



Nagindas Khandwala College (Autonomous)



CRITERION 2 – TEACHING –LEARNING AND EVALUATION

2.6 - Student Performance and Learning Outcomes

2.6.2–Attainment of Programme Outcomes and Courses Outcomes

UG and PG Programmes

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NAGINDAS KHANDWALA COLLEGE OF COMMERCE
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Nagindas Khandwala College (Autonomous)

OBE DESIGN

ATTAINMENT LEVELS

ALL COURSES-2022-23

1. Course- Program outcome Matrix:

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

2. Course Outcomes (for all courses):

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

3. Set Target levels for Attainment of Course Outcomes:

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

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

4. Set Target level for Attainment of Program Outcomes:

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

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

5. Course Outcome Attainment Levels:

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

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

e.g. For end term and internal examination;

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


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d. The target level is set (e.g. Level-2). It indicates that, the current target is level-2; 50% students score more than class average. If class average is less than passing percentage then we consider passing percentage instead of 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= 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 in below.

6. Program attainment Level:

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

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

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

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

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

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

f. One example on calculation of PO attainment for Bachelor of Commerce is provided below.


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Bachelor of Commerce (B.Com.)
Table 1.0: PO& CO Mapping Table- B.Com.
Academic Year 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION – I	2011UCBC		*			*	
	ENVIRONMENTAL STUDIES – I	2012UCES					*	
	FOUNDATION COURSE – I	2113UCFC	*	*			*	
	INTRODUCTION TO BUSINESS	2014UCCM	*					*
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	*	*	*	*	*	*
	BUSINESS ECONOMICS – I	2016UCBE	*	*			*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS				*		
II	BUSINESS COMMUNICATION – II	2021UCBC		*			*	
	ENVIRONMENTAL STUDIES – II	2022UCES					*	
	FOUNDATION COURSE – II	2123UCFC	*	*			*	
	SERVICE SECTOR	2024UCOM	*					*
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	2025UCAF	*	*	*	*	*	
	BUSINESS ECONOMICS – II	2026UCBE	*	*			*	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS				*		
III	FUNDAMENTALS OF ADVERTISING	2131UCAD	*				*	*
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC		*			*	
	COMMERCE - III (MANAGEMENT	2133U2COM	*				*	*

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	: PRINCIPLES AND FUNCTIONS)							
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	2134UCAF	*		*			
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	2135UCCA	*		*			*
	BUSINESS ECONOMICS - III	2136UCBE	*					
	BUSINESS LAW – I	2137UCBL	*				*	*
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2141UCAD	*				*	*
	FOUNDATION COURSE – IV	2142UCFC		*			*	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	2143UCOM	*				*	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	2144UCAF	*		*			
	FINANCIAL ACCOUNTING AND AUDITING -VI - COST ACCOUNTING	2145UCCA	*					*
	BUSINESS ECONOMICS – IV	2146UCBE	*					
	BUSINESS LAW – II	2147UCBL	*				*	*
V	COMMERCE - V (MARKETING)	1853UCOM	*				*	*
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	*					
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	*					*
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	*		*			

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	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1852UCMA	*	*	*		*	*
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					*	
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	*				*	
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		*		*		
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR		*		*		
IV	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	*				*	
	BUSINESS ECONOMICS- VI	1864UCBE	*					
	DIRECT AND INDIRECT TAXES- PAPER II -INDIRECT TAX	1865UCDT	*					*
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX - FINANCIAL ACCOUNTING	1861UCFA	*		*			*
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X –AUDITING	1862UCAU	*	*			*	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					*	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	*				*	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		*		*		
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		*		*		

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The Results of CO Attainment:

The Results of CO attainment are provided below in table 1.1

FOR EXAMPLE: COURSE CODE/TITLE: SEM III/2131UCAD /Fundamentals of 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: 23

% Students score more than 23 is 415/600 i.e. 69.17% i.e. Level-3

Average Marks in Internal examination= 29

% Students score more than 29 is 421/600= 70.17%, i.e. Level-4

$$A(\text{CO}) 2131\text{UCAD} = 60\% (3) + 40\%(4) = 1.8 + 1.6 = 3.4$$

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

**Table No. 1.1: CO Attainment Level -Bachelor of Commerce (B.Com.)-
Academic Year 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION – I	2011UCBC	2	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES – I	2012UCES	2.8	2	Fully Attained	NA
	FOUNDATION COURSE – I	2113UCFC	3.4	2	Fully Attained	NA
	INTRODUCTION TO BUSINESS	2014UCCM	3.8	2	Fully Attained	NA

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	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS – I	2016UCBE	3.4	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS	2.8	2	Fully Attained	NA
II	BUSINESS COMMUNICATION – II	2021UCBC	3.6	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES – II	2022UCES	2.4	2	Fully Attained	NA
	FOUNDATION COURSE – II	2123UCFC	3.8	2	Fully Attained	NA
	SERVICE SECTOR	2024UCOM	2.8	2	Fully Attained	NA
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	2025UCAF	3	2	Fully Attained	NA
	BUSINESS ECONOMICS – II	2026UCBE	2.8	2	Fully Attained	NA
	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS	2.8	2	Fully Attained	NA
III	FUNDAMENTALS OF ADVERTISING	2131UCAD	3.4	2	Fully Attained	NA
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC	2.4	2	Fully Attained	NA
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	2133U2COM	3.4	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	2134UCAF	2.8	2	Fully Attained	NA

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	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	2135UCCA	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - III	2136UCBE	2.4	2	Fully Attained	NA
	BUSINESS LAW – I	2137UCBL	2.8	2	Fully Attained	NA
IV	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2141UCAD	2.8	2	Fully Attained	NA
	FOUNDATION COURSE – IV	2142UCFC	2.8	2	Fully Attained	NA
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	2143UCOM	2.8	2	Fully Attained	NA
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	2144UCAF	3	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING -VI - COST ACCOUNTING	2145UCCA	3	2	Fully Attained	NA
	BUSINESS ECONOMICS – IV	2146UCBE	2.4	2	Fully Attained	NA
	BUSINESS LAW – II	2147UCBL	3	2	Fully Attained	NA
V	COMMERCE - V (MARKETING)	1853UCOM	3.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.4	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES -	1855UCDT	2.4	2	Fully Attained	NA

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	PAPER I - DIRECT TAX					
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1952UCMA	1.8	2		
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS	2.4	2	Fully Attained	NA
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	2.4	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS	0.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR	2.8	2	Fully Attained	NA
VI	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	2.8	2	Fully Attained	NA
	BUSINESS ECONOMICS- VI	1864UCBE	3	2	Fully Attained	NA
	DIRECT AND INDIRECT TAXES- PAPER II - INDIRECT TAX	1865UCDT	3.4	2	Fully Attained	NA

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	FINANCIAL ACCOUNTING AND AUDITING PAPER-IX -FINANCIAL ACCOUNTING	1861UCFA	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING AND AUDITING PAPER-X –AUDITING	1862UCAU	3.6	2	Fully Attained	NA
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS	3	2	Fully Attained	NA
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	3.4	2	Fully Attained	NA
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS	2.4	2	Fully Attained	NA
	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR	2.4	2	Fully Attained	NA
Average			2.78	2		
NA: Not applicable as target level is fully attained.						

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

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
I	BUSINESS COMMUNICATION – I	2011UCBC		2			2	
	ENVIRONMENTAL STUDIES – I	2012UCES					2.8	
	FOUNDATION COURSE – I	2113UCFC	3.4	3.4			3.4	
	INTRODUCTION TO BUSINESS	2014UCCM	3.8					3.8
	ACCOUNTANCY & FINANCIAL MANAGEMENT-I	2015UCAF	2.4	2.4	2.4	2.4	2.4	2.4

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	BUSINESS ECONOMICS – I	2016UCBE	3.4	3.4			3.4	
	MATHEMATICAL AND STATISTICAL TECHNIQUES –I	2017UCMS				2.8		
II	BUSINESS COMMUNICATION – II	2021UCBC		3.6			3.6	
	ENVIRONMENTAL STUDIES – II	2022UCES					2.4	
	FOUNDATION COURSE – II	2123UCFC	3.8	3.8			3.8	
	SERVICE SECTOR	2024UCOM	2.8					2.8
	ACCOUNTANCY & FINANCIAL MANAGEMENT-II	2025UCAF						
			3	3	3	3	3	
	BUSINESS ECONOMICS – II	2026UCBE	2.8	2.8			2.8	
III	MATHEMATICAL AND STATISTICAL TECHNIQUES –II	2027UCMS				2.8		
	FUNDAMENTALS OF ADVERTISING	2131UCAD	3.4				3.4	3.4
	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2032UCFC		2.4			2.4	
	COMMERCE - III (MANAGEMENT : PRINCIPLES AND FUNCTIONS)	2133U2COM	3.6				3.6	3.6
	ACCOUNTANCY AND FINANCIAL MANAGEMENT - III	2134UCAF	2.8		2.8			
	FINANCIAL ACCOUNTING AND AUDITING V - COST ACCOUNTING	2135UCCA	2.4		2.4			2.4
	BUSINESS ECONOMICS - III	2136UCBE	2.4					
IV	BUSINESS LAW – I	2137UCBL	2.8				2.8	2.8
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2141UCAD	2.8				2.8	2.8
	FOUNDATION COURSE – IV	2142UCFC		2.8			2.8	
	COMMERCE- IV (MANAGEMENT: PRODUCTION AND FINANCE)	2143UCOM	2.8				2.8	
	ACCOUNTANCY AND FINANCIAL MANAGEMENT- IV	2144UCAF	3		3			
	FINANCIAL ACCOUNTING AND AUDITING -VI - COST ACCOUNTING	2145UCCA	3					3

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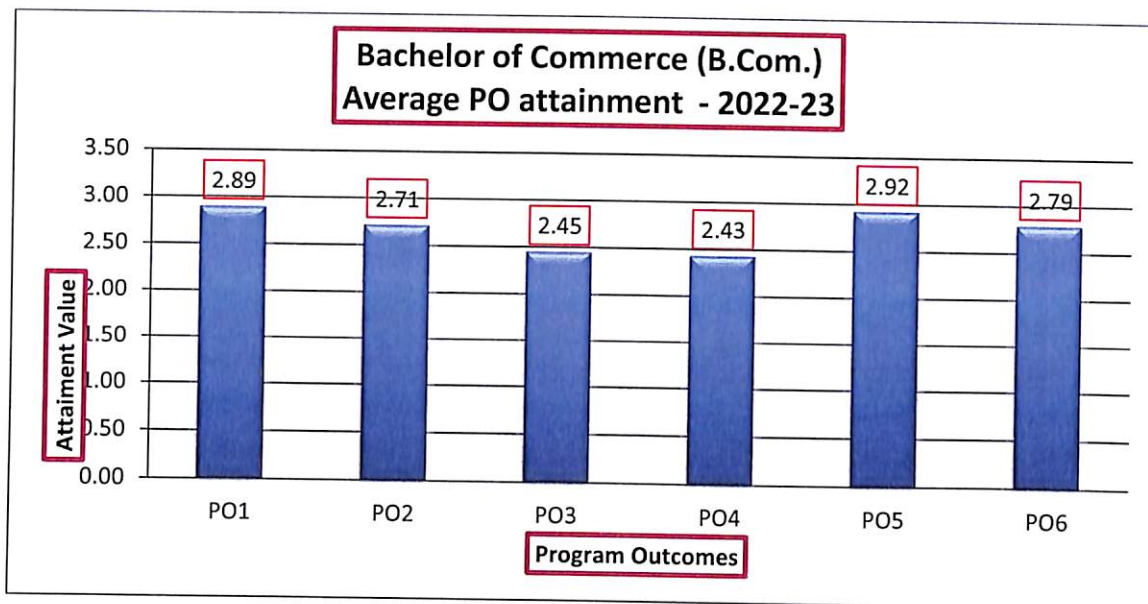
	BUSINESS ECONOMICS – IV	2146UCBE	2.4					
	BUSINESS LAW – II	2147UCBL	3				3	3
V	COMMERCE - V (MARKETING)	1853UCOM	3.4				3.4	
	BUSINESS ECONOMICS - V (INDIAN FINANCIAL SYSTEM)	1854UCBE	2.4					
	DIRECT AND INDIRECT TAXES - PAPER I - DIRECT TAX	1855UCDT	2.4					2.4
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VII - FINANCIAL ACCOUNTING	1851UCFA	1.8		1.8			1.8
	FINANCIAL ACCOUNTING AND AUDITING PAPER - VIII - (INTRODUCTION TO MANAGEMENT ACCOUNTING)	1952UCMA	1.8	1.8	1.8		1.8	1.8
	PSYCHOLOGY OF HUMAN BEHAVIOUR AT WORK	1856UCPS					2.4	
	EXPORT MARKETING: FUNDAMENTALS	1856UCEM	2.4				2.4	
	COMPUTER SYSTEMS AND APPLICATIONS	1856UCCS		0.8		0.8		
	ELEMENTS OF OPERATIONS RESEARCH	1856UCOR		2.8		2.8		
	COMMERCE- VI - HUMAN RESOURCE MANAGEMENT	1863UCOM	2.8				2.8	
VI	BUSINESS ECONOMICS- VI	1864UCBE	3					
	DIRECT AND INDIRECT TAXES- PAPER II - INDIRECT TAX	1865UCDT	3.4					3.4
	FINANCIAL ACCOUNTING AND AUDITING PAPER- IX -FINANCIAL ACCOUNTING	1861UCFA	2.4		2.4			2.4
	FINANCIAL ACCOUNTING AND AUDITING PAPER- X –AUDITING	1862UCAU	3.6	3.6			3.6	
	PSYCHOLOGY OF HUMAN BEHAVIOR AT WORK	1866UCPS					3	
	EXPORT MARKETING: PROCESS AND PROCEDURES	1866UCEM	3.4				3.4	
	COMPUTER SYSTEMS AND APPLICATIONS	1866UCCS		2.4		2.4		

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	ELEMENTS OF OPERATIONS RESEARCH	1866UCOR		2.4		2.4		
		AVERAGE	2.89	2.71	2.45	2.43	2.92	2.79



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

The Results of PO Attainment:

The Results of PO attainment are provided in table no. 1.3.

For example: PO of B.Com

1. For Academic Year 2022-23

(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) + 20% (4) = 1.6 + 0.8 = 2.4- Level 4- Very Good

Target Level was 4. Hence PO attended.

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Table No. 1.2a PO Attainment Level

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	4	4	Fully Attained	NA
<i>NA: Not applicable as target level is fully attained.</i>				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

Following table no.1.3 provides semester wise CO attainment and PO attainment levels of 9 undergraduate programs for academic year 2022-23

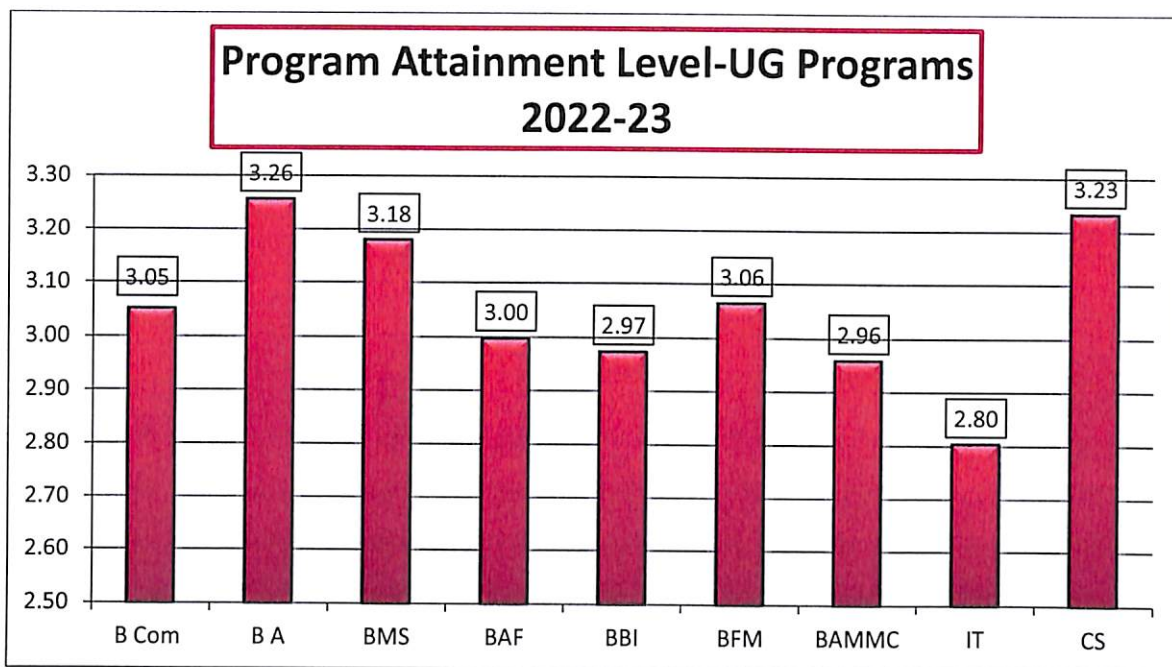
**Table No.1.3
Attainment level _Undergraduate programs academic year 2022-23**

Academic Year- 2022-23	Attainment level _Undergraduate programs							Program Attainment Direct+ Indirect
	First Year		Second Year		Third Year		Average	
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	Direct	
B Com	2.89	3.11	2.91	2.87	2.14	2.96	2.81	3.05
B A	3.2	3.2	3.51	3.14	2.59	2.78	3.07	3.26
BMS	2.78	3.02	2.87	2.96	2.97	3.25	2.98	3.18
BAF	2.83	2.73	2.25	2.76	2.75	3.16	2.75	3.00
BBI	2.81	2.8	2.38	2.83	2.4	3.08	2.72	2.97
BFM	2.91	2.86	2.96	2.62	3.06	2.57	2.83	3.06
BAMMC	2.66	3.01	2.47	3	2.55	2.5	2.70	2.96
IT	2.53	2.35	2.27	2.29	2.7	2.89	2.51	2.80
CS	2.42	2.99	3.39	3.41	3.23	2.81	3.04	3.23

Now we provide graphical representation of PO attainment levels of UG Program for academic year 2022-23

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

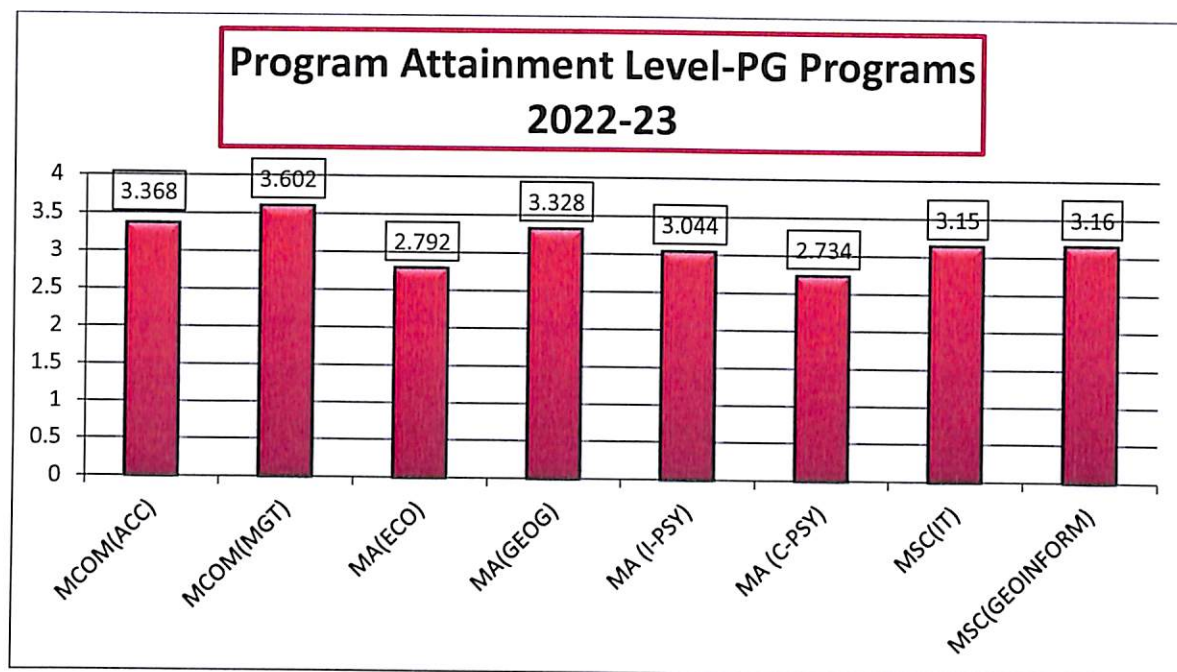
In the following table no. 1.4 provides semester wise CO attainment and PO attainment levels of 5 post graduate programs for the academic years 2022-23

Table No.1.4
Attainment level - Postgraduate programs academic year 2022-23

	Attainment level - Postgraduate courses					
Academic Year- 2022-23	First Year		Second Year		Average	Program Attainment Direct + indirect
	SEM 1	SEM 2	SEM 3	SEM 4		
MCOM(ACC)	3.1	3.47	2.79	3.48	3.21	3.37
MCOM(MGT)	2.56	3.83	3.84	3.78	3.50	3.60
MA(ECO)	2.48	3.09	2.61	1.78	2.49	2.79
MA(GEOG)	3.1	3.8	2.68	3.06	3.16	3.33
MA (I-PSY)	2.88	3.31	2.2	2.83	2.81	3.04
MA (C-PSY)	2.44	2.49	2.2	2.54	2.42	2.73
MSC(IT)	3.26	3.32	2.74	2.41	2.93	3.15
MSC(GEOINFORM)	3.3	3.05	3.18	2.25	2.95	3.16


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Now we provide graphical representation of PO attainment levels of PG Program for academic year 2022-23



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

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ALL UNDER GRADUATE COURSES

ANNEXTURE A


Bachelor of Arts (BA):

Table No. A.1: PO CO Mapping Matrix: Bachelor of Arts (BA)
Academic Year - 2022-23

			PROGRAM OUTCOME					PROGRAM SPECIFIC OUTCOMES (PSYCHOLOGY)			PROGRAM SPECIFIC OUTCOMES (ECONOMICS)				PROGRAM SPECIFIC OUTCOMES (GEOGRAPHY)			
Semester	COURSE	COURSE CODE	P O1	P O2	P O3	P O4	P O5	PSO1	PSO2	PSO 3	PSO 1	PSO 2	PSO 3	PSO 4	PSO 1	PSO 2	PSO 3	PS O4
	COMMUNICATION SKILLS IN ENGLISH-I	2111UACS		*	*		*											
I	FOUNDATION COURSE - I	2012UAF C					*											
	FUNDAMENTALS OF PSYCHOLOGY	2014UAP S	*		*	*	*	*										
	HUMAN GEOGRAPHY	2113UAH G	*			*									*		*	
	MICROECONOMICS- I	2015UAE C	*								*	*	*	*				
	FRENCH	2016UAF R		*														
	HINDI	2016UAH N		*														
II	COMMUNICATION SKILLS IN ENGLISH- II	2121UACS		*	*		*											
	FOUNDATION COURSE - II	2122UAF C					*											
	ENVIRONMENTAL GEOGRAPHY	2123UAE G	*												*	*		
	FUNDAMENTALS OF PSYCHOLOGY	2024UAP S	*		*		*	*										
	MACROECONOMICS- I	2025UAE C	*								*	*	*	*				
	HINDI	2026UAH N		*														
	FRENCH	2026UAF R		*														

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III	FOUNDATION COURSE – III (CONTEMPORARY INDIA : 1947-2000 A.D)	2232UAF C					*											
	FUNDAMENTALS OF ADVERTISING	2231UAA D			*													
	ECONOMICS - II (MICRO ECONOMICS - II)	2233UAM I	*							*	*							
	ECONOMICS - III (INDIAN ECONOMY : CONTEMPORARY CONCERNS)	2234UAI E	*									*	*					
	GEOGRAPHY – II (GEOGRAPHY OF MAHARASHTRA)	2235UAG M	*												*		*	
	GEOGRAPHY - III (AGRICULTURAL GEOGRAPHY)	2236UA AG	*												*			
	PSYCHOLOGY - II (SOCIAL PSYCHOLOGY)	2237UAS P	*		*	*	*	*		*								
	PSYCHOLOGY – III (DEVELOPMENTAL PSYCHOLOGY)	2238UAD P	*		*	*	*	*		*								
IV	FOUNDATION COURSE -IV	2242UAF C					*											
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2241UAA D			*													
	MACROECONOMICS- II	2243UAM A	*							*	*							
	DEVELOPMENT ISSUES OF MAHARASHTRA'S ECONOMY	2244UAM E	*									*	*					
	GEOGRAPHY - II (GEOGRAPHY OF INDIA)	2245UAG I	*												*		*	*
	GEOGRAPHY - III (GEOGRAPHY OF TOURISM)	2246UAG T	*												*	*		
	SOCIAL PSYCHOLOGY	2247UAS P	*		*		*	*		*								
	DEVELOPMENTAL PSYCHOLOGY	2248UAD P	*		*		*	*		*								
V (EC O)	ECONOMICS-IV (ADVANCED ECONOMIC THEORY-I)	2251UAA ET	*									*	*	*	*			


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	COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)																	
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	2256UACP	*		*	*	*	*	*	*								
VI (PSY)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2261UATS	*		*	*		*	*									
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	2262UAA S	*		*	*	*	*	*	*								
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	2263UAI O	*		*	*	*	*	*	*								
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	2264UAC O	*		*	*	*	*	*	*								
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2265UAP T	*		*	*		*	*									
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	2266UACP	*		*	*	*	*	*	*								

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	GEOGRAPHY-VII (REGIONAL PLANNING AND DEVELOPMENT)	2254UA PD	*												*	*	*	
	GEOGRAPHY-VIII (GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT)	2255UA DM	*												*			*
	GEOGRAPHY-IX (GEOSPATIAL TECHNOLOGY)	2256UA GT	*		*	*											*	
VI (GE OG)	GEOGRAPHY- IV (ENVIRONMENTAL - GEOGRAPHY)	2261UAE G	*				*								*			*
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	2262UAT R	*												*	*		
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS- II)	2263UAS A	*		*												*	
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	2264UAE G	*												*	*		
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	2265UAS G	*												*	*		
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	2266UAR MG	*		*	*											*	
V (PSY)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2251UAT S	*		*	*		*	*									
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	2252UAA B	*		*	*	*	*	*	*								
	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	2253UAI O	*		*	*	*	*	*	*								
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	2254UAC O	*		*	*	*	*	*	*								
	PSYCHOLOGY-VIII (PRACTICALS IN	2255UAP T	*		*	*		*	*									

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	COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)																	
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	2256UACP	*		*	*	*	*	*	*								
VI (PSY)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2261UATS	*		*	*		*	*									
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	2262UAA S	*		*	*	*	*	*	*								
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	2263UAI O	*		*	*	*	*	*	*								
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	2264UAC O	*		*	*	*	*	*	*								
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2265UAP T	*		*	*		*	*									
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	2266UACP	*		*	*	*	*	*	*								

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**Table No. A.2: CO Attainment Level -Bachelor of Arts (B.A.)-
Academic Year 2022-23**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	COMMUNICATION SKILLS IN ENGLISH-I	2111UACS	2.4	2	Fully Attained	NA
	FOUNDATION COURSE - I	2012UAFC	3	2	Fully Attained	NA
	FUNDAMENTALS OF PSYCHOLOGY	2014UAPS	3.4	2	Fully Attained	NA
	GEOMORPHOLOGY	2113UAHG	4	2	Fully Attained	NA
	MICROECONOMICS- I	2015UAEC	3.8	2	Fully Attained	NA
	FRENCH	2016UAFR	2.8	2	Fully Attained	NA
	HINDI	2016UAHN	3	2	Fully Attained	NA
II	COMMUNICATION SKILLS IN ENGLISH- II	2121UACS	2	2	Fully Attained	NA
	FOUNDATION COURSE - II	2122UAFC	3	2	Fully Attained	NA
	HUMAN GEOGRAPHY	2123UAEG	3.4	2	Fully Attained	NA
	FUNDAMENTALS OF PSYCHOLOGY	2024UAPS	3.6	2	Fully Attained	NA
	MACROECONOMICS- I	2025UAEC	3.4	2	Fully Attained	NA
	HINDI	2026UAHN	3.8	2	Fully Attained	NA
	FRENCH	2026UAFR	3.2	2	Fully Attained	NA
III	FOUNDATION COURSE - III (CONTEMPORARY INDIA : 1947-2000 A.D)	2232UAFC	2.8	2	Fully Attained	NA
	FUNDAMENTALS OF ADVERTISING	2231UAAD	2.4	2	Fully Attained	NA
	ECONOMICS - II (MICRO ECONOMICS - II)	2233UAMI	3.4	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY : CONTEMPORARY CONCERNS)	2234UAIE	4.4	2	Fully Attained	NA
	GEOGRAPHY - II (AN INTRODUCTION TO CLIMATOLOGY)	2235UAGM	3.6	2	Fully Attained	NA
	GEOGRAPHY - III (PHYSICAL GEOGRAPHY OF INDIA)	2236UAAG	2.8	2	Fully Attained	NA
	PSYCHOLOGY - II (SOCIAL PSYCHOLOGY)	2237UASP	3	2	Fully Attained	NA

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	PSYCHOLOGY – III (DEVELOPMENTAL PSYCHOLOGY)	2238UADP	4	2	Fully Attained	NA
IV	FOUNDATION COURSE -IV	2242UAFC	3.2	2	Fully Attained	NA
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2241UAAD	4	2	Fully Attained	NA
	MACROECONOMICS- II	2243UAMA	3.6	2	Fully Attained	NA
	DEVELOPMENT ISSUES OF MAHARASHTRA'S ECONOMY	2244UAME	2.8	2	Fully Attained	NA
	INTRODUCTION TO OCEANOGRAPHY	2245UAGI	3.2	2	Fully Attained	NA
	AGRICULTURAL GEOGRAPHY OF INDIA	2246UAGT	2.8	2	Fully Attained	NA
	SOCIAL PSYCHOLOGY	2247UASP	3.4	2	Not Attained	NA
	DEVELOPMENTAL PSYCHOLOGY	2248UADP	2.8	2	Fully Attained	NA
V (Eco)	ECONOMICS-IV (ADVANCED ECONOMIC THEORY-I)	2251UAAET	2.2	2	Fully Attained	NA
	ECONOMICS-V (ECONOMICS OF DEVELOPMENT)	2252UAED	2.4	2	Fully Attained	NA
	ECONOMICS-VI (INDIAN FINANCIAL SYSTEM I)	2253UAIFS	2.4	2	Fully Attained	NA
	ECONOMICS-VII (RESEARCH METHODOLOGY)	2254UARM	2.4	2	Fully Attained	NA
	ECONOMICS-VII MATHEMATICS FOR ECONOMIC ANALYSIS	2254UAME A	3	2	Fully Attained	NA
	ECONOMICS-VIII (PUBLIC ECONOMICS)	2255UAPE	3.4	2	Fully Attained	NA
	ECONOMICS-IX (HISTORY OF ECONOMIC THOUGHT)	2256UAHET	3.4	2	Fully Attained	NA
VI (Eco)	ECONOMICS- IV (ADVANCED ECONOMIC THEORY – II)	2261UAAET	2.4	2	Fully Attained	NA
	ECONOMICS- V (ECONOMICS OF DEVELOPMENT – II)	2262UAED	2.6	2	Fully Attained	NA
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM – II)	2263UAIFS	2.6	2	Fully Attained	NA
	ECONOMICS- VII (RESEARCH METHODOLOGY – II)	2264UARM	2	2	Fully Attained	NA
	Economics – VII (Basic Econometrics)	2264UABE	3	2	Fully Attained	NA
	ECONOMICS- VIII (INTERNATIONAL ECONOMICS)	2265UAIE	2.6	2	Fully Attained	NA

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	ECONOMICS- IX (INDIAN ECONOMIC THOUGHT)	2266UAIET	2	2	Fully Attained	NA
V (Geo)	GEOGRAPHY-IV (GEOGRAPHY OF SETTLEMENTS)	2251UAGS	2.6	2	Fully Attained	NA
	GEOGRAPHY-V (POPULATION GEOGRAPHY)	2262UATR	2.4	2	Fully Attained	NA
	GEOGRAPHY-VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - I)	2253UASA	3.4	2	Fully Attained	NA
	GEOGRAPHY-VII (REGIONAL PLANNING AND DEVELOPMENT)	2254UAPD	2.8	2	Fully Attained	NA
	GEOGRAPHY-VIII (GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT)	2255UADM	2.8	2	Fully Attained	NA
	GEOGRAPHY-IX (GEOSPATIAL TECHNOLOGY)	2256UAGT	2.6	2	Fully Attained	NA
VI (Geo)	GEOGRAPHY- IV (ENVIRONMENTAL - GEOGRAPHY)	2261UAEG	2.2	2	Fully Attained	NA
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	2262UATR	2.2	2	Fully Attained	NA
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS- II)	2263UASA	3.2	2	Fully Attained	NA
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	2264UAEG	2.4	2	Fully Attained	NA
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	2265UASG	3.4	2	Fully Attained	NA
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	2266UARMG	2.2	2	Fully Attained	NA
V (Psy)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2251UATS	2.4	2	Fully Attained	NA
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	2252UAAB	2.4	2	Fully Attained	NA
	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	2253UAIO	3	2	Fully Attained	NA
	PSYCHOLOGY-VII (COGNITIVE)	2254UACO	1.4	2	Not Attained	Assignments, tutorials,

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	PSYCHOLOGY)					exercises and remedial coaching shall be planned.
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2255UAPT	2	2	Fully Attained	NA
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	2256UACP	2.8	2	Fully Attained	NA
VI (Psy)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2261UATS	2.8	2	Fully Attained	NA
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	2262UAAS	4	2	Fully Attained	NA
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	2263UAIO	2.8	2	Fully Attained	NA
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	2264UACO	3	2	Fully Attained	NA
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2265UAPT	3	2	Fully Attained	NA
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	2266UACP	3.4	2	Fully Attained	NA
	Average		2.92			
NA: Not Applicable as target level is fully attained.						

Table No.A.2a: PO Attainment Level-BA
Academic Year 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

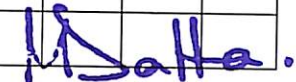
The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

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


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**Table No. A.3: Results of CO-PO attainment-Bachelor of Arts(BA)-
Academic Year 2022-23**

			PROGRAM OUTCOME					PROGRAM SPECIFIC OUTCOMES (PSYCHOLOGY)			PROGRAM SPECIFIC OUTCOMES (ECONOMICS)				PROGRAM SPECIFIC OUTCOMES (GEOGRAPHY)			
Semester	COURSE	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PSO 1	PSO 2	PSO 3	PSO 1	PSO 2	PSO 3	PSO 4	PSO 1	PSO 2	PSO 3	PSO 4
	COMMUNICATION SKILLS IN ENGLISH-I	2111UACS		2.4	2.4		2.4											
I	FOUNDATION COURSE - I	2012UAFC					3											
	FUNDAMENTALS OF PSYCHOLOGY	2014UAPS	3.4		3.4	3.4	3.4	3.4										
	GEOMORPHOLOGY	2113UAHG	4			4												
	MICROECONOMICS- I	2015UAEC	3.8															
	FRENCH	2016UAFR		2.8														
	HINDI	2016UAHN		3														
II	COMMUNICATION SKILLS IN ENGLISH- II	2121UACS		2	2		2											
	FOUNDATION COURSE - II	2122UAFC					3											
	HUMAN GEOGRAPHY	2123UAEG	3.4												3.4	3.4		
	FUNDAMENTALS OF PSYCHOLOGY	2024UAPS	3.6		3.6		3.6	3.6										
	MACROECONOMICS- I	2025UAEC	3.4								3.4	3.4	3.4	3.4				
	HINDI	2026UAHN		3.8														
	FRENCH	2026UAFR		3.2														
III	FOUNDATION COURSE – III (CONTEMPORARY INDIA :	2232UAFC					2.8											


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	1947-2000 A.D)																	
	FUNDAMENTALS OF ADVERTISING	2231UAA D			2.4													
	ECONOMICS - II (MICRO ECONOMICS - II)	2233UAMI	3.4								3.4	3.4						
	ECONOMICS - III (INDIAN ECONOMY : CONTEMPORARY CONCERNS)	2234UAIE	4.4										4.4	4.4				
	GEOGRAPHY - II (AN INTRODUCTION TO CLIMATOLOGY)	2235UAG M	3.6													3.6		3.6
	GEOGRAPHY - III (PHYSICAL GEOGRAPHY OF INDIA)	2236UAA G	2.8													2.8		
	PSYCHOLOGY - II (SOCIAL PSYCHOLOGY)	2237UASP	3		3	3	3	3		3								
	PSYCHOLOGY - III (DEVELOPMENTAL PSYCHOLOGY)	2238UADP	4		4	4	4	4		4								
IV	FOUNDATION COURSE -IV	2242UAFC					3.2											
	ADVERTISING : AGENCY AND MEDIA OPERATIONS	2241UAA D			4													
	MACROECONOMICS- II	2243UAM A	3.6								3.6	3.6						
	DEVELOPMENT ISSUES OF MAHARASHTRA'S ECONOMY	2244UAM E	2.8										2.8	2.8				
	INTRODUCTION TO OCEANOGRAPHY	2245UAGI	3.2												3.2		3.2	3.2
	AGRICULTURAL GEOGRAPHY OF INDIA	2246UAGT	2.8												2.8	2.8		
	SOCIAL PSYCHOLOGY	2247UASP	3.4		3.4		3.4	3.4		3.4								
	DEVELOPMENTAL PSYCHOLOGY	2248UADP	2.8		2.8		2.8	2.8		2.8								
V (ECO	ECONOMICS-IV (ADVANCED ECONOMIC	2251UAAE T	2.2								2.2	2.2	2.2	2.2				

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)	THEORY-I)																	
	ECONOMICS-V (ECONOMICS OF DEVELOPMENT)	2252UAED	2.4				2.4					2.4	2.4	2.4	2.4			
	ECONOMICS-VI (INDIAN FINANCIAL SYSTEM I)	2253UAIF S	2.4		2.4							2.4	2.4	2.4	2.4			
	ECONOMICS-VII (RESEARCH METHODOLOGY)	2254UAR M	2.4			2.4						2.4	2.4	2.4	2.4			
	ECONOMICS-VII MATHEMATICS FOR ECONOMIC ANALYSIS	2254UAM EA										3	3	3	3			
	ECONOMICS-VIII (PUBLIC ECONOMICS)	2255UAPE	3.4									3.4	3.4	3.4	3.4			
	ECONOMICS-IX (HISTORY OF ECONOMIC THOUGHT)	2256UAHE T	3.4									3.4	3.4	3.4	3.4			
VI (ECO)	ECONOMICS- IV (ADVANCED ECONOMIC THEORY – II)	1961UAAE T	2.4									2.4	2.4	2.4	2.4			
	ECONOMICS- V (ECONOMICS OF DEVELOPMENT – II)	1962UAED	2.6				2.6					2.6	2.6	2.6	2.6			
	ECONOMICS- VI (INDIAN FINANCIAL SYSTEM – II)	1963UAIF S	2.6		2.6							2.6	2.6	2.6	2.6			
	ECONOMICS- VII (RESEARCH METHODOLOGY – II)	1964UAR M	2			2						2	2	2	2			
	ECONOMICS-VII BASIC ECONOMETRICS				3	3						3	3	3	3			
	ECONOMICS- VIII (INTERNATIONAL ECONOMICS)	1965UAIE	2.6									2.6	2.6	2.6	2.6			
	ECONOMICS- IX (INDIAN ECONOMIC THOUGHT)	1966UAIE T	2									2	2	2	2			
V (GEO G)	GEOGRAPHY-IV (GEOGRAPHY OF SETTLEMENTS)	1851UAGS	2.6													2.6		
	GEOGRAPHY-V	1852UPG	2.4													2.4	2.4	

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	(POPULATION GEOGRAPHY)																	
	GEOGRAPHY-VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS - I)	1853UASA	3.4		3.4	3.4											3.4	
	GEOGRAPHY-VII (REGIONAL PLANNING AND DEVELOPMENT)	1854UAPD	2.8											2.8	2.8		2.8	
	GEOGRAPHY-VIII (GEOGRAPHY OF DISASTER MITIGATION AND MANAGEMENT)	1855UAD M												2.8				2.8
	GEOGRAPHY-IX (GEOSPATIAL TECHNOLOGY)	1856UAGT	2.6		2.6	2.6											2.6	
VI (GEO G)	GEOGRAPHY- IV (ENVIRONMENTAL - GEOGRAPHY)	2251UAGS	2.2											2.2				
	GEOGRAPHY- V (GEOGRAPHY OF TOURISM AND RECREATION)	2262UATR	2.2											2.2	2.2			
	GEOGRAPHY- VI (TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS- II)	2253UASA	3.2		3.2	3.2											3.2	
	GEOGRAPHY- VII (ECONOMIC GEOGRAPHY)	2254UAP D	2.4											2.4	2.4		2.4	
	GEOGRAPHY- VIII (SOCIAL GEOGRAPHY)	2255UAD M	3.4											3.4				3.4
	GEOGRAPHY- IX (RESEARCH METHODOLOGY IN GEOGRAPHY)	2256UAG T	2.2		2.2	2.2											2.2	
V (PSY)	PSYCHOLOGY-IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2251UATS	2.4		2.4	2.4		2.4	2.4									
	PSYCHOLOGY-V (ABNORMAL PSYCHOLOGY)	2252UAAB	2.4		2.4	2.4	2.4	2.4	2.4	2.4								

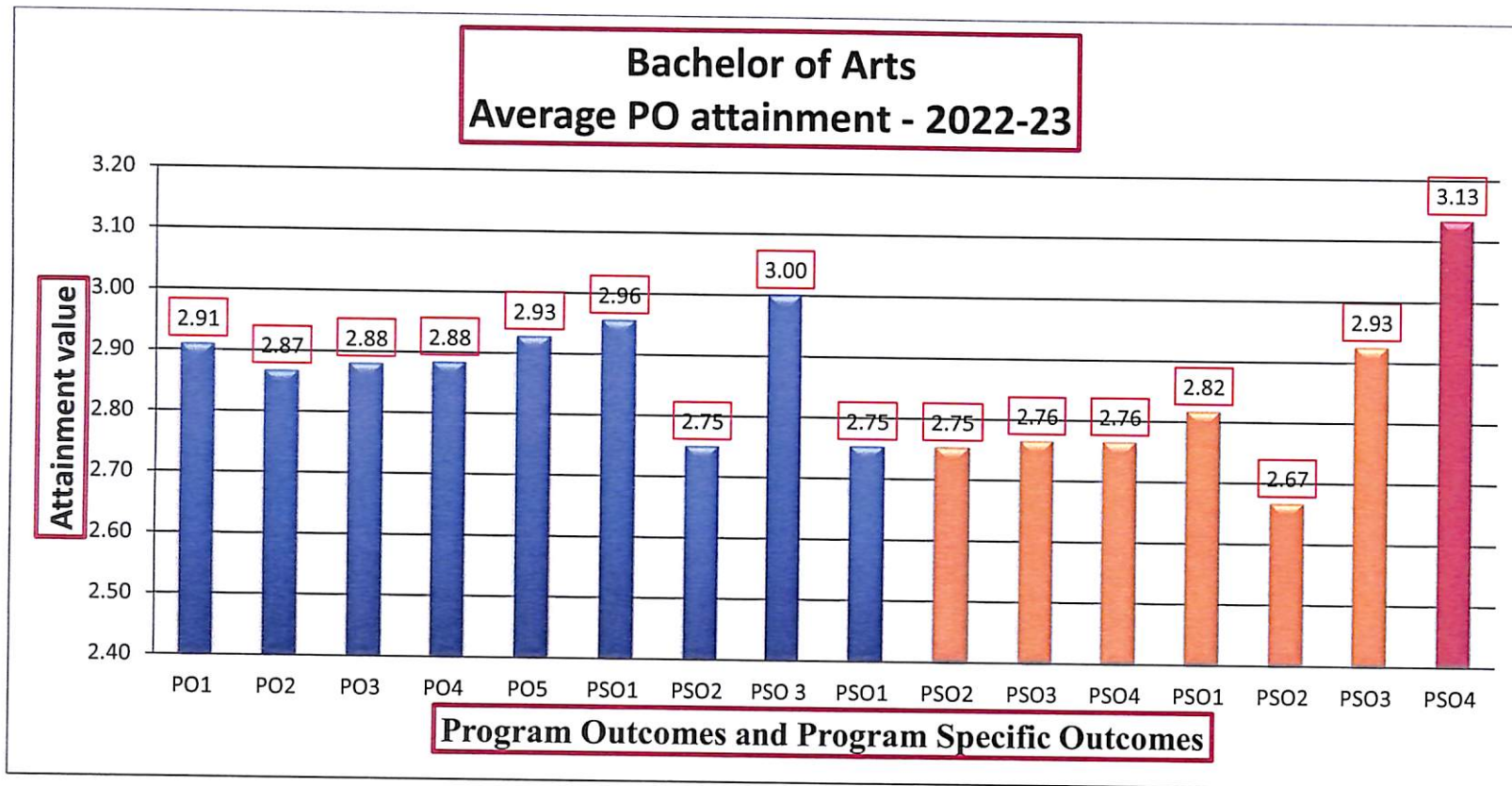
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	PSYCHOLOGY-VI (INDUSTRIAL PSYCHOLOGY)	2253UAIO	3		3	3	3	3	3	3								
	PSYCHOLOGY-VII (COGNITIVE PSYCHOLOGY)	2254UACO	1.4		1.4	1.4	1.4	1.4	1.4	1.4								
	PSYCHOLOGY-VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2255UAPT	2		2	2		2	2									
	PSYCHOLOGY-IX (COUNSELING PSYCHOLOGY)	2256UACP	2.8		2.8	2.8	2.8	2.8	2.8	2.8								
VI (PSY)	PSYCHOLOGY- IV (PSYCHOLOGICAL TESTING AND STATISTICS)	2261UATS	2.8		2.8	2.8		2.8	2.8									
	PSYCHOLOGY- V (ABNORMAL PSYCHOLOGY)	2262UAAS	4		4	4	4	4	4	4								
	PSYCHOLOGY- VI (INDUSTRIAL PSYCHOLOGY)	2263UAIO	2.8		2.8	2.8	2.8	2.8	2.8	2.8								
	PSYCHOLOGY- VII (COGNITIVE PSYCHOLOGY)	2264UACO	3		3	3	3	3	3	3								
	PSYCHOLOGY- VIII (PRACTICALS IN COGNITIVE PROCESSES AND PSYCHOLOGICAL TESTING)	2265UAPT	3		3	3		3	3									
	PSYCHOLOGY- IX (COUNSELING PSYCHOLOGY)	2266UACP	3.4		3.4	3.4	3.4	3.4	3.4	3.4								
			2.91	2.87	2.88	2.88	2.93	2.96	2.75	3.00	2.75	2.75	2.76	2.76	2.82	2.67	2.93	3.13

