (Management)- MCOM (Management)-Academic Year-2018-19

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	1611PCMSM	2.4	2	Fully Attained	NA
	MICROECONOMICS	1612PCMEB	4.4	2	Fully Attained	NA
	SERVICE	1715PCMMK	3.6	2	Fully Attained	NA



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	MARKETING					
	BUSINESS ETHICS AND CSR	1614PCMBE	3	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	1621PCMRRM	4	2	Fully Attained	NA
	MACROECONOMICS	1622PCMME	3.8	2	Fully Attained	NA
	RETAIL MANAGEMENT	1723PCMRRM	3.6	2	Fully Attained	NA
	E COMMERCE	1624PCMEC	3	2	Fully Attained	NA
III	RURAL MARKETING	1731PCMRRM	2.8	2	Fully Attained	NA
	ENTREPRENEURSHIP	1732PCMEEP	4	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	1733PCMBOB	3.2	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	2	Fully Attained	NA
IV	RESEARCH BASED PROJECT	1744PCMMP	5	2	Fully Attained	NA
	SUPPLY CHAIN MANAGEMENT	1741PCMML	5	2	Fully Attained	NA
	BRAND MANAGEMENT	1742PCMNM	4.4	2	Fully Attained	NA
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMNR	4	2	Fully Attained	NA
	Average	3.79				

NA: Not Applicable as target level is fully attained.

Table No.M.2a: PO Attainment Level- (Management)-2018-19

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2018-19	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 is greater than 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 2018-19

Semester	Course	Course Code	PROGRAMME OUTCOME				
			PO1	PO2	PO3	PO4	PO5
I	STRATEGIC MANAGEMENT	1611PCMMSM	2.4		2.4	2.4	2.4
	MICROECONOMICS	1612PCMEB	4.4			4.4	
	SERVICE MARKETING	1715PCMmk	3.6			3.6	3.6
	BUSINESS ETHICS AND CSR	1614PCMBe	3			3	
II	RESEARCH METHODOLOGY	1621PCMRRM	4	4	4		4
	MACROECONOMICS	1622PCMME	3.8			3.8	
	RETAIL MANAGEMENT	1723PCMRRM	3.6	3.6		3.6	3.6
	E COMMERCE	1624PCMec	3	3			3
III	RURAL MARKETING	1731PCMRRM	2.8			2.8	
	ENTREPRENEURSHIP	1732PCMep	4		4	4	4
	ORGANISATIONAL BEHAVIOUR	1733PCMOb	3.2		3.2	3.2	3.2
	INTERNSHIP BASED PROJECT WORK	1734PCMIP	3	3		3	3
IV	RESEARCH BASED PROJECT	1744PCMRp	5	5	5	5	5
	SUPPLY CHAIN MANAGEMENT	1741PCMML	5	5		5	
	BRAND MANAGEMENT	1742PCMbm	4.4			4.4	4.4
	MANAGEMENT OF BUSINESS RELATIONS	1743PCMBr	4			4	4
		Average	3.70	3.93	3.72	3.73	3.65



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-2018-19

Semester	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	ADVANCE DATABASE SYSTEMS	1711PIT DB	*	*	*	*	*			*	*	*		*
	DISTRIBUTED SYSTEMS	1612PIT DS	*	*	*	*	*			*	*	*	*	*
	DATA ANALYSIS TOOLS	1613PIT DA	*	*	*	*	*	*	*	*	*	*		
	SOFTWARE TESTING	1614PITS T	*	*	*	*	*		*	*	*	*	*	*
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PITP DB	*	*	*	*	*			*	*	*		*
	DISTRIBUTED SYSTEMS PRACTICAL	1616PIT DS	*	*	*	*	*			*	*	*	*	*
	DATA ANALYSIS TOOLS PRACTICAL	1617PIT DA	*	*	*	*	*	*		*	*	*		
	SOFTWARE TESTING PRACTICAL	1618PITS T	*	*	*	*	*		*	*	*	*	*	*
II	MOBILE COMPUTING	1621PIT MC	*	*	*	*	*			*	*	*	*	*
	ADVANCED COMPUTER NETWORKS	1622PIT CN	*	*	*	*				*	*	*		*
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PIT CC	*	*	*	*				*	*	*	*	*
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE	1724PIT DM	*	*	*	*	*	*	*	*	*	*		*
	MOBILE COMPUTING PRACTICAL	1625PIT MC	*	*	*	*	*			*	*	*	*	*