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

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ANNEXTURE B

Bachelor of Management Studies (BMS):

**Table No. B.1: PO CO Mapping Matrix: Bachelor of Management Studies (BMS):
Academic Year - 2022-23**


Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	Finance Elective				Marketing Elective			
									PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
Sem 1	BUSINESS COMMUNICATION – I	2111UMSBC	*	*	*			*								
	FOUNDATION COURSE – I	2112UMSFC	*	*												
	FOUNDATION OF HUMAN SKILLS	2013UMSHS	*		*	*	*									
	BUSINESS LAW	2114UMSBL	*		*		*									
	BUSINESS STATISTICS	2015UMSBS	*	*			*	*								
	INTRODUCTION TO FINANCIAL ACCOUNTS	2116UMSFA	*	*		*		*								
	PRINCIPLES OF MANAGEMENT	2017UMSPM	*	*	*	*		*								
Sem 2	BUSINESS COMMUNICATION- II	2121UMSBC	*	*	*			*								
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	2122UMSFC	*	*	*	*										
	BUSINESS ENVIRONMENT	2023UMSBV	*	*			*	*								
	BUSINESS MATHEMATICS	2024UMSBM	*	*			*	*								
	INDUSTRIAL LAW	2125UMSIL	*		*		*									
	PRINCIPLES OF MARKETING	2026UMSPM	*	*	*	*	*	*								

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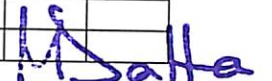
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	BUSINESS ECONOMICS - I	2027UMSB	*	*			*									
Sem 3	PERSONAL EFFECTIVENESS MANAGEMENT	2131UMSP	*		*	*		*								
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	2132UMSBEM	*	*	*	*	*	*								
	ACCOUNTING FOR MANAGERIAL DECISIONS	2133UMSAMD	*	*			*	*								
	STRATEGIC MANAGEMENT	2134UMSSM	*	*		*	*	*								
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT - I	2135UMSITB	*	*	*			*								
	EQUITY AND DEBT MARKET	2136UMSEDM							*	*	*	*				
	CORPORATE FINANCE	2137UMSCF							*	*	*	*				
	BASICS OF FINANCIAL SERVICES	2136UMSBFS							*		*	*				
	INTRODUCTION TO COST ACCOUNTING	2136UMSICA							*	*	*					
	CONSUMER BEHAVIOUR	2136UMSCB											*	*	*	*
	PRODUCT INNOVATIONS MANAGEMENT	2137UMSPIM											*	*	*	*
	ADVERTISING	2137UMSAD											*	*	*	*
	SOCIAL MARKETING	2137UMSSM											*	*	*	*
Sem 4	BUSINESS ECONOMICS- II	2141UMSB	*	*			*	*								
	BUSINESS RESEARCH	2142UMSBRM	*	*	*	*	*	*								


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	METHODS															
	CHANGE MANAGEMENT	2143UMSCM	*	*	*	*	*									
	PRODUCTION & TOTAL QUALITY MANAGEMENT	2144UMSPQM	*	*			*									
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	2145UMSIBM	*	*	*			*								
	STRATEGIC COST MANAGEMENT	2146UMSSCM							*	*	*	*				
	CORPORATE RESTRUCTURING	2147UMSCR							*	*	*	*				
	FINANCIAL INSTITUTIONS & MARKETS	2146UMSFIM							*	*	*	*				
	AUDITING	2146UMSA							*	*	*					
	INTEGRATED MARKETING COMMUNICATION	2146UMSIMC											*	*	*	*
	EVENT MARKETING	2147UMSEM											*		*	*
	RURAL MARKETING	2147UMSRM											*	*	*	*
	TOURISM MARKETING	2147UMSTM											*	*		*
Sem 5	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLSM	*	*	*		*									
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSASM	*	*			*	*								
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIPM							*	*	*	*				
	WEALTH MANAGEMENT	1854UMSWM							*	*	*	*				
	DIRECT TAXES	1855UMSDT							*	*	*	*				
	COMMODITY AND	1856UMSCDM							*	*	*	*				


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	DERIVATIVES MARKET															
	FINANCIAL ACCOUNTING	1953UMSFA							*	*	*	*				
	RISK MANAGEMENT	1953UMSRM							*	*		*				
	SERVICE MARKETING	1853UMSSM											*	*	*	*
	E-COMMERCE AND DIGITAL MARKETING	1854UMSEDM											*	*		*
	SALES AND DISTRIBUTION MANAGEMENT	1855UMSSDM											*	*	*	*
	CUSTOMER RELATIONSHIP MANAGEMENT	1956UMSCRM											*	*	*	*
	INDUSTRIAL MARKETING	1954UMSIM											*	*		*
	STRATEGIC MARKETING MANAGEMENT	1954UMSSMM											*	*	*	*
Sem 6	OPERATION RESEARCH	1861UMSOR	*	*	*		*	*								
	RESEARCH BASED PROJECT WORK	1862UMSRPW	*	*	*	*	*	*								
	INTERNATIONAL FINANCE	1863UMSIF							*	*	*	*				
	INNOVATIVE FINANCIAL SERVICES	1864UMSIFS							*	*		*				
	PROJECT MANAGEMENT	1865UMSPM							*	*	*	*				
	INDIRECT TAXES	1866UMSIDT							*	*		*				
	STRATEGIC FINANCIAL MANAGEMENT	1963UMSSFm							*	*	*	*				
	FINANCING RURAL DEVELOPMENT	1963UMSFRD							*		*	*				

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	BRAND MANAGEMENT	1863UMSBM											*	*	*	*
	RETAIL MANAGEMENT	1864UMSRM											*	*	*	*
	SPORTS MARKETING	1965UMSSM												*	*	*
	MEDIA PLANNING AND MANAGEMENT	1866UMSMPM											*	*	*	*
	INTERNATIONAL MARKETING	1864UMSIM											*		*	*
	MARKETING FOR NON- PROFIT ORGANIZATION	1964UMSMNO												*	*	*

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Table No. B.2: CO Attainment Level: Bachelor of Management Studies (BMS)
Academic Year - 2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION – I	2111UMSB C	2.4	2	Fully Attained	NA
	FOUNDATION COURSE – I	2112UMSF C	2.8	2	Fully Attained	NA
	FOUNDATION OF HUMAN SKILLS	2013UMSH S	2.8	2	Fully Attained	NA
	BUSINESS LAW	2114UMSB L	2.4	2	Fully Attained	NA
	BUSINESS STATISTICS	2015UMSB S	2.4	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL ACCOUNTS	2116UMSF A	3	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	2017UMSP M	3.4	2	Fully Attained	NA
II	BUSINESS COMMUNICATION-II	2121UMSB C	3.4	2	Fully Attained	NA
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	2122UMSF C	3	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	2023UMSB V	2.8	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2024UMSB M	2.8	2	Fully Attained	NA
	INDUSTRIAL LAW	2125UMSI L	2.4	2	Fully Attained	NA
	PRINCIPLES OF MARKETING	2026UMSP M	3.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	2027UMSB E	3	2	Fully Attained	NA
III	PERSONAL EFFECTIVENESS MANAGEMENT	2131UMSP EM	2.8	2	Fully Attained	NA
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	2132UMSB EM	3.8	2	Fully Attained	NA
	ACCOUNTING FOR MANAGERIAL DECISIONS	2133UMSA MD	2.8	2	Fully Attained	NA
	STRATEGIC MANAGEMENT	2134UMSS M	2.8	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT – I	2135UMSI TB	3	2	Fully Attained	NA
	EQUITY AND DEBT MARKET	2136UMSE DM	2.4	2	Fully Attained	NA
	CORPORATE FINANCE	2137UMSC F	2.8	2	Fully Attained	NA
	BASICS OF FINANCIAL SERVICES	2136UMSB FS	NA	2	Fully Attained	NA
	INTRODUCTION TO COST	2136UMSI	NA	2	Fully	NA


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	ACCOUNTING	CA			Attained	
	CONSUMER BEHAVIOUR	2136UMSC B	2.6	2	Fully Attained	NA
	PRODUCT INNOVATIONS MANAGEMENT	2137UMSP IM	2.4	2	Fully Attained	NA
	ADVERTISING	2137UMSA D	NA	2	Fully Attained	NA
	SOCIAL MARKETING	2137UMSS M	NA	2	Fully Attained	NA
IV	BUSINESS ECONOMICS- II	2141UMSB E	2.8	2	Fully Attained	NA
	BUSINESS RESEARCH METHODS	2142UMSB RM	3	2	Fully Attained	NA
	CHANGE MANAGEMENT	2143UMSC M	3.4	2	Fully Attained	NA
	PRODUCTION & TOTAL QUALITY MANAGEMENT	2144UMSP QM	3.4	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	2145UMSI BM	3	2	Fully Attained	NA
	STRATEGIC COST MANAGEMENT	2146UMSS CM	2.8	2	Fully Attained	NA
	CORPORATE RESTRUCTURING	2147UMSC R	2.8	2	Fully Attained	NA
	FINANCIAL INSTITUTIONS & MARKETS	2146UMSF IM	NA	2	Fully Attained	NA
	AUDITING	2146UMSA	NA	2	Fully Attained	NA
	INTEGRATED MARKETING COMMUNICATION	2146UMSI MC	2.4	2	Fully Attained	NA
	EVENT MARKETING	2147UMSE M	3	2	Fully Attained	NA
	RURAL MARKETING	2147UMSR M	NA	2	Fully Attained	NA
	TOURISM MARKETING	2147UMST M	NA	2	Fully Attained	NA
V	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSL SM	3.2	2	Fully Attained	NA
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSA SM	3	2	Fully Attained	NA
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSI PM	3.4	2	Fully Attained	NA
	WEALTH MANAGEMENT	1854UMS WM	3.4	2	Fully Attained	NA
	DIRECT TAXES	1855UMSD T	3.4	2	Fully Attained	NA
	COMMODITY AND DERIVATIVES MARKET	1856UMSC DM	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING	1953UMSF A	NA	2	Fully Attained	NA
	RISK MANAGEMENT	1953UMSR M	NA	2	Fully Attained	NA
	SERVICE MARKETING	1853UMSS M	2.8	2	Fully Attained	NA
	E-COMMERCE AND DIGITAL	1854UMSE	2.6	2	Fully	NA

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	MARKETING	DM			Attained	
	SALES AND DISTRIBUTION MANAGEMENT	1855UMSS DM	2.4	2	Fully Attained	NA
	CUSTOMER RELATIONSHIP MANAGEMENT	1956UMSC RM	3	2	Fully Attained	NA
	INDUSTRIAL MARKETING	1954UMSI M	NA	2	Fully Attained	NA
	STRATEGIC MARKETING MANAGEMENT	1954UMSS MM	NA	2	Fully Attained	NA
VI	OPERATION RESEARCH	1861UMSO R	3	2	Fully Attained	NA
	RESEARCH BASED PROJECT WORK	1862UMSR PW	3.6	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1863UMSI F	3.4	2	Fully Attained	NA
	INNOVATIVE FINANCIAL SERVICES	1864UMSI FS	3.8	2	Fully Attained	NA
	PROJECT MANAGEMENT	1865UMSP M	2.6	2	Fully Attained	NA
	INDIRECT TAXES	1866UMSI DT	4	2	Fully Attained	NA
	STRATEGIC FINANCIAL MANAGEMENT	1963UMSS FM	NA	2	Fully Attained	NA
	FINANCING RURAL DEVELOPMENT	1963UMSF RD	NA	2	Fully Attained	NA
	BRAND MANAGEMENT	1863UMSB M	3	2	Fully Attained	NA
	RETAIL MANAGEMENT	1864UMSR M	3.4	2	Fully Attained	NA
	SPORTS MARKETING	1965UMSS M	2.8	2	Fully Attained	NA
	MEDIA PLANNING AND MANAGEMENT	1866UMS MPM	3	2	Fully Attained	NA
	INTERNATIONAL MARKETING	1864UMSI M	NA	2	Fully Attained	NA
	MARKETING FOR NON-PROFIT ORGANIZATION	1964UMS MNO	NA	2	Fully Attained	NA
		Average	2.97			

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

Table No. B.2a: PO Attainment Level- Bachelor of Management Studies (BMS)-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

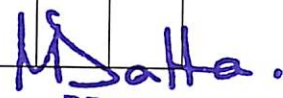
The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

10.Planned Actions for Program Outcome Attainment: Program Outcome Attainment levels are greater than target level-4. Hence at present no plans are required.


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Table No. B.3: Results of CO-PO attainment-Bachelor of Management Studies (BMS)
Academic Year 2022-23


Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	Finance Elective				Marketing Elective			
									PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
Sem 1	BUSINESS COMMUNICATION – I	2111UMSBC	2.4	2.4	2.4			2.4								
	FOUNDATION COURSE – I	2112UMSFC	2.8	2.8												
	FOUNDATION OF HUMAN SKILLS	2013UMSHS	2.8		2.8	2.8	2.8									
	BUSINESS LAW	2114UMSBL	2.4		2.4		2.4									
	BUSINESS STATISTICS	2015UMSBS	2.4	2.4			2.4	2.4								
	INTRODUCTION TO FINANCIAL ACCOUNTS	2116UMSFA	3	3		3		3								
	PRINCIPLES OF MANAGEMENT	2017UMSPM	3.4	3.4	3.4	3.4		3.4								
Sem 2	BUSINESS COMMUNICATION- II	2121UMSBC	3.4	3.4	3.4			3.4								
	FOUNDATION COURSE -II (VALUE EDUCATION AND SOFT SKILLS)	2122UMSFC	3	3	3	3										
	BUSINESS ENVIRONMENT	2023UMSBV	2.8	2.8			2.8	2.8								
	BUSINESS MATHEMATICS	2024UMSBM	2.8	2.8			2.8	2.8								
	INDUSTRIAL LAW	2125UMSIL	2.4		2.4		2.4									
	PRINCIPLES OF MARKETING	2026UMSPM	3.4	3.4	3.4	3.4	3.4	3.4								
	BUSINESS ECONOMICS - I	2027UMSBE	3	3			3									
Sem 3	PERSONAL EFFECTIVENESS MANAGEMENT	2131UMSPEM	2.8		2.8	2.8		2.8								
	BUSINESS PLANNING AND ENTREPRENEURSHIP MANAGEMENT	2132UMSBEM	3.8	3.8	3.8	3.8	3.8	3.8								
	ACCOUNTING FOR MANAGERIAL DECISIONS	2133UMSAMD	2.8	2.8			2.8	2.8								
	STRATEGIC MANAGEMENT	2134UMSSM	2.8	2.8		2.8	2.8	2.8								
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT – I	2135UMSITB	3	3	3			3								

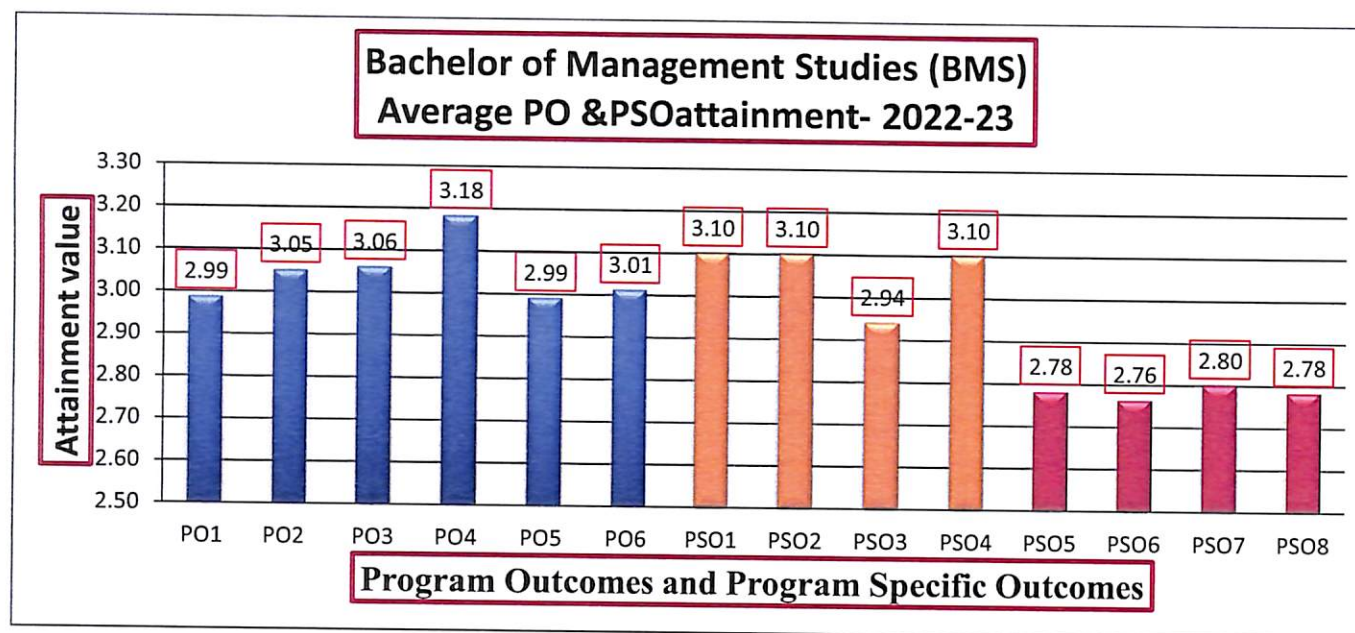

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	EQUITY AND DEBT MARKET	2136UMSEDM							2.4	2.4	2.4	2.4				
	CORPORATE FINANCE	2137UMSCF							2.8	2.8	2.8	2.8				
	BASICS OF FINANCIAL SERVICES	2136UMSBFS							-		-	-				
	INTRODUCTION TO COST ACCOUNTING	2136UMSICA							-	-	-					
	CONSUMER BEHAVIOUR	2136UMSCB											2.6	2.6	2.6	2.6
	PRODUCT INNOVATIONS MANAGEMENT	2137UMSPIM											2.4	2.4	2.4	2.4
	ADVERTISING	2137UMSAD											-	-	-	-
	SOCIAL MARKETING	2137UMSSM											-	-	-	-
Sem 4	BUSINESS ECONOMICS- II	2141UMSBE	2.8	2.8			2.8	2.8								
	BUSINESS RESEARCH METHODS	2142UMSBRM	3	3	3	3	3	3								
	CHANGE MANAGEMENT	2143UMSCM	3.4	3.4	3.4	3.4	3.4									
	PRODUCTION & TOTAL QUALITY MANAGEMENT	2144UMSPQM	3.4	3.4			3.4									
	INFORMATION TECHNOLOGY IN BUSINESS MANAGEMENT- II	2145UMSIBM	3	3	3			3								
	STRATEGIC COST MANAGEMENT	2146UMSSCM							2.8	2.8	2.8	2.8				
	CORPORATE RESTRUCTURING	2147UMSCR							2.8	2.8	2.8	2.8				
	FINANCIAL INSTITUTIONS & MARKETS	2146UMSFIM							-	-	-	-				
	AUDITING	2146UMSA							-	-	-					
	INTEGRATED MARKETING COMMUNICATION	2146UMSIMC											2.4	2.4	2.4	2.4
	EVENT MARKETING	2147UMSEM											3		3	3
	RURAL MARKETING	2147UMSRM											-	-	-	-
	TOURISM MARKETING	2147UMSTM											-	-	-	-
Sem 5	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	1851UMSLSM	3.2	3.2	3.2		3.2									
	ANALYTICAL SKILLS FOR MANAGERS	1952UMSASM	3	3			3	3								
	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	1853UMSIPM							3.4	3.4	3.4	3.4				

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	WEALTH MANAGEMENT	1854UMSWM							3.4	3.4	3.4	3.4				
	DIRECT TAXES	1855UMSDT							3.4	3.4	3.4	3.4				
	COMMODITY AND DERIVATIVES MARKET	1856UMSCDM							2.4	2.4	2.4	2.4				
	FINANCIAL ACCOUNTING	1953UMSFA							-	-	-	-				
	RISK MANAGEMENT	1953UMSRM							-	-		-				
	SERVICE MARKETING	1853UMSSM											2.8	2.8	2.8	2.8
	E-COMMERCE AND DIGITAL MARKETING	1854UMSEDM											2.6	2.6		2.6
	SALES AND DISTRIBUTION MANAGEMENT	1855UMSSDM											2.4	2.4	2.4	2.4
	CUSTOMER RELATIONSHIP MANAGEMENT	1956UMSCRM											3	3	3	3
	INDUSTRIAL MARKETING	1954UMSIM											-	-		-
	STRATEGIC MARKETING MANAGEMENT	1954UMSSMM											-	-	-	-
Sem 6	OPERATION RESEARCH	1861UMSOR	3	3	3		3	3								
	RESEARCH BASED PROJECT WORK	1862UMSRPW	3.6	3.6	3.6	3.6	3.6	3.6								
	INTERNATIONAL FINANCE	1863UMSIF							3.4	3.4	3.4	3.4				
	INNOVATIVE FINANCIAL SERVICES	1864UMSIFS							3.8	3.8		3.8				
	PROJECT MANAGEMENT	1865UMSPM							2.6	2.6	2.6	2.6				
	INDIRECT TAXES	1866UMSIDT							4	4		4				
	STRATEGIC FINANCIAL MANAGEMENT	1963UMSSFM							-	-	-	-				
	FINANCING RURAL DEVELOPMENT	1963UMSFRD							-		-	-				
	BRAND MANAGEMENT	1863UMSBM											3	3	3	3
	RETAIL MANAGEMENT	1864UMSRM											3.4	3.4	3.4	3.4
	SPORTS MARKETING	1965UMSSM												2.8	2.8	2.8
	MEDIA PLANNING AND MANAGEMENT	1866UMSMPPM											3	3	3	3
	INTERNATIONAL MARKETING	1864UMSIM											-		-	-
	MARKETING FOR NON-PROFIT ORGANIZATION	1964UMSMNO												-	-	-
	AVERAGE		2.99	3.05	3.06	3.18	2.99	3.01	3.10	3.10	2.94	3.10	2.78	2.76	2.80	2.78


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

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

Table No. C.1: PO CO Mapping Matrix: B.Com. (Accounting and Finance)(BAF)
Academic Year – 2022-23

Semester	subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem. 1	BUSINESS COMMUNICATION - I	2011UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	*	*	*	*		*
	FOUNDATION COURSE - I	2113UAFFC	*	*		*	*	
	BUSINESS ECONOMICS - I	2014UAFBE	*	*		*	*	
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFCO	*	*		*	*	*
	BUSINESS MATHEMATICS	2016UAFBM	*		*	*		*
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFFA	*		*	*		*
Sem. 2	BUSINESS COMMUNICATION - II	2021UAFBC	*	*		*		*
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	2022UAFIT	*	*	*	*		*
	FOUNDATION COURSE - II	2123UAFFC	*	*		*	*	
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFAD	*	*	*	*	*	*
	BUSINESS LAW - I	2025UAFBL	*	*	*	*	*	
	FINANCIAL MANAGEMENT - I	2026UAFFM	*	*	*	*		*
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	2027UAFFA	*		*	*		*
Sem. 3	BUSINESS ECONOMICS - II	2231UAFBE	*	*		*	*	
	FOUNDATION	2232UAFFC	*	*		*	*	*


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	COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)						
	Advanced Tally & Microsoft Excel	2238UTPX	*	*	*	*	*
	TAXATION - I (INDIRECT TAXES - I)	2233UAFIDT	*	*	*	*	*
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2234UAFAU	*	*	*	*	*
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	2235UAFBL	*	*	*	*	*
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2236UAFCA	*		*	*	*
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	2237UAFFA	*		*	*	*
Sem. 4	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	2241UAFRM	*	*		*	*
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2242UAFFC	*	*	*	*	*
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	2243UAFMA	*		*	*	*
	TAXATION - II (INDIRECT TAXES - II)	2244UAFIDT	*	*	*	*	*
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	2245UAFBL	*	*	*	*	*
	COST ACCOUNTING - II (METHOD OF COSTING)	2246UAFCA			*	*	*
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2247UAFFA	*		*	*	*
Sem. 5	FINANCIAL ACCOUNTING - V	2251UAFFA	*		*	*	*
	FINANCIAL	2252UAFFA	*		*	*	*

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	ACCOUNTING - VI						
	FINANCIAL MANAGEMENT - II	2253UAFPM	*	*	*	*	*
	COST ACCOUNTING - III	2254UAFCA	*		*	*	*
	TAXATION - III (DIRECT TAXES - I)	2255UAFDT	*	*	*	*	*
	MARKETING IN FINANCIAL SERVICES	2256UAFMS	*	*		*	*
Sem. 6	FINANCIAL ACCOUNTING - VII	2261UAFFA	*		*	*	*
	INTERNSHIP BASED PROJECT WORK	2262UAFIP	*	*	*	*	*
	ECONOMICS - III (INDIAN ECONOMY)	2263UAFIE	*	*		*	*
	COST ACCOUNTING - IV	2264UAFCA	*		*	*	*
	TAXATION- IV (DIRECT TAXES - II)	2265UAFDT	*	*	*	*	*
	INTERNATIONAL FINANCE	2266UAFIF	*	*	*	*	*

**Table No. C.2: CO Attainment Level - B.Com. (Accounting and Finance)(BAF)-
Academic Year 2022-23**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	2011UAFBC	3	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	3.4	2	Fully Attained	NA
	FOUNDATION COURSE - I	2113UAFFC	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	2014UAFBE	2.8	2	Fully Attained	NA
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFCO	2.2	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2016UAFBM	2.8	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFFA	3.2	2	Fully Attained	NA
II	BUSINESS COMMUNICATION - II	2021UAFBC	3	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	2022UAFIT	2.8	2	Fully Attained	NA


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	FOUNDATION COURSE - II	2123UAFFC	3	2	Fully Attained	NA
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFAD	2.4	2	Fully Attained	NA
	BUSINESS LAW - I	2025UAFBL	2.8	2	Fully Attained	NA
	FINANCIAL MANAGEMENT - I	2026UAFPM	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	2027UAFFA	2.8	2	Fully Attained	NA
III	BUSINESS ECONOMICS - II	2231UAFBE	2	2	Fully Attained	NA
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	2232UAFFC	2.4	2	Fully Attained	NA
	TAXATION - I (INDIRECT TAXES - I)	2233UAFIDT	2.4	2	Fully Attained	NA
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2234UAFAU	2.4	2	Fully Attained	NA
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	2235UAFBL	2	2	Fully Attained	NA
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2236UAFCA	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	2237UAFFA	2	2	Fully Attained	NA
IV	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	2241UAFRM	2.4	2	Fully Attained	NA
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2242UAFFC	2.4	2	Fully Attained	NA
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	2243UAFMA	3.4	2	Fully Attained	NA
	TAXATION - II (INDIRECT TAXES - II)	2244UAFIDT	3	2	Fully Attained	NA
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	2245UAFBL	2.8	2	Fully Attained	NA
	COST ACCOUNTING - II (METHOD OF COSTING)	2246UAFCA	2.8	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2247UAFFA	2.4	2	Fully Attained	NA
V	FINANCIAL ACCOUNTING - V	2251UAFFA	3.2	2	Fully Attained	NA
	FINANCIAL ACCOUNTING -	2252UAFFA	2.8	2	Fully	NA

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	VI				Attained	
	FINANCIAL MANAGEMENT - II	2253UAFFM	2.4	2	Fully Attained	NA
	COST ACCOUNTING - III	2254UAFCA	2.8	2	Fully Attained	NA
	TAXATION - III (DIRECT TAXES - I)	2255UAFDT	3	2	Fully Attained	NA
	MANAGEMENT - II (MARKETING OF SERVICES)	2256UAFMS	2.4	2	Fully Attained	NA
VI	FINANCIAL ACCOUNTING - VII	2261UAFFA	3	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	2262UAFIP	3.4	2	Fully Attained	NA
	ECONOMICS - III (INDIAN ECONOMY)	2263UAFIE	2.4	2	Fully Attained	NA
	COST ACCOUNTING - IV	2264UAFCA	3	2	Fully Attained	NA
	TAXATION- IV (DIRECT TAXES - II)	2265UAFDT	4.4	2	Fully Attained	NA
	INTERNATIONAL FINANCE	2266UAFIF	2.4	2	Fully Attained	NA
		Average	2.73			
NA: Not Applicable as target level is fully attained.						

**Table No.C.2a: PO Attainment Level- B.Com. (Accounting and Finance)(BAF)-
Academic Year 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

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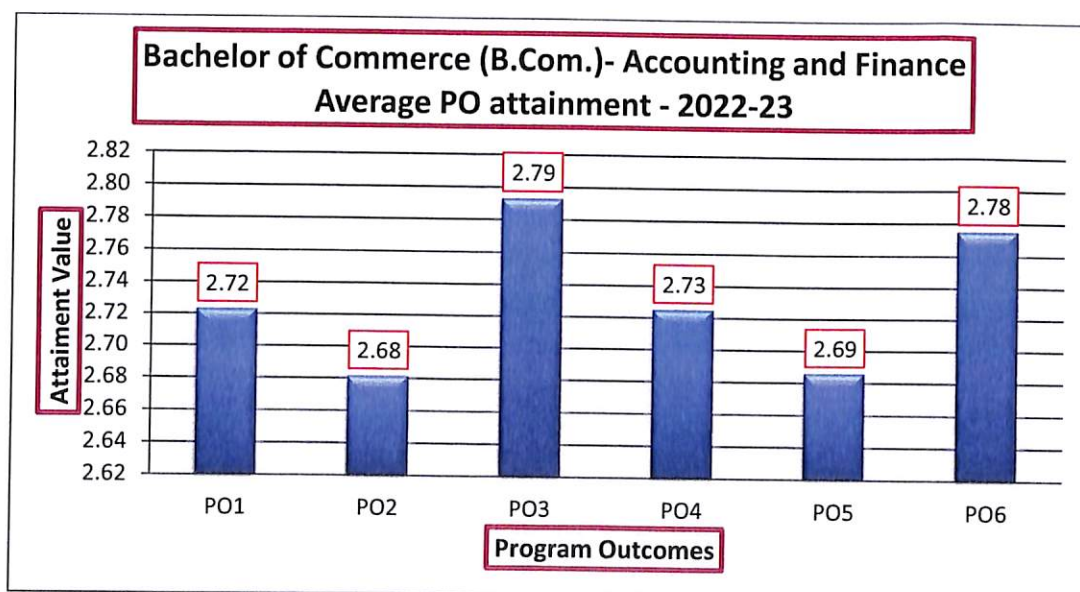
**Table No. C.3: Results of CO-PO attainment- B.Com. (Accounting and Finance)(BAF)-
Academic Year 2022-23**

Semester	subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem. 1	BUSINESS COMMUNICATION - I	2011UAFBC	3	3		3		3
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - I	2012UAFIT	3.4	3.4	3.4	3.4		3.4
	FOUNDATION COURSE - I	2113UAFFC	2.4	2.4		2.4	2.4	
	BUSINESS ECONOMICS - I	2014UAFBE	2.8	2.8		2.8	2.8	
	COMMERCE (BUSINESS ENVIRONMENT) - I	2015UAFCO	2.2	2.2		2.2	2.2	2.2
	BUSINESS MATHEMATICS	2016UAFBM	2.8		2.8	2.8		2.8
	FINANCIAL ACCOUNTING - I (ELEMENTS OF FINANCIAL ACCOUNTING)	2017UAFFA	3.2		3.2	3.2		3.2
Sem. 2	BUSINESS COMMUNICATION - II	2021UAFBC	3	3		3		3
	INFORMATION TECHNOLOGY IN ACCOUNTING AND FINANCE - II	2022UAFIT	2.8	2.8	2.8	2.8		2.8
	FOUNDATION COURSE - II	2123UAFFC	3	3		3	3	
	AUDITING - I (INTRODUCTION AND PLANNING)	2024UAFAD	2.4	2.4	2.4	2.4	2.4	2.4
	BUSINESS LAW - I	2025UAFBL	2.8	2.8	2.8	2.8	2.8	
	FINANCIAL MANAGEMENT - I	2026UAFFM	2.4	2.4	2.4	2.4		*
	FINANCIAL ACCOUNTING - II (SPECIAL ACCOUNTING AREAS)	2027UAFFA	2.8		2.8	2.8		2.8
Sem. 3	BUSINESS ECONOMICS - II	2231UAFBE	2	2		2	2	
	FOUNDATION COURSE IN MANAGEMENT - III (INTRODUCTION TO MANAGEMENT)	2232UAFFC	2.4	2.4		2.4	2.4	2.4
	Advanced Tally & Microsoft Excel	2238UTPX	*	*	*	*		*
	TAXATION - I (INDIRECT TAXES - I)	2233UAFIDT	2.4	2.4	2.4	2.4	2.4	2.4
	AUDITING - II (TECHNIQUES OF AUDITING AND AUDIT PROCEDURES)	2234UAFAU	2.4	2.4	2.4	2.4	2.4	2.4
	BUSINESS LAW - II (BUSINESS REGULATORY FRAMEWORK)	2235UAFBL	2	2	2	2	2	
	COST ACCOUNTING - I (INTRODUCTION AND ELEMENTS OF COST)	2236UAFCA	2.4		2.4	2.4		2.4
	FINANCIAL ACCOUNTING - III (SPECIAL ACCOUNTING AREAS)	2237UAFFA	2		2	2		2
Sem. 4	RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE	2241UAFRM	2.4	2.4		2.4	2.4	2.4
	FOUNDATION COURSE IN COMMERCE - IV (INDIAN FINANCIAL SYSTEM)	2242UAFFC	2.4	2.4	2.4	2.4		2.4
	MANAGEMENT ACCOUNTING (INTRODUCTION TO MANAGEMENT ACCOUNTING)	2243UAFMA	3.4		3.4	3.4	3.4	3.4

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	TAXATION - II (INDIRECT TAXES - II)	2244UAFIDT	3	3	3	3	3	3
	BUSINESS LAW - III (THE COMPANIES ACT 2013)	2245UAFBL	2.8	2.8	2.8	2.8	2.8	
	COST ACCOUNTING - II (METHOD OF COSTING)	2246UAFCA			2.8	2.8		2.8
	FINANCIAL ACCOUNTING - IV (SPECIAL ACCOUNTING AREAS)	2247UAFFA	2.4		2.4	2.4		2.4
Sem. 5	FINANCIAL ACCOUNTING - V	2251UAFFA	3.2		3.2	3.2		3.2
	FINANCIAL ACCOUNTING - VI	2252UAFFA	2.8		2.8	2.8		2.8
	FINANCIAL MANAGEMENT - II	2253UAFPM	2.4	2.4	2.4	2.4	2.4	2.4
	COST ACCOUNTING - III	2254UAFCA	2.8		2.8	2.8		2.8
	TAXATION - III (DIRECT TAXES - I)	2255UAFDT	3	3	3	3	3	3
	MANAGEMENT - II (MARKETING OF SERVICES)	2256UAFMS	2.4	2.4		2.4	2.4	2.4
Sem. 6	FINANCIAL ACCOUNTING - VII	2261UAFFA	3		3	3		3
	INTERNSHIP BASED PROJECT WORK	2262UAFIP	3.4	3.4	3.4	3.4	3.4	3.4
	ECONOMICS - III (INDIAN ECONOMY)	2263UAFIE	2.4	2.4		2.4	2.4	2.4
	COST ACCOUNTING - IV	2264UAFCA	3		3	3		3
	TAXATION- IV (DIRECT TAXES - II)	2265UAFDT	4.4	4.4	4.4	4.4	4.4	4.4
	INTERNATIONAL FINANCE	2266UAFIF	2.4	2.4	2.4	2.4		2.4
Average			2.72	2.68	2.79	2.73	2.69	2.78
NA: Not Applicable as target level is fully attained.								



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

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ANNEXURE 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 - 2022-23**

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
Sem 1	BUSINESS COMMUNICATION - I	2011UBIBC	*	*			*	*
	PRINCIPLES OF MANAGEMENT	2012UBIPM	*	*	*			*
	FOUNDATION COURSE - I	2113UBIFC	*	*			*	*
	BUSINESS ECONOMICS - I	2014UBIBE	*	*	*			*
	FINANCIAL ACCOUNTING - I	2015UBIFA	*		*	*		*
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	2016UBIEM	*	*			*	
	QUANTITATIVE METHODS - I	2017UBIQM	*		*	*		*
Sem 2	BUSINESS COMMUNICATION- II	2021UBIBC	*	*				*
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	*	*			*	*
	FOUNDATION COURSE- II	2123UBIFC	*	*			*	*
	BUSINESS LAW	2124UBIBL	*		*		*	
	FINANCIAL ACCOUNTING - II	2025UBIFA	*		*	*		*
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	*	*				*
	QUANTITATIVE METHODS -II	2027UBIQM	*		*	*		*
Sem 3	FINANCIAL MARKETS	2231UBIFM	*			*		*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	2232UBIIT	*	*	*			*
	FINANCIAL MANAGEMENT - I	2233UBIFT	*		*	*		*
	MANAGEMENT ACCOUNTING	2234UBIMA	*		*			*

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	DIRECT TAXATION	2235UBIDT	*		*			*
	RISK MANAGEMENT	2236UBIRM	*		*	*		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	2237UBIFC	*	*			*	*
Sem 4	CORPORATE AND SECURITIES LAW	2241UBICL	*		*			*
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	2242UBIIT	*	*		*		*
	FINANCIAL MANAGEMENT -II	2243UBIFM	*		*	*		*
	COST ACCOUNTING	2244UBICA	*		*	*		
	BUSINESS ECONOMICS -II	2245UBIBE	*	*				*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2246UBICG	*	*			*	*
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	2247UBIFC	*	*			*	*
Sem 5	INTERNATIONAL BANKING AND FINANCE	2251UBIIB	*	*				*
	RESEARCH METHODOLOGY	2252UBIRM	*		*	*		*
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	2253UBIAA	*		*	*		
	FINANCIAL REPORTING AND ANALYSIS	2254UBIFRA	*		*		*	*
	AUDITING - I	2255UBIAD	*	*			*	
	FINANCIAL SERVICES MANAGEMENT	2256UBIFS	*	*				*
Sem 6	WEALTH MANAGEMENT	2261UBIWM	*		*			*
	INTERNSHIP BASED PROJECT WORK	2262UBIIP	*	*		*		*
	MARKETING IN BANKING AND INSURANCE	2263UBIMK	*	*				*
	SECURITY ANALYSIS AND PORTFOLIO	2264UBISM	*		*	*		*

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	MANAGEMENT						
	AUDITING- II	2265UBIAD	*	*	*	*	*
	BANKING ASPECTS IN BUSINESS	2266UBIBAB	*	*			*


**Table No. D.2: CO Attainment Level: Bachelor of Commerce (Banking and Insurance)-BBI
Academic Year - 2022-23**

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION - I	2011UBIBC	2.4	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	2012UBIPM	2.8	2	Fully Attained	NA
	FOUNDATION COURSE - I	2113UBIFC	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS - I	2014UBIBE	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - I	2015UBIFA	2.8	2	Fully Attained	NA
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	2016UBIEM	4	2	Fully Attained	NA
	QUANTITATIVE METHODS - I	2017UBIQM	3.2	2	Fully Attained	NA
II	BUSINESS COMMUNICATION- II	2021UBIBC	2.8	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	2.8	2	Fully Attained	NA
	FOUNDATION COURSE- II	2123UBIFC	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	BUSINESS LAW	2124UBIBL	2.4	2	Fully Attained	NA
	FINANCIAL ACCOUNTING - II	2025UBIFA	4	2	Fully Attained	NA
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	2.4	2	Fully Attained	NA
	QUANTITATIVE METHODS -II	2027UBIQM	3.2	2	Fully Attained	NA
III	FINANCIAL MARKETS	2231UBIFM	4	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	2232UBIIT	2.4	2	Fully Attained	NA

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	FINANCIAL MANAGEMENT - I	2233UBIFT	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MANAGEMENT ACCOUNTING	2234UBIMA	0.8	2	Not Attained	
	DIRECT TAXATION	2235UBIDT	2	2	Fully Attained	NA
	RISK MANAGEMENT	2236UBIRM	3.2	2	Fully Attained	NA
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	2237UBIFC	2	2	Fully Attained	NA
IV	CORPORATE AND SECURITIES LAW	2241UBICL	2.4	2	Fully Attained	NA
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	2242UBIIT	3.8	2	Fully Attained	NA
	FINANCIAL MANAGEMENT -II	2243UBIFM	3	2	Fully Attained	NA
	COST ACCOUNTING	2244UBICA	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS -II	2245UBIBE	2.8	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2246UBICG	3.4	2	Fully Attained	NA
	FOUNDATION COURSE -IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	2247UBIFC	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
V	INTERNATIONAL BANKING AND FINANCE	2251UBIIB	2.4	2	Fully Attained	NA
	RESEARCH METHODOLOGY	2252UBIRM	2.4	2	Fully Attained	NA
	ACTUARIAL ANALYSIS IN BANKING AND INSURANCE	2253UBIAA	2.4	2	Fully Attained	NA
	FINANCIAL REPORTING AND ANALYSIS	2254UBIFRA	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	AUDITING - I	2255UBIAD	2.6	2	Fully Attained	NA
	FINANCIAL SERVICES MANAGEMENT	2256UBIFS	3	2	Fully Attained	NA
VI	WEALTH MANAGEMENT	2261UBIWM	2.8	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	2262UBIIP	5	2	Fully Attained	NA
	MARKETING IN	2263UBIMK	2.8	2	Fully	NA


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	BANKING AND INSURANCE				Attained	
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	2264UBISM	2	2	Fully Attained	NA
	AUDITING- II	2265UBIAD	2.4	2	Fully Attained	NA
	BANKING ASPECTS IN BUSINESS	2266UBIBAB	3.4	2	Fully Attained	NA
	Average		2.71			
NA: Not Applicable as target level is fully attained.						

Table No.D.2a: PO Attainment Level-B.Com (Banking and Insurance)-BBI-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. D.3: Results of CO-PO attainment-
Bachelor of Commerce (Banking and Insurance)(BBI)
Academic Year 2022-23**

Semester	Course	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
Sem 1	BUSINESS COMMUNICATION - I	2011UBIBC	2.4	2.4			2.4	2.4
	PRINCIPLES OF MANAGEMENT	2012UBIPM	2.8	2.8	2.8			2.8
	FOUNDATION COURSE - I	2113UBIFC	2.4	2.4			2.4	2.4
	BUSINESS ECONOMICS - I	2014UBIBE	2.4	2.4	2.4			2.4
	FINANCIAL ACCOUNTING - I	2015UBIFA	2.8		2.8	2.8		2.8
	ENVIRONMENT AND MANAGEMENT OF FINANCIAL SERVICES	2016UBIEM	4	4			4	
	QUANTITATIVE METHODS - I	2017UBIQM	3.2		3.2	3.2		3.2

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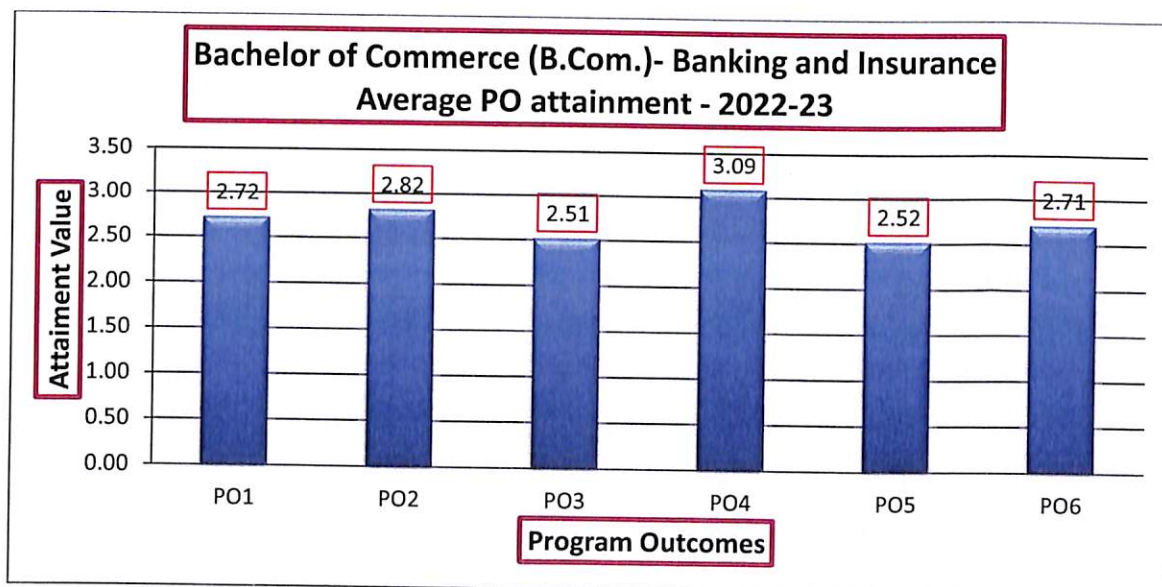
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Sem 2	BUSINESS COMMUNICATION- II	2021UBIBC	2.8	2.8				2.8
	ORGANISATIONAL BEHAVIOUR	2022UBIOB	2.8	2.8			2.8	2.8
	FOUNDATION COURSE- II	2123UBIFC	1.8	1.8			1.8	1.8
	BUSINESS LAW	2124UBIBL	2.4		2.4		2.4	
	FINANCIAL ACCOUNTING - II	2025UBIFA	4		4	4		4
	PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE	2026UBIPP	2.4	2.4				2.4
	QUANTITATIVE METHODS -II	2027UBIQM	3.2		3.2	3.2		3.2
Sem 3	FINANCIAL MARKETS	2231UBIFM	4			4		4
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE-I	2232UBIIT	2.4	2.4	2.4			2.4
	FINANCIAL MANAGEMENT - I	2233UBIFT	1.8		1.8	1.8		1.8
	MANAGEMENT ACCOUNTING	2234UBIMA	0.8		0.8			0.8
	DIRECT TAXATION	2235UBIDT	2.2		2.2			2.2
	RISK MANAGEMENT	2236UBIRM	3.2		3.2	3.2		
	FOUNDATION COURSE - III (HUMAN RESORUCE MANAGEMENT)	2237UBIFC2	2.4	2.4			2.4	2.4
Sem 4	CORPORATE AND SECURITIES LAW	2241UBICL	2.4		2.4			2.4
	INFORMATION TECHNOLOGY IN BANKING AND INSURANCE -II	2242UBIIT	3.8	3.8		3.8		3.8
	FINANCIAL MANAGEMENT -II	2243UBIFM	3		3	3		3
	COST ACCOUNTING	2244UBICA	2.4		2.4	2.4		
	BUSINESS ECONOMICS - II	2245UBIBE	2.8	2.8				2.8
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2246UBICG	3.4	3.4			3.4	3.4
	FOUNDATION COURSE - IV (INTRODUCTION TO INTERNATIONAL BUSINESS)	2247UBIFC	1.8	1.8			1.8	1.8
Sem 5	INTERNATIONAL BANKING AND FINANCE	2251UBIIB	2.4	2.4				2.4
	RESEARCH METHODOLOGY	2252UBIRM	2.4		2.4	2.4		2.4
	ACTUARIAL ANALYSIS IN BANKING AND	2253UBIAA	2.4		2.4	2.4		

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Sem 6	INSURANCE						
	FINANCIAL REPORTING AND ANALYSIS	2254UBIFRA	1.8		1.8		1.8
	AUDITING - I	2255UBIAD	2.6	2.6			2.6
	FINANCIAL SERVICES MANAGEMENT	2256UBIFS	3	3			3
	WEALTH MANAGEMENT	2261UBIWM	2.8		2.8		2.8
	INTERNSHIP BASED PROJECT WORK	2262UBIIP	5	5		5	5
	MARKETING IN BANKING AND INSURANCE	2263UBIMK	2.8	2.8			2.8
	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	2264UBISM	2		2	2	2
	AUDITING- II	2265UBIAD	2.4	2.4	2.4		2.4
	BANKING ASPECTS IN BUSINESS	2266UBIBAB	3.4	3.4			3.4
	AVERAGE		2.72	2.82	2.51	3.09	2.52



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


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ANNEXTURE 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 - 2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	BUSINESS COMMUNICATION-I	2011UFMBC	*	*	*	*		*
	BUSINESS ENVIRONMENT	2012UFMBE	*	*			*	*
	FOUNDATION COURSE – I	2113UFMFC		*	*		*	
	BUSINESS ECONOMICS-I	2014UFMBE	*	*	*	*		*
	FINANCIAL ACCOUNTING- I	2015UFMFA	*	*	*	*		*
	INTRODUCTION TO FINANCIAL SYSTEM	2016UFMFS	*	*				*
	BUSINESS MATHEMATICS	2017UFMBM	*	*	*	*		*
Sem 2	BUSINESS COMMUNICATION-II	2021UFMBC	*	*	*	*		*
	ACCOUNTING IN CORPORATE ENVIRONMENT	2022UFMAE	*	*	*	*		*
	FOUNDATION COURSE – II	2123UFMFC		*	*	*	*	
	COMPUTER SKILLS-I	2024UFMCS	*	*		*	*	*
	FINANCIAL ACCOUNTING- II	2025UFMFA	*	*	*	*		*
	PRINCIPLES OF MANAGEMENT	2026UFMPM	*	*	*	*	*	*
	BUSINESS STATISTICS	2027UFMBS	*	*	*	*		*
Sem 3	MANAGEMENT ACCOUNTING	2231UFMMA	*	*	*	*		*
	FOUNDATION COURSE– III (MONEY MARKET)	2232UFMFC	*	*	*	*		*
	Tally Prime & Excel	2238UTPXL			*	*		*
	DEBT MARKET-I	2233UFMDM	*	*	*	*		*
	EQUITY MARKET-I	2234UFMEM	*	*	*	*		*
	COMMODITY MARKET	2235UFMCM	*	*	*	*		*
	COMPUTER SKILLS- II	2236UFMCS	*	*	*	*		*

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	BUSINESS LAW-I	2237UFMBL	*	*	*	*	*	*
Sem 4	CORPORATE FINANCE	2241UFMCF	*	*	*	*		*
	FOUNDATION COURSE – IV (FOREIGN EXCHANGE MARKET)	2242UFMFC	*	*	*	*		*
	DEBT MARKET-II	2243UFMDM	*	*	*	*		*
	EQUITY MARKET - II	2244UFMEM	*	*	*	*		*
	COMMODITY AND DERIVATIVE MARKET	2245UFMCD	*	*	*	*		*
	BUSINESS ECONOMICS-II	2246UFMBE	*	*	*	*		*
	BUSINESS LAW-II	2247UFMBL	*	*	*	*	*	*
Sem 5	FINANCIAL DERIVATIVES	2251UFMFD	*	*	*	*		*
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2252UFMCG	*	*			*	*
	CORPORATE ACCOUNTING	2253UFMCA	*	*	*	*		*
	EQUITY RESEARCH	2254UFMER	*	*	*	*		*
	DIRECT TAX - INCOME TAX	2255UFMDT	*	*	*	*	*	*
	MARKETING IN FINANCIAL SERVICES	2256UFMFS	*	*	*	*		*
Sem 6	RISK MANAGEMENT	2261UFMRM	*	*	*	*		*
	INTERNSHIP BASED PROJECT WORK	2262UFMIP	*	*	*	*	*	*
	VENTURE CAPITAL AND PRIVATE EQUITY	2263UFMVC	*	*	*	*		*
	STRATEGIC CORPORATE FINANCE	2264UFMCF	*	*	*	*		*
	INDIRECT TAX-GST	2265UFMIT	*	*	*	*	*	*
	ORGANIZATIONAL BEHAVIOUR	2266UFMOB	*	*	*		*	*

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**Table No. E.2: CO Attainment Level: Bachelor of Commerce (Financial Markets)-BFM
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	BUSINESS COMMUNICATION-I	2011UFMBC	3.4	2	Fully Attained	NA
	BUSINESS ENVIRONMENT	2012UFMBE	2.4	2	Fully Attained	NA
	FOUNDATION COURSE – I	2113UFMFC	2.4	2	Fully Attained	NA
	BUSINESS ECONOMICS-I	2014UFMBE	2.8	2	Fully Attained	NA
	FINANCIAL ACCOUNTING- I	2015UFMFA	3.4	2	Fully Attained	NA
	INTRODUCTION TO FINANCIAL SYSTEM	2016UFMFS	2.8	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2017UFMBM	2.8	2	Fully Attained	NA
II	BUSINESS COMMUNICATION- II	2021UFMBC	3	2	Fully Attained	NA
	ACCOUNTING IN CORPORATE ENVIRONMENT	2022UFMAE	2.2	2	Fully Attained	NA
	FOUNDATION COURSE – II	2123UFMFC	2.4	2	Fully Attained	NA
	COMPUTER SKILLS- I	2024UFMCS	2.8	2	Fully Attained	NA
	FINANCIAL ACCOUNTING- II	2025UFMFA	3	2	Fully Attained	NA
	PRINCIPLES OF MANAGEMENT	2026UFMPM	3.4	2	Fully Attained	NA
	BUSINESS STATISTICS	2027UFMBS	3	2	Fully Attained	NA
III	MANAGEMENT ACCOUNTING	2231UFMMA	2.4	2	Fully Attained	NA
	FOUNDATION COURSE– III (MONEY MARKET)	2232UFMFC	3.4	2	Fully Attained	NA
	Tally Prime & Excel	2238UTPXL	NA	NA	NA	NA
	DEBT MARKET-I	2234UFMDM	2.4	2	Fully Attained	NA
	EQUITY MARKET-I	2235UFMCM	2.6	2	Fully Attained	NA
	COMMODITY MARKET	2236UFMCS	3	2	Fully Attained	NA
	COMPUTER SKILLS- II	2237UFMBL	4.6	2	Fully Attained	NA
	BUSINESS LAW-I	2234UFMEM	2.4	2	Fully Attained	NA
IV	CORPORATE	2241UFMCF	1.8	2	Not Attained	Assignments,

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	FINANCE					Tutorials, exercises and Remedial Lectures are planned
	FOUNDATION COURSE – IV (FOREIGN EXCHANGE MARKET)	2242UFMFC	3	2	Fully Attained	NA
	DEBT MARKET-II	2243UFMDM	3	2	Fully Attained	NA
	EQUITY MARKET - II	2244UFMEM	2.4	2	Fully Attained	NA
	COMMODITY AND DERIVATIVE MARKET	2245UFMCD	2	2	Fully Attained	NA
	BUSINESS ECONOMICS-II	2246UFMBE	2.8	2	Fully Attained	NA
	BUSINESS LAW-II	2247UFMBL	2.4	2	Fully Attained	NA
V	FINANCIAL DERIVATIVES	2251UFMFD	3.25	2	Fully Attained	NA
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2252UFMCG	3.4	2	Fully Attained	NA
	CORPORATE ACCOUNTING	2253UFMCA	4	2	Fully Attained	NA
	EQUITY RESEARCH	2254UFMER	2.8	2	Fully Attained	NA
	DIRECT TAX - INCOME TAX	2255UFMDT	3	2	Fully Attained	NA
	MARKETING IN FINANCIAL SERVICES	2256UFMFS	2	2	Fully Attained	NA
VI	RISK MANAGEMENT	2261UFMRM	2.8	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	2262UFMIP	3.6	2	Fully Attained	NA
	VENTURE CAPITAL AND PRIVATE EQUITY	2263UFMVC	2.8	2	Fully Attained	NA
	STRATEGIC CORPORATE FINANCE	2264UFMCF	2	2	Fully Attained	NA
	INDIRECT TAX-GST	2265UFMIT	2.6	2	Fully Attained	NA
	ORGANIZATIONAL BEHAVIOUR	2266UFMOB	1.4	2	Not Attained	Assignments, Tutorials, exercises and Remedial Lectures are planned
		Average	2.79			

NA: Not Applicable as target level is fully attained

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Table No.E.2a: PO Attainment Level- Bachelor of Financial Markets – BFM- 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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 levels are greater than or equal to target level-4. Hence at present no plans are required.

Table No. E.3: Results of CO-PO attainment-Bachelor of Financial Markets (BFM)- Academic Year 2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	BUSINESS COMMUNICATION-I	2011UFMBC	3.4	3.4	3.4	3.4		3.4
	BUSINESS ENVIRONMENT	2012UFMBE	2.4	2.4			2.4	2.4
	FOUNDATION COURSE – I	2113UFMFC		2.4	2.4		2.4	
	BUSINESS ECONOMICS-I	2014UFMBE	2.8	2.8	2.8	2.8		2.8
	FINANCIAL ACCOUNTING- I	2015UFMFA	3.4	3.4	3.4	3.4		3.4
	INTRODUCTION TO FINANCIAL SYSTEM	2016UFMFS	2.8	2.8				2.8
	BUSINESS MATHEMATICS	2017UFMBM	2.8	2.8	2.8	2.8		2.8
Sem 2	BUSINESS COMMUNICATION-II	2021UFMBC	3	3	3	3		3
	ACCOUNTING IN CORPORATE ENVIRONMENT	2022UFMAE	2.2	2.2	2.2	2.2		2.2
	FOUNDATION COURSE – II	2123UFMFC		2.4	2.4	2.4	2.4	
	COMPUTER SKILLS-I	2024UFMCSS	2.8	2.8		2.8	2.8	2.8
	FINANCIAL ACCOUNTING- II	2025UFMFA	3	3	3	3		3
	PRINCIPLES OF MANAGEMENT	2026UFMPM	3.4	3.4	3.4	3.4	3.4	3.4
	BUSINESS STATISTICS	2027UFMBS	3	3	3	3		3

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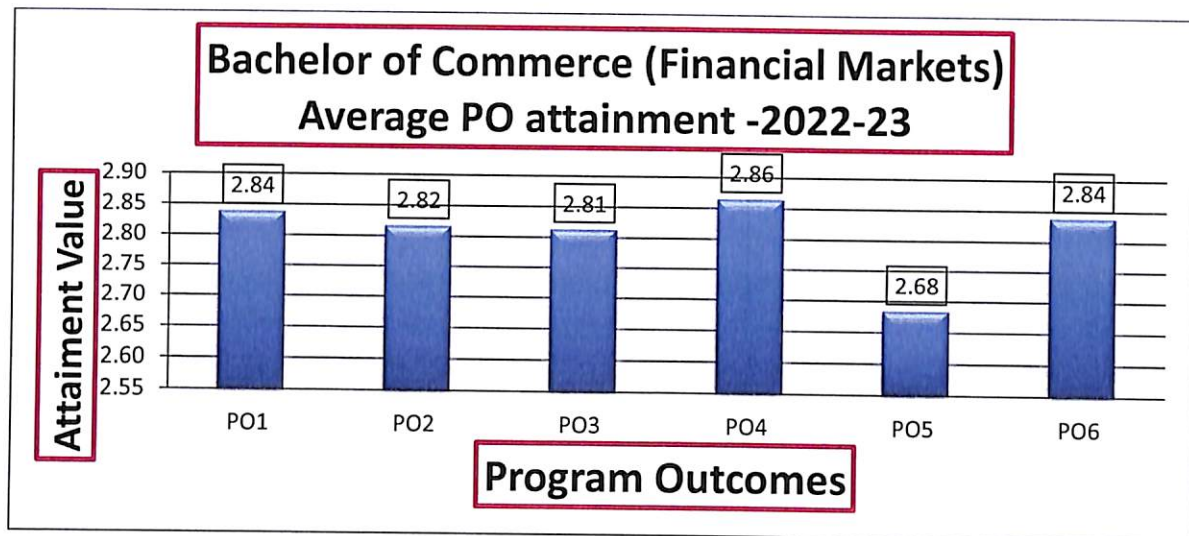
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Sem 3	MANAGEMENT ACCOUNTING	2231UFMMA	2.4	2.4	2.4	2.4		2.4
	FOUNDATION COURSE- III (MONEY MARKET)	2232UFMFC	3.4	3.4	3.4	3.4		3.4
	TALLY PRIME & EXCEL	2238UTPXL			*	*		*
	DEBT MARKET-I	2233UFMDM	2.4	2.4	2.4	2.4		2.4
	EQUITY MARKET-I	2234UFMEM	2.6	2.6	2.6	2.6		2.6
	COMMODITY MARKET	2235UFMCM	3	3	3	3		3
	COMPUTER SKILLS-II	2236UFMCS	4.6	4.6	4.6	4.6		4.6
	BUSINESS LAW-I	2237UFMBL	2.4	2.4	2.4	2.4	2.4	2.4
Sem 4	CORPORATE FINANCE	2241UFMCF	1.8	1.8	1.8	1.8		1.8
	FOUNDATION COURSE - IV (FOREIGN EXCHANGE MARKET)	2242UFMFC	3	3	3	3		3
	DEBT MARKET-II	2243UFMDM	3	3	3	3		3
	EQUITY MARKET - II	2244UFMEM	3	3	3	3		3
	COMMODITY AND DERIVATIVE MARKET	2245UFMCD	2.4	2.4	2.4	2.4		2.4
	BUSINESS ECONOMICS-II	2246UFMBE	2.8	2.8	2.8	2.8		2.8
	BUSINESS LAW-II	2247UFMBL	2.4	2.4	2.4	2.4	2.4	2.4
Sem 5	FINANCIAL DERIVATIVES	2251UFMFD	3.25	3.25	3.25	3.25		3.25
	BUSINESS ETHICS AND CORPORATE GOVERNANCE	2252UFMCG	3.4	3.4			3.4	3.4
	CORPORATE ACCOUNTING	2253UFMCA	4	4	4	4		4
	EQUITY RESEARCH	2254UFMER	2.8	2.8	2.8	2.8		2.8
	DIRECT TAX - INCOME TAX	2255UFMDT	3	3	3	3	3	3
	MARKETING IN FINANCIAL SERVICES	2256UFMFS	2	2	2	2		2
Sem 6	RISK MANAGEMENT	2261UFMRM	2.8	2.8	2.8	2.8		2.8
	INTERNSHIP BASED PROJECT WORK	2262UFMIP	3.6	3.6	3.6	3.6	3.6	3.6
	VENTURE CAPITAL AND PRIVATE EQUITY	2263UFMVC	2.8	2.8	2.8	2.8		2.8
	STRATEGIC CORPORATE FINANCE	2264UFMCF	2	2	2	2		2


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	INDIRECT TAX-GST	2265UFMIT	2.6	2.6	2.6	2.6	2.6	2.6
	ORGANIZATIONAL BEHAVIOUR	2266UFMOB	1.4	1.4	1.4		1.4	1.4
		AVERAGE	2.84	2.82	2.81	2.86	2.68	2.84



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


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ANNEXTURE F

Bachelor of Multi Media & Mass Communication (BAMMC):

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

Bachelor of Multi Media & Mass Communication (BAMMC): Academic Year - 2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O2	PS O3	PS O4	PS O5	PS O6	PS O2
Sem 1	Effective Communication-I	2011UMCEC	*	*																
	Mass Communication	2012UMCMC	*		*	*														
	Landmark Events Of The World & India- A Mass Media Approach	2013UMCLE	*	*	*	*														
	Introduction To Economics	2014UMCIE	*	*	*		*	*												
	Introduction To Sociology	2015UMCIS	*	*	*															
	Introduction To Computers	2016UMCIC	*	*			*	*												
Sem 2	Effective Communication-II	2021UMCEC	*	*	*		*	*												
	Political Concepts And The Indian Political System	2022UMCPC	*	*	*	*	*	*												
	Introduction To Literature	2023UMCIL	*	*																
	Principles Of Marketing	2024UMCPMK	*	*	*	*	*	*												
	Principles Of Management	2025UMCPMG	*					*												
	Media Psychology	2026UMCPSY	*	*	*	*	*	*												
Sem 3	Introduction To Public Relations	2231UMCPR	*	*	*	*	*	*					*							
	Media Studies	2232UMCMS	*	*	*	*	*	*												
	Understanding Cinema	2233UMCUC	*	*	*		*	*												
	Introduction To Cultural Studies	2234UMCCS	*	*	*	*	*	*												
	Creative Writing	2235UMCCW	*	*	*	*	*	*					*							
	Advanced Computers	2236UMCAC	*	*	*	*	*	*												
Sem 4	Photography	2241UMCPH	*	*	*		*	*												
	Introduction To Journalism	2242UMCIJ							*	*	*	*	*	*						
	Introduction To Advertising	2243UMCIA													*	*	*	*	*	*
	Film Appreciation	2244UMCFA	*	*	*					*										
	Organisational Behaviour	2245UMCOB	*	*	*	*		*	*											

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	Mass Media Research	2246UMCMR	*	*	*			*												
Sem 5 Journalism	Digital Media	2251UMMDM	*	*	*	*	*	*		*						*	*		*	
	Journalism And Public Opinion	2252UMMJJP							*	*	*	*	*	*						
	Indian Regional Journalism	2253UMMIR							*											
	Global And New Media	2254UMMGGM	*						*		*			*						
	Reporting	2255UMMRP			*		*		*	*	*	*	*	*						
	Cross Media Writing And Editing-I	2256UMMCME							*	*			*	*						
Sem 5 Advertising	Digital Media	2251UMMDM	*	*	*	*	*	*		*						*	*		*	
	Brand Building	2252UMMBB													*	*	*	*	*	
	Advertising In Contemporary Society	2253UMMAC			*	*	*								*	*	*	*	*	*
	Consumer Behaviour	2254UMMCB													*	*	*		*	
	Media Planning And Behaviour	2255UMMMP													*	*	*		*	*
	Copywriting	2256UMMCW													*	*	*		*	*
Sem 6 Journalism	Newspaper And Magazine Making	2261UMNM							*	*	*	*	*	*						
	Contemporary Issues	2262UMMCI	*	*	*	*	*	*												
	Press Laws And Ethics	2263UMMPLE							*	*	*	*	*	*						
	Broadcast and Digital Journalism	2264UMMBDJ	*	*	*	*			*	*	*									
	Business And Magazine Journalism	2265UMMBMJ							*				*	*						
	News Media Management	2266UMMNMM							*					*						
	Cross Media Writing & Editing-II	2267UMMCME							*	*		*	*	*						
Sem 6 Advertising	Advertising Design	2261UMMAD													*	*	*	*	*	*
	Contemporary Issues	2262UMMCI	*	*	*	*	*	*												
	Legal Environment And Advertising Ethics	2263UMMLE													*			*	*	*
	Financial Management For Marketing And Advertising	2264UMMFM													*				*	
	Principles And Practices Of Direct Marketing	2265UMMDM													*	*	*		*	*
	Agency Management	2266UMMAM													*			*	*	*
	Entrepreneurship Development	2267UMMED			*		*								*			*		

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**Table No. F.2: CO Attainment Level:
Bachelor of Multi Media & Mass Communication (BAMMC):
Academic Year - 2022-23**

SE M	SUB	CODE	CO Attainmen t value	Attainm ent Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Effective Communication-I	2011UMCE C	2.8	2	Fully Attained	NA
	Mass Communication	2012UMCM C	3.4	2	Fully Attained	NA
	Landmark Events Of The World & India- A Mass Media Approach	2013UMCL E	2.8	2	Fully Attained	NA
	Introduction To Economics	2014UMCI E	1.8	2	Not Attained	Assignments, Tutorials, Exercises and Remedial Lectures are Planned
	Introduction To Sociology	2015UMCIS	3.4	2	Fully Attained	NA
	Introduction To Computers	2016UMCI C	2.4	2	Fully Attained	NA
II	Effective Communication-II	2021UMCE C	2.8	2	Fully Attained	NA
	Political Concepts And The Indian Political System	2022UMCP C	2.8	2	Fully Attained	NA
	Introduction To Literature	2023UMCI L	3.4	2	Fully Attained	NA
	Principles Of Marketing	2024UMCP MK	3.2	2	Fully Attained	NA
	Principles Of Management	2025UMCP MG	2.8	2	Fully Attained	NA
	Media Psychology	2026UMCP SY	3.2	2	Fully Attained	NA
III	Introduction To Public Relations	2231UMCP R	1.8	2	Not Attained	Assignments, Tutorials, Exercises and Remedial Lectures are Planned
	Media Studies	2232UMCM S	2.8	2	Fully Attained	NA
	Understanding Cinema	2233UMCU C	2.8	2	Fully Attained	NA
	Introduction To Cultural Studies	2234UMCC S	2.4	2	Fully Attained	NA
	Creative Writing	2235UMCC W	2.4	2	Fully Attained	NA
	Advanced Computers	2236UMCA C	2.8	2	Fully Attained	NA
IV	Photography	2241UMCP H	3.4	2	Fully Attained	NA
	Introduction To Journalism	2242UMCIJ	2.4	2	Fully	NA

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					Attained	
	Introduction To Advertising	2243UMCI A	3	2	Fully Attained	NA
	Film Appreciation	2244UMCF A	3	2	Fully Attained	NA
	Organisational Behaviour	2245UMCO B	3	2	Fully Attained	NA
	Mass Media Research	2246UMCM R	3.4	2	Fully Attained	NA
V Journalism	Digital Media	2251UMM DM	2.8	2	Fully Attained	NA
	Journalism And Public Opinion	2252UMM JP	NA	NA	NA	NA
	Indian Regional Journalism	2253UMM IR	NA	NA	NA	NA
	Global And New Media	2254UMM GM	NA	NA	NA	NA
	Reporting	2255UMM RP	NA	NA	NA	NA
	Cross Media Writing And Editing-I	2256UMM CME	NA	NA	NA	NA
V Advt	Digital Media	2251UMM DM	2.8	2	Fully Attained	NA
	Brand Building	2252UMM BB	2.4	2	Fully Attained	NA
	Advertising In Contemporary Society	2253UMM AC	2.4	2	Fully Attained	NA
	Consumer Behaviour	2254UMM CB	2.8	2	Fully Attained	NA
	Media Planning And Behaviour	2255UMM MP	2.4	2.4	2.4	NA
	Copywriting	2256UMM CW	2.4	2.4	2.4	NA
VI Journalism	Newspaper And Magazine Making	2261UMM NM	NA	NA	NA	NA
	Contemporary Issues	2262UMM CI	NA	NA	NA	NA
	Press Laws And Ethics	2263UM MPLE	NA	NA	NA	NA
	Broadcast and Digital Journalism	2264UMM BDJ	NA	NA	NA	NA
	Business And Magazine Journalism	2265UMM BMJ	NA	NA	NA	NA
	News Media Management	2266UMM NMM	NA	NA	NA	NA
	Cross Media Writing & Editing-II	2267UMM CME	NA	NA	NA	NA
VI Advt	Advertising Design	2261UMM AD	2.4	2	Fully Attained	NA
	Contemporary Issues	2262UMM CI	1.8	2	Not Attained	Assignments, Tutorials, Exercises and Remedial Lectures

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						are Planned
	Legal Environment And Advertising Ethics	2263UMMLE	3	2	Fully Attained	NA
	Financial Management For Marketing And Advertising	2264UMMF	2.6	2	Fully Attained	NA
	Principles And Practices Of Direct Marketing	2265UMMD	2.4	2	Fully Attained	NA
	Agency Management	2266UMMA	2.4	2	Fully Attained	NA
	Entrepreneurship Development	2267UMMED	3.4	2	Fully Attained	NA
	Average		2.74			
NA: Not Applicable as target level is fully attained.						

**Table No. F.2a: PO Attainment Level-
Bachelor of Multi Media & Mass Communication (BAMMC): 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

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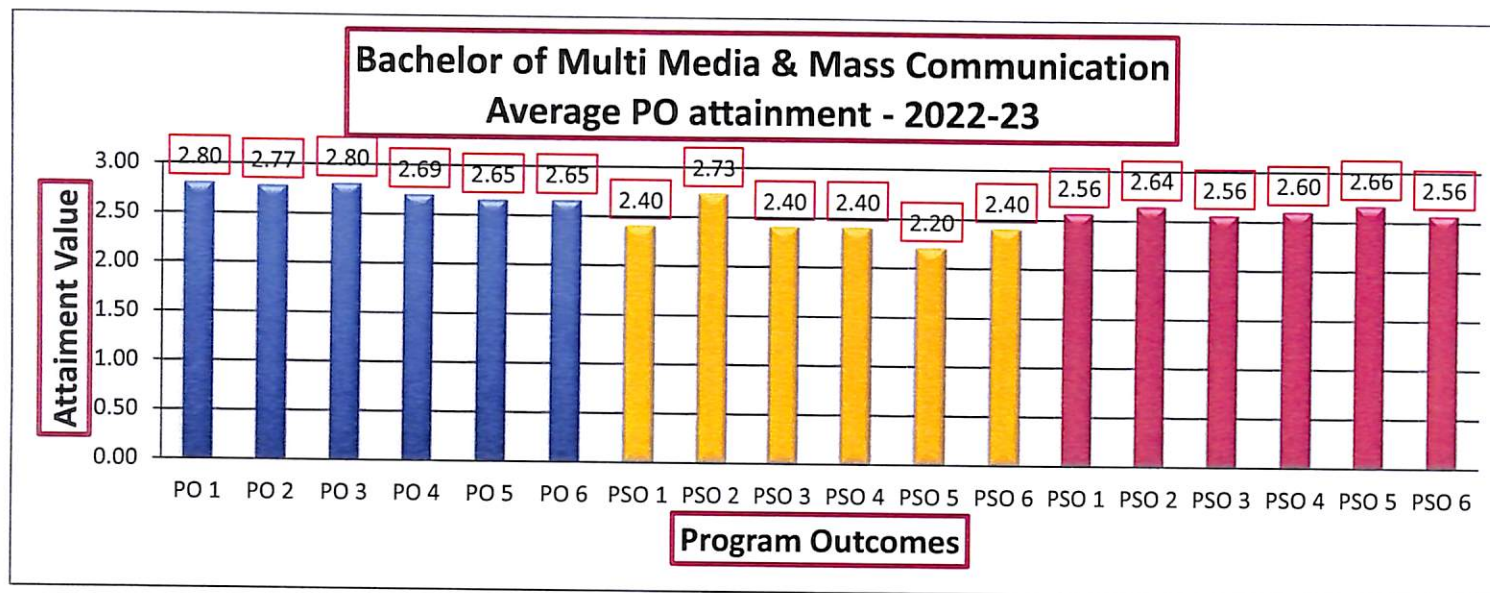
Table No. F.3: Results of CO-PO attainment-Bachelor of Multi Media & Mass Communication (BAMMC)
Academic Year 2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PS O2	PS O3	PS O4	PS O5	PS O6	PS O2
Sem 1	Effective Communication-I	2011UMCEC	2.8	2.8																
	Mass Communication	2012UMCMC	3.4		3.4	3.4														
	Landmark Events Of The World & India- A Mass Media Approach	2013UMCLE	2.8	2.8	2.8	2.8														
	Introduction To Economics	2014UMCIE	1.8	1.8	1.8		1.8	1.8												
	Introduction To Sociology	2015UMCIS	3.4	3.4	3.4															
	Introduction To Computers	2016UMCIC	2.4	2.4			2.4	2.4												
Sem 2	Effective Communication-II	2021UMCEC	2.8	2.8	2.8		2.8	2.8												
	Political Concepts And The Indian Political System	2022UMCPC	2.8	2.8	2.8	2.8	2.8	2.8												
	Introduction To Literature	2023UMCIL	3.4	3.4																
	Principles Of Marketing	2024UMCPMK	3.2	3.2	3.2	3.2	3.2	3.2												
	Principles Of Management	2025UMCPMG	2.8					2.8												
	Media Psychology	2026UMCPSY	3.2	3.2	3.2	3.2	3.2													
Sem 3	Introduction To Public Relations	2231UMCPR	1.8	1.8	1.8	1.8	1.8	1.8					1.8							
	Media Studies	2232UMCMS	2.8	2.8	2.8	2.8	2.8													
	Understanding Cinema	2233UMCUC	2.8	2.8	2.8	2.8	2.8	2.8												
	Introduction To Cultural Studies	2234UMCCS	2.4	2.4	2.4	2.4	2.4	2.4												
	Creative Writing	2235UMCCW	2.4	2.4	2.4	2.4	2.4	2.4					2.4							
	Advanced Computers	2236UMCAC	2.8	2.8	2.8	2.8	2.8	2.8												
Sem 4	Photography	2241UMCPH	3.4	3.4	3.4		3.4	3.4												
	Introduction To Journalism	2242UMCIJ							2.4	2.4	2.4	2.4	2.4	2.4						
	Introduction To Advertising	2243UMCIA													3	3	3	3	3	3
	Film Appreciation	2244UMCFA	3	3	3					3										
	Organisational Behaviour	2245UMCOB	3	3	3	3		3												
	Mass Media Research	2246UMCMR	3.4	3.4	3.4			3.4												
Sem 5 Journalism	Digital Media	2251UMMDM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Journalism And Public Opinion	2252UMMJP							-	-	-	-	-	-						

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	Indian Regional Journalism	2253UMMIR								-										
	Global And New Media	2254UMMG	-							-		-			-					
	Reporting	2255UMMRP			-		-			-	-	-	-	-						
	Cross Media Writing And Editing-I	2256UMMCME								-	-			-	-					
Sem 5 Advertising	Digital Media	2251UMMDM	2.8	2.8	2.8	2.8	2.8	2.8		2.8						2.8	2.8		2.8	
	Brand Building	2252UMMBB														2.4	2.4	2.4	2.4	2.4
	Advertising In Contemporary Society	2253UMMAC			2.4	2.4	2.4									2.4	2.4	2.4	2.4	2.4
	Consumer Behaviour	2254UMMCB														2.8	2.8	2.8		2.8
	Media Planning And Behaviour	2255UMMMP														2.4	2.4	2.4		2.4
	Copywriting	2256UMMCW														2.4	2.4	2.4		2.4
Sem 6 Journalism	Newspaper And Magazine Making	2261UMMN								-	-	-	-	-	-					
	Contemporary Issues	2262UMMCI	-	-	-	-	-	-												
	Press Laws And Ethics	2263UMMPLE								-	-	-	-	-	-					
	Broadcast and Digital Journalism	2264UMMBDJ	-	-	-	-				-	-	-								
	Business And Magazine Journalism	2265UMMBMJ								-				-	-					
	News Media Management	2266UMMNMM								-					-					
	Cross Media Writing & Editing-II	2267UMMCME								-	-			-	-					
Sem 6 Advertising	Advertising Design	2261UMMAD														2.4	2.4	2.4	2.4	2.4
	Contemporary Issues	2262UMMCI	1.8	1.8	1.8	1.8	1.8	1.8												
	Legal Environment And Advertising Ethics	2263UMMLE													3			3	3	3
	Financial Management For Marketing And Advertising	2264UMMFM														2.6				2.6
	Principles And Practices Of Direct Marketing	2265UMMDM														2.4	2.4	2.4		2.4
	Agency Management	2266UMMAM														2.4			2.4	2.4
	Entrepreneurship Development	2267UMMED			3.4		3.4										3.4			3.4
	AVERAGE		2.80	2.77	2.80	2.69	2.65	2.65	2.40	2.73	2.40	2.40	2.20	2.40	2.56	2.64	2.56	2.60	2.66	2.56


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

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

Table No. G.1: PO CO Mapping Matrix:
Bachelor of Science (Information Technology) - B. Sc. (IT): Academic Year - 2022-23

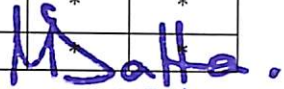
Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
I	Communication Skills	2111UISCS	*			*			*	*	*	*
	Web Programming I	2112UISWP	*		*	*	*		*	*		*
	Introduction to Programming	2113UISIP	*	*		*	*	*			*	*
	Fundamentals of Computers and Electronics	2114UISCE	*	*	*	*		*				
	Operating Systems	2115UISOS	*	*	*	*			*	*		*
	Discrete Mathematics-I	2116UISDM	*	*				*				
	Web Programming I Practical	2112UISWPP	*		*	*	*		*	*		*
	Introduction to Programming Practical	2113UISISP	*	*		*	*	*			*	*
	Fundamentals of Computers and Electronics Practical	2114UISCEP	*	*	*	*		*				
	Operating Systems Practical	2115UISOSP	*	*	*	*			*	*		*
II	IT platforms, Tools and Practices	2121UISTP	*	*		*	*		*	*	*	*
	Web Programming II	2122UISWP	*				*			*	*	*
	Programming and Application Development in Python	2123UISDP	*	*	*		*		*	*		*
	Object Oriented Programming	2124UISOP	*	*		*			*	*	*	*
	Database Management Systems I	2125UISDM	*		*	*			*	*		*
	Discrete Mathematics II	2126UISDM	*	*				*		*		
	Web Programming II Practical	2122UISWPP	*				*			*	*	*
	Programming and Application Development in Python Practical	2123UISDPP	*	*	*		*		*	*		*
	Object Oriented Programming Practical	2124UISOPP	*	*		*			*		*	*

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	Database Management Systems I Practical	2125UISDBP	*		*	*			*	*		*
III	Core Java	2131UISCJ	*	*	*					*	*	*
	Data Structures	2132UISDS	*	*	*		*			*		*
	Computer Networks	2133UISCN	*	*	*				*	*		*
	Database Management Systems- II	2134UISDB	*	*	*					*	*	*
	Descriptive Statistics	2135UISST	*	*	*	*	*	*				
	Advanced Web Programming - I	2136UISAW	*	*	*					*		*
	Hybrid Mobile Application Development I	2136UISMD	*	*	*	*				*	*	*
	Computer Graphics and Animation	2137UISCG	*	*	*	*	*	*		*		*
	Embedded Systems	2137UISES	*	*	*					*		*
	Principles of Management	2137UISPM	*			*			*	*	*	*
	Core Java Practical	2131UISPR	*	*	*					*	*	*
	Data Structures Practical	2132UISPR	*	*	*		*			*		*
	Computer Networks Practical	2133UISPR	*	*	*				*	*		*
	Database Management Systems- II Practical	2134UISPR	*	*	*					*	*	*
	Advanced Web Programming - I Practical	2136UISAWPR	*	*	*					*		*
	Hybrid Mobile Application Development I Practical	2136UISMDPR	*	*	*	*				*		*
	Computer Graphics and Animation Practical	2137UISCGPR	*	*	*	*	*	*		*		*
	Embedded Systems Practical	2137UISESPR	*	*	*					*		*
	Principles of Management Practical	2137UITPMR	*			*			*	*	*	*
	Design Patterns	2141UISDP	*	*	*	*		*		*		
	Design and Analysis of Algorithms	2142UISDA	*	*	*	*	*	*		*	*	*
	System Programming	2143UISSP	*	*	*	*				*		*
	Software Engineering	2144UISSE	*	*	*	*	*			*		*
	Probability Theory	2145UISPT	*	*	*	*	*	*		*		*


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IV	Advanced Web Programming - II	2146UISAW	*	*	*	*						*
	Hybrid Mobile Application Development II	2146UISMD	*	*	*	*				*	*	*
	Advanced Java	2146UISAJ	*	*	*					*		*
	Multimedia Systems	2147UISMM	*	*	*	*			*	*		*
	Internet of Things	2147UISIT	*	*	*	*				*		*
	Principles of Marketing	2147UISPM	*		*	*			*	*		*
	Design Patterns Practical	2141UISPR	*	*	*	*		*		*		
	Design and Analysis of Algorithms Practical	2142UISPR	*	*	*	*	*	*		*	*	*
	System Programming Practical	2143UISPR	*	*	*	*				*		*
	Software Engineering Practical	2144UISPR	*	*	*	*	*			*		*
	Advanced Web Programming - II Practical	2146UISAWPR	*	*	*	*						*
	Hybrid Mobile Application Development II Practical	2146UISMDPR	*	*	*	*				*	*	*
	Advanced Java Practical	2146UISAJPR	*	*	*					*		*
	Multimedia Systems Practical	2147UISMSPR	*	*	*	*			*	*		*
	Internet of Things Practical	2147UISITPR	*	*	*	*				*		*
	Principles of Marketing Practical	2147UITPMR	*		*	*			*	*		*
V	Principles of Artificial Intelligence	2151UITPA	*	*	*	*				*	*	*
	Data Mining and Warehousing	2152UITDW	*	*	*	*				*	*	*
	Geographic Information Systems	2153UITGS	*	*	*	*	*	*		*	*	*
	Personal Effectiveness Management	2153UITPM	*	*	*	*			*	*	*	*
	Foundations of Software Testing	2154UITST	*	*	*	*				*	*	*
	Cloud Computing	2154UITCC	*	*	*	*				*	*	*
	.Net Technologies	2154UITNT	*	*	*	*				*	*	*
	Principles of Artificial Intelligence Practical	2151UITPR	*	*	*	*				*	*	*
	Data Mining and Warehousing	2152UITPR	*	*	*	*				*	*	*


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	Practical											
	Geographic Information Systems Practical	2153UITGSPR	*	*	*	*	*	*		*	*	*
	Personal Effectiveness Management Practical	2153UITPMR	*	*	*	*			*	*	*	*
	Foundations of Software Testing Practical	2154UITSTPR	*	*	*	*				*	*	*
	Cloud Computing Practical	2154UITCCPR	*	*	*	*				*	*	*
	.Net Technologies Practical	2154UITNTPR	*	*	*	*				*	*	*
	Project Implementation	2155UITPI	*	*	*	*	*	*	*	*	*	*
VI	Information Security Management	2161UITIM	*	*	*	*				*	*	*
	Business Intelligence	2162UITBI	*	*	*	*				*	*	*
	Remote Sensing	2163UITRS	*	*	*	*	*	*		*	*	*
	Event Marketing	2163UITEM	*	*	*	*			*	*	*	*
	Project Management	2164UITPM	*	*	*	*	*	*	*	*	*	*
	Cyber Laws and Introduction to Blockchain	2164UITCLB	*	*	*	*				*	*	*
	Information Security Management Practical	2161UITPR	*	*	*	*				*	*	*
	Business Intelligence Practical	2162UITPR	*	*	*	*				*	*	*
	Remote Sensing Practical	2163UITRSPR	*	*	*	*	*	*		*	*	*
	Event Marketing Practical	2163UITEMPR	*	*	*	*			*	*	*	*
	Project Management Practical	2164UITPMR	*	*	*	*	*	*	*	*	*	*
	Cyber Laws and Introduction to Blockchain Practical	2164UITLBPR	*	*	*	*				*	*	*
	Project Implementation	2165UITPI	*	*	*	*	*	*	*	*	*	*

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Table No. G.2: CO Attainment Level: Bachelor of Science- B. Sc. (Information Technology)
Academic Year - 2022-23

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Communication Skills	2111UISCS	2.4	2	Fully Attained	NA
	Web Programming I	2112UISWP	3.2	2	Fully Attained	NA
	Introduction to Programming	2113UISIP	3.2	2	Fully Attained	NA
	Fundamentals of Computers and Electronics	2114UISCE	2.2	2	Fully Attained	NA
	Operating Systems	2115UISOS	2.8	2	Fully Attained	NA
	Discrete Mathematics-I	2116UISDM	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Web Programming I Practical	2112UISWPP	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Introduction to Programming Practical	2113UISISP	3	2	Fully Attained	NA
	Fundamentals of Computers and Electronics Practical	2114UISCEP	2	2	Fully Attained	NA
	Operating Systems Practical	2115UISOSP	3	2	Fully Attained	NA
II	IT platforms, Tools and Practices	2121UISTP	3.6	2	Fully Attained	NA
	Web Programming II	2122UISWP	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Programming and Application Development in Python	2123UISDP	2.4	2	Fully Attained	NA
	Object Oriented Programming	2124UISOP	2.8	2	Fully Attained	NA
	Database Management Systems I	2125UISDM	2.8	2	Fully Attained	NA
	Discrete Mathematics II	2126UISDM	2.4	2	Fully Attained	NA
	Web Programming II	2122UIS	1	2	Not Fully	Assignments, tutorials,

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	Practical	WPP			Attained	exercises and remedial coaching shall be planned
	Programming and Application Development in Python Practical	2123UISD PP	2	2	Fully Attained	NA
	Object Oriented Programming Practical	2124UISO PP	2	2	Fully Attained	NA
	Database Management Systems I Practical	2125UISD BP	2	2	Fully Attained	NA
III	Core Java	2131UISC J	2.8	2	Fully Attained	NA
	Data Structures	2132UISD S	2.4	2	Fully Attained	NA
	Computer Networks	2133UISC N	4	2	Fully Attained	NA
	Database Management Systems- II	2134UISD B	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Descriptive Statistics	2135UISS T	3	2	Fully Attained	NA
	Advanced Web Programming – I	2136UISA W	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application Development I	2136UISM D	4	2	Fully Attained	NA
	Computer Graphics and Animation	2137UISC G	3	2	Fully Attained	NA
	Embedded Systems	2137UISE S	NA	NA	NA	NA
	Principles of Management	2137UISP M	NA	NA	NA	NA
	Core Java Practical	2131UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Data Structures Practical	2132UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Computer Networks Practical	2133UISP R	3	2	Fully Attained	NA
	Database Management Systems- II Practical	2134UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Web Programming - I Practical	2136UISA WPR	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application	2136UISM DPR	1	2	Not Fully	Assignments, tutorials,

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	Development I Practical				Attained	exercises and remedial coaching shall be planned
	Computer Graphics and Animation Practical	2137UISC GPR	3	2	Fully Attained	NA
	Embedded Systems Practical	2137UISE SPR	NA	NA	NA	NA
	Principles of Management Practical	2137UITP MPR	NA	NA	NA	NA
IV	Design Patterns	2141UISD P	2.8	2	Fully Attained	NA
	Design and Analysis of Algorithms	2142UISD A	2.4	2	Fully Attained	NA
	System Programming	2143UISS P	4.6	2	Fully Attained	NA
	Software Engineering	2144UISS E	4.2	2	Fully Attained	NA
	Probability Theory	2145UISP T	3	2	Fully Attained	NA
	Advanced Web Programming - II	2146UISA W	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application Development II	2146UISM D	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Java	2146UISA J	NA	NA	NA	NA
	Multimedia Systems	2147UISM M	2.8	2	Fully Attained	NA
	Internet of Things	2147UISI T	NA	NA	NA	NA
	Principles of Marketing	2147UISP M	NA	NA	NA	NA
	Design Patterns Practical	2141UISP R	3	2	Fully Attained	NA
	Design and Analysis of Algorithms Practical	2142UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	System Programming Practical	2143UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Software Engineering Practical	2144UISP R	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Web Programming - II Practical	2146UISA WPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application	2146UISM DPR	2	2	Fully Attained	NA

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	Development Practical II					
	Advanced Java Practical	2146UISA JPR	NA	NA	NA	NA
	Multimedia Systems Practical	2147UISM SPR	2	2	Fully Attained	NA
	Internet of Things Practical	2147UISI TPR	NA	NA	NA	NA
	Principles of Marketing Practical	2147UITP MPR	NA	NA	NA	NA
V	Principles of Artificial Intelligence	2151UITP A	2.4	2	Fully Attained	NA
	Data Mining and Warehousing	2152UITD W	2.4	2	Fully Attained	NA
	Geographic Information Systems	2153UITG S	3	2	Fully Attained	NA
	Personal Effectiveness Management	2153UITP M	NA	NA	NA	NA
	Foundations of Software Testing	2154UIT S T	NA	NA	NA	NA
	Cloud Computing	2154UITC C	2.8	2	Fully Attained	NA
	.Net Technologies	2154UITN T	NA	NA	NA	NA
	Principles of Artificial Intelligence Practical	2151UITP R	2	2	Fully Attained	NA
	Data Mining and Warehousing Practical	2152UITP R	4	2	Fully Attained	NA
	Geographic Information Systems Practical	2153UITG SPR	4	2	Fully Attained	NA
	Personal Effectiveness Management Practical	2153UITP MPR	NA	NA	NA	NA
	Foundations of Software Testing Practical	2154UIT S TPR	NA	NA	NA	NA
	Cloud Computing Practical	2154UITC CPR	3	2	Fully Attained	NA
	.Net Technologies Practical	2154UITN TPR	NA	NA	NA	NA
	Project Implementation	2155UITP I	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Information Security Management	2161UITI M	2.8	2	Fully Attained	NA
	Business Intelligence	2162UITB I	2.4	2	Fully	NA

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VI					Attained	
	Remote Sensing	2163UITR S	2.4	2	Fully Attained	NA
	Event Marketing	2163UITEM	NA	NA	NA	NA
	Project Management	2164UITPM	5	2	Fully Attained	NA
	Cyber Laws and Introduction to Blockchain	2164UITCLB	NA	NA	NA	NA
	Information Security Management Practical	2161UITPR	3	2	Fully Attained	NA
	Business Intelligence Practical	2162UITPR	2	2	Fully Attained	NA
	Remote Sensing Practical	2163UITRSPR	3	2	Fully Attained	NA
	Event Marketing Practical	2163UITEMPR	NA	NA	NA	NA
	Project Management Practical	2164UITPMPR	3	2	Fully Attained	NA
	Cyber Laws and Introduction to Blockchain Practical	2164UITLBPR	NA	NA	NA	NA
	Project Implementation	2165UITPI	2	2	Fully Attained	NA
		AVERAGE	2.42			

Table No. G.2a: PO Attainment Level- B. Sc. (Information Technology)-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	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 levels are greater than or equal to target level-4. Hence at present no plans are required.