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	ADVANCED COMPUTER NETWORKS PRACTICAL	1626PIT CN	*	*	*	*				*	*	*		*
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM PRACTICAL	1627PIT CC	*	*	*	*				*	*	*	*	*
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PIT DM	*	*	*	*	*	*	*	*	*	*		*
III	EMBEDDED SYSTEMS	1731PIT ES	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT	1732PITI S	*	*	*	*				*	*			*
	ARTIFICIAL NEURAL NETWORKS	1733PIT NN	*	*	*	*				*	*	*		*
	VIRTUALIZATION	1733PIT VR	*	*	*					*				*
	DIGITAL IMAGE PROCESSING	1734PITI P	*	*						*	*			
	ETHICAL HACKING	1734PIT EH	*	*	*	*	*	*	*	*	*		*	*
	EMBEDDED SYSTEMS PRACTICAL	1731PES PR	*	*	*	*				*	*	*		*
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PISP R	*	*	*	*				*	*			*
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PNN PR	*	*	*					*	*	*		*
	VIRTUALIZATION PRACTICAL	1733PVR PR	*	*	*					*				*
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIPP R	*	*						*	*			


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	ETHICAL HACKING PRACTICAL	1734PEH PR	*	*	*	*	*	*	*	*	*	*	*	*
IV	ARTIFICIAL INTELLIGENCE	1741PIT AI	*	*	*	*	*	*	*	*	*	*	*	*
	IT INFRASTRUCTURE MANAGEMENT	1742PITI M	*	*	*						*	*	*	*
	INTELLIGENT SYSTEMS	1743PITI S	*	*	*	*	*	*		*	*	*	*	*
	REAL TIME EMBEDDED SYSTEMS	1743PIT ES	*	*	*					*				*
	COMPUTER FORENSICS	1843PIT CF	*	*	*	*				*	*	*		*
	ADVANCED IMAGE PROCESSING	1744PITI P	*	*	*						*	*		
	DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PIT ES	*	*	*	*				*	*	*		
	CLOUD MANAGEMENT	1744PIT CM	*	*	*						*	*		*
	INTELLIGENT SYSTEMS PRACTICAL	1745PITI S	*	*	*	*	*	*		*	*	*		*
	REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PIT ES	*	*	*						*			*
	COMPUTER FORENSICS PRACTICAL	1845PIT CF	*	*	*	*				*	*	*		*
	ADVANCED IMAGE PROCESSING PRACTICAL	1746PITI P	*	*	*						*	*		
	DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PIT ES	*	*	*	*				*	*	*		
	CLOUD MANAGEMENT PRACTICAL	1746PIT CM	*	*	*						*	*		*
	PROJECT	1747PITP R	*	*	*	*	*	*	*	*	*	*		*


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**Table No. N.2: CO Attainment Level: Master of Science (Information Technology)-
M.Sc.(IT)-Academic Year-2018-19**

semest er	Course	Course Code	CO Attainmen t value	Attainmen t Target Level	Fully Attained/ Not Attained	Remedial Measures
I	ADVANCE DATABASE SYSTEMS	1711PITDB	0.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	DISTRIBUTED SYSTEMS	1612PITDS	2	2	Fully Attained	NA
	DATA ANALYSIS TOOLS	1613PITDA	2	2	Fully Attained	NA
	SOFTWARE TESTING	1614PITST	2.4	2	Fully Attained	NA
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PITPDB	2	2	Fully Attained	NA
	DISTRIBUTED SYSTEMS PRACTICAL	1616PITDS	2	2	Fully Attained	NA
	DATA ANALYSIS TOOLS PRACTICAL	1617PITDA	2	2	Fully Attained	NA
	SOFTWARE TESTING PRACTICAL	1618PITST	2	2	Fully Attained	NA
II	MOBILE COMPUTING	1621PITMC	2.6	2	Fully Attained	NA
	ADVANCED COMPUTER NETWORKS	1622PITCN	2	2	Fully Attained	NA
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PITCC	3.4	2	Fully Attained	NA
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE	1724PITDM	3	2	Fully Attained	NA
	MOBILE COMPUTING PRACTICAL	1625PITMC	4	2	Fully Attained	NA
	ADVANCED COMPUTER NETWORKS	1626PITCN	2	2	Fully Attained	NA