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**Table No. G.3: Results of CO-PO attainment-
B. Sc. (Information Technology)-B. Sc.(IT)-Academic Year 2021-22**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
I	Communication Skills	2111UISCS	2.4			2.4			2.4	2.4	2.4	2.4
	Web Programming I	2112UISWP	3.2		3.2	3.2	3.2		3.2	3.2		3.2
	Introduction to Programming	2113UISIP	3.2	3.2		3.2	3.2	3.2			3.2	3.2
	Fundamentals of Computers and Electronics	2114UISCE	2.2	2.2	2.2	2.2		2.2				
	Operating Systems	2115UISOS	2.8	2.8	2.8	2.8			2.8	2.8		2.8
	Discrete Mathematics-I	2116UISDM	1.8	1.8				1.8				
	Web Programming I Practical	2112UISWPP	1		1	1	1		1	1		1
	Introduction to Programming Practical	2113UISISP	3	3		3	3	3			3	3
	Fundamentals of Computers and Electronics Practical	2114UISCEP	2	2	2	2		2				
	Operating Systems Practical	2115UISOSP	3	3	3	3			3	3		3
II	IT platforms, Tools and Practices	2121UISTP	3.6	3.6		3.6	3.6		3.6	3.6	3.6	3.6
	Web Programming II	2122UISWP	1.8				1.8			1.8	1.8	1.8
	Programming and Application Development in Python	2123UISDP	2.4	2.4	2.4		2.4		2.4	2.4		2.4
	Object Oriented Programming	2124UISOP	2.8	2.8		2.8			2.8	2.8	2.8	2.8
	Database Management Systems I	2125UISDM	2.8		2.8	2.8			2.8	2.8		2.8
	Discrete Mathematics II	2126UISDM	2.4	2.4				2.4		2.4		
	Web Programming II Practical	2122UISWPP	1				1			1	1	1
	Programming and Application Development in Python Practical	2123UISDPP	2	2	2		2		2	2		2
	Object Oriented Programming Practical	2124UISOPP	2	2		2			2	2	2	2
	Database Management Systems I Practical	2125UISDBP	2		2	2			2	2		2
III	Core Java	2131UISCJ	2.8	2.8	2.8					2.8	2.8	2.8


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	Data Structures	2132UISDS	2.4	2.4	2.4		2.4			2.4		2.4
	Computer Networks	2133UISCN	4	4	4				4	4		4
	Database Management Systems- II	2134UISDB	1.8	1.8	1.8					1.8	1.8	1.8
	Descriptive Statistics	2135UISST	3	3	3	3	3	3				
	Advanced Web Programming – I	2136UISAW	1.8	1.8	1.8					1.8		1.8
	Hybrid Mobile Application Development I	2136UISMD	4	4	4	4				4	4	4
	Computer Graphics and Animation	2137UISCG	3	3	3	3	3	3		3		3
	Core Java Practical	2131UISPR	1	1	1					1	1	1
	Data Structures Practical	2132UISPR	1	1	1		1			1		1
	Computer Networks Practical	2133UISPR	3	3	3				3	3		3
	Database Management Systems- II Practical	2134UISPR	1	1	1					1	1	1
	Advanced Web Programming - I Practical	2136UISAWPR	0	0	0					0		0
	Hybrid Mobile Application Development I Practical	2136UISMDPR	1	1	1	1				1		1
	Computer Graphics and Animation Practical	2137UISCGPR	3	3	3	3	3	3		3		3
IV	Design Patterns	2141UISDP	2.8	2.8	2.8	2.8		2.8		2.8		
	Design and Analysis of Algorithms	2142UISDA	2.4	2.4	2.4	2.4	2.4	2.4		2.4	2.4	2.4
	System Programming	2143UISSP	4.6	4.6	4.6	4.6				4.6		4.6
	Software Engineering	2144UISSE	4.2	4.2	4.2	4.2	4.2			4.2		4.2
	Probability Theory	2145UISPT	3	3	3	3	3	3		3		3
	Advanced Web Programming – II	2146UISAW	1.8	1.8	1.8	1.8						1.8
	Hybrid Mobile Application Development II	2146UISMD	1.8	1.8	1.8	1.8				1.8	1.8	1.8
	Multimedia Systems	2147UISMM	2.8	2.8	2.8	2.8			2.8	2.8		2.8
	Design Patterns Practical	2141UISPR	3	3	3	3		3		3		
	Design and Analysis of Algorithms Practical	2142UISPR	1	1	1	1	1	1		1	1	1

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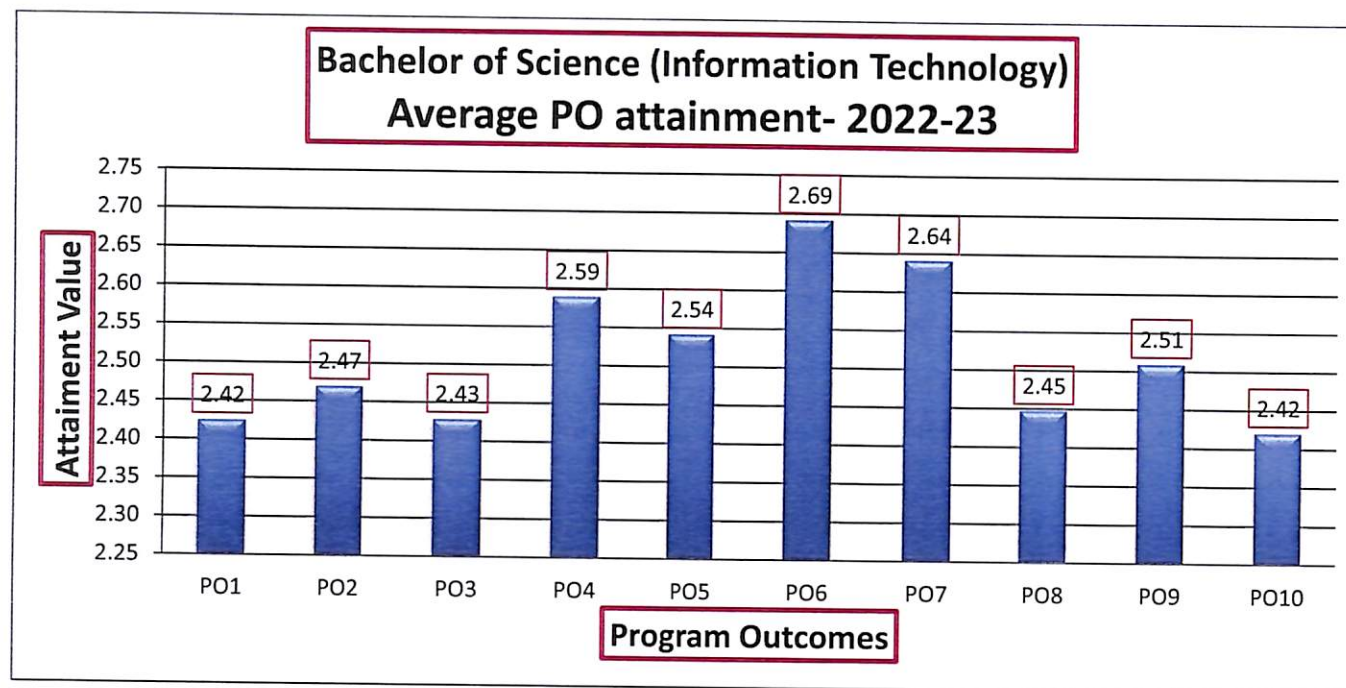
	System Programming Practical	2143UISPR	1	1	1	1				1		1
	Software Engineering Practical	2144UISPR	1	1	1	1	1			1		1
	Advanced Web Programming - II Practical	2146UISAWPR	1	1	1	1						1
	Hybrid Mobile Application Development II Practical	2146UISMDPR	2	2	2	2				2	2	2
	Multimedia Systems Practical	2147UISMSPR	2	2	2	2			2	2		2
V	Principles of Artificial Intelligence	2151UITPA	2.4	2.4	2.4	2.4				2.4	2.4	2.4
	Data Mining and Warehousing	2152UITDW	2.4	2.4	2.4	2.4				2.4	2.4	2.4
	Geographic Information Systems	2153UITGS	3	3	3	3	3	3		3	3	3
	Cloud Computing	2154UITCC	2.8	2.8	2.8	2.8				2.8	2.8	2.8
	Principles of Artificial Intelligence Practical	2151UITPR	2	2	2	2				2	2	2
	Data Mining and Warehousing Practical	2152UITPR	4	4	4	4				4	4	4
	Geographic Information Systems Practical	2153UITGSPR	4	4	4	4	4	4		4	4	4
	Cloud Computing Practical	2154UITCCPR	3	3	3	3				3	3	3
	Project Implementation	2155UITPI	1	1	1	1	1	1	1	1	1	1
VI	Information Security Management	2161UITIM	2.8	2.8	2.8	2.8				2.8	2.8	2.8
	Business Intelligence	2162UITBI	2.4	2.4	2.4	2.4				2.4	2.4	2.4
	Remote Sensing	2163UITRS	2.4	2.4	2.4	2.4	2.4	2.4		2.4	2.4	2.4
	Project Management	2164UITPM	5	5	5	5	5	5	5	5	5	5
	Information Security Management Practical	2161UITPR	3	3	3	3				3	3	3
	Business Intelligence Practical	2162UITPR	2	2	2	2				2	2	2
	Remote Sensing Practical	2163UITRSPR	3	3	3	3	3	3		3	3	3
	Project Management Practical	2164UITPMPR	3	3	3	3	3	3	3	3	3	3
	Project Implementation	2165UITPI	2	2	2	2	2	2	2	2	2	2
		AVERAGE	2.42	2.47	2.43	2.59	2.54	2.69	2.64	2.45	2.51	2.42

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

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ANNEXTURE H

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

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

Bachelor of Science (Computer Science) - B. Sc. CS): Academic Year –2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Sem 1	Communication Skills	2111UISCS	*			*			*	*	*	*
	Web Programming I	2112UISWP	*		*	*	*		*	*		*
	Introduction to Programming	2113UISIP	*	*		*	*	*			*	*
	Fundamentals of Computers and Electronics	2114UISCE	*	*	*	*		*				
	Operating Systems	2115UISOS	*	*	*	*			*	*		*
	Discrete Mathematics-I	2116UISDM	*	*				*				
	Web Programming I Practical	2112UISWPP	*	*	*	*	*	*			*	*
	Introduction to Programming Practical	2113UISISP	*	*	*	*	*	*			*	*
	Fundamentals of Computers and Electronics Practical	2114UISCEP	*	*	*	*		*	*	*		*
	Operating Systems Practical	2115UISOSP	*	*	*	*	*	*			*	*
Sem 2	IT platforms, Tools and Practices	2121UISTP	*	*		*	*		*	*	*	*
	Web Programming II	2122UISWP	*				*			*	*	*
	Programming and Application Development in Python	2123UISDP	*	*	*		*		*	*		*
	Object Oriented Programming	2124UISOP	*	*		*			*	*	*	*
	Database Management Systems I	2125UISDM	*		*	*			*	*		*
	Discrete Mathematics II	2126UISDM	*	*				*		*		
	Web Programming II Practical	2122UISWPP	*	*	*	*	*			*	*	*
	Programming and Application Development in Python Practical	2123UISDPP	*	*	*	*	*	*		*	*	*
	Object Oriented Programming Practical	2124UISOPP	*	*	*	*	*			*	*	*
	Database Management Systems I Practical	2125UISDBP	*	*	*		*			*	*	*
Sem 3	Core Java	2131UISCJ	*	*	*					*	*	*
	Data Structures	2132UISDS	*	*	*		*			*		*
	Computer Networks	2133UISCN	*	*	*				*	*		*
	Database Management Systems- II	2134UISDB	*	*	*					*	*	*
	Descriptive Statistics	2135UISST	*	*	*	*	*	*				
	Advanced Web Programming - I	2136UISAW	*	*	*					*		*
	Hybrid Mobile Application Development I	2136UISMD	*	*	*	*				*	*	*

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Sem 4	Computer Graphics and Animation	2137UISC	*	*	*	*	*	*		*		*
	Embedded Systems	2137UISES	*	*	*					*		*
	Theory of Computation I	2137UCSTC	*			*			*	*	*	*
	Core Java Practical	2131UISPR	*	*	*					*	*	*
	Data Structures Practical	2132UISPR	*	*	*		*			*		*
	Computer Networks Practical	2133UISPR	*	*	*				*	*		*
	Database Management Systems- II Practical	2134UISPR	*	*	*					*	*	*
	Advanced Web Programming - I Practical	2136UISAWP R	*	*	*					*		*
	Hybrid Mobile Application Development I Practical	2136UISMDP R	*	*	*	*				*		*
	Computer Graphics and Animation Practical	2137UISCGR	*	*	*	*	*	*		*		*
	Embedded Systems Practical	2137UISESPR	*	*	*					*		*
	Theory of Computation I	2137UCSTCPR				*			*	*	*	*
	Design Patterns	2141UISDP	*	*	*	*		*		*		
	Design and Analysis of Algorithms	2142UISDA	*	*	*	*	*	*		*	*	*
	System Programming	2143UISSP	*	*	*	*				*		*
	Software Engineering	2144UISSE	*	*	*	*	*			*		*
	Probability Theory	2145UISPT	*	*	*	*	*	*		*		*
	Advanced Web Programming - II	2146UISAW	*	*	*	*						*
	Hybrid Mobile Application Development II	2146UISMD	*	*	*	*				*	*	*
	Advanced Java	2146UISAJ	*	*	*					*		*
	Multimedia Systems	2147UISMM	*	*	*	*			*	*		*
	Internet of Things	2147UISIT	*	*	*	*				*		*
	Theory of Computation II	2147UCSTC	*		*	*			*	*		*
	Design Patterns Practical	2141UISPR	*	*	*	*		*		*		
	Design and Analysis of Algorithms Practical	2142UISPR	*	*	*	*	*	*		*	*	*
	System Programming Practical	2143UISPR	*	*	*	*				*		*
	Software Engineering Practical	2144UISPR	*	*	*	*	*			*		*
	Advanced Web Programming - II Practical	2146UISAWP R	*	*	*	*						*
	Hybrid Mobile Application Development II Practical	2146UISMDP R	*	*	*	*				*	*	*
	Advanced Java Practical	2146UISAJPR	*	*	*					*		*

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	Multimedia Systems Practical	2147UISMSP R	*	*	*	*			*	*		*
	Internet of Things Practical	2147UISITPR	*	*	*	*				*		*
	Theory of Computation II Practical	2147UCSTCP R	*		*	*			*	*		*
Sem 5	Data and Network Security	2151UCSDN	*	*	*	*				*	*	*
	Optimization Techniques	2152UCSOT	*	*	*	*	*	*		*	*	*
	Web Services	2153UCSWS	*	*	*	*				*	*	*
	Ethical Hacking	2153UCSEH	*	*	*	*	*	*	*	*	*	*
	Introduction to Big Data Analytics	2153UCSBD	*	*	*	*				*	*	*
	Wireless Sensor Networks	2154UCSWN	*	*	*	*				*	*	*
	Game Programming	2154UCSGP	*	*	*	*	*	*		*	*	*
	Web Technologies	2154UCSWT	*	*	*	*				*	*	*
	Data and Network Security Practical	2151UCSPR	*	*	*	*				*	*	*
	Optimization Techniques Practical	2152UCSPR	*	*	*	*	*	*		*	*	*
	Web Services Practical	2153UCSWSP R	*	*	*	*				*	*	*
	Ethical Hacking Practical	2153UCSEHP R	*	*	*	*	*	*	*	*	*	*
	Introduction to Big Data Analytics Practical	2153UCSBDP R	*	*	*	*				*	*	*
	Wireless Sensor Networks Practical	2154UCSWN PR	*	*	*	*				*	*	*
	Game Programming Practical	2154UCSGPP R	*	*	*	*	*	*		*	*	*
	Web Technologies Practical	2154UCSWTP R	*	*	*	*				*	*	*
	Project Implementation	2155UCSPI	*	*	*	*	*	*	*	*	*	*
	Building blocks of Artificial Intelligence	2161UCSBA	*	*	*	*				*	*	*
	Data Science	2162UCSDC	*	*	*	*	*	*		*	*	*
	Cloud Computing	2163UCSCC	*	*	*	*				*	*	*
	Cyber Forensics	2163UCSCF	*	*	*	*	*	*	*	*	*	*
	Mobile and Pervasive Computing	2164UCSMP	*	*	*	*	*	*		*	*	*
	Digital Image Processing	2164UCSDI	*	*	*	*	*	*		*	*	*
	Building blocks of Artificial Intelligence Practical	2161UCSPR	*	*	*	*				*	*	*
	Data Science Practical	2162UCSPR	*	*	*	*	*	*		*	*	*
	Cloud Computing Practical	2163UCSCCP	*	*	*	*				*	*	*

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Sem 6		R										
	Cyber Forensics Practical	2163UCSCFP R	*	*	*	*			*	*	*	*
	Mobile and Pervasive Computing Practical	2164UCSMPP R	*	*	*	*	*	*		*	*	*
	Digital Image Processing Practical	2164UCSDIP R	*	*	*	*	*	*		*	*	*
	Project Implementation	2165UCSPI	*	*	*	*	*	*	*	*	*	*

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Table No. H.2: CO Attainment Level: Bachelor of Science- B. Sc. (Computer Science)
Academic Year - 2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Communication Skills	2111UISCS	2.8	2	Fully Attained	NA
	Web Programming I	2112UISWP	2.6	2	Fully Attained	NA
	Introduction to Programming	2113UISIP	3.2	2	Fully Attained	NA
	Fundamentals of Computers and Electronics	2114UISCE	2.6	2	Fully Attained	NA
	Operating Systems	2115UISOS	2.8	2	Fully Attained	NA
	Discrete Mathematics-I	2116UISDM	2.8	2	Fully Attained	NA
	Web Programming I Practical	2112UISWPP	2	2	Fully Attained	NA
	Introduction to Programming Practical	2113UISISP	3	2	Fully Attained	NA
	Fundamentals of Computers and Electronics Practical	2114UISCEP	2	2	Fully Attained	NA
	Operating Systems Practical	2115UISOSP	3	2	Fully Attained	NA
2	IT platforms, Tools and Practices	2121UISTP	2	2	Fully Attained	NA
	Web Programming II	2122UISWP	3	2	Fully Attained	NA
	Programming and Application Development in Python	2123UISDP	3.4	2	Fully Attained	NA
	Object Oriented Programming	2124UISOP	3	2	Fully Attained	NA
	Database Management Systems I	2125UISDM	5	2	Fully Attained	NA
	Discrete Mathematics II	2126UISDM	2.4	2	Fully Attained	NA
	Web Programming II Practical	2122UISWPP	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Programming and Application Development in	2123UISDPP	3	2	Fully Attained	NA

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	Python Practical					
	Object Oriented Programming Practical	2124UISOPP	3	2	Fully Attained	NA
	Database Management Systems I Practical	2125UISDBP	3	2	Fully Attained	NA
3	Core Java	2131UISCJ	2.8	2	Fully Attained	NA
	Data Structures	2132UISDS	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Computer Networks	2133UISCN	4	2	Fully Attained	NA
	Database Management Systems- II	2134UISDB	2.4	2	Fully Attained	NA
	Descriptive Statistics	2135UISST	3	2	Fully Attained	NA
	Advanced Web Programming – I	2136UISAW	3.8	2	Fully Attained	NA
	Hybrid Mobile Application Development I	2136UISMD	2.4	2	Fully Attained	NA
	Computer Graphics and Animation	2137UISCG	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Embedded Systems	2137UISES	NA	NA	NA	NA
	Theory of Computation I	2137UCSTC	NA	NA	NA	NA
	Core Java Practical	2131UISPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Data Structures Practical	2132UISPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Computer Networks Practical	2133UISPR	3	2	Fully Attained	NA
	Database Management Systems- II Practical	2134UISPR	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Web Programming - I Practical	2136UISAWPR	3	2	Fully Attained	NA
	Hybrid Mobile Application Development I Practical	2136UISMDPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Computer Graphics and Animation Practical	2137UISCGPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned

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	Embedded Systems Practical	2137UISESPR	NA	NA	NA	NA
	Theory of Computation I	2137UCSTCPR	NA	NA	NA	NA
4	Design Patterns	2141UISDP	2.8	2	Fully Attained	NA
	Design and Analysis of Algorithms	2142UISDA	2.4	2	Fully Attained	NA
	System Programming	2143UISSP	2.6	2	Fully Attained	NA
	Software Engineering	2144UISSE	4.2	2	Fully Attained	NA
	Probability Theory	2145UISPT	4.2	2	Fully Attained	NA
	Advanced Web Programming - II	2146UISAW	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application Development II	2146UISMD	2	2	Fully Attained	NA
	Advanced Java	2146UISAJ	NA	NA	NA	NA
	Multimedia Systems	2147UISMM	2.8	2	Fully Attained	NA
	Internet of Things	2147UISIT	NA	NA	NA	NA
	Theory of Computation II	2147UCSTC	NA	NA	NA	NA
	Design Patterns Practical	2141UISPR	2	2	Fully Attained	NA
	Design and Analysis of Algorithms Practical	2142UISPR	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	System Programming Practical	2143UISPR	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Software Engineering Practical	2144UISPR	2	2	Fully Attained	NA
	Advanced Web Programming - II Practical	2146UISAWPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Hybrid Mobile Application Development II Practical	2146UISMDPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Java Practical	2146UISAJPR	NA	NA	NA	NA
	Multimedia Systems Practical	2147UISMSPR	2	2	Fully Attained	NA
	Internet of Things Practical	2147UISITPR	NA	NA	NA	NA

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	Theory of Computation II Practical	2147UCSTCPR	NA	NA	NA	NA
5	Data and Network Security	2151UCSDN	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Optimization Techniques	2152UCSOT	2	2	Fully Attained	NA
	Web Services	2153UCSWS	3.6	2	Fully Attained	NA
	Ethical Hacking	2153UCSEH	5	2	Fully Attained	NA
	Introduction to Big Data Analytics	2153UCSBD	NA	NA	NA	NA
	Wireless Sensor Networks	2154UCSWN	NA	NA	NA	NA
	Game Programming	2154UCSGP	2.4	2	Fully Attained	NA
	Web Technologies	2154UCSWT	NA	NA	NA	NA
	Data and Network Security Practical	2151UCSPR	2	2	Fully Attained	NA
	Optimization Techniques Practical	2152UCSPR	2	2	Fully Attained	NA
	Web Services Practical	2153UCSWSPR	2	2	Fully Attained	NA
	Ethical Hacking Practical	2153UCSEHPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Introduction to Big Data Analytics Practical	2153UCSBDPR	NA	NA	NA	NA
	Wireless Sensor Networks Practical	2154UCSWNPR	NA	NA	NA	NA
	Game Programming Practical	2154UCSGPPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Web Technologies Practical	2154UCSWTPR	NA	NA	NA	NA
	Project Implementation	2155UCSPI	3	2	Fully Attained	NA
6	Building blocks of Artificial Intelligence	2161UCSBA	2.8	2	Fully Attained	NA
	Data Science	2162UCSDC	2	2	Fully Attained	NA
	Cloud Computing	2163UCSCC	NA	NA	NA	NA
	Cyber Forensics	2163UCSCF	2.8	2	Fully Attained	NA
	Mobile and Pervasive Computing	2164UCSMP	NA	NA	NA	NA


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Digital Image Processing	2164UCSDI	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
Building blocks of Artificial Intelligence Practical	2161UCSPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
Data Science Practical	2162UCSPR	3	2	Fully Attained	NA
Cloud Computing Practical	2163UCSCCPR	NA	NA	NA	NA
Cyber Forensics Practical	2163UCSCFPR	4	2	Fully Attained	NA
Mobile and Pervasive Computing Practical	2164UCSMPPR	NA	NA	NA	NA
Digital Image Processing Practical	2164UCSDIPR	3	2	Fully Attained	NA
Project Implementation	2165UCSPI	2	2	Fully Attained	NA
	AVERAGE	2.36			

Table No.H.2a: PO Attainment Level- B. Sc. (Computer Science)-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	4	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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 levels are greater than or equal to target level-4. Hence at present no plans are required.


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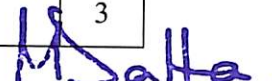
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**Table No. H.3: Results of CO-PO attainment-
Bachelor of Science (Computer Science)-B. Sc.(CS)
Academic Year 2022-23**

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
I	COMMUNICATION SKILLS	2111UISCS	2			2			2	2	2	2
	WEB PROGRAMMING I	2112UISWP	2.6		2.6	2.6	2.6		2.6	2.6		2.6
	INTRODUCTION TO PROGRAMMING	2113UISIS	2	2		2	2	2			2	2
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS	2114UISCE	2.6	2.6	2.6	2.6		2.6				
	OPERATING SYSTEMS	2115UISOS	2.8	2.8	2.8	2.8			2.8	2.8		2.8
	DISCRETE MATHEMATICS-I	2116UISDM	2	2				2				
	WEB PROGRAMMING I PRACTICAL	2112UISWPP	4	4	4	4	4	4			4	4
	INTRODUCTION TO PROGRAMMING PRACTICAL	2113UISISP	2	2	2	2	2	2			2	2
	FUNDAMENTALS OF COMPUTERS AND ELECTRONICS PRACTICAL	2114UISCEP	2	2	2	2		2	2	2		2
	OPERATING SYSTEMS PRACTICAL	2115UISOSP	2	2	2	2	2	2			2	2
II	IT PLATFORMS, TOOLS AND PRACTICES	2121UISTP	3.4	3.4		3.4	3.4		3.4	3.4	3.4	3.4
	WEB PROGRAMMING II	2122UISWP	2				2			2	2	2
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON	2123UISDP	2.4	2.4	2.4		2.4		2.4	2.4		2.4
	OBJECT ORIENTED PROGRAMMING	2124UISOP	3	3		3			3	3	3	3
	DATABASE MANAGEMENT SYSTEMS I	2125UISDB	2.8		2.8	2.8			2.8	2.8		2.8
	DISCRETE MATHEMATICS II	2126UISDM	2.8	2.8				2.8		2.8		


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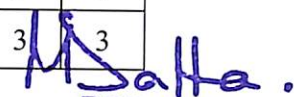
	WEB PROGRAMMING II PRACTICAL	2122UISWPP	2	2	2	2	2			2	2	2
	PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON PRACTICAL	2123UISDPP	3	3	3	3	3	3		3	3	3
	OBJECT ORIENTED PROGRAMMING PRACTICAL	2124UISOPP	4	4	4	4	4			4	4	4
	DATABASE MANAGEMENT SYSTEMS I PRACTICAL	2125UISDBP	4	4	4		4			4	4	4
III	CORE JAVA	2131UISCJ	2.4	2.4	2.4					2.4	2.4	2.4
	DATA STRUCTURES	2132UISDS	2.8	2.8	2.8		2.8			2.8		2.8
	COMPUTER NETWORKS	2133UISCN	2.8	2.8	2.8				2.8	2.8		2.8
	DATABASE MANAGEMENT SYSTEMS- II	2134UISDB	2.8	2.8	2.8					2.8	2.8	2.8
	DESCRIPTIVE STATISTICS	2135UISST	2.6	2.6	2.6	2.6	2.6	2.6				
	ADVANCED WEB PROGRAMMING - I	2136UISAW	2.8	2.8	2.8					2.8		2.8
	HYBRID MOBILE APPLICATION DEVELOPMENT I	2136UISMD	2.6	2.6	2.6	2.6				2.6	2.6	2.6
	COMPUTER GRAPHICS AND ANIMATION	2137UISCG	3	3	3	3	3	3		3		3
	EMBEDDED SYSTEMS	2137UISES	2.4	2.4	2.4					2.4		2.4
	CORE JAVA PRACTICAL	2131UISPR	4	4	4					4	4	4
	DATA STRUCTURES PRACTICAL	2132UISPR	4	4	4		4			4		4
	COMPUTER NETWORKS PRACTICAL	2133UISPR	3	3	3				3	3		3
	DATABASE MANAGEMENT SYSTEMS- II PRACTICAL	2134UISPR	3	3	3					3	3	3
	ADVANCED WEB PROGRAMMING - I PRACTICAL	2136UISAWPR	3	3	3					3		3


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	HYBRID MOBILE APPLICATION DEVELOPMENT I PRACTICAL	2136UISMDPR	4	4	4	4				4		4
	COMPUTER GRAPHICS AND ANIMATION PRACTICAL	2137UISCGRP	4	4	4	4	4	4		4		4
	EMBEDDED SYSTEMS PRACTICAL	2137UISESPR	3	3	3					3		3
IV	DESIGN PATTERNS	2141UISDP	2.4	2.4	2.4	2.4		2.4		2.4		
	DESIGN AND ANALYSIS OF ALGORITHMS	2142UISDA	3	3	3	3	3	3		3	3	3
	SYSTEM PROGRAMMING	2143UISSP	3	3	3	3				3		3
	SOFTWARE ENGINEERING	2144UISSE	2.4	2.4	2.4	2.4	2.4			2.4		2.4
	PROBABILITY THEORY	2145UISPT	3	3	3	3	3	3		3		3
	ADVANCED WEB PROGRAMMING - II	2146UISAW	2.6	2.6	2.6	2.6						2.6
	HYBRID MOBILE APPLICATION DEVELOPMENT II	2146UISMD	3.8	3.8	3.8	3.8				3.8	3.8	3.8
	MULTIMEDIA SYSTEMS	2147UISMM	3	3	3	3			3	3		3
	INTERNET OF THINGS	2147UISIT	3	3	3	3				3		3
	DESIGN PATTERNS PRACTICAL	2141UISPR	3	3	3	3		3		3		
	DESIGN AND ANALYSIS OF ALGORITHMS PRACTICAL	2142UISPR	4	4	4	4	4	4		4	4	4
	SYSTEM PROGRAMMING PRACTICAL	2143UISPR	3	3	3	3				3		3
	SOFTWARE ENGINEERING PRACTICAL	2144UISPR	3	3	3	3	3			3		3
	ADVANCED WEB PROGRAMMING - II PRACTICAL	2146UISAWPR	5	5	5	5						5
	HYBRID MOBILE APPLICATION DEVELOPMENT II PRACTICAL	2146UISMDPR	4	4	4	4				4	4	4

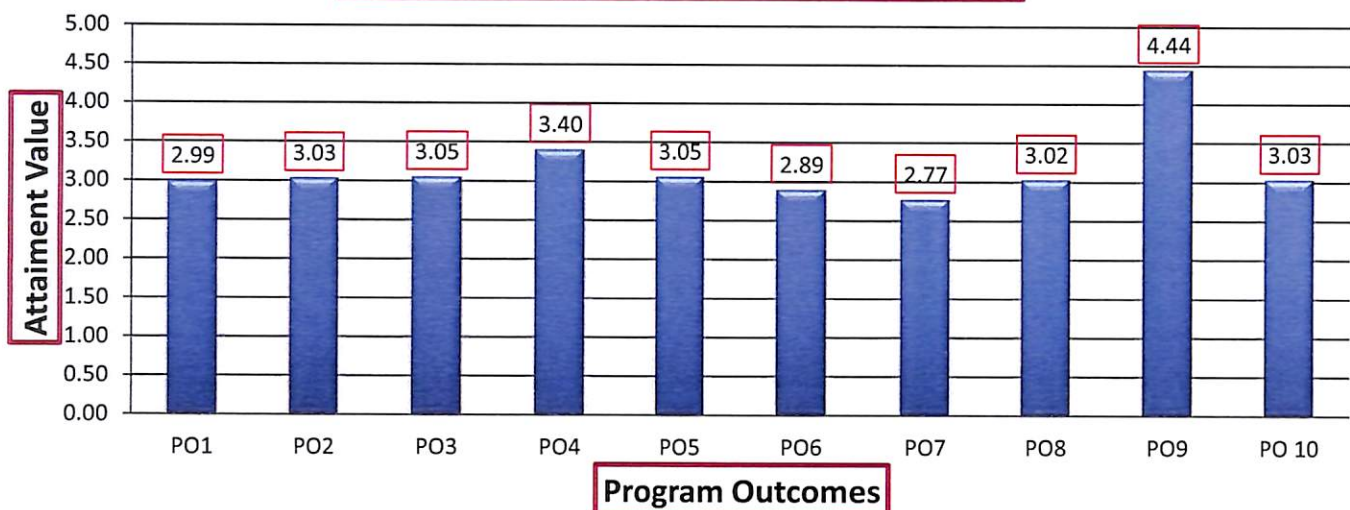
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	MULTIMEDIA SYSTEMS PRACTICAL	2147UISMSPR	3	3	3	3			3	3		3
	INTERNET OF THINGS PRACTICAL	2147UISITPR	4	4	4	4				4		4
V	DATA AND NETWORK SECURITY	2151UCSDN	2.5	2.5	2.5	2.5				2.5	2.5	2.5
	OPTIMIZATION TECHNIQUES	2152UCSOT	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5		3.2 5	3.2 5	3.25
	WEB SERVICES	2153UCSWS	2.5	2.5	2.5	2.5				2.5	2.5	2.5
	ETHICAL HACKING	2153UCSEH	3	3	3	3	3		3	3	3	3
	WIRELESS SENSOR NETWORKS	2154UCSWN	2.5	2.5	2.5	2.5				2.5	2.5	2.5
	GAME PROGRAMMING	2154UCSGP	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5	3.2 5		3.2 5	3.2 5	3.25
	DATA AND NETWORK SECURITY PRACTICAL	2151UCSPR	4	4	4	4				4	4	4
	OPTIMIZATION TECHNIQUES PRACTICAL	2152UCSPR	4	4	4	4	4	4		4	4	4
	WEB SERVICES PRACTICAL	2153UCSWSPR	3	3	3	3				3	3	3
	ETHICAL HACKING PRACTICAL	2153UCSEHPR	4	4	4	4	4		4	4	4	4
	WIRELESS SENSOR NETWORKS PRACTICAL	2154UCSWNPR	3	3	3	3				3	3	3
	GAME PROGRAMMING PRACTICAL	2154UCSGPPR	4	4	4	4	4	4		4	4	4
	PROJECT IMPLEMENTATION	2155UCSPI	2	2	2	2	2	2	2	2	2	2
VI	BUILDING BLOCKS OF ARTIFICIAL INTELLIGENCE	2161UCSBA	2.2 5	2.2 5	2.2 5	2.2 5				2.2 5	2.2 5	2.25
	DATA SCIENCE	2162UCSDC	3	3	3	3	3	3		3	3	3
	CYBER FORENSICS	2163UCSCF	3	3	3	3	3	3	3	3	3	3
	DIGITAL IMAGE PROCESSING	2164UCSDI	3	3	3	3	3	3		3	3	3


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BUILDING BLOCKS OF ARTIFICIAL INTELLIGENCE PRACTICAL	2161UCSPR	3	3	3	3				3	3	3
DATA SCIENCE PRACTICAL	2162UCSPR	3	3	3	3	3	3		3	3	3
CYBER FORENSICS PRACTICAL	2163UCSCFPR	3	3	3	3			3	3	3	3
DIGITAL IMAGE PROCESSING PRACTICAL	2164UCSDIPR	3	3	3	3	3	3		3	3	3
PROJECT IMPLEMENTATION	2165UCSPI	2	2	2	2	2	2	2	2	2	2
		2.9	3.0	3.0	3.4	3.0	2.8	2.7	3.0	4.4	3.03
		9	3	5	0	5	9	7	2	4	

Bachelor of Science (Computer Science)
Average PO attainment - 2022-23



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 excellent level (value greater than 2.5).

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ALL POST GRADUATE COURSES

ANNEXTURE I

Master of Commerce (Accountancy)-MCOM (Accountancy)

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

Academic Year-2022-23

Semester	Course	Course Code	PROGRAMME OUTCOME					PROGRAMME OUTCOME (ACCOUNTANCY)				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
I	STRATEGIC MANAGEMENT	2211PCMSM	*		*	*	*					
	MICROECONOMICS	2212PCMEB	*			*						
	COST AND MANAGEMENT ACCOUNTING	2213PCMCA	*			*				*		
	BUSINESS ETHICS AND CSR	2214PCMBE	*			*						
	SOFT SKILLS For PROFESSIONALS	2215PGESS		*	*		*					
II	RESEARCH METHODOLOGY	2221PCMRM	*	*	*		*					
	MACROECONOMICS	2222PCMME	*			*						
	CORPORATE FINANCE	2223PCMCF	*	*	*		*				*	*
	E COMMERCE	2223PCMRM	*	*			*					
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	*	*	*	*	*					
III	ADVANCED FINANCIAL ACCOUNTING	2331PCMFA	*	*		*			*		*	
	DIRECT TAX	2332PCMDT	*	*			*	*				
	ADVANCED COST ACCOUNTING	2333PCMCA	*			*				*		
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	*	*		*	*					
IV	CORPORATE FINANCIAL ACCOUNTING	2341PCMCF	*						*		*	
	INDIRECT TAX	2342PCMGT	*	*			*	*				
	IFRS	2343PCMFR	*	*							*	
	RESEARCH BASED PROJECT	2344PCMRP	*	*	*	*	*					

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**Table No. I.2: CO Attainment Level: Master of Commerce (Accountancy)-
MCOM (Accountancy)-Academic Year-2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	2211PCMSM	3.2	2	Fully Attained	NA
	MICROECONOMICS	2212PCMEB	3	2	Fully Attained	NA
	COST AND MANAGEMENT ACCOUNTING	2213PCMCA	2	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	2214PCMBE	2.4	2	Fully Attained	NA
	SOFT SKILLS For PROFESSIONALS	2215PGEISS	4.6	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	2221PCMRM	2.6	2	Fully Attained	NA
	MACROECONOMICS	2222PCMME	3.6	2	Fully Attained	NA
	CORPORATE FINANCE	2223PCMCF	3.2	2	Fully Attained	NA
	E COMMERCE	2223PCMRM	4.2	2	Fully Attained	NA
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	4	2	Fully Attained	NA
III	ADVANCED FINANCIAL ACCOUNTING	2331PCMFA	2.4	2	Fully Attained	NA
	DIRECT TAX	2332PCMDT	2.8	2	Fully Attained	NA
	ADVANCED COST ACCOUNTING	2333PCMCA	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	4	2	Fully Attained	NA
IV	CORPORATE FINANCIAL ACCOUNTING	2341PCMCF	3	2	Fully Attained	NA
	INDIRECT TAX	2342PCMGT	2.8	2	Fully Attained	NA
	IFRS	2343PCMFR	4	2	Fully Attained	NA
	RESEARCH BASED PROJECT	2344PCMRP	4	2	Fully Attained	NA
		Average	3.20			
NA: Not Applicable as target level is fully attained/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

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Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA
<i>NA: Not Applicable as target level is fully attained.</i>				

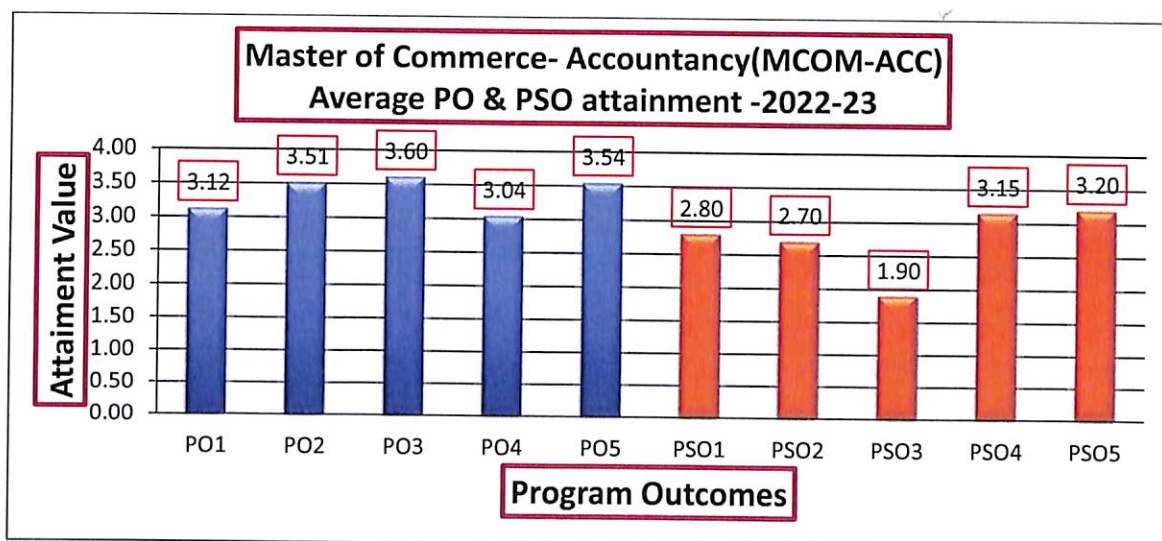
The Courses having attainment level Level-2, shall be addressed by planning the remedial measures such as assignments, tutorials and remedial coaching.

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

			PROGRAMME OUTCOME					PROGRAMME OUTCOME (ACCOUNTANCY)				
Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
I	STRATEGIC MANAGEMENT	2211PCMSM	3.2		3.2	3.2	3.2					
	MICROECONOMICS	2212PCMEB	3			3						
	COST AND MANAGEMENT ACCOUNTING	2213PCMCA	2			2				2		
	BUSINESS ETHICS AND CSR	2214PCMBE	2.4			2.4						
	SOFT SKILLS For PROFESSIONALS	2215PGESE		4.6	4.6		4.6					
II	RESEARCH METHODOLOGY	2221PCMRM	2.6	2.6	2.6		2.6					
	MACROECONOMICS	2222PCMME	3.6			3.6						
	CORPORATE FINANCE	2223PCMCF	3.2	3.2	3.2		3.2				3.2	3.2
	E COMMERCE	2223PCMRM	4.2	4.2			4.2					
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	4	4	4	4	4					
III	ADVANCED FINANCIAL ACCOUNTING	2331PCMFA	2.4	2.4		2.4			2.4		2.4	
	DIRECT TAX	2332PCMDT	2.8	2.8			2.8	2.8				
	ADVANCED COST	2333PCMCA	1.8			1.8				1.8		

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	ACCOUNTING											
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	4	4		4	4					
IV	CORPORATE FINANCIAL ACCOUNTING	2341PCMCF	3						3		3	
	INDIRECT TAX	2342PCMGT	2.8	2.8			2.8	2.8				
	IFRS	2343PCMFR	4	4							4	
	RESEARCH BASED PROJECT	2344PCMRP	4	4	4	4	4					
	AVERAGE		3.12	3.51	3.60	3.04	3.54	2.80	2.70	1.90	3.15	3.20



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


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ANNEXTURE J

Master of Commerce (Management)-MCOM (Management)

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

Master of Commerce (Management) - MCOM (Management)

Academic Year-2022-23

Semester	Course	Course Code	PROGRAMME OUTCOME					PROGRAMME OUTCOME (Management)				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
I	STRATEGIC MANAGEMENT	2211PCMSM	*		*	*	*					
	MICROECONOMICS	2212PCMEB	*			*						
	SERVICES MARKETING	2213PCMSM	*			*	*	*	*	*	*	*
	BUSINESS ETHICS AND CSR	2214PCMBE	*			*						
	SOFT SKILLS For PROFESSIONALS	2215PGESE		*	*		*					
II	RESEARCH METHODOLOGY	2221PCMRM	*	*	*		*					
	MACROECONOMICS	2222PCME	*			*						
	RETAIL MANAGEMENT	2223PCMRM	*	*		*	*	*	*	*	*	*
	E COMMERCE	2223PCMRM	*	*			*					
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	*	*	*	*	*					
III	RURAL MARKETING	2331PCMRM	*			*		*	*			*
	ENTREPRENEURSHIP	2332PCMEP	*	*	*	*	*	*	*	*	*	*
	ORGANISATIONAL BEHAVIOUR	2333PCMOB	*		*	*	*	*	*	*		
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	*	*		*	*					
IV	SUPPLY CHAIN MANAGEMENT & LOGISTICS	2341PCMML	*	*		*		*	*			*
	BRAND MANAGEMENT	2342PCMBM	*			*	*	*	*	*		*
	MANAGEMENT OF BUSINESS RELATIONS	2343PCMBR	*			*	*	*	*	*		*
	RESEARCH BASED PROJECT	2344PCMRP	*	*	*	*	*					

Table No. J.2: CO Attainment Level: Master of Commerce(Management)-

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MCOM (Management)-Academic Year-2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	STRATEGIC MANAGEMENT	2211PCMSM	2.2	2	Fully Attained	NA
	MICROECONOMICS	2212PCMEB	3	2	Fully Attained	NA
	SERVICES MARKETING	2213PCMSM	2.4	2	Fully Attained	NA
	BUSINESS ETHICS AND CSR	2214PCMBE	3.4	2	Fully Attained	NA
	SOFT SKILLS For PROFESSIONALS	2215PGESS	2.6	2	Fully Attained	NA
II	RESEARCH METHODOLOGY	2221PCMRM	3.2	2	Fully Attained	NA
	MACROECONOMICS	2222PCMME	3.4	2	Fully Attained	NA
	RETAIL MANAGEMENT	2223PCMRM	3.8	2	Fully Attained	NA
	E COMMERCE	2223PCMRM	3.8	2	Fully Attained	NA
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	4.6	2	Fully Attained	NA
III	RURAL MARKETING	2331PCMRM	2	2	Fully Attained	NA
	ENTREPRENEURSHIP	2332PCMEP	4.6	2	Fully Attained	NA
	ORGANISATIONAL BEHAVIOUR	2333PCMOB	3.4	2	Fully Attained	NA
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	5	2	Fully Attained	NA
IV	SUPPLY CHAIN MANAGEMENT & LOGISTICS	2341PCMML	3.4	2	Fully Attained	NA
	BRAND MANAGEMENT	2342PCMBM	4	2	Fully Attained	NA
	MANAGEMENT OF BUSINESS RELATIONS	2343PCMBR	3	2	Fully Attained	NA
	RESEARCH BASED PROJECT	2344PCMRP	5	2	Fully Attained	NA
		Average	3.49			
NA: Not Applicable as target level is fully attained/ Semester II examination is not conducted so far as course begins very late due to pandemic.						

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Table No. J.2a: PO Attainment Level-(Management)-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	4	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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:

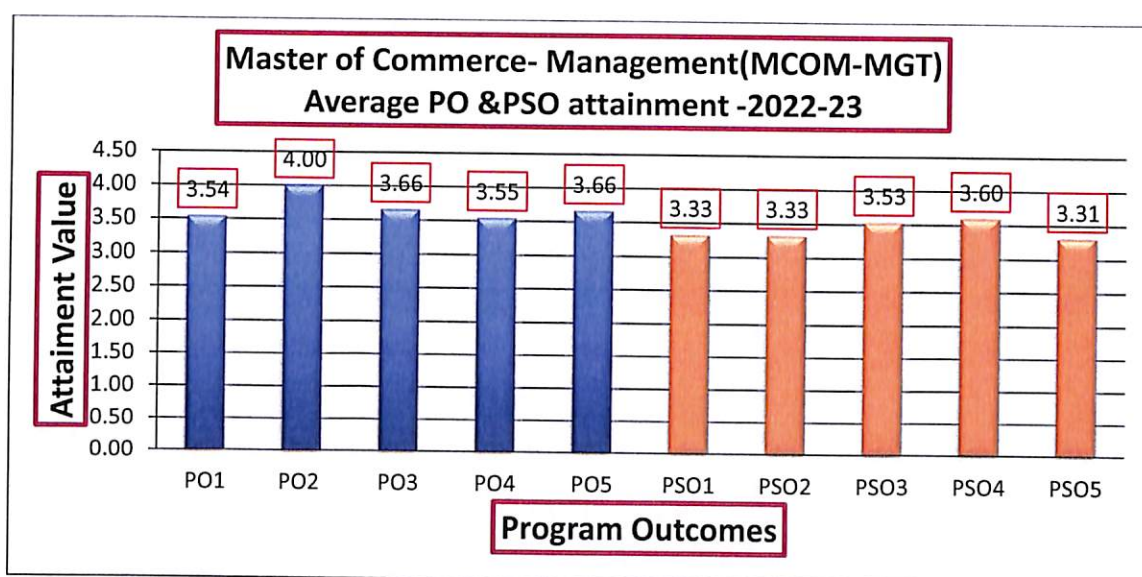
Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.

**Table No. J.3: Results of CO-PO attainment-
Master of Commerce (Management)- MCOM (Management) Academic Year 2022-23**


Semester	Course	Course Code	PROGRAMME OUTCOME					PROGRAMME OUTCOME (Management)				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
I	STRATEGIC MANAGEMENT	2211PCMSM	2.2		2.2	2.2	2.2					
	MICROECONOMICS	2212PCMEB	3			3						
	SERVICES MARKETING	2213PCMSM	2.4			2.4	2.4	2.4	2.4	2.4	2.4	2.4
	BUSINESS ETHICS AND CSR	2214PCMBE	3.4			3.4						
	SOFT SKILLS For PROFESSIONALS	2215PGESE		2.6	2.6		2.6					
II	RESEARCH METHODOLOGY	2221PCMRM	3.2	3.2	3.2		3.2					
	MACROECONOMICS	2222PCMME	3.4			3.4						
	RETAIL MANAGEMENT	2223PCMRM	3.8	3.8		3.8	3.8	3.8	3.8	3.8	3.8	3.8
	E COMMERCE	2223PCMRM	3.8	3.8			3.8					
	BASICS FOR FINANCIAL MARKETS	2225PGEFM	4.6	4.6	4.6	4.6	4.6					
III	RURAL MARKETING	2331PCMRM	2			2		2	2			2
	ENTREPRENEURSHIP	2332PCMEP	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	ORGANISATIONAL BEHAVIOUR	2333PCMOB	3.4		3.4	3.4	3.4	3.4	3.4	3.4		
	INTERNSHIP BASED PROJECT WORK	2334PCMIP	5	5		5	5					

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IV	SUPPLY CHAIN MANAGEMENT & LOGISTICS	2341PCMML	3.4	3.4		3.4		3.4	3.4			3.4
	BRAND MANAGEMENT	2342PCMBM	4			4	4	4	4	4		4
	MANAGEMENT OF BUSINESS RELATIONS	2343PCMBR	3			3	3	3	3	3		3
	RESEARCH BASED PROJECT	2344PCMRP	5	5	5	5	5					
		AVERAGE	3.54	4.00	3.66	3.55	3.66	3.33	3.33	3.53	3.60	3.31



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


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ANNEXTURE K
Master of Arts (Economics)- MA(ECO)

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

Master of Arts(Economics)- MA(ECO)- Academic Year-2022-23

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
I	MICROECONOMICS -I	1611PMEMI	*	*	*	*		
	MACROECONOMICS -I	1612PMEMA	*	*	*	*		
	ECONOMICS OF DEVELOPMENT	1613PMEED	*	*	*	*	*	*
	STATISTICAL METHODS IN ECONOMICS	1814PMESM		*	*	*		
II	MICROECONOMICS -II	1623PMEMI	*	*	*	*	*	
	MACROECONOMICS -II	1624PMEMA	*	*	*	*		
	PUBLIC ECONOMICS	1621PMEPE	*	*	*	*	*	*
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		*	*	*		
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	*	*	*	*	*	*
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	*	*	*	*		*
	INDUSTRIAL ECONOMICS	1733PMEIE	*	*	*	*	*	*
	BANKING: THEORY AND POLICY	1734PMEBA	*	*	*	*	*	*
	ECONOMETRICS-I	2235PMEEC	*	*	*		*	
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	*	*	*	*	*	*
	INTERNATIONAL FINANCE	1742PMEIF	*	*	*	*	*	*
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	*	*	*	*	*	*
	ECONOMETRICS-II	2244PMEEC	*	*	*	*	*	
	RESEARCH PROJECT	1744PMERP	*	*	*		*	

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**Table No. K.2: CO Attainment Level: Master of Arts(Economics)- MA(ECO)-
Academic Year-2022-23**

Se m es ter	Course	Course Code	CO Attainm ent value	Attain ment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	MICROECONOMICS - I	1611PMEM I	2.4	2	Fully Attained	NA
	MACROECONOMICS -I	1612PMEM A	2.4	2	Fully Attained	NA
	ECONOMICS OF DEVELOPMENT	1613PMEE D	2.4	2	Fully Attained	NA
	STATISTICAL METHODS IN ECONOMICS	1814PMES M	2.8	2	Fully Attained	NA
II	MICROECONOMICS - II	1623PMEM I	3.4	2	Fully Attained	NA
	MACROECONOMICS -II	1624PMEM A	2.4	2	Fully Attained	NA
	PUBLIC ECONOMICS	1621PMEP E	3.4	2	Fully Attained	NA
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEM T	2.2	2	Fully Attained	NA
III	ECONOMICS OF AGR ICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEA P	2.8	2	Fully Attained	NA
	INTERNATIONAL TRA DE: THEORY AND POLICY	1732PMEIT	3.2	2	Fully Attained	NA
	INDUSTRIAL ECONOMICS	1733PMEIE	2.8	2	Fully Attained	NA
	BANKING: THEORY AND POLICY	1734PMEB A	2.2	2	Fully Attained	NA
	ECONOMETRICS-I	2235PMEE C	2.4	2	Fully Attained	NA


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IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	2.2	2	Fully Attained	NA
	INTERNATIONAL FINANCE	1742PMEIF	1.6	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	ECONOMETRICS-II	2244PMEE C	1.2	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	RESEARCH PROJECT	1744PMERP	3	2	Fully Attained	NA
		Average	2.36			

NA: Not Applicable as target level is fully attained.

Table No.K.2a: PO Attainment Level-MA (Economics)- 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	4	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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 levels **are** greater than or equal to target level-4. Hence at present no plans are required.

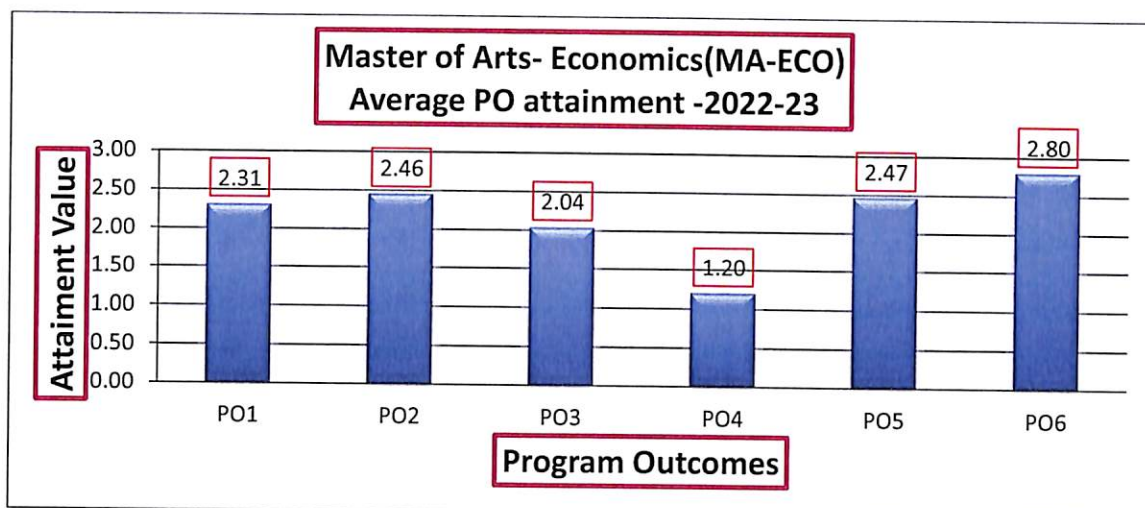
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**Table No. K.3: Results of CO-PO attainment-
Master of Arts(Economics)-MA(ECO)-Academic Year 2022-23**

Semester	Course	Course Code	PO1	PO 2	PO 3	PO4	PO 5	PO6
I	MICROECONOMICS -I	1611PMEMI	2.4	2.4	2.4	2.4		
	MACROECONOMICS -I	1612PMEMA	2.4	2.4	2.4	2.4		
	ECONOMICS OF DEVELOPMENT	1613PMEED	2.4	2.4	2.4	2.4	2.4	2.4
	STATISTICAL METHODS IN ECONOMICS	1814PMESM		2.8	2.8	2.8		
II	MICROECONOMICS -II	1623PMEMI	3.4	3.4	3.4	3.4	3.4	
	MACROECONOMICS -II	1624PMEMA	2.4	2.4	2.4	2.4		
	PUBLIC ECONOMICS	1621PMEPE	3.4	3.4	3.4	3.4	3.4	3.4
	MATHEMATICAL TECHNIQUES FOR ECONOMISTS	1622PMEMT		2.2	2.2	2.2		
III	ECONOMICS OF AGRICULTURAL PRODUCTION AND RURAL MARKETS	1731PMEAP	2.8	2.8	2.8	2.8	2.8	2.8
	INTERNATIONAL TRADE: THEORY AND POLICY	1732PMEIT	3.2	3.2	3.2	3.2		3.2
	INDUSTRIAL ECONOMICS	1733PMEIE	2.8	2.8	2.8	2.8	2.8	2.8
	BANKING: THEORY AND POLICY	1734PMEBA	2.2	2.2	2.2	2.2	2.2	2.2
	ECONOMETRICS-I	2235PMEEC	2.4	2.4	2.4		2.4	
IV	AGRICULTURAL DEVELOPMENT AND POLICY	1741PMEAD	2.2	2.2	2.2	2.2	2.2	2.2
	INTERNATIONAL FINANCE	1742PMEIF	1.6	1.6	1.6	1.6	1.6	1.6
	ECONOMICS OF HUMAN DEVELOPMENT	1743PMEHD	1.4	1.4	1.4	1.4	1.4	1.4
	ECONOMETRICS-II	2244PMEEC	1.2	1.2	1.2	1.2	1.2	
	RESEARCH PROJECT	1744PMERP	3	3	3		3	
	AVERAGE		2.31	2.46	2.04	1.20	2.47	2.80

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

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ANNEXTURE L
Master of Arts (Geography)- MA(GEO)
Table No. L.1: PO CO Mapping Matrix:
Master of Arts(Geography)- MA(GEO)- Academic Year-2022-23

SEM	Course Name	Course Code	PROGRAMME OUTCOME					
			PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Principles of Geomorphology	2211PGEGE	*		*			*
	Principles of Climatology	2212PGECL	*				*	*
	Perspectives in Human Geography	2213PGEHG	*	*	*		*	
	Spatial Organisation of Economic Activities	2214PGEEA	*	*	*		*	*
	Tools and Techniques of Spatial Analysis - I	2215PGET1	*	*	*	*	*	*
	Tools and Techniques of Spatial Analysis- II	2216PGET2	*	*	*	*	*	*
	Soft Skills for Professionals	221PGESS			*			
Sem 2	Oceanography and Hydrology	2221PGEOH	*				*	*
	Geoinformatics	2222PGEI	*		*	*	*	*
	Socio-cultural and Political Geography	2223PGESP	*	*			*	*
	Urban Geography	2224PGEUG	*	*	*	*	*	*
	Tools and Techniques of Spatial Analysis – III	2225PGET3	*	*	*	*	*	*
	Tools and Techniques of Spatial Analysis- IV	2226PGET4	*	*	*	*	*	*
	Internship	222PGEIP	*	*	*	*	*	*
Sem 3	Research Methodology in Geography	1731PGERM	*			*	*	*
	Climatology of Tropics	1732PGECT	*			*	*	*
	Geography of South Asia With Special Reference to India	1733PGESA	*	*	*	*	*	*
	Tools and Techniques of Spatial Analysis –V	1734PGETT	*	*	*	*	*	*
	Tools and Techniques of Spatial Analysis –VI	1735PGETT	*	*	*	*	*	*
	COIST	223PGECT	*	*	*	*	*	*
Sem 4	Geo-informatics and Health Car	1741PGEHE	*	*			*	
	Ecology and Environment	1742PGEEE	*			*	*	*
	Dissertation	1743PGED	*	*	*	*	*	*
	Certificate Course in QGIS	224PGEQG	*	*	*	*	*	*

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**Table No. L.2: CO Attainment Level: Master of Arts (Geography)- MA(GEO)-
Academic Year-2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Principles of Geomorphology	2211PGEGE	2.2	2	Fully Attained	NA
	Principles of Climatology	2212PGECL	3	2	Fully Attained	NA
	Perspectives in Human Geography	2213PGEHG	2.8	2	Fully Attained	NA
	Spatial Organisation of Economic Activities	2214PGEEA	3.8	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis - I	2215PGET1	2	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis- II	2216PGET2	4	2	Fully Attained	NA
	Soft Skills for Professionals	221PGESE	5	2	Fully Attained	NA
II	Oceanography and Hydrology	2221PGEOH	3.8	2	Fully Attained	NA
	Geoinformatics	2222PGEGI	3.4	2	Fully Attained	NA
	Socio-cultural and Political Geography	2223PGESP	4	2	Fully Attained	NA
	Urban Geography	2224PGEUG	3.4	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis – III	2225PGET3	4	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis- IV	2226PGET4	4	2	Fully Attained	NA
	Internship	222PGEIP	4	2	Fully Attained	NA
III	Research Methodology in Geography	1731PGERM	3	2	Fully Attained	NA
	Climatology of Tropics	1732PGECT	3	2	Fully Attained	NA
	Geography of South Asia With Special Reference to India	1733PGESA	2.6	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis –V	173PGETT	2	2	Fully Attained	NA
	Tools and Techniques of Spatial Analysis –VI	1735PGETT	3	2	Fully Attained	NA
	COIST	223PGECT	NA	NA	NA	NA
IV	Geo-informatics and Health Car	1741PGEHE	3.8	2	Fully Attained	NA
	Ecology and Environment	1742PGEEE	2.6	2	Fully Attained	NA
	Dissertation	1743PGED	3	2	Fully Attained	NA
	Certificate Course in QGIS	224PGEQG	NA	NA	NA	NA

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		Average	3.29			
NA: Not Applicable as target level is fully attained/ Semester II is not conducted so far as course begins very late due to pandemic.						

Table No. L 2a. PO Attainment Level-MA (Geography)-Academic year 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. L.3: Results of CO-PO attainment-
Master of Arts(Geography)-MA(GEO)-Academic Year 2022-23**

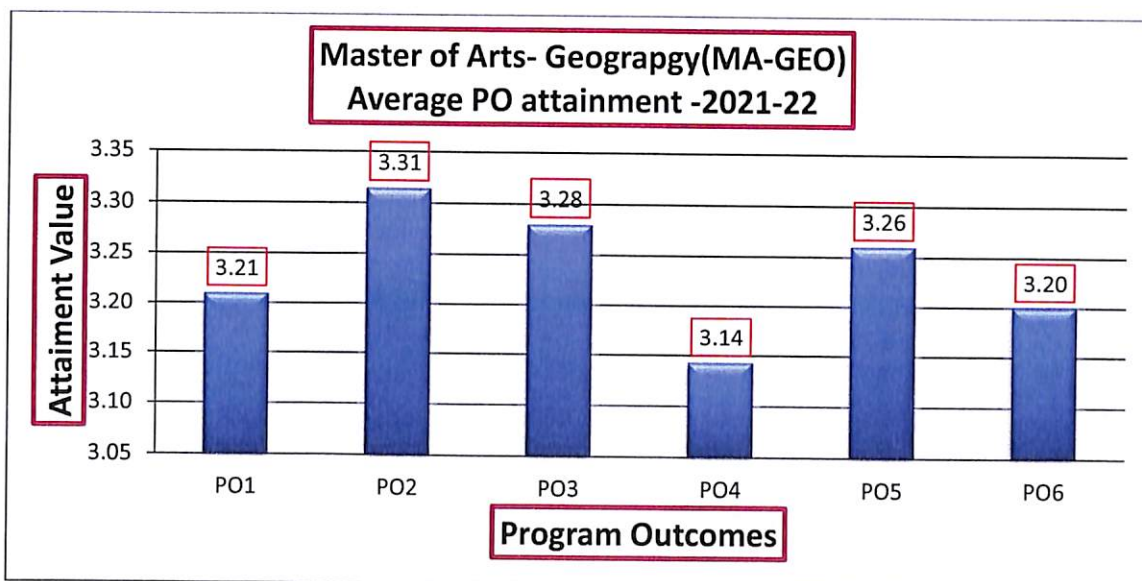
SEM	Course Name	Course Code	PROGRAMME OUTCOME					
			PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Principles of Geomorphology	2211PGEGE	2.2		2.2			2.2
	Principles of Climatology	2212PGECL	3				3	3
	Perspectives in Human Geography	2213PGEHG	2.8	2.8	2.8		2.8	
	Spatial Organisation of Economic Activities	2214PGE EA	3.8	3.8	3.8		3.8	3.8
	Tools and Techniques of Spatial Analysis - I	2215PGET1	2	2	2	2	2	2
	Tools and Techniques of Spatial Analysis- II	2216PGET2	4	4	4	4	4	4
	Soft Skills for Professionals	221PGE SS			5			
Sem 2	Oceanography and Hydrology	2221PGE OH	3.8				3.8	3.8
	Geoinformatics	2222PGE GI	3.4		3.4	3.4	3.4	3.4
	Socio-cultural and Political Geography	2223PGE SP	4	4			4	4
	Urban Geography	2224PGE UG	3.4	3.4	3.4	3.4	3.4	3.4
	Tools and Techniques of Spatial Analysis – III	2225PGET3	4	4	4	4	4	4
	Tools and Techniques of Spatial Analysis- IV	2226PGET4	4	4	4	4	4	4
	Internship	222PGE IP	4	4	4	4	4	4
Sem 3	Research Methodology in Geography	1731PGERM	3			3	3	3

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	Climatology of Tropics	1732PGECT	3			3	3	3
	Geography of South Asia With Special Reference to India	1733PGESA	2.6	2.6	2.6	2.6	2.6	2.6
	Tools and Techniques of Spatial Analysis –V	1734PGET5	2	2	2	2	2	2
	Tools and Techniques of Spatial Analysis –VI	1734PGET5	3	3	3	3	3	3
	COIST	223PGECT	-	-	-	-	-	-
Sem 4	Geo-informatics and Health Car	1741PGEHE	3.8	3.8			3.8	
	Ecology and Environment	1742PGEHE	2.6			2.6	2.6	2.6
	Dissertation	1743PGED	3	3	3	3	3	3
	Certificate Course in QGIS	224PGEQG	-	-	-	-	-	-
		AVERAGE	3.21	3.31	3.28	3.14	3.26	3.20



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

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ANNEXTURE M

Master of Arts(Industrial Psychology)- MA(Industrial Psychology)

Table M.0.1: PO& CO Mapping Table Master of Arts. (Industrial Psychology - New)

Academic Year 2022-23

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO 1	PO2	PO3	PO 4	PO 5	PS O1	PSO2	PSO3	PSO4	PS O5
I	Organizational Behaviour	2211IPSY OB	*	*	*	*	*	*	*	*	*	*
	Human Resource Management	2212IPSY HM	*	*	*	*	*	*	*	*	*	*
	Practical in Psychology – experiments	2213PSY PR	*	*	*	*	*	*	*	*	*	*
	Research Methods in Psychology	2214PSY RM	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	2215PSY EP	*	*			*		*	*	*	*
	Soft Skills for Professionals	Soft skills			*		*	*	*	*	*	*
II	Human Resource Development	2221IPSY HD	*	*	*	*	*	*	*	*	*	*
	Organizational Development	2222IPSY OD	*	*	*	*	*	*	*	*	*	*
	Practical in Psychology – Testing and Psychometrics	2223PSY PR	*	*	*	*	*	*	*	*	*	*
	Statistics in Psychology	2224PSY SP	*	*	*	*	*	*	*	*	*	*
	Positive Psychology	2225PSY PP	*	*	*	*	*	*	*	*	*	*
	COIST	COIST	*	*		*	*	*	*	*	*	*
III	Practicum in Industrial Psychology	233IPSY PC	*	*	*	*	*	*	*	*	*	*
	Research Project in Industrial Psychology I	2332IPSY RP	*	*	*	*	*	*	*	*	*	*
	Workshop and Training in Interventions	2333PSY WT	*	*	*	*	*	*	*	*	*	*
IV	Research Project in Industrial Psychology II	2341IPSY RP	*	*	*	*	*	*	*	*	*	*
	Workplace Relationships	2342IPSY WR	*	*	*	*	*	*	*	*	*	*
	Consumer	2343IPSY	*	*	*	*	*	*	*	*	*	*

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	Behaviour	CB										
	Workshop and Training in Interventions/ Counseling skills	2344PSY WT	*	*	*	*	*	*	*	*	*	*

Table M.0.2: PO& CO Mapping Table Master of Arts. (Industrial Psychology - Old)
Academic Year 2022-23

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO1	PO 2	PO3	PO 4	PO5	PS O1	PSO2	PSO3	PSO4	PSO5
I	Positive Psychology	1911PPSY O	*	*	*	*	*	*	*	*	*	*
	Personality Psychology	1912PPSY PP	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	1913PPSY EP	*				*	*	*		*	*
	Research Methods in Psychology	1914PPSY RM	*	*	*	*	*	*	*	*	*	*
	Practical's in Psychology – Experiments	1915PPSY PR	*	*	*	*	*	*	*	*	*	*
II	Applied Cognitive Psychology	1921PPSY AC	*	*	*	*	*	*	*	*	*	*
	Psychological Capital	1922PPSY PC	*	*	*	*	*	*	*	*	*	*
	Child Psychology	1923PPSY CP	*	*								*
	Statistics in Psychology	1924PPSY SP	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology - Testing and Psychometrics	1925PPSY PR	*	*	*	*	*	*	*	*	*	*
III	Industrial Psychology	1931PPSYI P	*	*	*	*	*	*	*	*	*	*
	Organizational Behaviour	1932PPSY OB	*	*	*	*	*	*	*	*	*	*
	Human Resource Management	1933PPSY HR	*	*	*	*	*	*	*	*	*	*
	Consumer Behaviour	1934PPSY CB	*	*	*	*	*	*	*	*	*	*
	Field Work	1935PPSY	*	*	*	*	*	*	*	*	*	*


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	and Research Project	FD										
IV	Human Resource Development	1941PPSY HD	*	*	*	*	*	*	*	*	*	*
	Organizational Development	1942PPSY OD	*	*	*	*	*	*	*	*	*	*
	Cultural Psychology	1943PPSY CP	*	*	*	*	*	*	*	*	*	*
	Workplace Relationships	1944PPSY WR	*	*	*	*	*	*	*	*	*	*
	Field Work and Research Project	1945PPSY FD	*	*	*	*	*	*	*	*	*	*

**Table No. M.1.1: CO Attainment Level - Master of Arts. (Industrial Psychology - New)
Academic Year 2022-23**

SEM	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Organizational Behaviour	2211IPSYOB	2.6	2	Fully Attained	NA
	Human Resource Management	2212IPSYHM	3.8	2	Fully Attained	NA
	Practical in Psychology – experiments	2213PSYPR	3	2	Fully Attained	NA
	Research Methods in Psychology	2214PSYRM	2.4	2	Fully Attained	NA
	Educational Psychology	2215PSYEP	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Soft Skills for Professionals	221PSECSK	4	2	Fully Attained	NA
II	Human Resource Development	2221IPSYHD	4.6	2	Fully Attained	NA
	Organizational Development	2222IPSYOD	2.8	2	Fully Attained	NA


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	Practical in Psychology – Testing and Psychometrics	2223PSYPR	3	2	Fully Attained	NA
	Statistics in Psychology	2224PSYSP	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Positive Psychology	2225PSYPP	3.2	2	Fully Attained	NA
	COIST	222PSECST	5	2	Fully Attained	NA
III	Practicum in Industrial Psychology	233IPSYPC	-	2	-	-
	Research Project in Industrial Psychology I	2332IPSYRP	-	2	-	-
	Workshop and Training in Interventions	2333PSYWT	-	2	-	-
IV	Research Project in Industrial Psychology II	2341IPSYRP	-	2	-	-
	Workplace Relationships	2342IPSYWR	3	2	Fully Attained	NA
	Consumer Behaviour	2343IPSYCB	-	2	-	-
	Workshop and Training in Interventions/ Counselling skills	2344PSYWT	-	2	-	-
	Organizational Behaviour	AVERAGE	3.09			

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Table No. M.1.2: CO Attainment Level - Master of Arts. (Industrial Psychology - Old)
Academic Year 2022-23

SEM		Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Positive Psychology	1911PSYPO	-	2	-	-
	Personality Psychology	1912PPSYPP	-	2	-	-
	Educational Psychology	1913PPSYEP	-	2	-	-
	Research Methods in Psychology	1914PPSYRM	-	2	-	-
	Practicals in Psychology – Experiments	1915PPSYPR	-	2	-	-
II	Applied Cognitive Psychology	1921PPSYAC	-	2	-	-
	Psychological Capital	1922PPSYPC	-	2	-	-
	Child Psychology	1923PPSYCP	-	2	-	-
	Statistics in Psychology	1924PPSYSP	-	2	-	-
	Practicals in Psychology - Testing and Psychometrics	1925PPSYPR	-	2	-	-
III	Industrial	1931PPSYIP	1.2	2	Not Attained	Assignments,

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	Psychology					tutorials, exercises and remedial coaching shall be planned
	Organizational Behaviour	1932PPSYOB	1.8	2		
	Human Resource Management	1933PPSYHR	1.2	2		
	Consumer Behaviour	1934PPSYCB	3.8	2	Fully Attained	NA
	Field Work and Research Project	1935PPSYFD	3	2	Fully Attained	NA
IV	Human Resource Development	1941PPSYHD	3.8	2	Fully Attained	NA
	Organizational Development	1942PPSYOD	4.2	2	Fully Attained	NA
	Cultural Psychology	1943PPSYCP	3	2	Fully Attained	NA
	Workplace Relationships	1944PPSYWR	3	2	Fully Attained	NA
	Field Work and Research Project	1945PPSYFD	-	2	-	-
		AVERAGE	2.78			

Table No. M.2a: PO Attainment Level-MA(Industrial Psychology)- Year-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

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9. Planned Actions for Course Attainment:


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

10.Planned Actions for Program Outcome Attainment:

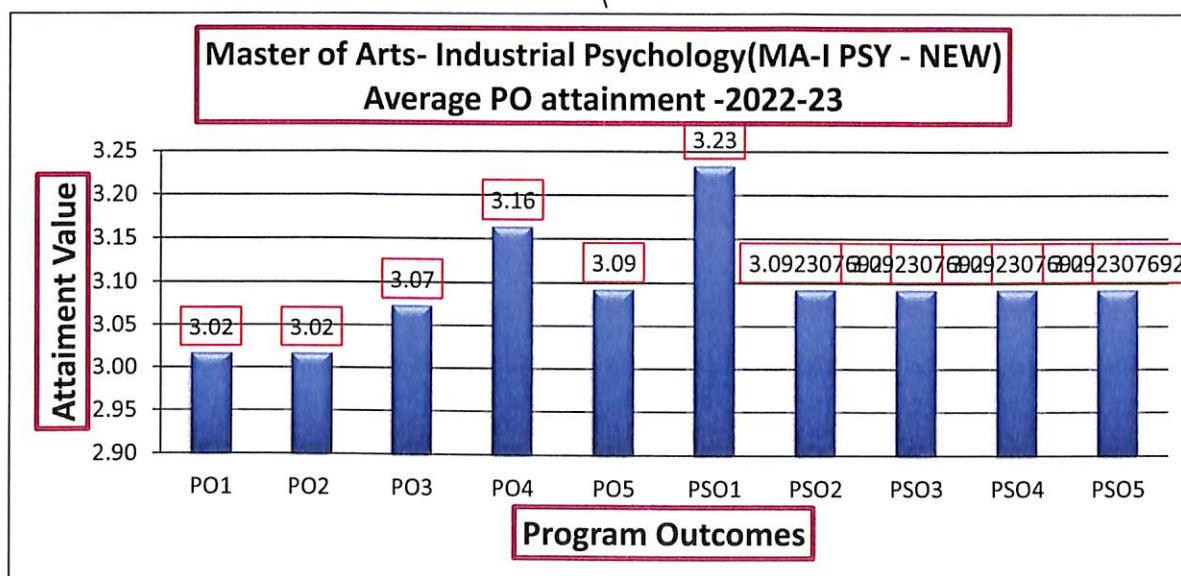
Program Outcome Attainment levels are greater than or equal to target level-4. Hence at present no plans are required.