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	PRACTICAL					
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM PRACTICAL	1627PITCC	3	2	Fully Attained	NA
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PITDM	3	2	Fully Attained	NA
III	EMBEDDED SYSTEMS	1731PITES	3	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT	1732PITIS	2,4	2	Fully Attained	NA
	ARTIFICIAL NEURAL NETWORKS	1733PITNN		2	Fully Attained	NA
	VIRTUALIZATION	1733PITVR	3,6	2	Fully Attained	NA
	DIGITAL IMAGE PROCESSING	1734PITIP		2	Fully Attained	NA
	ETHICAL HACKING	1734PITEH	2,4	2	Fully Attained	NA
	EMBEDDED SYSTEMS PRACTICAL	1731PESPR	3	2	Fully Attained	NA
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PISPR	3	2	Fully Attained	NA
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PNNPR	NA	2	NA	NA
	VIRTUALIZATION PRACTICAL	1733PVRPR	2	2	Fully Attained	NA
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIPPR	NA	2	NA	NA
	ETHICAL HACKING PRACTICAL	1734PEHPR	3	2	Fully Attained	NA
IV	ARTIFICIAL INTELLIGENCE	1741PITAI	2	2	Fully Attained	NA
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	2,6	2	Fully Attained	NA
	INTELLIGENT SYSTEMS	1743PITIS	NA	2	NA	NA
	REAL TIME EMBEDDED	1743PITES	NA	2	NA	NA

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SYSTEMS						
COMPUTER FORENSICS	1843PITCF	2.4	2	Fully Attained	NA	
ADVANCED IMAGE PROCESSING	1744PITIP	2.6	2	Fully Attained	NA	
DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	NA	2	NA	NA	
CLOUD MANAGEMENT	1744PITCM	NA	2	NA	NA	
INTELLIGENT SYSTEMS PRACTICAL	1745PITIS	NA	2	NA	NA	
REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PITES	NA	2	NA	NA	
COMPUTER FORENSICS PRACTICAL	1845PITCF	3	2	NA	NA	
ADVANCED IMAGE PROCESSING PRACTICAL	1746PITIP	2	2	Fully Attained	NA	
DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PITES	NA	2	NA	NA	
CLOUD MANAGEMENT PRACTICAL	1746PITCM	NA	2	NA	NA	
PROJECT	1747PITPR	5	2	Fully Attained	NA	
	Average	2.65				

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

Table No. N.2a: PO Attainment Level- M.Sc.-IT-2018-19

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

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Program Outcome Attainment level is greater than 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 2018-19

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	POI 0	POI 1	POI 2
I	ADVANCE DATABASE SYSTEMS	1711PIT DB	0.4	0.4	0.4	0.4	0.4			0.4	0.4	0.4		0.4
	DISTRIBUTED SYSTEMS	1612PIT DS	2	2	2	2	2			2	2	2	2	2
	DATA ANALYSIS TOOLS	1613PIT DA	2	2	2	2	2	2	2	2	2	2		
	SOFTWARE TESTING	1614PITS T	2.4	2.4	2.4	2.4	2.4		2.4	2.4	2.4	2.4	2.4	2.4
	ADVANCE DATABASE SYSTEMS PRACTICAL	1715PITP DB	2	2	2	2	2			2	2	2	2	2
	DISTRIBUTED SYSTEMS PRACTICAL	1616PIT DS	2	2	2	2	2			2	2	2	2	2
	DATA ANALYSIS TOOLS PRACTICAL	1617PIT DA	2	2	2	2	2	2	2	2	2	2		
	SOFTWARE TESTING PRACTICAL	1618PITS T	2	2	2	2	2		2	2	2	2	2	2
	MOBILE COMPUTING	1621PIT MC	2.6	2.6	2.6	2.6	2.6			2.6	2.6	2.6	2.6	2.6
II	ADVANCED COMPUTER NETWORKS	1622PITC N	2.6	2.6	2.6	2.6				2.6	2.6	2.6		2.6
	CLOUD COMPUTING AND UBIQUITOUS SYSTEM	1623PITC C	3.4	3.4	3.4	3.4				3.4	3.4	3.4	3.4	3.4



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	DATA MINING WITH INTRODUCTION TO DATA SCIENCE	1724PIT DM	3	3	3	3	3	3	3	3	3	3	3
	MOBILE COMPUTING PRACTICAL	1625PIT MC	4	4	4	4	4			4	4	4	4
	ADVANCED COMPUTER NETWORKS PRACTICAL	1626PITC N	2	2	2	2				2	2	2	2
	CLOUD COMPUTING AND UBIQUITOUS SYSTEMS PRACTICAL	1627PITC C	3	3	3	3				3	3	3	3
	DATA MINING WITH INTRODUCTION TO DATA SCIENCE PRACTICAL	1728PIT DM	3	3	3	3	3	3	3	3	3	3	3
III	EMBEDDED SYSTEMS	1731PITE S	3	3	3	3				3	3	3	3
	INFORMATION SECURITY MANAGEMENT	1732PITI S	2.4	2.4	2.4	2.4				2.4	2.4		2.4
	ARTIFICIAL NEURAL NETWORKS	1733PIT NN	NA	NA	NA	NA				NA	NA	NA	NA
	VIRTUALIZATION	1733PIT VR	3.6	3.6	3.6					3.6			3.6
	DIGITAL IMAGE PROCESSING	1734PITI P	NA	NA						NA	NA		