Table No. M.3.1: Results of CO-PO attainment
Master of Arts. (Industrial Psychology- New)

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
1	Organizational Behaviour	2211IPS YOB	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Human Resource Management	2212IPS YHM	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	Practical in Psychology – experiments	2213PS YPR	3	3	3	3	3	3	3	3	3	3
	Research Methods in Psychology	2214PS YRM	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Educational Psychology	2215PS YEP	1.4	1.4			1.4		1.4	1.4	1.4	1.4
	Soft Skills for Professionals	221PSE CSK			4		4	4	4	4	4	4
2	Human Resource Development	2221IPS YHD	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	Organizational Development	2222IPS YOD	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	Practical in Psychology – Testing and Psychometrics	2223PS YPR	3	3	3	3	3	3	3	3	3	3
	Statistics in Psychology	2224PS YSP	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Positive Psychology	2225PS YPP	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	COIST	222PSE CST	5	5		5	5	5	5	5	5	5
	Practicum in	233IPS		*	*	*	*	*	*	*	*	*


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3	Industrial Psychology	YPC										
	Research Project in Industrial Psychology I	2332IPS YRP	*	*	*	*	*	*	*	*	*	*
	Workshop and Training in Interventions	2333PS YWT	*	*	*	*	*	*	*	*	*	*
4	Research Project in Industrial Psychology II	2341IPS YRP	*	*	*	*	*	*	*	*	*	*
	Workplace Relationships	2342IPS YWR	3	3	3	3	3	3	3	3	3	3
	Consumer Behaviour	2343IPS YCB	*	*	*	*	*	*	*	*	*	*
	Workshop and Training in Interventions/ Counselling skills	2344PS YWT	*	*	*	*	*	*	*	*	*	*



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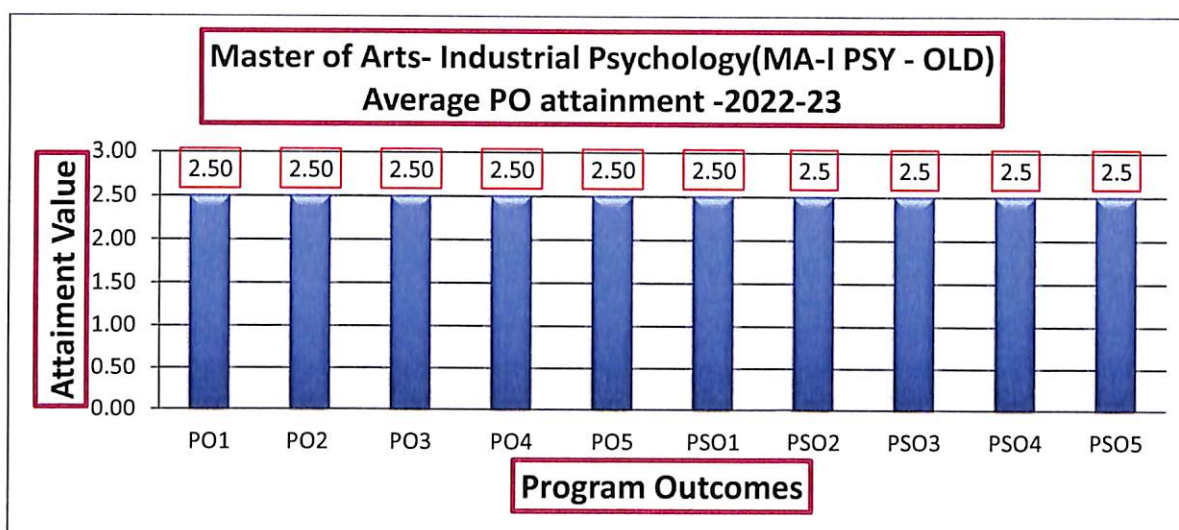
Table No. M.3.2: Results of CO-PO attainment
Master of Arts. (Industrial Psychology- Old)

			PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
SEM		Course Code	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
Sem 1	Positive Psychology	1911PS YPO	*	*	*	*	*	*	*	*	*	*
	Personality Psychology	1912PP SYPP	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	1913PP SYEP	*				*	*	*		*	*
	Research Methods in Psychology	1914PP SYRM	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology – Experiments	1915PP SYPR	*	*	*	*	*	*	*	*	*	*
Sem 2	Applied Cognitive Psychology	1921PP SYAC	*	*	*	*	*	*	*	*	*	*
	Psychological Capital	1922PP SYPC	*	*	*	*	*	*	*	*	*	*
	Child Psychology	1923PP SYCP	*	*								*
	Statistics in Psychology	1924PP SYSP	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology - Testing and Psychometrics	1925PP SYPR	*	*	*	*	*	*	*	*	*	*
Sem 3	Industrial Psychology	1931PP SYIP	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Organizational Behaviour	1932PP SYOB	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Human Resource Management	1933PP SYHR	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Consumer Behaviour	1934PP SYCB	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	Field Work and Research Project	1935PP SYFD	3	3	3	3	3	3	3	3	3	3
	Human	1941PP	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

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Sem 4	Resource Development	SYHD										
	Organizational Development	1942PP SYOD	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	Cultural Psychology	1943PP SYCP	3	3	3	3	3	3	3	3	3	3
	Workplace Relationships	1944PP SYWR	3	3	3	3	3	3	3	3	3	3
	Field Work and Research Project	1945PP SYFD	0	0	0	0	0	0	0	0	0	0



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) for the New pattern as well as the Old pattern


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ANNEXTURE N

Master of Arts(Child Psychology)- MA(Child Psychology)

Table N.0.1: PO& CO Mapping Table Master of Arts. (Child Psychology - New)
Academic Year 2022-23

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
Sem 1	Child Psychopathology –I	2211CP SYCP	*	*	*	*	*	*	*	*	*	*
	Counseling Process and Micro skills	2212CP SYMS	*	*	*	*	*	*	*	*	*	*
	Practical in Psychology – experiments	2213PS YPR	*	*	*	*	*	*	*	*	*	*
	Research Methods in Psychology	2214PS YRM	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	2225CP SYEP	*	*	*	*	*	*	*	*	*	*
	Soft Skills	221PSE CSK				*	*			*	*	
Sem 2	Assessment Techniques for Children and Adolescents	2221CP SYAT			*	*	*	*	*	*	*	*
	Child Psychopathology _ II	2222CP SYCP	*	*	*	*	*	*	*	*	*	*
	Practical in Psychology – Testing and Psychometrics	2223PS YSPR	*				*	*				
	Statistics in Psychology	2224PS YSP	*	*	*	*	*	*	*	*	*	*
	Positive Psychology	2225PS YPP		*	*		*	*	*	*		*
	COIST	221PSE CSK	*	*			*	*	*	*	*	*
	Practicum in	2331CP	*	*	*	*	*	*	*	*	*	*

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Sem 3	Child Psychology	SYPC										
	Research Project in Child Psychology I	2332CP SYRP	*	*	*	*	*	*	*	*	*	*
	Workshop and Training in Interventions / Counseling skills	2333PS YWT	*	*	*	*	*	*	*	*	*	*
Sem 4	Research Project in Child Psychology-II	2341CP SYRP	*	*	*	*	*	*	*	*	*	*
	Creative Therapies for Children and Adolescents	2342CP SYCT	*	*	*	*	*	*	*	*	*	*
	Disabilities, Special Needs and Inclusion	2343CP SYDS	*	*	*	*	*	*	*	*	*	*
	Workshop and Training in Intervention/ Counselling Skills	2344PS YWT	*	*	*	*	*	*	*	*	*	*

Table N.0.2: PO& CO Mapping Table Master of Arts. (Child Psychology - Old)
Academic Year 2022-23

SEM		Course Code	PROGRAMME OUTCOMESS					PROGRAMME SPECIFIC OUTCOMESS				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
Sem 1	Positive Psychology	1911PS YPO	*	*	*	*	*	*	*	*	*	*
	Personality Psychology	1912PP SYPP	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	1913PP SYEP	*				*	*	*		*	*
	Research Methods in Psychology	1914PP SYRM	*	*	*	*	*	*	*	*	*	*

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	Practicals in Psychology – Experiments	1915PP SYPR	*	*	*	*	*	*	*	*	*	*
Sem 2	Applied Cognitive Psychology	1921PP SYAC	*	*	*	*	*	*	*	*	*	*
	Psychological Capital	1922PP SYPC	*	*	*	*	*	*	*	*	*	*
	Child Psychology	1923PP SYCP	*	*								*
	Statistics in Psychology	1924PP SYSP	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology - Testing and Psychometrics	1925PP SYPR	*	*	*	*	*	*	*	*	*	*
Sem 3	Assessment techniques for children and adolescents	2131CP SYAT	*	*	*	*	*	*	*	*	*	*
	Child Psychopathology-I	2132CP SYCP	*	*	*	*	*	*	*	*	*	*
	Counselling Process and Microskills	2133CP SYMS	*	*	*	*	*	*	*	*	*	*
	Therapeutic Interventions for Children and Adolescents	2134CP SYTI	*	*	*	*	*	*	*	*	*	*
	Research Project-I	2135CP SYRP	*	*	*	*	*	*	*	*	*	*
Sem 4	Child Psychopathology-II	2141CP SYCP	*	*	*	*	*	*	*	*	*	*
	Creative approaches to Counselling	2142CP SYCA	*	*	*	*	*	*	*	*	*	*
	Disabilities, Special Needs and Inclusion	2143CP SYDS	*	*	*	*	*	*	*	*	*	*
	Research Project-II	2144CP SYRP	*	*	*	*	*	*	*	*	*	*
	Practicum-II	2145CP SYPC	*	*	*	*	*	*	*	*	*	*

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Table No. N.1.1: CO Attainment Level - Master of Arts. (Child Psychology - New)
Academic Year 2022-23

SEM	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Child Psychopathology –I	2211CPSYCP	2.6	2	Fully Attained	NA
	Counseling Process and Microskills	2212CPSYMS	2.2	2	Fully Attained	NA
	Practical in Psychology – experiments	2213PSYPR	3	2	Fully Attained	NA
	Research Methods in Psychology	2214PSYRM	2.4	2	Fully Attained	NA
	Educational Psychology	2225CPSYEP	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Soft Skills	221PSECSK	4	2	Fully Attained	NA
II	Assessment Techniques for Children and Adolescents	2221CPSYAT	2	2	Fully Attained	NA
	Child Psychopathology – II	2222CPSYCP	1.4	2		
	Practical in Psychology – Testing and Psychometrics	2223PSYSPR	3	2	Fully Attained	NA
	Statistics in Psychology	2224PSYSP	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Positive Psychology	2225PSYPP	3.2	2	Fully Attained	NA
	COIST	222PSECST	5	2	Fully Attained	NA
III	Practicum in Child Psychology	2331CPSYPC	0	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Research Project in Child Psychology I	2332CPSYRP	2	2	Fully Attained	NA

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	Workshop and Training in Interventions / Counseling skills	2333PSYWT	-	2	-	-
IV	Research Project in Child Psychology-II	2341CPSYRP	2	2	Fully Attained	NA
	Creative Therapies for Children and Adolescents	2342CPSYCT	4.2	2	Fully Attained	NA
	Disabilities, Special Needs and Inclusion	2343CPSYDS	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Workshop and Training in Intervention/Counselling Skills	2344PSYWT	*	2	-	-
	Child Psychopathology –I	AVERAGE	2.45			

Table No. N.1.2: CO Attainment Level - Master of Arts. (Child Psychology - Old)
Academic Year 2022-23

SEM		Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Positive Psychology	1911PSYPO	-	2	-	-
	Personality Psychology	1912PPSYPP	-	2	-	-
	Educational Psychology	1913PPSYEP	-	2	-	-
	Research Methods in Psychology	1914PPSYRM	-	2	-	-
	Practicals in Psychology – Experiments	1915PPSYPR	-	2	-	-
II	Applied	1921PPSYAC	-	2	-	-

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	Cognitive Psychology					
	Psychological Capital	1922PPSYPC	-	2	-	-
	Child Psychology	1923PPSYCP	-	2	-	-
	Statistics in Psychology	1924PPSYSP	-	2	-	-
	Practicals in Psychology - Testing and Psychometrics	1925PPSYPR	-	2	-	-
III	Assessment techniques for children and adolescents	2131CPSYAT	2.8	2	Fully Attained	NA
	Child Psychopathology-I	2132CPSYCP	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Counselling Process and Microskills	2133CPSYMS	4	2	Fully Attained	NA
	Therapeutic Interventions for Children and Adolescents	2134CPSYTI	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Research Project-I	2135CPSYRP	3	2	Fully Attained	NA
IV	Child Psychopathology-II	2141CPSYCP	3	2	Fully Attained	NA
	Creative approaches to Counselling	2142CPSYCA	-	2	-	-
	Disabilities, Special Needs and Inclusion	2143CPSYDS	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be

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						planned
	Research Project-II	2144CPSYRP	2	2	Fully Attained	NA
	Practicum-II	2145CPSYPC	3	2	Fully Attained	NA
		AVEARGE	2.53			

Table No. N.2a: PO Attainment Level-MA(Child Psychology)- Year-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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 levels are greater than or equal to target level-4. Hence at present no plans are required.

Table No. N.3.1: Results of CO-PO attainment

Master of Arts. (Child Psychology- New)

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
Sem 1	Child Psychopathology –I	2211CP SYCP	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Counseling Process and Microskills	2212CP SYMS	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	Practical in Psychology – experiments	2213PS YPR	3	3	3	3	3	3	3	3	3	3
	Research Methods in Psychology	2214PS YRM	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Educational Psychology	2225CP SYEP	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Soft Skills	Soft Skills				4	4			4	4	
Sem 2	Assessment Techniques	2221CP SYAT	2	2	2	2	2	2	2	2	2	2

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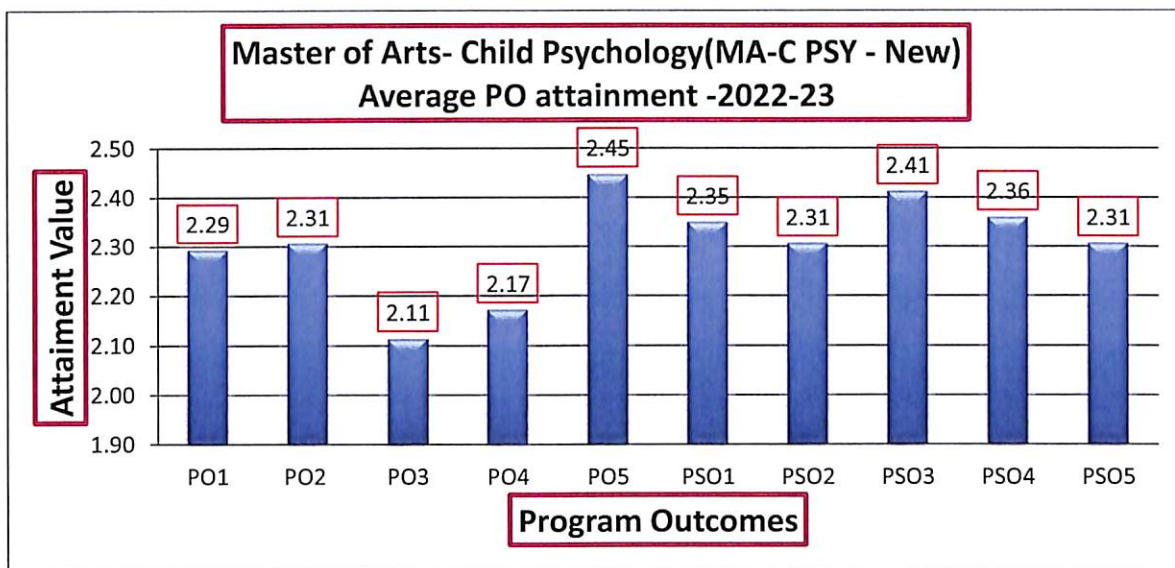
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	for Children and Adolescents											
	Child Psychopathology II	2222CP SYCP	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Practical in Psychology – Testing and Psychometrics	2223PS YSPR	3				3	3				
	Statistics in Psychology	2224PS YSP	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Positive Psychology	2225PS YPP		3.2	3.2		3.2	3.2	3.2	3.2		3.2
	COIST	COIST	5	5			5	5	5	5	5	5
Sem 3	Practicum in Child Psychology	2331CP SYPC	0	0	0	0	0	0	0	0	0	0
	Research Project in Child Psychology I	2332CP SYRP	2	2	2	2	2	2	2	2	2	2
	Workshop and Training in Interventions / Counseling skills	2333PS YWT	*	*	*	*	*	*	*	*	*	*
Sem 4	Research Project in Child Psychology-II	2341CP SYRP	2	2	2	2	2	2	2	2	2	2
	Creative Therapies for Children and Adolescents	2342CP SYCT	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	Disabilities, Special Needs and Inclusion	2343CP SYDS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Workshop and Training in Intervention/ Counselling Skills	2344PS YWT	*	*	*	*	*	*	*	*	*	*

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

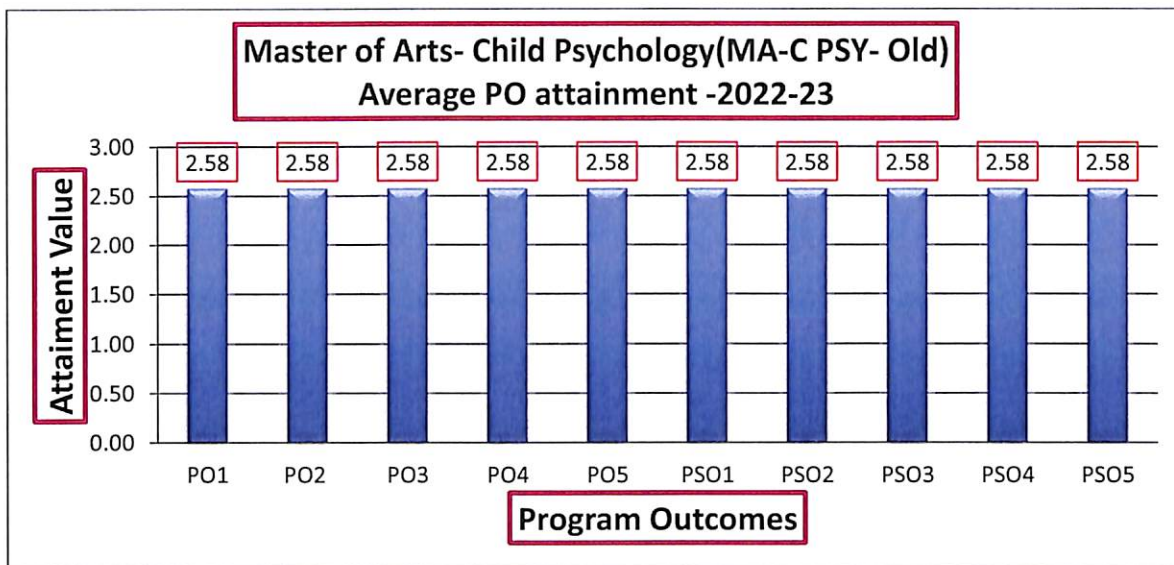
Table No. N.3.2: Results of CO-PO attainment
Master of Arts. (Child Psychology- Old)

SEM		Course Code	PROGRAMME OUTCOMES					PROGRAMME SPECIFIC OUTCOMES				
			PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
Sem 1	Positive Psychology	1911PS YPO	*	*	*	*	*	*	*	*	*	*
	Personality Psychology	1912PP SYPP	*	*	*	*	*	*	*	*	*	*
	Educational Psychology	1913PP SYEP	*				*	*	*		*	*
	Research Methods in Psychology	1914PP SYRM	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology – Experiments	1915PP SYPR	*	*	*	*	*	*	*	*	*	*
	Applied	1921PP	*	*	*	*	*	*	*	*	*	*

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Sem 2	Cognitive Psychology	SYAC										
	Psychological Capital	1922PP SYPC	*	*	*	*	*	*	*	*	*	*
	Child Psychology	1923PP SYCP	*	*								*
	Statistics in Psychology	1924PP SYSP	*	*	*	*	*	*	*	*	*	*
	Practicals in Psychology - Testing and Psychometrics	1925PP SYPR	*	*	*	*	*	*	*	*	*	*
Sem 3	Assessment techniques for children and adolescents	2131CP SYAT	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	Child Psychopathology-I	2132CP SYCP	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Counselling Process and Microskills	2133CP SYMS	4	4	4	4	4	4	4	4	4	4
	Therapeutic Interventions for Children and Adolescents	2134CP SYTI	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Research Project-I	2135CP SYRP	3	3	3	3	3	3	3	3	3	3
Sem 4	Child Psychopathology-II	2141CP SYCP	3	3	3	3	3	3	3	3	3	3
	Creative approaches to Counselling	2142CP SYCA	*	*	*	*	*	*	*	*	*	*
	Disabilities, Special Needs and Inclusion	2143CP SYDS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Research Project-II	2144CP SYRP	2	2	2	2	2	2	2	2	2	2
	Practicum-II	2145CP SYPC	3	3	3	3	3	3	3	3	3	3


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

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ANNEXTURE O
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-2022-23

Semester	Subject	Course Code	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PO 11	PO 12
Sem 1	Research in Computing	2211PI TRC	*	*			*	*	*	*	*	*		*
	Machine Learning	2212PI TML	*	*	*	*	*				*	*	*	*
	Foundations of Data Science	2213PI TFD	*	*	*			*	*		*			*
	Distributed Systems	2214PI TDS	*	*	*	*					*			
	Cyber and Information Security	2215PI TCS	*	*	*	*					*			
	Analysis of Algorithms	2216PI TAA	*	*	*			*	*	*	*	*		
	Research in Computing Practical	2211PI TRCP	*	*			*	*	*	*	*	*		*
	Machine Learning Practical	2212PI TMLP	*	*	*	*	*				*	*	*	*
	Foundations of Data Science Practical	2213PI TFDP	*	*	*			*	*		*			*
	Distributed Systems Practical	2214PI TDSP	*	*	*	*					*			
	Cyber and Information Security Practical	2215PI TCSP	*	*	*	*					*			
	Analysis of Algorithms Practical	2216PI TAAP	*	*	*			*	*	*	*	*		
	Soft Skills for Professionals	221PG ESSK	*								*	*	*	*
	Foundations	2221PI	*	*	*	*	*	*	*			*		

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	of Mathematics	TFM												
Sem 2	Internship/ Research paper/ mini-project	2223PI TRPM	*	*	*	*	*	*	*	*	*	*	*	*
	Soft Computing	2222PI TSC	*	*	*			*	*		*	*		
	Foundations of Big Data	2225PI TBD	*	*	*			*			*	*	*	*
	Cloud Computing	2226PI TCC	*	*	*	*						*		*
	Computer Forensic	2227PI TCF	*	*	*	*	*				*			*
	Optimization Techniques	2228PI TOT	*	*	*			*	*		*			
	Paper Presentation/ Paper Publication	2224PI TPP	*	*	*	*	*	*	*	*	*	*	*	*
	Soft Computing Practical	2222PI TSCP	*	*	*			*	*		*	*		
	Foundations of Big Data Practical	2225PI TBDP	*	*	*			*			*	*	*	*
	Cloud Computing Practical	2226PI TCCP	*	*	*	*						*		*
	Computer Forensic Practical	2227PI TCFP	*	*	*	*					*			*
	Optimization Techniques Practical	2228PI TOTP	*	*	*			*	*		*			
Sem 3	Artificial Intelligence	2131PI TAI	*		*	*	*	*				*		
	Entrepreneurship and Ethics in IT	2132PI TEE	*	*	*			*	*		*		*	*
	Engineering Blockchain Applications	2134PI TEBC	*	*	*	*	*		*			*		
	Ethical Hacking Offensive	2134PI TEH	*	*	*	*	*		*			*		*

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	Penetration Testing													
	Image Processing	2136PI TIP	*		*	*	*		*			*	*	
	Mastering Microservices with Python, Flask, and Docker	2136PI TMM	*		*	*	*	*	*			*		
	Artificial Intelligence Practical	2131PI TAIP	*		*	*	*	*	*	*		*		
	Project	2133PI TPR	*	*	*	*	*	*	*	*	*	*		*
	Engineering Blockchain Applications Practical	2134PI TEBC P	*		*	*	*	*		*		*	*	*
	Ethical Hacking Offensive Penetration Testing Practical	2134PI TEHP	*		*	*	*	*		*		*	*	*
	Image Processing Practical	2136PI TIPP	*		*	*	*		*			*	*	
	Mastering Microservices with Python, Flask, and Docker Practical	2136PI TMMP	*		*	*	*	*	*			*	*	*
Sem 4	Introduction to Deep Learning	2141PI TDL	*		*	*	*	*	*			*		
	Developing Blockchain-Based Identity Applications	2143PI TDBC	*		*	*	*	*	*			*		*
	Security Operations Management	2143PI TSOM	*	*	*	*	*	*	*	*		*	*	
	Advanced Image	2145PI TAIP	*		*	*	*		*			*	*	

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	Processing													
	Advanced Linux System Administration	2145PI TALS A	*	*	*		*			*	*		*	*
	Introduction to Deep Learning Practical	2141PI TDLP	*		*	*	*	*	*			*		
	Project	2142PI TPR	*	*	*	*	*	*	*	*	*	*		*
	Developing Blockchain-Based Identity Applications Practical	2143PI TDBC P	*		*	*	*	*	*			*	*	
	Security Operations Management Practical	2143PI TSOM P	*	*	*	*	*	*	*	*		*	*	
	Advanced Image Processing Practical	2145PI TAIPP	*		*	*	*		*			*	*	
	Advanced Linux System Administration Practical	2145PI TALS P	*	*	*		*			*	*		*	*

**Table No. O.2: CO Attainment Level: Master of Science(Information Technology)-
M.Sc.(IT)
Academic Year-2022-23**

Sem ester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained / Not Attained	Remedial Measures
Sem 1	Research in Computing	2211PITRC	3.2	2	Fully Attained	NA
	Machine Learning	2212PITML	3.8	2	Fully Attained	NA
	Foundations of Data Science	2213PITFD	4.4	2	Fully Attained	NA
	Distributed Systems	2214PITDS	NA	NA	NA	NA
	Cyber and	2215PITCS	3.4	2	Fully	NA

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	Information Security				Attained	
	Analysis of Algorithms	2216PITAA	NA	NA	NA	NA
	Research in Computing Practical	2211PITRC P	3	2	Fully Attained	NA
	Machine Learning Practical	2212PITML P	3	2	Fully Attained	NA
	Foundations of Data Science Practical	2213PITFD P	3	2	Fully Attained	NA
	Distributed Systems Practical	2214PITDS P	NA	NA	NA	NA
	Cyber and Information Security Practical	2215PITCS P	2	2	Fully Attained	NA
	Analysis of Algorithms Practical	2216PITAA P	NA	NA	NA	NA
	Soft Skills for Professionals	221PGESS K	2	2	Fully Attained	NA
Sem 2	Foundations of Mathematics	2221PITFM	NA	NA	NA	NA
	Internship/ Research paper/ mini-project	2223PITRP M	3.2	2	Fully Attained	NA
	Soft Computing	2222PITSC	3	2	Fully Attained	NA
	Foundations of Big Data	2225PITBD	4.4	2	Fully Attained	NA
	Cloud Computing	2226PITCC	NA	NA	NA	NA
	Computer Forensic	2227PITCF	2.8	2	Fully Attained	NA
	Optimization Techniques	2228PITOT	NA	NA	NA	NA
	Paper Presentation/ Paper Publication	2224PITPP	4	2	Fully Attained	NA
	Soft Computing Practical	2222PITSC P	3	2	Fully Attained	NA
	Foundations of Big Data Practical	2225PITBD P	2	2	Fully Attained	NA
	Cloud Computing Practical	2226PITCC P	NA	NA	NA	NA

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	Computer Forensic Practical	2227PITCF P	4	2	Fully Attained	NA
	Optimization Techniques Practical	2228PITOT P	NA	NA	NA	NA
Sem 3	Artificial Intelligence	2131PITAI	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Entrepreneurship and Ethics in IT	2132PITEE	2.4	2	Fully Attained	NA
	Engineering Blockchain Applications	2134PITEB C	2.8	2	Fully Attained	NA
	Ethical Hacking Offensive Penetration Testing	2134PITEH	NA	NA	NA	NA
	Image Processing	2136PITIP	3.2	2	Fully Attained	NA
	Mastering Microservices with Python, Flask, and Docker	2136PITM M	NA	NA	NA	NA
	Artificial Intelligence Practical	2131PITAIP	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Project	2133PITPR	5	2	Fully Attained	NA
	Engineering Blockchain Applications Practical	2134PITEB CP	2	2	Fully Attained	NA.
	Ethical Hacking Offensive Penetration Testing Practical	2134PITEH P	NA	NA	NA	NA
	Image Processing Practical	2136PITIPP	3	2	Fully Attained	NA
	Mastering Microservices with Python, Flask, and Docker Practical	2136PITM MP	NA	NA	NA	NA
Sem 4	Introduction to Deep Learning	2141PITDL	1.8	2	Not Fully	Assignments, tutorials, exercises and remedial

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					Attained	coaching shall be planned.
	Developing Blockchain-Based Identity Applications	2143PITDB C	2.4	2	Fully Attained	NA
	Security Operations Management	2143PITSO M	NA	NA	NA	NA
	Advanced Image Processing	2145PITAIP	2	2	Fully Attained	NA
	Advanced Linux System Administration	2145PITAL SA	NA	NA	NA	NA
	Introduction to Deep Learning Practical	2141PITDL P	2	2	Fully Attained	NA
	Project	2142PITPR	4.5	2	Fully Attained	NA
	Developing Blockchain-Based Identity Applications Practical	2143PITDB CP	2	2	Fully Attained	NA
	Security Operations Management Practical	2143PITSO MP	NA	NA	NA	NA
	Advanced Image Processing Practical	2145PITAIP P	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Advanced Linux System Administration Practical	2145PITAL SP	NA	NA	NA	NA
		AVERAGE	2.78			

Table No. O.2a: PO Attainment Level-M.Sc.-IT-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA
<i>NA: Not Applicable as target level is fully attained.</i>				

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9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. O.3: Results of CO-PO attainment-
Master of Science(Information Technology)- M.Sc.-(IT)
Academic Year 2022-23**

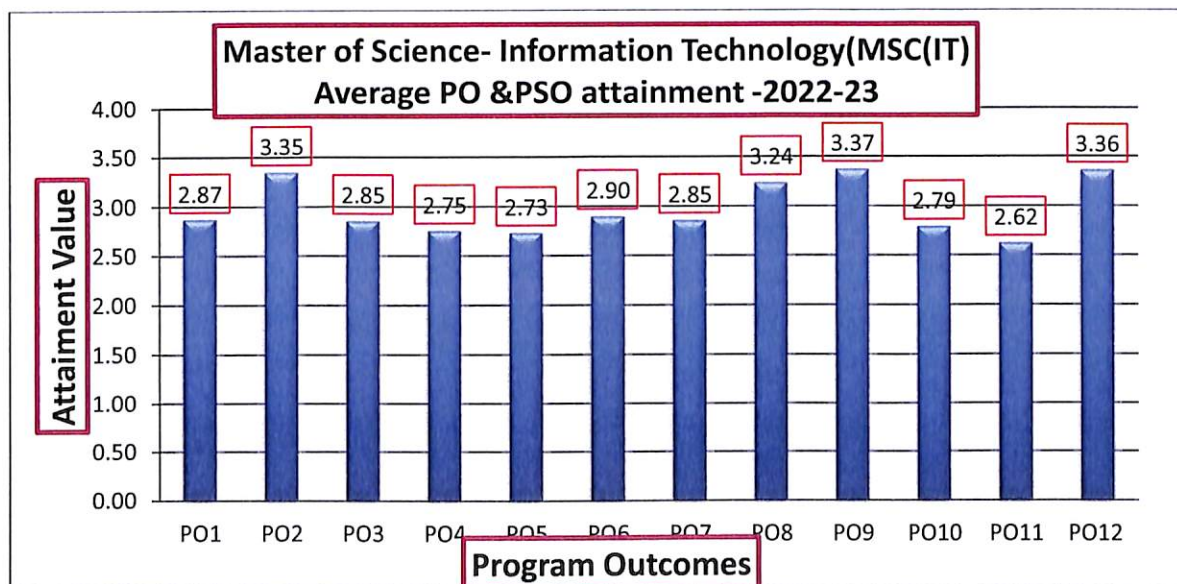
Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Sem 1	Research in Computing	2211PI TRC	3.2	3.2			3.2	3.2	3.2	3.2	3.2	3.2		3.2
	Machine Learning	2212PI TML	3.8	3.8	3.8	3.8	3.8				3.8	3.8	3.8	3.8
	Foundations of Data Science	2213PI TFD	4.4	4.4	4.4			4.4	4.4		4.4			4.4
	Cyber and Information Security	2215PI TCS	3.4	3.4	3.4	3.4					3.4			
	Research in Computing Practical	2211PI TRCP	3	3			3	3	3	3	3	3		3
	Machine Learning Practical	2212PI TMLP	3	3	3	3	3				3	3	3	3
	Foundations of Data Science Practical	2213PI TFDP	3	3	3			3	3		3			3
	Cyber and Information Security Practical	2215PI TCSP	2	2	2	2					2			
	Soft Skills for Professionals	221PG ESSK	2								2	2	2	2
Sem 2	Internship/ Research paper/ mini-project	2223PI TRPM	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		3.2
	Soft	2222PI	3	3	3			3	3		3	3		

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	Computing	TSC												
	Foundations of Big Data	2225PI TBD	4.4	4.4	4.4			4.4			4.4	4.4	4.4	4.4
	Computer Forensic	2227PI TCF	2.8	2.8	2.8	2.8	2.8				2.8			2.8
	Paper Presentation/ Paper Publication	2224PI TPP	4	4	4	4	4	4	4	4	4	4		4
	Soft Computing Practical	2222PI TSCP	3	3	3			3	3		3	3		
	Foundations of Big Data Practical	2225PI TBDP	2	2	2			2			2	2	2	2
	Computer Forensic Practical	2227PI TCFP	4	4	4	4					4			4
Sem 3	Artificial Intelligence	2131PI TAI	1.6		1.6	1.6	1.6	1.6				1.6		
	Entrepreneurship and Ethics in IT	2132PI TEE	2.4	2.4	2.4			2.4	2.4		2.4		2.4	2.4
	Engineering Blockchain Applications	2134PI TEBC	2.8	2.8	2.8	2.8	2.8		2.8			2.8		
	Image Processing	2136PI TIP	3.2		3.2	3.2	3.2		3.2			3.2	3.2	
	Artificial Intelligence Practical	2131PI TAIP	1		1	1	1	1	1	1		1		
	Project	2133PI TPR	5	5	5	5	5	5	5	5	5	5		5
	Engineering Blockchain Applications Practical	2134PI TEBC P	2		2	2	2	2		2		2	2	2
Sem 4	Image Processing Practical	2136PI TIPP	3		3	3	3		3			3	3	
	Introduction to Deep Learning	2141PI TDL	1.8		1.8	1.8	1.8	1.8	1.8			1.8		
	Developing Blockchain-Based Identity	2143PI TDBC	2.4		2.4	2.4	2.4	2.4	2.4			2.4		2.4


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Applications														
Advanced Image Processing	2145PI TAIP	2		2	2	2		2			2	2		
Introduction to Deep Learning Practical	2141PI TDLP	2		2	2	2	2	2			2			
Project	2142PI TPR	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5		4.5	
Developing Blockchain-Based Identity Applications Practical	2143PI TDBC P	2		2	2	2	2	2			2	2		
Advanced Image Processing Practical	2145PI TAIPP	1		1	1	1		1			1	1		
AVERAGE		2.87	3.35	2.85	2.75	2.73	2.90	2.85	3.24	3.37	2.79	2.62	3.36	



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

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ANNEXTURE P

Master of Science (Geoinformatics) - M.Sc.(Geoinformatics)

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

Master of Science (Geoinformatics)-M.Sc.(Geoinformatics) Academic Year-2022-23

SEM	Course Name	Course Code	PROGRAMME OUTCOME					
			PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Fundamentals of Remote Sensing	2211PGIFRS	*		*	*	*	*
	Fundamentals of the Earth's System	2212PGIFES	*	*	*		*	
	Fundamentals of Mathematics	2213PGIFMS	*	*	*	*	*	*
	Fundamentals of Computers	2214PGIFCM	*	*	*	*	*	*
	Tools and Techniques in Geo informatics - I	2215PGITTG	*	*	*	*	*	*
	Tools and Techniques in Geo informatics – II	2216PGITTG	*	*	*	*	*	*
	Soft Skills for Professionals	221PGISS				*		
Sem 2	Geo Environmental Science and Remote Sensing	2221PGIERS	*	*	*	*	*	*
	Spatial Analysis on Statistical Methods	2222PGISAS	*		*	*	*	*
	Digital Image Processing	2223PGIDIP		*		*		*
	Programming with Python	2224PGIPPY		*	*	*		*
	Tools and Techniques in Geo informatics – III	2225PGITTG	*	*	*	*	*	*
	Tools and Techniques in Geoinformatics – IV	2226PGITTG	*	*	*	*	*	*
	Internship	222PGIIP	*	*	*	*	*	*
Sem 3	Research Methodology	2131PGIRMY	*		*	*		
	Advances in Remote Sensing and Advanced Techniques in Spatial Data Processing	2132PGIARST	*	*	*	*	*	*
	Advances in GIS	2133PGIGIS	*	*		*	*	*
	Web Designing	2134PGWDS		*				*
	Project	2135PGIPRJ	*	*	*	*	*	*
	COIST	223PGECT	*			*		*
Sem 4	Geo informatics and Health Care	2141PGIGHC	*		*	*	*	*
	Database Management Systems	2142PGIDMS	*	*	*	*	*	*
	Dissertation	2143PGIDISN	*	*	*	*	*	*
	Certificate Course in QGIS	224PGIQG	*	*	*	*	*	*

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**Table No. P.2: CO Attainment Level: Master of Science (Geoinformatics)-
M.Sc.(Geoinformatics) Academic Year-2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Fundamentals of Remote Sensing	2211PGIFRS	2.8	2	Fully Attained	NA
	Fundamentals of the Earth's System	2212PGIFES	4.4	2	Fully Attained	NA
	Fundamentals of Mathematics	2213PGIFMS	2.4	2	Fully Attained	NA
	Fundamentals of Computers	2214PGIFCM	3.2	2	Fully Attained	NA
	Tools and Techniques in Geo informatics - I	2215PGITTG	3	2	Fully Attained	NA
	Tools and Techniques in Geo informatics – II	2216PGITTG	4	2	Fully Attained	NA
	Soft Skills for Professionals	221PGISS	5	2	Fully Attained	NA
II	Geo Environmental Science and Remote Sensing	2221PGIERS	3.2	2	Fully Attained	NA
	Spatial Analysis on Statistical Methods	2222PGISAS	3.2	2	Fully Attained	NA
	Digital Image Processing	2223PGIDIP	4.6	2	Fully Attained	NA
	Programming with Python	2224PGIPPY	3.2	2	Fully Attained	NA
	Tools and Techniques in Geo informatics – III	2225PGITTG	3	2	Fully Attained	NA
	Tools and Techniques in Geoinformatics – IV	2226PGITTG	2	2	Fully Attained	NA
	Internship	222PGIIP	3	2	Fully Attained	NA
III	Research Methodology	2131PGIRMY	3	2	Fully Attained	NA
	Advances in Remote Sensing and Advanced Techniques in Spatial Data Processing	2132PGIARST	3.8	2	Fully Attained	NA
	Advances in GIS	2133PGIGIS	2.6	2	Fully Attained	NA
	Web Designing	2134PGWDS	2.4	2	Fully Attained	NA
	Project	2135PGIPRJ	3.4	2	Fully Attained	NA
	COIST	223PGECT	-	-	NA	NA
	Geo informatics and Health Care	2141PGIGHC	3.8	2	Fully Attained	NA
IV	Database Management Systems	2142PGIDMS	1.2	2	Not Attained	Assignments, tutorials, exercises

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						and remedial coaching shall be planned.
	Dissertation	2143PGIDISN	2	2	Fully Attained	NA
	Certificate Course in QGIS	224PGIQG	-	-	NA	NA
		Average	3.15			

NA: Not Applicable as target level is fully attained/ Semester II is not conducted so far as course begins very late due to pandemic.

**Table No. P.2a: PO Attainment Level-Master of Science (Geoinformatics)-
M.Sc.(Geoinformatics) Academic Year-2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A 2022-23	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. P.3: Results of CO-PO attainment-
Master of Science (Geoinformatics)-M.Sc.(Geoinformatics) Academic Year-2022-23**

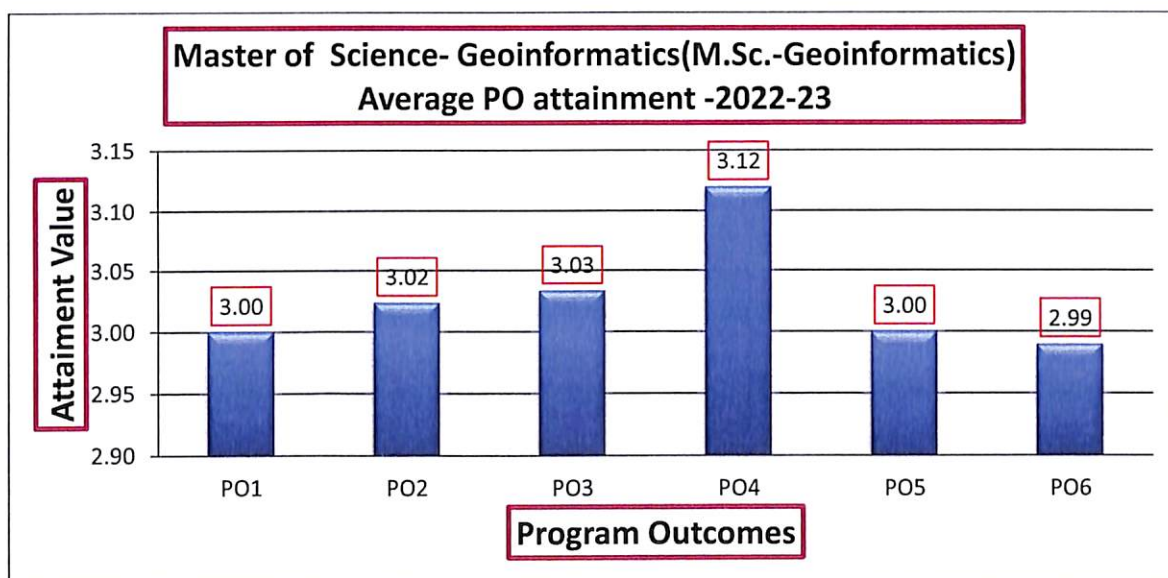
SEM	Course Name	Course Code	PROGRAMME OUTCOME					
			PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Fundamentals of Remote Sensing	2211PGIFRS	2.8		2.8	2.8	2.8	2.8
	Fundamentals of the Earth's System	2212PGIFES	4.4	4.4	4.4		4.4	
	Fundamentals of Mathematics	2213PGIFMS	2.4	2.4	2.4	2.4	2.4	2.4
	Fundamentals of Computers	2214PGIFCM	3.2	3.2	3.2	3.2	3.2	3.2
	Tools and Techniques in Geo informatics - I	2215PGITTG	3	3	3	3	3	3
	Tools and Techniques in Geo informatics – II	2216PGITTG	4	4	4	4	4	4
	Soft Skills for Professionals	221PGISS				5		
Sem 2	Geo Environmental Science and Remote Sensing	2221PGIERS	3.2	3.2	3.2	3.2	3.2	3.2
	Spatial Analysis on Statistical Methods	2222PGISAS	3.2		3.2	3.2	3.2	3.2
	Digital Image Processing	2223PGIDIP		4.6		4.6		4.6

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	Programming with Python	2224PGIPPY		3.2	3.2	3.2		3.2
	Tools and Techniques in Geo informatics – III	2225PGITTG	3	3	3	3	3	3
	Tools and Techniques in Geoinformatics – IV	2226PGITTG	2	2	2	2	2	2
	Internship	222PGIIP	3	3	3	3	3	3
Sem 3	Research Methodology	2131PGIRMY	3		3	3		
	Advances in Remote Sensing and Advanced Techniques in Spatial Data Processing	2132PGIARST	3.8	3.8	3.8	3.8	3.8	3.8
	Advances in GIS	2133PGIGIS	2.6	2.6		2.6	2.6	2.6
	Web Designing	2134PGWDS		2.4				2.4
	Project	2135PGIPRJ	3.4	3.4	3.4	3.4	3.4	3.4
	COIST	223PGECT	*			*		*
Sem 4	Geo informatics and Health Care	2141PGIGHC	3.8		3.8	3.8	3.8	3.8
	Database Management Systems	2142PGIDMS	1.2	1.2	1.2	1.2	1.2	1.2
	Dissertation	2143PGIDISN	2	2	2	2	2	2
	Certificate Course in QGIS	224PGIQG	-	-	-	-	-	-
	AVERAGE		3.00	3.02	3.03	3.12	3.00	2.99



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


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ANNEXTURE Q
Bachelor of Management Studies in E-Commerce Operations
Table No. Q.1: PO CO Mapping Matrix: BMS. (E-Commerce)
Academic Year – 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Foundation Course	2011UEOFC	*	*	*	*		
	Statistics for Data Analysis	2012UEOSDA	*	*	*		*	
	Analysing Financial Accounting Statements	2013UEOFAS	*	*			*	*
	Inventory Management	2014UEOIM	*			*	*	*
	Introduction to E Commerce Logistics	2015UEOIEL	*	*	*		*	
	Word & Presentation Tools – Practical	2016UEOWP	*	*	*			
	Communicative English - Practical	2017UEOCE	*	*	*	*		*
Sem 2	Organization Behavior	2021UEOOB	*	*		*	*	
	Environmental Studies	2022UEOES	*	*				
	Quantitative Techniques	2023UEOQT	*	*			*	
	Warehouse Management	2024UEOWM	*		*	*	*	*
	Material Handling	2025UEOMH	*	*		*	*	*
	First Mile Operations	2026UEOFMO	*	*			*	*
	Analysis using Spreadsheet – Practical	2027UEODAS	*	*	*		*	*
Sem 3	Cost Accounting	2131UEOCA	*	*			*	
	Marketing Management	2132UEOMM	*		*	*		*
	MIS for E Commerce	2133UEOMS	*		*		*	*
	E Commerce Logistics Operations	2134UEOLO	*		*		*	*

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	Transportation for E Commerce	2135UEOTEC	*	*			*	*
	Reverse Logistics for E Commerce	2136UEORLC	*			*	*	*
	Last Mile Operations	2137UEOLMO	*	*			*	*
Sem 4	Management Accounting	2141UEOMA	*	*		*	*	
	Human Resources Management	2142UEOHRM	*	*	*	*		*
	Hub & Line Operations	2143UEOHLO	*	*		*		*
	E Commerce Customer Service	2144UEOCS	*	*		*	*	*
	Outsourcing in E Commerce	2145UEOOS	*				*	*
	Fulfilment Operations	2146UEOFO	*				*	
	Packaging for E Commerce	2147UEOPEC	*	*		*		*
Sem 5	Entrepreneurship	2251UEOER	*	*	*	*	*	*
	GIS Applications in Logistics	2252UEOGL	*		*		*	*
	Digital Marketing	2253UEODM	*	*	*	*	*	*
	Soft Skills for Professionals	2254UEOSS	*	*	*	*	*	*
	Retailing and Store Operations	2255UEORS			*	*	*	*
	Sales and Distribution Management	2255UEOSD			*	*	*	*
	Analytical Skills for Managers	2256UEOAS	*	*			*	*
Sem 6	Brand Management	2261UEOBM			*	*	*	*
	Internship	2262UEOIP	*	*	*	*	*	*

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Table No. Q.2: CO Attainment Level: Bachelor of Management Studies in E-Commerce Operations

Semester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Foundation Course	2011UEOFC	3	2	Fully Attained	NA
	Statistics for Data Analysis	2012UEOSDA	2	2	Fully Attained	NA
	Analysing Financial Accounting Statements	2013UEOFAS	3	2	Fully Attained	NA
	Inventory Management	2014UEOIM	2.4	2	Fully Attained	NA
	Introduction to E Commerce Logistics	2015UEOIEL	4.4	2	Fully Attained	NA
	Word & Presentation Tools – Practical	2016UEOWP	2.8	2	Fully Attained	NA
	Communicative English - Practical	2017UEOCE	2.4	2	Fully Attained	NA
II	Organization Behavior	2021UEOOB	4	2	Fully Attained	NA
	Environmental Studies	2022UEOES	3.4	2	Fully Attained	NA
	Quantitative Techniques	2023UEOQT	3	2	Fully Attained	NA
	Warehouse Management	2024UEOWM	3.8	2	Fully Attained	NA
	Material Handling	2025UEOMH	2.4	2	Fully Attained	NA
	First Mile Operations	2026UEOFMO	3.4	2	Fully Attained	NA
	Analysis using Spreadsheet – Practical	2027UEODAS	3	2	Fully Attained	NA
III	Cost Accounting	2131UEOCA	1.8	2	Not Attained	Assignments, tutorials, exercises and

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						remedial coaching shall be planned.
	Marketing Management	2132UEOMM	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MIS for E Commerce	2133UEOMS	2.4	2	Fully Attained	NA
	E Commerce Logistics Operations	2134UEOLO	3.2	2	Fully Attained	NA
	Transportation for E Commerce	2135UEOTEC	3.8	2	Fully Attained	NA
	Reverse Logistics for E Commerce	2136UEORLC	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Last Mile Operations	2137UEOLMO	2.4	2	Fully Attained	NA
IV	Management Accounting	2141UEOMA	1.8	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Human Resources Management	2142UEOHRM	2.8	2	Fully Attained	NA
	Hub & Line Operations	2143UEOHL O	2.8	2	Fully Attained	NA
	E Commerce Customer Service	2144UEOCS	2.8	2	Fully Attained	NA
	Outsourcing in E Commerce	2145UEOOS	3.2	2	Fully Attained	NA
	Fulfilment Operations	2146UEOFO	3.4	2	Fully Attained	NA
	Packaging for E Commerce	2147UEOPEC	3.2	2	Fully Attained	NA
V	Entrepreneursh	2251UEOER	2.4	2	Fully	NA

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	ip				Attained	
	GIS Applications in Logistics	2252UEOGL	2	2	Fully Attained	NA
	Digital Marketing	2253UEODM	2.4	2	Fully Attained	NA
	Soft Skills for Professionals	2254UEOSS	1.4	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Retailing and Store Operations	2255UEORS	1.6	2	Not Attained	
	Sales and Distribution Management	2255UEOSD	NA	2	NA	NA
	Analytical Skills for Managers	2256UEOAS	1.2	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
VI	Brand Management	2261UEOBM	1	2	Not Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Internship	2262UEOIP	3	2	Fully Attained	NA
		Average	2.64	2		

Table No. Q.2a: PO Attainment Level- Bachelor of Management Studies in E-Commerce Operations - 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
<i>NA: Not Applicable as target level 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.

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10.Planned Actions for Program Outcome Attainment:

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

**Table No. Q.3: Results of CO-PO attainment-
Bachelor of Management Studies in E-Commerce Operations -Academic Year 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
Sem 1	Foundation Course	2011UEOFC	3	3	3	3		
	Statistics for Data Analysis	2012UEOSDA	2	2	2		2	
	Analysing Financial Accounting Statements	2013UEOFAS	3	3			3	3
	Inventory Management	2014UEOIM	2.4			2.4	2.4	2.4
	Introduction to E Commerce Logistics	2015UEOIEL	4.4	4.4	4.4		4.4	
	Word & Presentation Tools – Practical	2016UEOWP	2.8	2.8	2.8			
	Communicative English - Practical	2017UEOCE	2.4	2.4	2.4	2.4		2.4
Sem 2	Organization Behavior	2021UEOOB	4	4		4	4	
	Environmental Studies	2022UEOES	3.4	3.4				
	Quantitative Techniques	2023UEOQT	3	3			3	
	Warehouse Management	2024UEOWM	3.8		3.8	3.8	3.8	3.8
	Material Handling	2025UEOMH	2.4	2.4		2.4	2.4	2.4
	First Mile Operations	2026UEOFMO	3.4	3.4			3.4	3.4
	Analysis using Spreadsheet – Practical	2027UEODAS	3	3	3		3	3
Sem 3	Cost Accounting	2131UEOCA	1.8	1.8			1.8	
	Marketing Management	2132UEOMM	1.8		1.8	1.8		1.8
	MIS for E Commerce	2133UEOMS	2.4		2.4		2.4	2.4
	E Commerce Logistics Operations	2134UEOLO	3.2		3.2		3.2	3.2

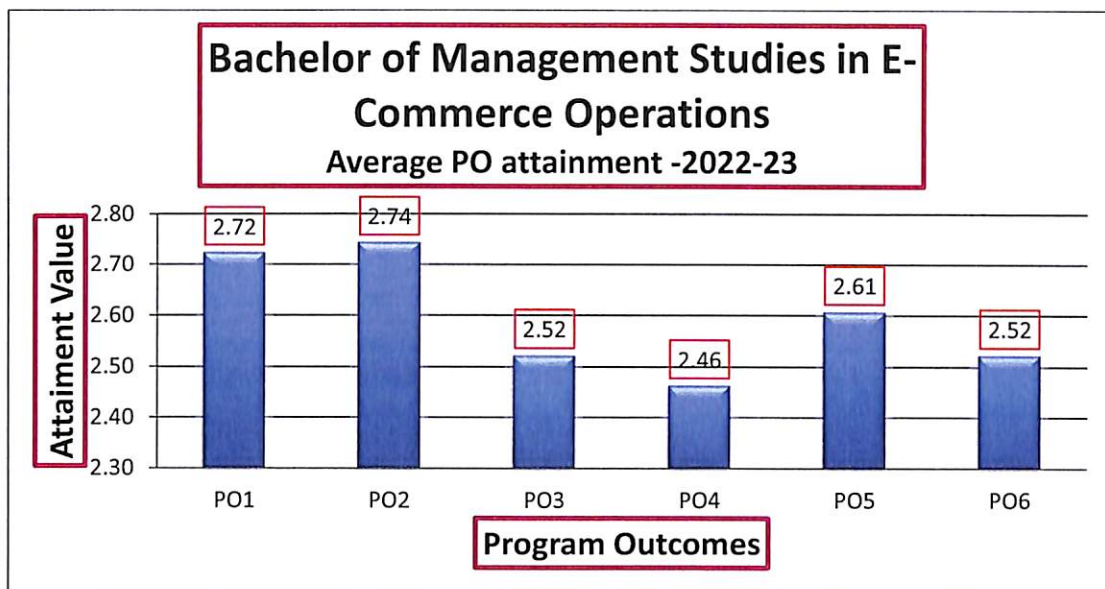
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	Transportation for E Commerce	2135UEOTEC	3.8	3.8			3.8	3.8
	Reverse Logistics for E Commerce	2136UEORLC	1.8			1.8	1.8	1.8
	Last Mile Operations	2137UEOLMO	2.4	2.4			2.4	2.4
Sem 4	Management Accounting	2141UEOMA	1.8	1.8		1.8	1.8	
	Human Resources Management	2142UEOHRM	2.8	2.8	2.8	2.8		2.8
	Hub & Line Operations	2143UEOHLO	2.8	2.8		2.8		2.8
	E Commerce Customer Service	2144UEOCS	2.8	2.8		2.8	2.8	2.8
	Outsourcing in E Commerce	2145UEOOS	3.2				3.2	3.2
	Fulfilment Operations	2146UEOFO	3.4				3.4	
	Packaging for E Commerce	2147UEOPEC	3.2	3.2		3.2		3.2
Sem 5	Entrepreneurship	2251UEOER	2.4	2.4	2.4	2.4	2.4	2.4
	GIS Applications in Logistics	2252UEOGL	2		2		2	2
	Digital Marketing	2253UEODM	2.4	2.4	2.4	2.4	2.4	2.4
	Soft Skills for Professionals	2254UEOSS	1.4	1.4	1.4	1.4	1.4	1.4
	Retailing and Store Operations	2255UEORS			1.6	1.6	1.6	1.6
	Analytical Skills for Managers	2256UEOAS	1.2	1.2			1.2	1.2
Sem 6	Brand Management	2261UEOBM			1	1	1	1
	Internship	2262UEOIP	3	3	3	3	3	3
	Average		2.72	2.74	2.52	2.46	2.61	2.52

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

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ANNEXTURE R

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

**Table No. R.1: PO CO Mapping Matrix:
Bachelor of Management Studies (Sports Management) BMS(SM):
Academic Year-2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	Fundamentals of Sports & New Age Dynamics	2211BSFSD	*			*		*	
	Leadership Principles in Sports	2212BSLPS	*			*		*	*
	Practical Training/Internship	2213BSBPS		*	*	*	*	*	
	Principles of Management	2214BSPOM	*			*			*
	Business Economics	2215BSBEC	*			*			
	Business Communication & Soft Skills	2216BSBCS				*	*		
	Functional English	2217BSBFE					*		
	Personality Development	2218BSPD						*	*
2	Management of Sports Leagues & Teams	2221BSMLT	*			*		*	
	Sports Facilities Planning & Management	2222BSSPF	*			*		*	
	Sports Equipment & Technology Management	2223BSETM	*					*	
	Human Resource Management	2224BSHRM	*			*		*	*
	Marketing Management	2225BSMMT	*			*			
	Practical Training/ Internship	2226BSBPSTA		*	*	*	*	*	*
	Yoga & Ethics	2227BSYE			*				
3	Sports & Entertainment Marketing	1931BSENT	*			*		*	

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	Sports Funding & Financial Management	1932BSSFF	*			*		*	
	Sports Media, Broadcasting & Journalism	1933BSMBJ	*			*		*	
	PR, Sponsorship & Advertising in Sports	1934BSPSA	*			*			
	Sports Event Management	1935BSSEM	*			*		*	*
	Professional Industry Engagement (Training)	1936BSPIE			*	*	*	*	*
4	Brand Management	1941BSBMT	*			*		*	
	Sports Law & Risk Management	1942BSLRM	*					*	
	Global Sports Tourism	1943BSGST	*			*		*	
	Sports Health & Nutrition	1944BSSHNN	*			*			
	Sports Psychology	1945BSPSY	*			*		*	
	Work Based Learning Route (Internship)	1946BSWBL		*	*	*	*	*	*
5	Media Management	2051BSMED	*			*			
	Ethics & Governance	2052BSEGV	*					*	
	International Sports Management	2053BSISM	*			*		*	
	Sports Training & Tactics	2054BSSTT	*			*			*
	Entrepreneurship & Project Management	2055BSEPM	*			*			
	Advanced Practical Sports Management (Internship)	2056BSAPS		*	*	*	*		*
6	Management of Adaptive Sports	2061BSMAS	*					*	
	Soft Skills & Personality Development	2062BSSPD				*	*		
	Case Studies	2063BSCS	*		*				
	Sports & Allied Industry Research	2064BSIEP	*		*		*	*	*
	Final Project and Viva	2065BSFPV		*	*		*		*

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**Table No. R.2: CO Attainment Level: Bachelor of Management Studies – Sports
Management: Academic Year – 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Fundamentals of Sports & New Age Dynamics	2211BSFSD	2.2	2	Fully Attained	NA
	Leadership Principles in Sports	2212BSLPS	3	2	Fully Attained	NA
	Practical Training/Internship*	2213BSBPS	0.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Principles of Management	2214BSPOM	2.4	2	Fully Attained	NA
	Business Economics	2215BSBEC	3	2	Fully Attained	NA
	Business Communication & Soft Skills	2216BSBCS	3	2	Fully Attained	NA
	Functional English	2217BSBFE	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Personality Development	2218BSPD	2	2	Fully Attained	NA
2	Management of Sports Leagues & Teams	2221BSMLT	3	2	Fully Attained	NA
	Sports Facilities Planning & Management	2222BSSPF	2.4	2	Fully Attained	NA
	Sports Equipment & Technology	2223BSETM	3	2	Fully Attained	NA

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	Management					
	Human Resource Management	2224BSHRM	3	2	Fully Attained	NA
	Marketing Management	2225BSMMT	3	2	Fully Attained	NA
	Practical Training/ Internship*	2226BSBPSTA	2	2	Fully Attained	NA
	Yoga & Ethics	2227BSYE	2.6	2	Fully Attained	NA
3	Sports & Entertainment Marketing	1931BSENT	2.6	2	Fully Attained	NA
	Sports Funding & Financial Management	1932BSSFF	2.4	2	Fully Attained	NA
	Sports Media, Broadcasting & Journalism	1933BSMBJ	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	PR, Sponsorship & Advertising in Sports	1934BSPSA	2	2	Fully Attained	NA
	Sports Event Management	1935BSSEM	2.6	2	Fully Attained	NA
	Professional Industry Engagement (Training)*	1936BSPIE	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
4	Brand Management	1941BSBMT	2.4	2	Fully Attained	NA
	Sports Law & Risk Management	1942BSLRM	3.4	2	Fully Attained	NA
	Global Sports Tourism	1943BSGST	3	2	Fully Attained	NA
	Sports Health & Nutrition	1944BSSHAN	3.2	2	Fully Attained	NA
	Sports Psychology	1945BSPSY	3	2	Fully	NA

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					Attained	
	Work Based Learning Route (Internship)	1946BSWBL	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
5	Media Management	2051BSMED	2.2	2	Fully Attained	NA
	Ethics & Governance	2052BSEGV	2.2	2	Fully Attained	NA
	International Sports Management	2053BSISM	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Sports Training & Tactics	2054BSSTT	2.6	2	Fully Attained	NA
	Entrepreneurship & Project Management	2055BSEPM	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Advanced Practical Sports Management (Internship)*	2056BSAPS	3	2	Fully Attained	NA
6	Management of Adaptive Sports	2061BSMAS	3	2	Fully Attained	NA
	Soft Skills & Personality Development	2062BSSPD	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Case Studies	2063BSCS	2.6	2	Fully Attained	NA
	Sports & Allied	2064BSIEP	2	2	Fully	NA

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	Industry Research				Attained	
	Final Project and Viva	2065BSFPV	2	2	Fully Attained	NA
	Average		2.32	2		

NA: Not Applicable as target level is fully attained.

Table No.R.2a: PO Attainment Level- Bachelor of Management Studies – Sports Management: Academic Year – 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	4	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

Table No. R.3: Results of CO-PO attainment- Bachelor of Management Studies – Sports Management - Academic Year 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	Fundamentals of Sports & New Age Dynamics	2211BSFSD	2.2			2.2		2.2	
	Leadership Principles in Sports	2212BSLPS	3			3		3	3
	Practical Training/Internship	2213BSBPS		0.4	0.4	0.4	0.4	0.4	
	Principles of Management	2214BSPOM	2.4			2.4			2.4
	Business Economics	2215BSBEC	3			3			
	Business Communication & Soft Skills	2216BSBCS				3	3		
	Functional English	2217BSBFE					1.6		
	Personality Development	2218BSPD						2	2
2	Management of	2221BSMLT	3			3		3	

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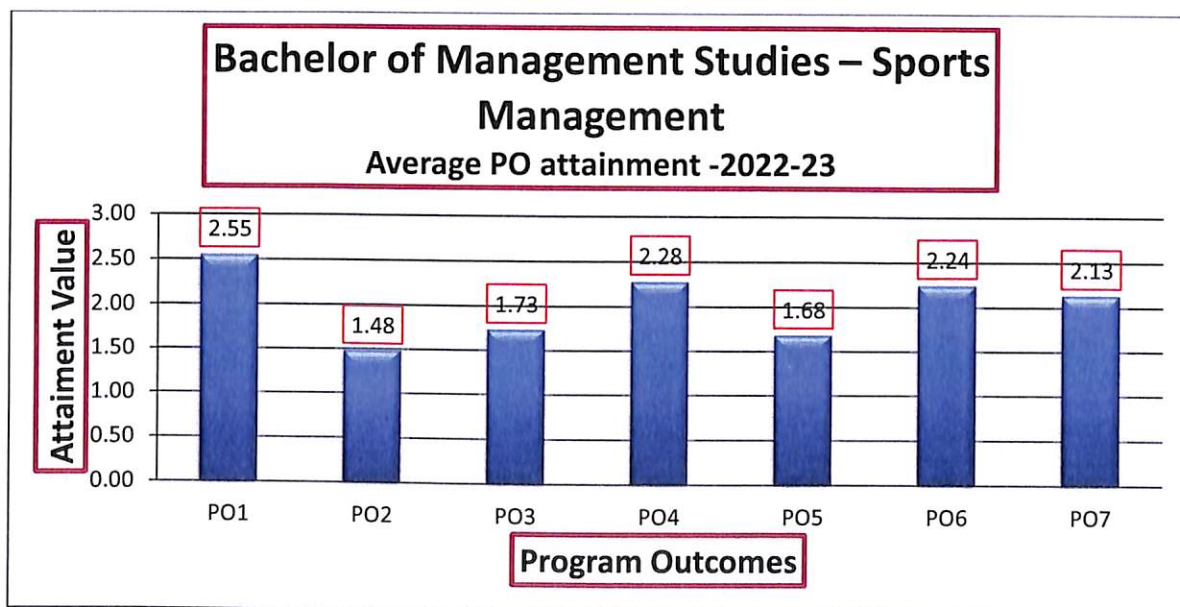
	Sports Leagues & Teams								
	Sports Facilities Planning & Management	2222BSSPF	2.4			2.4		2.4	
	Sports Equipment & Technology Management	2223BSETM	3					3	
	Human Resource Management	2224BSHRM	3			3		3	3
	Marketing Management	2225BSMMT	3			3			
	Practical Training/ Internship	2226BSBPSTA		2	2	2	2	2	2
	Yoga & Ethics	2227BSYE			2.6				
3	Sports & Entertainment Marketing	1931BSENT	2.6			2.6		2.6	
	Sports Funding & Financial Management	1932BSSFF	2.4			2.4		2.4	
	Sports Media, Broadcasting & Journalism	1933BSMBJ	1.4			1.4		1.4	
	PR, Sponsorship & Advertising in Sports	1934BSPSA	2			2			
	Sports Event Management	1935BSSEM	2.6			2.6		2.6	2.6
	Professional Industry Engagement (Training)	1936BSPIE			1	1	1	1	1
4	Brand Management	1941BSBMT	2.4			2.4		2.4	
	Sports Law & Risk Management	1942BSLRM	3.4					3.4	
	Global Sports Tourism	1943BSGST	3			3		3	
	Sports Health & Nutrition	1944BSSHNN	3.2			3.2			
	Sports Psychology	1945BSPSY	3			3		3	
	Work Based Learning Route (Internship)	1946BSWBL		0	0	0	0	0	0
5	Media Management	2051BSMED	2.2			2.2			

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	Ethics & Governance	2052BSEGV	2.2			2.2		2.2	
	International Sports Management	2053BSISM	1.6			1.6		1.6	
	Sports Training & Tactics	2054BSSTT	2.6			2.6			2.6
	Entrepreneurship & Project Management	2055BSEPM	1.6			1.6			
	Advanced Practical Sports Management (Internship)	2056BSAPS		3	3	3	3		3
6	Management of Adaptive Sports	2061BSMAS	3					3	
	Soft Skills & Personality Development	2062BSSPD				1.8	1.8		
	Case Studies	2063BSCS	2.6		2.6				
	Sports & Allied Industry Research	2064BSIEP	2		2		2	2	2
	Final Project and Viva	2065BSFPV		2	2		2		2
		Average	2.55	1.48	1.73	2.28	1.68	2.24	2.13
NA: Not Applicable as target level is fully attained.									



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

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ANNEXURE S
Bachelor of Arts- Honours (Apparel Design) - B.A. Honours (Apparel Design):

Table No. S.1: PO CO Mapping Matrix:
B.A.(Hons.) in Apparel Design and Construction : Academic Year – 2022-23

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
I	Environmental Studies	2111UADHES						*	
	Fashion Studies and Illustration - Part 1	2112UADHFS	*	*	*		*		*
	Pattern Making and Apparel Construction and Kids Wear	2113UADHPM	*	*	*		*	*	*
	Fundamental Textile	2114UADHFT	*	*	*		*	*	*
	History of Indian Costumes and Textile	2115UADHIC	*	*		*	*		
II	Business Communication	2121UADHBC				*		*	
	Personality Development and Styling	2122UADHPD				*		*	*
	Fashion Studies and Illustration - Part 2	2123UADHFS	*	*	*		*		*
	Pattern Making and Apparel Construction - Women's Wear	2124UADHPM	*	*	*		*	*	*
	History of World Costumes	2125UADHWC	*	*		*	*		
	Marketing Management	2126UADHMM					*	*	*
III	Textile Crafts	2231UADHTC	*	*	*		*		*
	Basics in Photography and Videography	2232UADHPG		*		*			*
	Computer aided Designing in	2233UADHCD	*		*	*	*		*

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	Fashion Technology								
	Advanced Apparel Construction - Women's Wear	2234UADHAC	*	*	*		*	*	*
	Advanced Fashion Studies and Illustration	2235UADHFS	*	*	*		*		*
	Textile Design	2236UADHTD	*	*	*		*		*
IV	Fashion Event Management	2241UADHEM				*		*	
	Jewelry Making	2242UADHJM		*	*				
	Draping and Advanced Draping	2243UADHAD	*	*	*		*		*
	Design Process and Craft Research	2244UADHDP	*	*			*		*
	Indian Embroidery	2245UADHIE	*	*	*		*		*
	Advanced Computer Aided Designing in Fashion Technology	2246UADHCD	*		*	*	*		*
V	Internship Project	2251UADHIP	*					*	*
	Computer aided Manufacturing Technique	2252UADHCM	*			*			
	Advanced Apparel Construction Men's Wear and High Fashion Garments	2253UADHAC	*	*	*		*	*	*
	Fashion Retail and E Tail	2254UADHRE				*		*	*
VI	Portfolio and Digital Portfolio	2261UADHPD	*	*	*	*		*	*
	Merchandising	2262UADHMD				*		*	*
	Fashion Show Project	2263UADHFS	*	*	*	*		*	*
	Fashion Branding	2264UADHFB						*	*

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Table No. S.2: CO Attainment Level: B.A.(Hons.) in Apparel Design and Construction

Academic Year – 2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	Environmental Studies	2111UADHES	2	2	Fully Attained	NA
	Fashion Studies and Illustration - Part 1	2112UADHFS	3	2	Fully Attained	NA
	Pattern Making and Apparel Construction and Kids Wear	2113UADHP M	4	2	Fully Attained	NA
	Fundamental Textile	2114UADHFT	3	2	Fully Attained	NA
	History of Indian Costumes and Textile	2115UADHIC	2.4	2	Fully Attained	NA
II	Business Communication	2121UADHB C	3.4	2	Fully Attained	NA
	Personality Development and Styling	2122UADHP D	4	2	Fully Attained	NA
	Fashion Studies and Illustration - Part 2	2123UADHFS	3	2	Fully Attained	NA
	Pattern Making and Apparel Construction - Women's Wear	2124UADHP M	4	2	Fully Attained	NA
	History of World Costumes	2125UADHW C	3	2	Fully Attained	NA
	Marketing Management	2126UADHM M	3.6	2	Fully Attained	NA
III	Textile Crafts	2231UADHT C	2.2	2	Fully Attained	NA
	Basics in Photography and Videography	2232UADHP G	2.8	2	Fully Attained	NA
	Computer aided Designing in Fashion Technology	2233UADHC D	1.8	2	Not fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Apparel	2234UADHA C	2.6	2	Fully Attained	NA

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	Construction - Women's Wear					
	Advanced Fashion Studies and Illustration	2235UADHFS	3.4	2	Fully Attained	NA
	Textile Design	2236UADHTD	2.6	2	Fully Attained	NA
IV	Fashion Event Management	2241UADHEM	3.6	2	Fully Attained	NA
	Jewelry Making	2242UADHJM	3.4	2	Fully Attained	NA
	Draping and Advanced Draping	2243UADHAD	2.4	2	Fully Attained	NA
	Design Process and Craft Research	2244UADHDP	3	2	Fully Attained	NA
	Indian Embroidery	2245UADHIE	1.8	2	Not fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Advanced Computer Aided Designing in Fashion Technology	2246UADHCD	3	2	Fully Attained	NA
V	Internship Project	2251UADHIP	3.2	2	Fully Attained	NA
	Computer aided Manufacturing Technique	2252UADHCM	2	2	Fully Attained	NA
	Advanced Apparel Construction Men's Wear and High Fashion Garments	2253UADHAC	1	2	Not fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned
	Fashion Retail and E Tail	2254UADHRE	2.8	2	Fully Attained	NA
VI	Portfolio and Digital Portfolio	2261UADHPD	2	2	Fully Attained	NA
	Merchandising	2262UADHMD	2	2	Fully Attained	NA
	Fashion Show Project	2263UADHFS	2	2	Fully Attained	NA
	Fashion Branding	2264UADHFB	1.6	2	Not fully Attained	Assignments, tutorials, exercises and

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						remedial coaching shall be planned
		Average	2.73	2		
NA: Not Applicable as target level is fully attained.						

Table No.S.2a: PO Attainment Level- B.A. Honours (Apparel Design) - Academic Year 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

Table No. S. 3: Result of CO-PO attainment – B.A.(Hons.) in Apparel Design and Construction

Semester	Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
I	Environmental Studies	2111UADHES						2	
	Fashion Studies and Illustration - Part 1	2112UADHFS	3	3	3		3		3
	Pattern Making and Apparel Construction and Kids Wear	2113UADHPM	4	4	4		4	4	4
	Fundamental Textile	2114UADHFT	3	3	3		3	3	3
	History of Indian Costumes and Textile	2115UADHIC	2.4	2.4		2.4	2.4		
II	Business Communication	2121UADHBC				3.4		3.4	
	Personality Development and Styling	2122UADHPD				4		4	4

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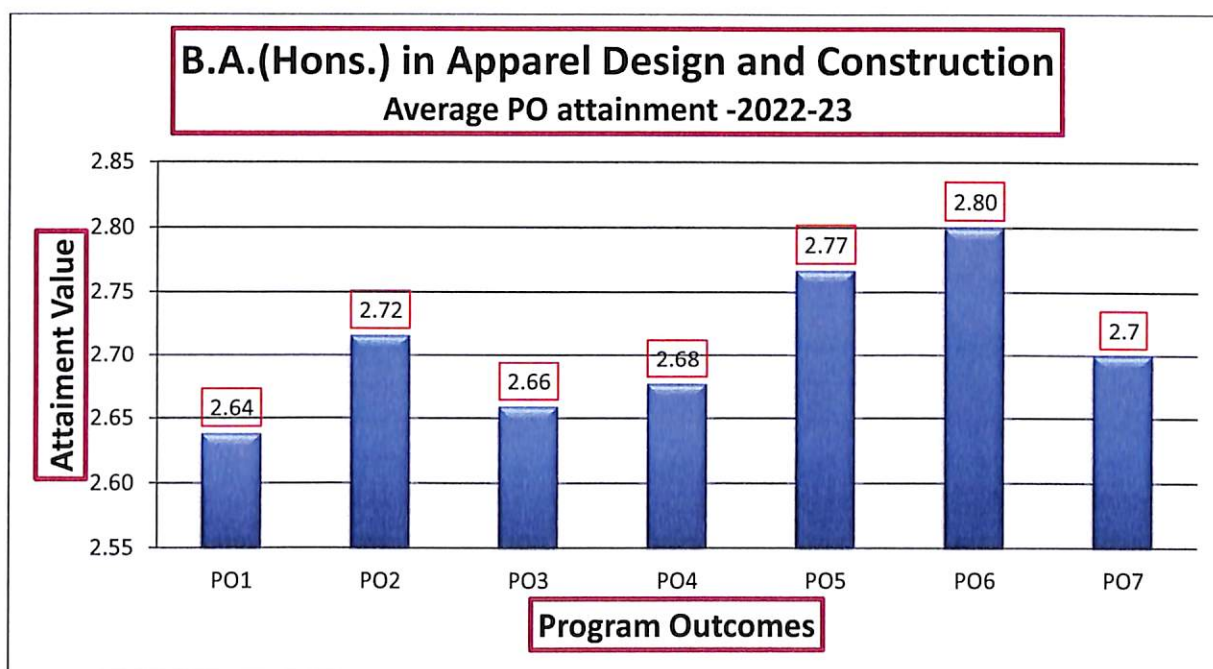
	Fashion Studies and Illustration - Part 2	2123UADHFS	3	3	3		3		3
	Pattern Making and Apparel Construction - Women's Wear	2124UADHP M	4	4	4		4	4	4
	History of World Costumes	2125UADHW C	3	3		3	3		
	Marketing Management	2126UADHM M					3.6	3.6	3.6
III	Textile Crafts	2231UADHTC	2.2	2.2	2.2		2.2		2.2
	Basics in Photography and Videography	2232UADHPG		2.8		2.8			2.8
	Computer aided Designing in Fashion Technology	2233UADHC D	1.8		1.8	1.8	1.8		1.8
	Advanced Apparel Construction - Women's Wear	2234UADHA C	2.6	2.6	2.6		2.6	2.6	2.6
	Advanced Fashion Studies and Illustration	2235UADHFS	3.4	3.4	3.4		3.4		3.4
	Textile Design	2236UADHTD	2.6	2.6	2.6		2.6		2.6
IV	Fashion Event Management	2241UADHE M				3.6		3.6	
	Jewelry Making	2242UADHJM		3.4	3.4				
	Draping and Advanced Draping	2243UADHA D	2.4	2.4	2.4		2.4		2.4
	Design Process and Craft Research	2244UADHDP	3	3			3		3
	Indian Embroidery	2245UADHIE	1.8	1.8	1.8		1.8		1.8
	Advanced Computer Aided Designing in Fashion Technology	2246UADHC D	3		3	3	3		3
V	Internship Project	2251UADHIP	3.2					3.2	3.2
	Computer aided Manufacturing Technique	2252UADHC M	2			2			
	Advanced Apparel Construction	2253UADHA C	1	1	1		1	1	1

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	Men's Wear and High Fashion Garments								
	Fashion Retail and E Tail	2254UADHRE				2.8		2.8	2.8
VI	Portfolio and Digital Portfolio	2261UADHPD	2	2	2	2		2	2
	Merchandising	2262UADHMD				2		2	2
	Fashion Show Project	2263UADHFS	2	2	2	2		2	2
	Fashion Branding	2264UADHFB						1.6	1.6
	Average		2.64	2.72	2.66	2.68	2.77	2.80	2.7



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


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ANNEXURE T

Bachelor of Commerce -Honours (International Accounting) - B.Com.

Honours (International Accounting):

Table No. T.1: PO CO Mapping Matrix: B.Com. Honours (International Accounting)
Academic Year – 2022-23

Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
1	MANAGEMENT ACCOUNTING	2211UCHIMA	*	*			*	
	BUSINESS & TECHNOLOGY	2212UCHIBT		*				
	CAPITAL MARKETS	2213UCHICM	*			*	*	
	MICRO ECONOMICS	2214UCHIME	*	*				
	BUSINESS MATHEMATICS	2214UCHIBM		*		*	*	
	ENVIRONMENTAL STUDIES	2215UCHIES						*
	RESEARCH METHODOLOGY	2216UCHIRM		*	*			
2	FINANCIAL ACCOUNTING	2221UCHIFA	*	*			*	
	PERFORMANCE MANAGEMENT	2222UCHIPM	*	*			*	
	ACCOUNTING WITH TALLY	2223UCHIAT				*	*	
	MACRO ECONOMICS	2224UCHIME	*					*
	BUSINESS STATISTICS	2224UCHIBS	*		*			
	BUSINESS COMMUNICATION	2225UCHIBC		*	*			
	RESEARCH PROJECT	2226UCHIRP		*	*			
3	TAXATION	2131UCHITX	*				*	
	FINANCIAL REPORTING (PART 1)	2132UCHIFR	*				*	
	FINANCIAL REPORTING (PART 2)	2133UCHIFR	*				*	
	CORPORATE AND BUSINESS LAW	2234UCHIBL	*				*	
	TAX PLANNING	2135UCHITP		*			*	
	EXCEL AND ADVANCED EXCEL	2236UCHIEA		*				
4	AUDIT AND ASSURANCE (PART 1)	2241UCHIAA				*	*	
	AUDIT AND ASSURANCE (PART 2)	2142UCHIAA				*	*	

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	FINANCIAL MANAGEMENT (PART 1)	2143UCHIFM	*				*	
	FINANCIAL MANAGEMENT (PART 2)	2144UCHIFM	*				*	
	INTERNSHIP	2245UCHIIS					*	
	FINANCIAL MODELLING	2246UCHIFM			*	*		
5	STRATEGIC BUSINESS REPORTING (PART 1)	2251UCHIBR		*			*	
	STRATEGIC BUSINESS REPORTING (PART 2)	2252UCHIBR		*			*	
	BUSINESS RESEARCH METHODS	2253UCHIRM		*	*			
	COMPANIES ACT, 2013	2254UCHICA	*					
	ADVANCE PERFORMANCE MANAGEMENT	2254UCHIPM		*			*	
6	STRATEGIC BUSINESS LEADER (PART 1)	2261UCHIBL		*	*		*	
	STRATEGIC BUSINESS LEADER (PART 2)	2262UCHIBL		*	*		*	
	RESEARCH - PROJECT WORK	2263UCHIRP		*				
	ADVANCE FINANCIAL MANAGEMENT	2264UCHIFM		*			*	
	GOOD & SERVICES TAX	2264UCHIGS					*	

**Table No. T.2: CO Attainment Level - B.Com. Honours (International Accounting):-
Academic Year 2022-23**

Sem ester	Course	Course code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
I	MANAGEMENT ACCOUNTING	2211UCHIM A	4	2	Fully Attained	NA
	BUSINESS & TECHNOLOGY	2212UCHIBT	3	2	Fully Attained	NA
	CAPITAL MARKETS	2213UCHIC M	3.60	2	Fully Attained	NA
	MICRO ECONOMICS	2214UCHIM E	2.80	2	Fully Attained	NA
	BUSINESS MATHEMATICS	2214UCHIB M	3	2	Fully Attained	NA
	ENVIRONMENTAL STUDIES	2215UCHIES	2.60	2	Fully Attained	NA
	RESEARCH METHODOLOGY	2216UCHIR M	5	2	Fully Attained	NA
II	FINANCIAL	2221UCHIFA	1	2	Not Fully	Assignments,

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	ACCOUNTING				Attained	tutorials, exercises and remedial coaching shall be planned.
	PERFORMANCE MANAGEMENT	2222UCHIP M	2	2	Fully Attained	NA
	ACCOUNTING WITH TALLY	2223UCHIAT	3	2	Fully Attained	NA
	MACRO ECONOMICS	2224UCHIM E	2.4	2	Fully Attained	NA
	BUSINESS STATISTICS	2224UCHIBS	3.4	2	Fully Attained	NA
	BUSINESS COMMUNICATION	2225UCHIBC	2.8	2	Fully Attained	NA
	RESEARCH PROJECT	2226UCHIRP	4	2	Fully Attained	NA
III	TAXATION	2131UCHITX	2	2	Fully Attained	NA
	FINANCIAL REPORTING (PART 1)	2132UCHIFR	3.8	2	Fully Attained	NA
	FINANCIAL REPORTING (PART2)	2133UCHIFR	3.2	2	Fully Attained	NA
	CORPORATE AND BUSINSS LAW	2234UCHIBL	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	TAX PLANNING	2135UCHITP	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	EXCEL AND ADVANCED EXCEL	2236UCHIEA	3	2	Fully Attained	NA
IV	AUDIT AND ASSURANCE (PART 1)	2241UCHIA A	3.4	2	Fully Attained	NA
	AUDIT AND ASSURANCE (PART 2)	2142UCHIA A	2.4	2	Fully Attained	NA
	FINANCIAL MANAGEMENT (PART 1)	2143UCHIF M	2.4	2	Fully Attained	NA
	FINANCIAL MANAGEMENT (PART 2)	2144UCHIF M	2.4	2	Fully Attained	NA
	INTERNSHIP	2245UCHIIS	3	2	Fully Attained	NA
	FINANCIAL	2246UCHIF	2	2	Fully	NA

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	MODELLING	M			Attained	
V	STRATEGIC BUSINESS REPORTING (PART 1)	2251UCHIBR	4.20	2	Fully Attained	NA
	STRATEGIC BUSINESS REPORTING (PART 2)	2252UCHIBR	3.20	2	Fully Attained	NA
	BUSINESS RESEARCH METHODS	2253UCHIRM	3	2	Fully Attained	NA
	COMPANIES ACT, 2013	2254UCHICA	3.20	2	Fully Attained	NA
	ADVANCE PERFORMANCE MANAGEMENT	2254UCHIPM	1.40	2	Not Fully Attained	Assignments, tutorials, exercise and remedial coaching shall be planned.
VI	STRATEGIC BUSINESS LEADER (PART 1)	2261UCHIBL	2.8	2	Fully Attained	NA
	STRATEGIC BUSINESS LEADER (PART 2)	2262UCHIBL	3	2	Fully Attained	NA
	RESEARCH - PROJECT WORK	2263UCHIRP	2	2	Fully Attained	NA
	ADVANCE FINANCIAL MANAGEMENT	2264UCHIFM	2	2	Fully Attained	NA
	GOOD & SERVICES TAX	2264UCHIGS	3	2	Fully Attained	NA
		Average	2.80	2		
NA: Not Applicable as target level is fully attained.						

**Table No.T.2a: PO Attainment Level- B.Com. Honours (International Accounting)-
Academic Year 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

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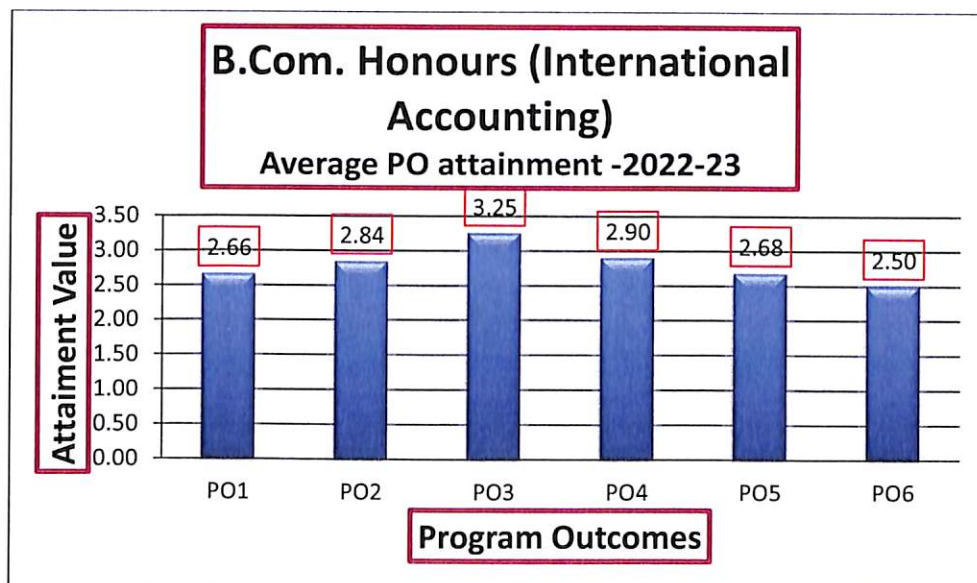
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**Table No. T.3: Results of CO-PO attainment-
B.Com. Honours (International Accounting)
Academic Year – 2022-23**


Semester	Course	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
1	MANAGEMENT ACCOUNTING	2211UCHIMA	4	4			4	
	BUSINESS & TECHNOLOGY	2212UCHIBT		3				
	CAPITAL MARKETS	2213UCHICM	3.60			3.60	3.60	
	MICRO ECONOMICS	2214UCHIME	2.80	2.80				
	BUSINESS MATHEMATICS	2214UCHIBM		3		3	3	
	ENVIRONMENTAL STUDIES	2215UCHIES						2.60
	RESEARCH METHODOLOGY	2216UCHIRM		5	5			
2	FINANCIAL ACCOUNTING	2221UCHIFA	1	1			1	
	PERFORMANCE MANAGEMENT	2222UCHIPM	2	2			2	
	ACCOUNTING WITH TALLY	2223UCHIAT				3	3	
	MACRO ECONOMICS	2224UCHIME	2.4					2.4
	BUSINESS STATISTICS	2224UCHIBS	3.4		3.4			
	BUSINESS COMMUNICATION	2225UCHIBC		2.8	2.8			
	RESEARCH PROJECT	2226UCHIRP		4	4			
3	TAXATION	2131UCHITX	2				2	
	FINANCIAL REPORTING (PART 1)	2132UCHIFR	3.8				3.8	
	FINANCIAL REPORTING (PART 2)	2133UCHIFR	3.2				3.2	
	CORPORATE AND BUSINESS LAW	2234UCHIBL	1				1	
	TAX PLANNING	2135UCHITP		1.8			1.8	
	EXCEL AND ADVANCED EXCEL	2236UCHIEA		3				
4	AUDIT AND ASSURANCE (PART 1)	2241UCHIAA				3.4	3.4	
	AUDIT AND ASSURANCE (PART 2)	2142UCHIAA				2.4	2.4	
	FINANCIAL MANAGEMENT (PART 1)	2143UCHIFM	2.4				2.4	
	FINANCIAL MANAGEMENT (PART 2)	2144UCHIFM	2.4				2.4	

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	INTERNSHIP	2245UCHIIS					3	
	FINANCIAL MODELLING	2246UCHIFM			2	2		
5	STRATEGIC BUSINESS REPORTING (PART 1)	2251UCHIBR		4.20			4.20	
	STRATEGIC BUSINESS REPORTING (PART 2)	2252UCHIBR		3.20			3.20	
	BUSINESS RESEARCH METHODS	2253UCHIRM		3	3			
	COMPANIES ACT, 2013	2254UCHICA	3.20					
	ADVANCE PERFORMANCE MANAGEMENT	2254UCHIPM		1.40			1.40	
6	STRATEGIC BUSINESS LEADER (PART 1)	2261UCHIBL		2.8	2.8		2.8	
	STRATEGIC BUSINESS LEADER (PART 2)	2262UCHIBL		3	3		3	
	RESEARCH - PROJECT WORK	2263UCHIRP		2				
	ADVANCE FINANCIAL MANAGEMENT	2264UCHIFM		2			2	
	GOOD & SERVICES TAX	2264UCHIGS					3	
	Average		2.66	2.84	3.25	2.90	2.68	2.50



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


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ANNEXTURE U

B.B.A. (Honours) in Tourism & Travel Management

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

B.B.A. (Honours) in Tourism & Travel Management: Academic Year – 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Principles & Practices of Travel & Tourism	2011UHTMPT	*		*	*	*	*
	Tourism Geography	2012UHTMTG	*		*	*		
	Principles of Management	2013UHTMPM		*		*		*
	Human Resources Management	2014UHTMHR				*		*
	Business Communication	2015UHTMBC		*				*
	Practical Training/ Internship	2016UHTMPT				*	*	*
2	International Tourism	2021UHTMIT	*		*	*	*	*
	Tourism Products	2022UHTMTP	*		*		*	
	Tour Itinerary Planning and Design	2023UHTMIP	*	*	*	*	*	*
	Introduction to Accounts and Finance	2024UHTMAF				*		*
	Foreign language (French)	2025UHTMFR		*		*		*
	Practical Training/ Internship	2026UHTMPT				*	*	*
	Environmental Studies	2027UHTMES	*		*		*	
3	Travel Agency and Tour Operations	2131UHTMTA	*	*		*		*
	Travel Documentation	2132UHTMTD	*		*	*	*	*
	Tourism Economics	2133UHTMTE	*			*		*
	Customer Service in the Tourism Industry	2134UHTMCS	*	*				
	Digital Marketing & Advertising	2135UHTMDM		*		*		*
	Practical Training/ Internship	2136UHTMIE		*		*		*
	Foreign Language (French)	2137UHTMFR		*				

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4	Legal Aspects of Travel & Tourism	2141UHTMLA	*		*		*	
	Tourism & Transport	2142UHTMTT	*			*		
	Tourism & Technology	2143UHTMTE	*	*		*		
	Hospitality Management	2144UHTMHM	*	*		*		*
	Corporate Communication & Public Relations	2145UHTMCC		*	*	*	*	*
	Travel Writing and Photography	2146UHTMWP	*	*		*		*
	Practical Training/ Internship	2147UHTMPT				*	*	*
5	Aviation Management	2251UHTMAM	*	*	*			
	Sustainable Tourism	2252UHTMST	*		*		*	
	Project report & Presentation	2253UHTMPJ		*		*		*
	Sports & Adventure Tourism	2254UHTMSA	*		*		*	
	Medical & Wellness Tourism	2255UHTMMW	*					
	Introduction to Research Methods	2256UHTMRM		*			*	
6	Destination Planning	2261UHTMDM	*		*		*	
	MICE	2262UHTMMC	*		*		*	
	Tourism Marketing	2263UHTMTM	*	*				
	Capstone Project	2264UHTMPJ		*		*		*
	Air Fares and Ticketing	2265UHTMAF	*		*		*	

**Table No. U.2: CO Attainment Level: B.B.A.(Honours) in Tourism & Travel Management
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Principles & Practices of Travel & Tourism	2011UHTMPT	2	2	Fully Attained	NA
	Tourism Geography	2012UHTMTG	3.6	2	Fully Attained	NA
	Principles of Management	2013UHTMPM	3	2	Fully Attained	NA
	Human Resources	2014UHTMH	2.4	2	Fully Attained	NA


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	Management	R				
	Business Communication	2015UHTMBC	2.4	2	Fully Attained	NA
	Practical Training/ Internship*	2016UHTMPT	2.4	2	Fully Attained	NA
2	International Tourism	2021UHTMIT	2.8	2	Fully Attained	NA
	Tourism Products	2022UHTMTP	2.4	2	Fully Attained	NA
	Tour Itinerary Planning and Design	2023UHTMIP	3	2	Fully Attained	NA
	Introduction to Accounts and Finance	2024UHTMAF	2.2	2	Fully Attained	NA
	Foreign language (French)*	2025UHTMFR	4	2	Fully Attained	NA
	Practical Training/ Internship*	2026UHTMPT	4	2	Fully Attained	NA
	Environmental Studies	2027UHTMES	4	2	Fully Attained	NA
3	Travel Agency and Tour Operations	2131UHTMTA	1.8	2	Not Fully Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	Travel Documentation	2132UHTMTD	3	2	Fully Attained	NA
	Tourism Economics	2133UHTMTE	3.2	2	Fully Attained	NA
	Customer Service in the Tourism Industry	2134UHTMCS	2.2	2	Fully Attained	NA
	Digital Marketing & Advertising	2135UHTMDM	1.8	2	Not Fully Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	Practical Training/	2136UHTMIE	1	2	Not	Assignments