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	ETHICAL HACKING	1734PITEH	2.4	2.4	2.4	2.4		2.4	2.4	2.4	2.4		2.4	2.4
	EMBEDDED SYSTEMS PRACTICAL	1731PESPR	3	3	3	3				3	3	3		3
	INFORMATION SECURITY MANAGEMENT PRACTICAL	1732PISP R	3	3	3	3				3	3			3
	ARTIFICIAL NEURAL NETWORKS PRACTICAL	1733PNNPR	NA	NA	NA					NA	NA	NA		NA
	VIRTUALIZATION PRACTICAL	1733PVR PR	2	2	2						2			2
	DIGITAL IMAGE PROCESSING PRACTICAL	1734PIPPR	NA	NA							NA	NA		
	ETHICAL HACKING PRACTICAL	1734PEH PR	3	3	3	3		3	3	3	3		3	3
IV	ARTIFICIAL INTELLIGENCE	1741PITA I	2	2	2	2	2	2	2		2	2		2
	IT INFRASTRUCTURE MANAGEMENT	1742PITIM	2.6	2.6	2.6						2.6	2.6		2.6
	INTELLIGENT SYSTEMS	1743PITIS	NA	NA	NA	NA	NA		NA		NA	NA		NA
	REAL TIME EMBEDDED SYSTEMS	1743PITES	NA	NA	NA						NA			NA
	COMPUTER FORENSICS	1843PITCF	2.4	2.4	2.4	2.4				2.4	2.4	2.4		2.4
	ADVANCED IMAGE	1744PITIP	2.6	2.6	2.6						2.6	2.6		



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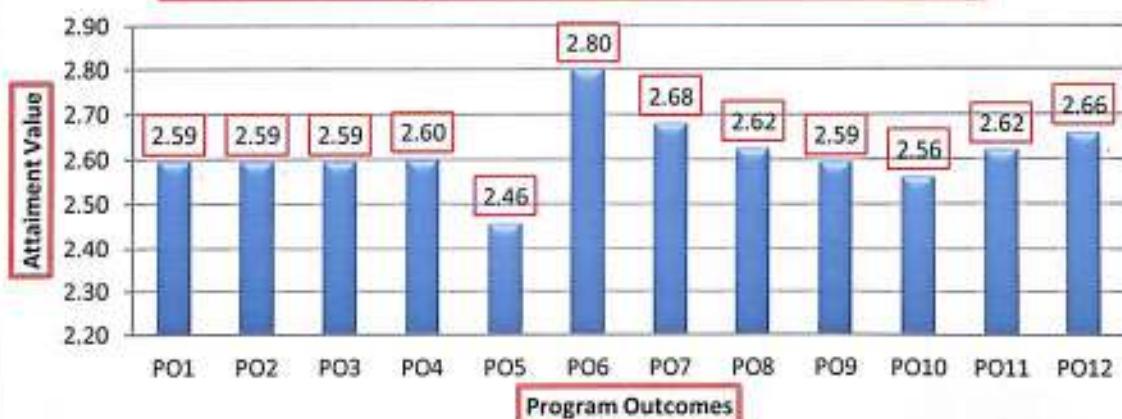
PROCESSING											
DESIGN OF EMBEDDED CONTROL SYSTEMS	1744PITES	NA	NA	NA	NA			NA	NA	NA	
CLOUD MANAGEMENT	1744PITCM	NA	NA	NA				NA	NA		NA
INTELLIGENT SYSTEMS PRACTICAL	1745PITIS	NA		NA							
REAL TIME EMBEDDED SYSTEMS PRACTICAL	1745PITES	NA	NA	NA				NA			
COMPUTER FORENSICS PRACTICAL	1845PITCF	3	3	3	3			3	3	3	3
ADVANCED IMAGE PROCESSING PRACTICAL	1746PITIP	2	2	2				2	2		
DESIGN OF EMBEDDED CONTROL SYSTEMS PRACTICAL	1746PITES	NA	NA	NA	NA			NA	NA	NA	
CLOUD MANAGEMENT PRACTICAL	1746PITCM	NA	NA	NA				NA	NA		NA
PROJECT	1747PITPR	5	5	5	5	5	5	5	5	5	5
	Average	2.5 9	2.5 9	2.5 9	2.6 0	2.4 6	2.8 0	2.6 8	2.6 2	2.5 9	2.56 2.62 2.66

NA: Not Applicable as some courses are offered by institution but not opted by students.

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Master of Science- Information Technology (M Sc. (IT))
Average PO attainment- 2018-19



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