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	Internship*				Fully Attained	, tutorials, exercises and remedial coaching shall be planned.
	Foreign Language (French)*	2137UHTMFR	3	2	Fully Attained	NA
4	Legal Aspects of Travel & Tourism	2141UHTMLA	2	2	Fully Attained	NA
	Tourism & Transport	2142UHTMTT	3.2	2	Fully Attained	NA
	Tourism & Technology	2143UHTMTE	2.4	2	Fully Attained	NA
	Hospitality Management	2144UHTMHM	2.4	2	Fully Attained	NA
	Corporate Communication & Public Relations	2145UHTMCC	1.8	2	Not Fully Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	Travel Writing and Photography*	2146UHTMW P	1.4	2	Not Fully Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
	Practical Training/ Internship	2147UHTMPT	1.4	2	Not Fully Attained	Assignments , tutorials, exercises and remedial coaching shall be planned.
5	Aviation Management	2251UHTMAM	2.8	2	Fully Attained	NA
	Sustainable Tourism	2252UHTMST	4	2	Fully Attained	NA
	Project report & Presentation*	2253UHTMPJ	2	2	Fully Attained	NA

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	Sports & Adventure Tourism	2254UHTMS A	2.8	2	Fully Attained	NA
	Medical & Wellness Tourism	2255UHTMM W	2.8	2	Fully Attained	NA
	Introduction to Research Methods	2256UHTMR M	2.8	2	Fully Attained	NA
6	Destination Planning	2261UHTMD M	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	MICE	2262UHTMM C	0.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Tourism Marketing	2263UHTMT M	3.2	2	Fully Attained	NA
	Capstone Project*	2264UHTMPJ	4	2	Fully Attained	NA
	Air Fares and Ticketing	2265UHTMA F	2	2	Fully Attained	NA
		Average	2.57	2		

Table No.U.2a: PO Attainment Level -B.B.A.(Honours) in Tourism & Travel Management -2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10. Planned Actions for Program Outcome Attainment:

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

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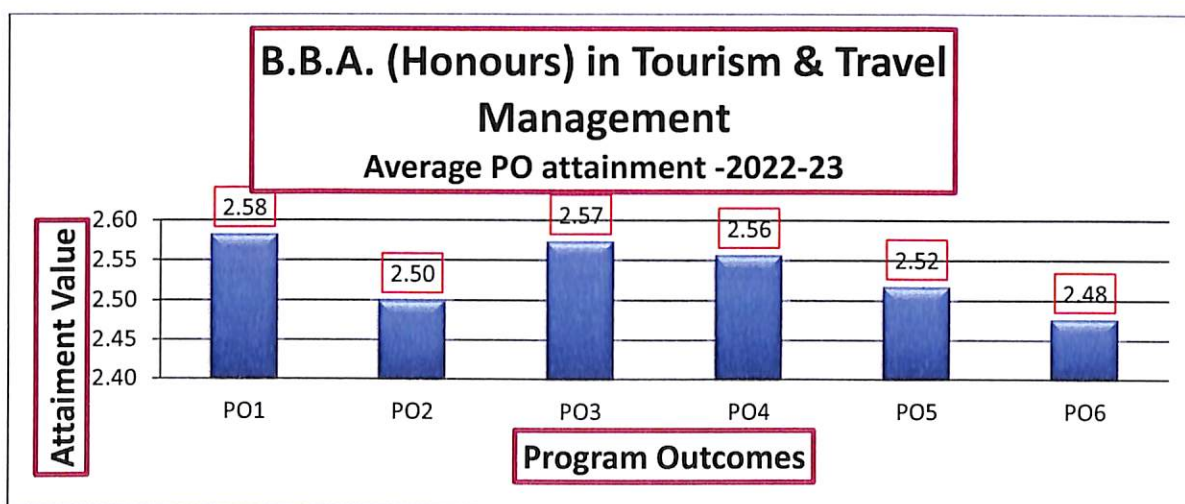
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**Table No. U.3: Results of CO-PO attainment-
B.B.A.(Honours) in Tourism & Travel Management -2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Principles & Practices of Travel & Tourism	2011UHTMPT	2		2	2	2	2
	Tourism Geography	2012UHTMTG	3.6		3.6	3.6		
	Principles of Management	2013UHTMPM		3		3		3
	Human Resources Management	2014UHTMHR				2.4		2.4
	Business Communication	2015UHTMBC		2.4				2.4
	Practical Training/ Internship	2016UHTMPT				2.4	2.4	2.4
2	International Tourism	2021UHTMIT	2.8		2.8	2.8	2.8	2.8
	Tourism Products	2022UHTMTP	2.4		2.4		2.4	
	Tour Itinerary Planning and Design	2023UHTMIP	3	3	3	3	3	3
	Introduction to Accounts and Finance	2024UHTMAF				2.2		2.2
	Foreign language (French)	2025UHTMFR		4		4		4
	Practical Training/ Internship	2026UHTMPT				4	4	4
	Environmental Studies	2027UHTMES	4		4		4	
3	Travel Agency and Tour Operations	2131UHTMTA	1.8	1.8		1.8		1.8
	Travel Documentation	2132UHTMTD	3		3	3	3	3
	Tourism Economics	2133UHTMTE	3.2			3.2		3.2
	Customer Service in the Tourism Industry	2134UHTMCS	2.2	2.2				
	Digital Marketing & Advertising	2135UHTMDM		1.8		1.8		1.8
	Practical Training/ Internship	2136UHTMIE		1		1		1
	Foreign Language (French)	2137UHTMFR		3				
4	Legal Aspects of Travel & Tourism	2141UHTMLA	2		2		2	
	Tourism & Transport	2142UHTMTT	3.2			3.2		
	Tourism & Technology	2143UHTMTE	2.4	2.4		2.4		
	Hospitality Management	2144UHTMHM	2.4	2.4		2.4		2.4
	Corporate	2145UHTMCC		1.8	1.8	1.8	1.8	1.8


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	Communication & Public Relations						
	Travel Writing and Photography	2146UHTMWP	1.4	1.4		1.4	1.4
	Practical Training/ Internship	2147UHTMPT				1.4	1.4
5	Aviation Management	2251UHTMAM	2.8	2.8	2.8		
	Sustainable Tourism	2252UHTMST	4		4		4
	Project report & Presentation	2253UHTMPJ		2		2	2
	Sports & Adventure Tourism	2254UHTMSA	2.8		2.8		2.8
	Medical & Wellness Tourism	2255UHTMMW	2.8				
	Introduction to Research Methods	2256UHTMRM		2.8			2.8
6	Destination Planning	2261UHTMDM	1.6		1.6		1.6
	MICE	2262UHTMMC	0.8		0.8		0.8
	Tourism Marketing	2263UHTMTM	3.2	3.2			
	Capstone Project	2264UHTMPJ		4		4	4
	Air Fares and Ticketing	2265UHTMAF	2		2		2
	Average		2.58	2.50	2.57	2.56	2.52
						2.48	



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

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ANNEXTURE V
B.Sc. (Honours) in Integrative Nutrition & Dietetics

Table No. V.1: PO CO Mapping Matrix:
B.Sc. (Honours) in Integrative Nutrition & Dietetics Academic Year - 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Food Nutrition - I	2011UHNDFN	*					
	Food Nutrition - I (Practicals)	2011UHNDFNP	*	*				
	Nutrition Science - I	2012UHNDNS	*		*		*	
	Nutrition Science - I (Practicals)	2012UHNDNSP		*				*
	Community Nutrition - I	2013UHNDNCN	*		*		*	
	Community Nutrition - I (Practicals)	2013UHNDNCNP		*			*	*
	Healthy Cooking	2014UHNDHC	*		*		*	
	Functional English	2015UHNDFE		*		*	*	*
	Personality Development Skills	2016UHNDPD		*		*	*	*
2	Food Nutrition - II	2021UHNDFN	*		*			
	Food Nutrition - II (Practicals)	2021UHNDFNP		*		*	*	*
	Nutrition Science - II	2022UHNDNS	*		*		*	
	Nutrition Science - II (Practicals)	2022UHNDNSP		*		*	*	*
	Community Nutrition – II	2023UHNDNCN	*		*		*	
	Physiology – I	2024UHNDPH	*				*	
	Physiology - I (Practicals)	2024UHNDPHP		*			*	
	Environmental Studies	2025UHNDDES		*	*		*	
	Communication & Counselling Skills - I	2026UHNDCC		*		*	*	*
3	Introduction to Food Planning	2131UHNDFP	*		*			
	Food Chemistry	2132UHNDFC		*		*	*	*
	Food Processing & Preservation - I	2133UHNDFP	*		*		*	
	Physiology - II	2134UHNDPH		*		*	*	*
	Communication & Counselling Skills - II	2135UHNDACS	*		*		*	

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	Information Communication & Technology	2136UHNDICT		*			*	
	Practical Training/Internship	2137UHNDIE		*		*		*
	Selling Skills	2138UHNDSE				*	*	*
4	Fundamentals of Biochemistry	2141UHNDFB	*		*			
	Clinical Biochemistry	2142UHNDCEB		*		*	*	*
	Food Processing & Preservation – II	2143UHNDFPP	*		*		*	
	Food Processing & Preservation - II (Practicals)	2143UHNDFPR		*		*	*	*
	Nutrition across Lifecycle	2144UHNDNL	*		*		*	
	Nutrition across Lifecycle (Practicals)	2144UHNDNLP		*		*	*	*
	Physiology - III	2145UHNDPH	*	*		*	*	*
	Entrepreneurship & Management	2146UHNDDEM		*			*	*
	Yoga & Ethics	2147UHNDYE					*	*
5	Clinical Nutrition - I	2251UHNDCEB	*		*			
	Clinical Nutrition - I (Practicals)	2251UHNDCEB		*		*	*	*
	Diet Therapy - I	2252UHNDDET	*		*		*	
	Diet Therapy - I (Practicals)	2252UHNDDET		*		*	*	*
	Nutrition, Exercise and Fitness - I	2253UHNDNEF	*		*		*	
	Physiology - IV	2254UHNDPH		*		*	*	*
	Practical Training/Internship	2255UHNDIE		*		*	*	*
	Effective Presentation Skills	2256UHNDPS		*	*	*	*	*
6	Lifestyle Pillars	2261UHNDLP	*		*			
	Clinical Nutrition - II	2262UHNDCEB		*		*	*	*
	Diet Therapy - II	2263UHNDDET	*		*		*	
	Diet Therapy - II (Practicals)	2263UHNDDET		*		*	*	*
	Nutrition, Exercise and	2264UHNDNEF	*		*		*	

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	Fitness - II						
	Yoga and Exercise	2265UHNDYE				*	*
	Practical Training/Internship	2266UHNDPT		*		*	*
	Human Rights & Indian Constitutions	2267UHNDHI			*	*	*

Table No. V.2: CO Attainment Level: B.Sc. (Honours) in Integrative Nutrition & Dietetics Academic Year - 2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Food Nutrition - I	2011UHNDFN	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Food Nutrition - I (Practicals)	2011UHNDFNP	4	2	Fully Attained	NA
	Nutrition Science - I	2012UHNDNS	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Nutrition Science - I (Practicals)	2012UHNDNSP	3	2	Fully Attained	NA
	Community Nutrition - I	2013UHNDNCN	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Community Nutrition - I (Practicals)	2013UHNDNCNP	2.8	2	Fully Attained	NA
	Healthy Cooking	2014UHNDHC	2.8	2	Fully Attained	NA
	Functional English	2015UHNDFE	3.4	2	Fully Attained	NA
	Personality Development Skills	2016UHNDPD	3.6	2	Fully Attained	NA
2	Food Nutrition - II	2021UHNDFN	2.4	2	Fully Attained	NA

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	Food Nutrition - II (Practicals)	2021UHND FNP	3.4	2	Fully Attained	NA
	Nutrition Science - II	2022UHNDNS	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Nutrition Science - II (Practicals)	2022UHNDNSP	3	2	Fully Attained	NA
	Community Nutrition – II	2023UHND CN	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Physiology – I	2024UHND PH	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Physiology - I (Practicals)	2024UHND PHP	3	2	Fully Attained	NA
	Environmental Studies	2025UHND ES	4	2	Fully Attained	NA
	Communication & Counselling Skills - I	2026UHND CC	3.6	2	Fully Attained	NA
3	Introduction to Food Planning	2131UHND FP	2.4	2	Fully Attained	NA
	Food Chemistry	2132UHND FC	2.4	2	Fully Attained	NA
	Food Processing & Preservation - I	2133UHND FP	3	2	Fully Attained	NA
	Physiology - II	2134UHND PH	3.6	2	Fully Attained	NA
	Communication & Counselling Skills - II	2135UHND CS	2.4	2	Fully Attained	NA
	Information Communication & Technology	2136UHND ICT	3	2	Fully Attained	NA
	Practical Training/Internship	2137UHND IE	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial

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						coaching shall be planned.
	Selling Skills	2138UHNDSE	3	2	Fully Attained	NA
4	Fundamentals of Biochemistry	2141UHNDFB	2.8	2	Fully Attained	NA
	Clinical Biochemistry	2142UHNDCEB	3.4	2	Fully Attained	NA
	Food Processing & Preservation – II	2143UHNDFFPP	2.4	2	Fully Attained	NA
	Food Processing & Preservation - II (Practicals)	2143UHNDFFPR	4	2	Fully Attained	NA
	Nutrition across Lifecycle	2144UHNDNL	3.4	2	Fully Attained	NA
	Nutrition across Lifecycle (Practicals)	2144UHNDNLP	3	2	Fully Attained	NA
	Physiology - III	2145UHNDPH	3	2	Fully Attained	NA
	Entrepreneurship & Management	2146UHNDPM	3	2	Fully Attained	NA
	Yoga & Ethics	2147UHNDYE	2.4	2	Fully Attained	NA
5	Clinical Nutrition - I	2251UHNDN	2.4	2	Fully Attained	NA
	Clinical Nutrition - I (Practicals)	2251UHNDNCP	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Diet Therapy - I	2252UHNDT	2.6	2	Fully Attained	NA
	Diet Therapy - I (Practicals)	2252UHNDTTP	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Nutrition, Exercise and Fitness - I	2253UHNDNEF	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.

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	Physiology - IV	2254UHNDPH	2.4	2	Fully Attained	NA
	Practical Training/Internship	2255UHNDIE	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Effective Presentation Skills	2256UHNDPS	3	2	Fully Attained	NA
6	Lifestyle Pillars	2261UHNDLP	2	2	Fully Attained	NA
	Clinical Nutrition - II	2262UHND CN	2.4	2	Fully Attained	NA
	Diet Therapy - II	2263UHND DT	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Diet Therapy - II (Practicals)	2263UHND DTP	2	2	Fully Attained	NA
	Nutrition, Exercise and Fitness - II	2264UHND EF	2.8	2	Fully Attained	NA
	Yoga and Exercise	2265UHND YE	2.8	2	Fully Attained	NA
	Practical Training/Internship	2266UHND PT	4	2	Fully Attained	NA
	Human Rights & Indian Constitutions	2267UHND HI	2.8	2	Fully Attained	NA
	Average		2.62	2		

NA: Not Applicable as target level is fully attained.

Table No.V.2a: PO Attainment Level- B.Sc. (Honours) in Integrative Nutrition & Dietetics Academic Year - 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	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.

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10.Planned Actions for Program Outcome Attainment:

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

**Table No. V.3: Results of CO-PO attainment-
B.Sc. (Honours) in Integrative Nutrition & Dietetics Academic Year - 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Food Nutrition - I	2011UHNDNFN	1.8					
	Food Nutrition - I (Practicals)	2011UHNDFNPN	4	4				
	Nutrition Science - I	2012UHNDNS	1.2		1.2		1.2	
	Nutrition Science - I (Practicals)	2012UHNDNSP		3				3
	Community Nutrition - I	2013UHNDNCN	1.4		1.4		1.4	
	Community Nutrition - I (Practicals)	2013UHNDNCP		2.8			2.8	2.8
	Healthy Cooking	2014UHNDHNC	2.8		2.8		2.8	
	Functional English	2015UHNDNFE		3.4		3.4	3.4	3.4
	Personality Development Skills	2016UHNDNPD		3.6		3.6	3.6	3.6
2	Food Nutrition - II	2021UHNDNFN	2.4		2.4			
	Food Nutrition - II (Practicals)	2021UHNDFNPN		3.4		3.4	3.4	3.4
	Nutrition Science - II	2022UHNDNS	1.8		1.8		1.8	
	Nutrition Science - II (Practicals)	2022UHNDNSP		3		3	3	3
	Community Nutrition – II	2023UHNDNCN	1.8		1.8		1.8	
	Physiology – I	2024UHNDNPH	1.2				1.2	
	Physiology - I (Practicals)	2024UHNDNPHP		3			3	
	Environmental Studies	2025UHNDNES		4	4		4	
	Communication & Counselling Skills - I	2026UHNDNCC		3.6		3.6	3.6	3.6
3	Introduction to Food Planning	2131UHNDNFP	2.4		2.4			
	Food Chemistry	2132UHNDNFC		2.4		2.4	2.4	2.4
	Food Processing & Preservation - I	2133UHNDNFP	3		3		3	
	Physiology - II	2134UHNDNPH		3.6		3.6	3.6	3.6
	Communication &	2135UHNDNCS	2.4		2.4		2.4	

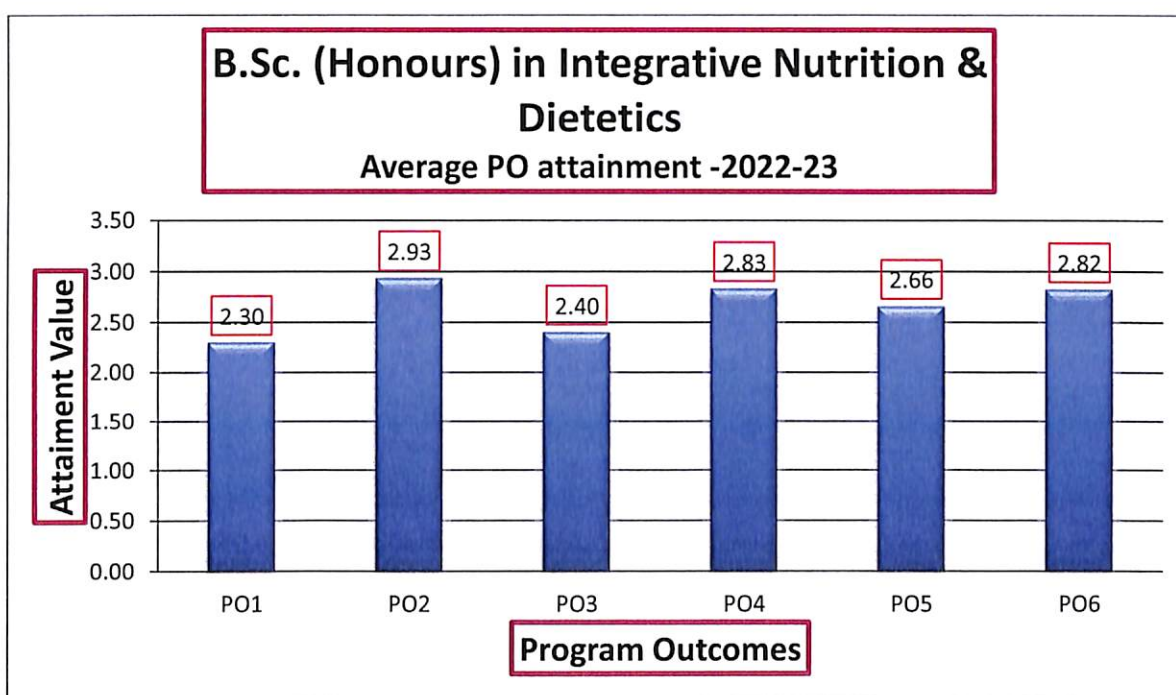
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	Counselling Skills - II							
	Information Communication & Technology	2136UHNDICT		3			3	
	Practical Training/Internship	2137UHNDIE		1.4		1.4		1.4
	Selling Skills	2138UHNDSE				3	3	3
4	Fundamentals of Biochemistry	2141UHNDFB	2.8		2.8			
	Clinical Biochemistry	2142UHNDCEB		3.4		3.4	3.4	3.4
	Food Processing & Preservation – II	2143UHNDFFPP	2.4		2.4		2.4	
	Food Processing & Preservation - II (Practicals)	2143UHNDFFPR		4		4	4	4
	Nutrition across Lifecycle	2144UHNDNL	3.4		3.4		3.4	
	Nutrition across Lifecycle (Practicals)	2144UHNDNLP		3		3	3	3
	Physiology - III	2145UHNDPH	3	3		3	3	3
	Entrepreneurship & Management	2146UHNDPM		3			3	3
	Yoga & Ethics	2147UHNDYE					2.4	2.4
5	Clinical Nutrition - I	2251UHNDN	2.4		2.4			
	Clinical Nutrition - I (Practicals)	2251UHNDNCP		1.8		1.8	1.8	1.8
	Diet Therapy - I	2252UHNDDT	2.6		2.6		2.6	
	Diet Therapy - I (Practicals)	2252UHNDDTTP		1.4		1.4	1.4	1.4
	Nutrition, Exercise and Fitness - I	2253UHNDNEF	1.8		1.8		1.8	
	Physiology - IV	2254UHNDPH		2.4		2.4	2.4	2.4
	Practical Training/Internship	2255UHNDIE		1.6		1.6	1.6	1.6
	Effective Presentation Skills	2256UHNDPS		3	3	3	3	3
6	Lifestyle Pillars	2261UHNDLP	2		2			
	Clinical Nutrition - II	2262UHNDN		2.4		2.4	2.4	2.4
	Diet Therapy - II	2263UHNDDT	1.2		1.2		1.2	
	Diet Therapy - II (Practicals)	2263UHNDDTTP		2		2	2	2

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Nutrition, Exercise and Fitness - II	2264UHNDEF	2.8		2.8		2.8	
Yoga and Exercise	2265UHNDYE					2.8	2.8
Practical Training/Internship	2266UHNDPT		4		4	4	4
Human Rights & Indian Constitutions	2267UHNDHI			2.8		2.8	2.8
	Average	2.30	2.93	2.40	2.83	2.66	2.82



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

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ANNEXTURE W

B.Sc. (Honours) in Interior Design

Table No. W.1: PO CO Mapping Matrix:
B.Sc. (Honours) in Interior Design Academic Year - 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Fundamentals of Design - 2 Dimensional	2011UHIDFDP	*	*				
	Residential Interior Design	2012UHIDRIP	*	*			*	
	Foundation of Construction & Building Material	2013UHIDCB	*	*				*
	History of Design - Ancient Civilization	2014UHIDHD	*				*	
	Basics of Graphics & Free Hand Sketching	2015UHIDBG	*	*				
	Workshop - Model Making & Visual Study	2016UHIDWK		*	*			*
	Functional English	2017UHIDFE			*			
	Personality Development Skills	2018UHIDPD			*			*
2	Basics of Design – 3 Dimensional	2021UHIDBDP	*					*
	Interior Design of Villa & Bungalow	2022UHIDVBP	*	*				*
	Advance Technology in Construction & Building Materials	2023UHIDCB	*					
	History of Design - Trends & Movements	2024UHIDHD	*			*	*	
	Advance Methods of Graphics & Free Hand Sketching	2025UHIDGS	*		*			*
	Environmental Studies	2026UHIDES				*	*	
3	Interior Design for Boutique	2131UHIDBT	*		*			*
	Materials & Methods of Construction for Enclosures	2132UHIDCE	*					
	Technical Drawing for Villa & Bungalow	2133UHIDVBD	*	*				
	Technical Services for Villa & Bungalow	2134UHIDVBS	*	*				*
	Communication Skills – I	2135UHIDCS			*			

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	Introduction to Computer Aided Design (CAD)	2136UHIDCAD			*			*
	Selling Skills	2137UHIDSE						*
	Practical Training/Internship	2138UHIDPTI				*	*	*
4	Interior Design for Club House	2141UHIDCH	*	*				*
	Construction Material & Methods for Ceiling & Floor	2142UHIDCF	*	*		*		*
	Technical Drawing for Boutique	2143UHIDBTPR	*	*		*		
	Basics of Plumbing & HVAC System	2144UHIDPH	*	*				
	Practical Training/Internship	2145UHIDPTI				*	*	*
	Advance Computer Aided Design	2146UHIDCAD	*		*			*
	Nutrition & Lifestyle	2147UHIDNL					*	
	Communication Skills – II	2148UHIDCS			*		*	
5	Interior Design of Restaurant	2251UHIDRTPR	*	*			*	*
	Methods & Techniques of Mill Works	2252UHIDMW	*	*			*	
	Fundamentals of Tender Documents	2253UHIDTD	*	*			*	*
	Introduction to Building Management System	2254UHIDBM	*				*	
	Interior Design Dissertation	2255UHIDDNPR	*			*		*
	Project Management	2256UHIDPMPR			*		*	*
	Introduction to Rendering Software	2257UHIDRS			*		*	*
	Effective Presentation Skills	2258UHIDPMPS			*			*
6	Professional Practice	2261UHIDPP	*			*		*
	Internship	2262UHIDINPR			*		*	*
	Dissertation	2263UHIDTHPR				*	*	*
	Product Designing	2264UHIDPD	*					*
	Human Rights & Indian Constitution	2265UHIDHRI					*	

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**Table No. W.2: CO Attainment Level: B.Sc. (Honours) in Interior Design
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	2011UHIDFDP	Fundamentals of Design - 2 Dimensional	2	2	Fully Attained	NA
	2012UHIDRIP	Residential Interior Design	2	2	Fully Attained	NA
	2013UHIDCB	Foundation of Construction & Building Material	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2014UHIDHD	History of Design - Ancient Civilization	2.4	2	Fully Attained	NA
	2015UHIDBG	Basics of Graphics & Free Hand Sketching	2	2	Fully Attained	NA
	2016UHIDWK	Workshop - Model Making & Visual Study	2	2	Fully Attained	NA
	2017UHIDFE	Functional English	4	2	Fully Attained	NA
	2018UHIDPD	Personality Development Skills	3.6	2	Fully Attained	NA
2	2021UHIDBDP	Basics of Design – 3 Dimensional	2	2	Fully Attained	NA
	2022UHIDVBP	Interior Design of Villa & Bungalow	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2023UHIDCB	Advance Technology in Construction & Building Materials	0.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.

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	2024UHIDHD	History of Design - Trends & Movements	3	2	Fully Attained	NA
	2025UHIDGS	Advance Methods of Graphics & Free Hand Sketching	2.2	2	Fully Attained	NA
	2026UHIDES	Environmental Studies	3	2	Fully Attained	NA
3	2131UHIDBT	Interior Design for Boutique	3	2	Fully Attained	NA
	2132UHIDCE	Materials & Methods of Construction for Enclosures	3	2	Fully Attained	NA
	2133UHIDVBD	Technical Drawing for Villa & Bungalow	3	2	Fully Attained	NA
	2134UHIDVBS	Technical Services for Villa & Bungalow	2.4	2	Fully Attained	NA
	2135UHIDCS	Communication Skills – I	3.4	2	Fully Attained	NA
	2136UHIDCAD	Introduction to Computer Aided Design (CAD)	3	2	Fully Attained	NA
	2137UHIDSE	Selling Skills	3	2	Fully Attained	NA
	2138UHIDPTI	Practical Training/Internship	3	2	Fully Attained	NA
4	2141UHIDCH	Interior Design for Club House	0	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2142UHIDCF	Construction Material & Methods for Ceiling & Floor	3.2	2	Fully Attained	NA
	2143UHIDBTPR	Technical Drawing for Boutique	2	2	Fully Attained	NA
	2144UHIDPH	Basics of Plumbing & HVAC System	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be

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						planned.
	2145UHIDPTI	Practical Training/Internship	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2146UHIDCAD	Advance Computer Aided Design	4	2	Fully Attained	NA
	2147UHIDNL	Nutrition & Lifestyle	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2148UHIDCS	Communication Skills – II	1.8	2	Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
5	2251UHIDRTPR	Interior Design of Restaurant	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2252UHIDMW	Methods & Techniques of Mill Works	3.4	2	Fully Attained	NA
	2253UHIDTD	Fundamentals of Tender Documents	3	2	Fully Attained	NA
	2254UHIDBM	Introduction to Building Management System	2.2	2	Fully Attained	NA
	2255UHIDDNPR	Interior Design Dissertation	3	2	Fully Attained	NA
	2256UHIDPMPR	Project Management	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching


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						shall be planned.
	2257UHIDRS	Introduction to Rendering Software	3.4	2	Fully Attained	NA
	2258UHIDPMPS	Effective Presentation Skills	3	2	Fully Attained	NA
6	2261UHIDPP	Professional Practice	2.2	2	Fully Attained	NA
	2262UHIDINPR	Internship	4	2	Fully Attained	NA
	2263UHIDTHPR	Dissertation	4	2	Fully Attained	NA
	2264UHIDPD	Product Designing	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2265UHIDHRI	Human Rights & Indian Constitution	3.6	2	Fully Attained	NA
		Average	2.44	2		
NA: Not Applicable as target level is fully attained.						

**Table No.W.2a: PO Attainment Level- B.Sc. (Honours) in Interior Design
Academic Year - 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	4	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

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**Table No. W.3: Results of CO-PO attainment-
B.Sc. (Honours) in Interior Design Academic Year - 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Fundamentals of Design - 2 Dimensional	2011UHIDFDP	2	2				
	Residential Interior Design	2012UHIDRIP	2	2			2	
	Foundation of Construction & Building Material	2013UHIDCB	1.2	1.2				1.2
	History of Design - Ancient Civilization	2014UHIDHD	2.4				2.4	
	Basics of Graphics & Free Hand Sketching	2015UHIDBG	2	2				
	Workshop - Model Making & Visual Study	2016UHIDWK		2	2			2
	Functional English	2017UHIDFE			4			
	Personality Development Skills	2018UHIDPD			3.6			3.6
2	Basics of Design – 3 Dimensional	2021UHIDBDP	2					2
	Interior Design of Villa & Bungalow	2022UHIDVBP	0	0				0
	Advance Technology in Construction & Building Materials	2023UHIDCB	0.4					
	History of Design - Trends & Movements	2024UHIDHD	3			3	3	
	Advance Methods of Graphics & Free Hand Sketching	2025UHIDGS	2.2		2.2			2.2
	Environmental Studies	2026UHIDES				3	3	
3	Interior Design for Boutique	2131UHIDBT	3		3			3
	Materials & Methods of Construction for Enclosures	2132UHIDCE	3					
	Technical Drawing for Villa & Bungalow	2133UHIDVBD	3	3				
	Technical Services for Villa & Bungalow	2134UHIDVBS	2.4	2.4				2.4
	Communication Skills – I	2135UHIDCS			3.4			
	Introduction to Computer Aided Design (CAD)	2136UHIDCAD			3			3
	Selling Skills							3

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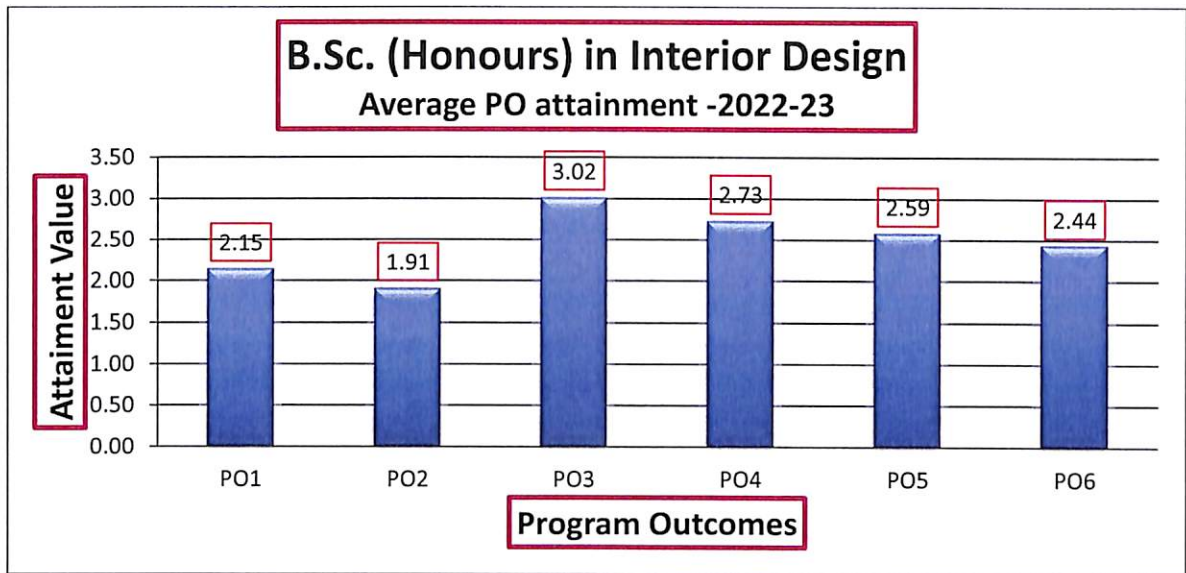
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		2137UHIDSE						
	Practical Training/Internship	2138UHIDPTI				3	3	3
4	Interior Design for Club House	2141UHIDCH	0	0				0
	Construction Material & Methods for Ceiling & Floor	2142UHIDCF	3.2	3.2		3.2		3.2
	Technical Drawing for Boutique	2143UHIDBTPR	2	2		2		
	Basics of Plumbing & HVAC System	2144UHIDPH	1.4	1.4				
	Practical Training/Internship	2145UHIDPTI				1.2	1.2	1.2
	Advance Computer Aided Design	2146UHIDCAD	4		4			4
	Nutrition & Lifestyle	2147UHIDNL					1.2	
	Communication Skills – II	2148UHIDCS			1.8		1.8	
5	Interior Design of Restaurant	2251UHIDRTPR	1	1			1	1
	Methods & Techniques of Mill Works	2252UHIDMW	3.4	3.4			3.4	
	Fundamentals of Tender Documents	2253UHIDTD	3	3			3	3
	Introduction to Building Management System	2254UHIDBM	2.2				2.2	
	Interior Design Dissertation	2255UHIDDNPR	3			3		3
	Project Management	2256UHIDPMPR			1.8		1.8	1.8
	Introduction to Rendering Software	2257UHIDRS			3.4		3.4	3.4
	Effective Presentation Skills	2258UHIDPMPS			3			3
6	Professional Practice	2261UHIDPP	2.2			2.2		2.2
	Internship	2262UHIDINPR			4		4	4
	Dissertation	2263UHIDTHPR				4	4	4
	Product Designing	2264UHIDPD	1.8					1.8
	Human Rights & Indian Constitution	2265UHIDHRI					3.6	
		Average	2.15	1.91	3.02	2.73	2.59	2.44

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

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ALL POST GRADUATE COURSES

ANNEXTURE X Master of Sports Management

**Table No. X.1: PO CO Mapping Matrix:
Master of Sports Management: Academic Year – 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Fundamentals of Sports & New Age Dynamics	1811PSMSD	*	*			*	*
	Management of Sports Leagues & Teams	1812PSMLT	*	*			*	*
	Sports Facilities Planning & Management	1813PSMFP	*	*			*	*
	Leadership Principles in Sports	1814PSMLP	*	*			*	*
	Sports Equipment & Technology Management	1815PSMET	*	*			*	*
	Basics of Practical Sports Management I	1816PSMPS		*	*	*	*	
	Research Methodology for Business	1817PSMRMB				*		
	Soft Skills & Personality Development	1818PSMSS			*			
	Sports & Entertainment Marketing	1821PSMEM	*	*			*	*
	Sports Funding & Financial Management	1822PSMFM	*	*			*	*
	Sports Media, Broadcasting & Journalism	1823PSMBJ	*	*			*	*
	Public Relation, Sponsorship & Advertising in Sports	1824PSMSA	*	*			*	*
	Sports Event Management	1825PSMEM	*	*			*	*
	Basics of Practical Sports Management II	1826PSMPS		*	*	*	*	
	Selling Skills	1827PSMSE	*	*				
	Media Management	1931MSMED	*	*			*	
3	Ethics & Governance	1932MSEGV	*				*	*
	Sports Law & Risk Management	1933MSLRM	*				*	*
	Global Sports Tourism	1934MSGST	*	*			*	*

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	Sports Health & Nutrition	1935MSSHN	*	*			*	
	Professional Industry Engagement (Practical Training)	1936MSPIE		*	*	*	*	
4	Tourism Marketing	1941MSTMK	*	*			*	
	Sports Psychology	1942MSPSY	*				*	*
	International Sports Management	1943MSISM	*				*	*
	Entrepreneurship & Project Management	1944MSEPM	*	*		*	*	
	Sports Training & Tactics	1945MSSTT	*	*			*	
	Final Project Report	1946MSFPR	*	*	*	*	*	

**Table No. X.2: CO Attainment Level: Master of Sports Management
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Fundamentals of Sports & New Age Dynamics	1811PSMSD	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Management of Sports Leagues & Teams	1812PSMLT	3.6	2	Fully Attained	NA
	Sports Facilities Planning & Management	1813PSMFP	2.8	2	Fully Attained	NA
	Leadership Principles in Sports	1814PSMLP	1.4	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Sports Equipment & Technology Management	1815PSMET	2.8	2	Fully Attained	NA
	Basics of Practical Sports Management I *	1816PSMPS	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.

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	Research Methodology for Business *	1817PSMRMB	4	2	Fully Attained	NA
	Soft Skills & Personality Development	1818PSMSS	3	2	Fully Attained	NA
2	Sports & Entertainment Marketing	1821PSMEM	3	2	Fully Attained	NA
	Sports Funding & Financial Management	1822PSMFM	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Sports Media, Broadcasting & Journalism	1823PSMBJ	3	2	Fully Attained	NA
	Public Relation, Sponsorship & Advertising in Sports	1824PSMSA	2.4	2	Fully Attained	NA
	Sports Event Management	1825PSMEM	3	2	Fully Attained	NA
	Basics of Practical Sports Management II *	1826PSMPS	2	2	Fully Attained	NA
	Selling Skills	1827PSMSE	4	2	Fully Attained	NA
3	Media Management	1931MSMED	3.4	2	Fully Attained	NA
	Ethics & Governance	1932MSEGV	2.6	2	Fully Attained	NA
	Sports Law & Risk Management	1933MSLRM	2.8	2	Fully Attained	NA
	Global Sports Tourism	1934MSGST	2.8	2	Fully Attained	NA
	Sports Health & Nutrition	1935MSSHN	3.6	2	Fully Attained	NA
	Professional Industry Engagement (Practical Training)	1936MSPIE	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
4	Tourism Marketing	1941MSTMK	3.4	2	Fully Attained	NA
	Sports Psychology	1942MSPSY	2	2	Fully Attained	NA
	International Sports Management	1943MSISM	2	2	Fully Attained	NA
	Entrepreneurship & Project Management	1944MSEPM	2.4	2	Fully Attained	NA
	Sports Training & Tactics	1945MSSTT	2.6	2	Fully Attained	NA
	Final Project Report	1946MSFPR	1	2	Not Fully Attained	Assignments, tutorials, exercises and

						remedial coaching shall be planned.
		Average	2.56	2		

NA: Not Applicable as target level is fully attained.

Table No.X.2a: PO Attainment Level- Master of Sports Management - 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

Table No. X.3: Results of CO-PO attainment- Master of Sports Management - 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	Fundamentals of Sports & New Age Dynamics	1811PSMSD	1.8	1.8			1.8	1.8
	Management of Sports Leagues & Teams	1812PSMLT	3.6	3.6			3.6	3.6
	Sports Facilities Planning & Management	1813PSMFP	2.8	2.8			2.8	2.8
	Leadership Principles in Sports	1814PSMLP	1.4	1.4			1.4	1.4
	Sports Equipment & Technology Management	1815PSMET	2.8	2.8			2.8	2.8
	Basics of Practical Sports Management I	1816PSMPS		1	1	1	1	
	Research Methodology for Business	1817PSMRMB				4		
	Soft Skills & Personality Development	1818PSMSS			3			
2	Sports & Entertainment Marketing	1821PSMEM	3	3			3	3
	Sports Funding & Financial Management	1822PSMFM	1.8	1.8			1.8	1.8

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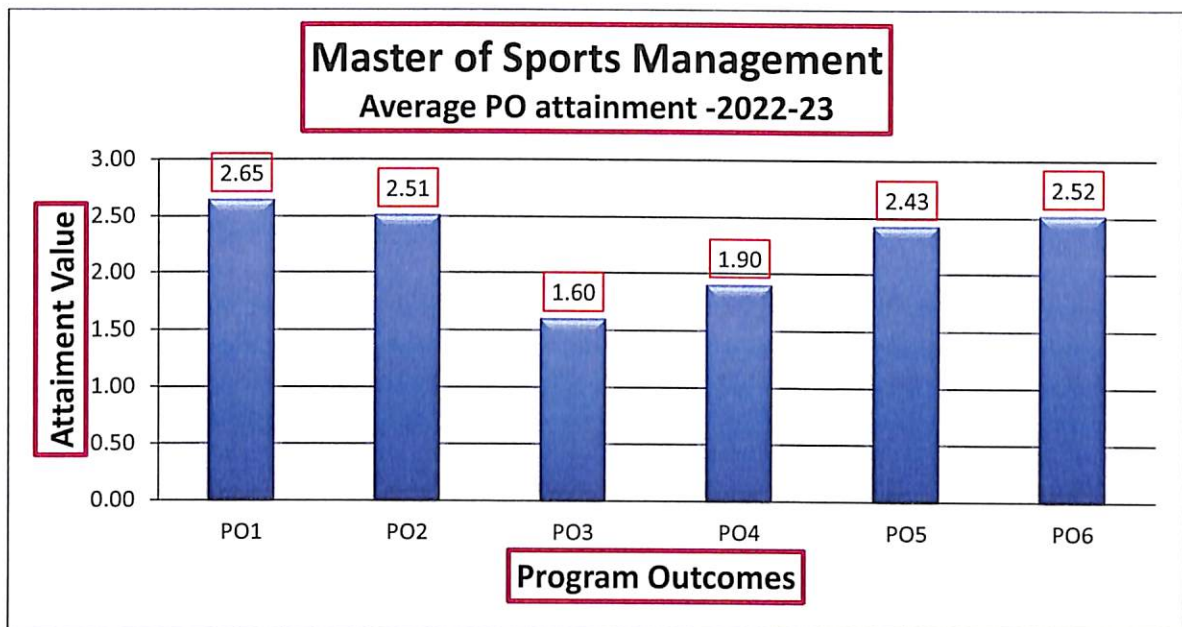
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	Sports Media, Broadcasting & Journalism	1823PSMBJ	3	3			3	3
	Public Relation, Sponsorship & Advertising in Sports	1824PSMSA	2.4	2.4			2.4	2.4
	Sports Event Management	1825PSMEM	3	3			3	3
	Basics of Practical Sports Management II	1826PSMPS		2	2	2	2	
	Selling Skills	1827PSMSE	4	4				
3	Media Management	1931MSMED	3.4	3.4			3.4	
	Ethics & Governance	1932MSEGV	2.6				2.6	2.6
	Sports Law & Risk Management	1933MSLRM	2.8				2.8	2.8
	Global Sports Tourism	1934MSGST	2.8	2.8			2.8	2.8
	Sports Health & Nutrition	1935MSSHN	3.6	3.6			3.6	
	Professional Industry Engagement (Practical Training)	1936MSPIE		1	1	1	1	
4	Tourism Marketing	1941MSTMK	3.4	3.4			3.4	
	Sports Psychology	1942MSPSY	2				2	2
	International Sports Management	1943MSISM	2				2	2
	Entrepreneurship & Project Management	1944MSEPM	2.4	2.4		2.4	2.4	
	Sports Training & Tactics	1945MSSTT	2.6	2.6			2.6	
	Final Project Report	1946MSFPR	1	1	1	1	1	
	Average		2.65	2.51	1.60	1.90	2.43	2.52

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

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ANNEXTURE Y
M.Sc. in Integrative Nutrition & Dietetics Academic

Table No. Y.1: PO CO Mapping Matrix:
M.Sc. in Integrative Nutrition & Dietetics Academic Year - 2022-23

Semester	Course	Course Code	PO1	PO2	PO3	PO4
1	2111PSNDLN	Lifecycle Nutrition	*			*
	2111PSNDLNP	Lifecycle Nutrition - Practical - I	*	*		*
	2112PSNDFS	Food Science - I	*			*
	2112PSNDFSP	Food Science - Practical - II	*	*		*
	2113PSNDFP	Food Processing & Preservation - I	*			
	2114PSNDHA	Human Anatomy - I	*			
	2115PSNDBC	Biochemistry - I	*			
	2116PSNDPD	Personality Development Skills		*	*	
2	2121PSNDTD	Therapeutic Diet	*			
	2122PSNDFS	Food Science II	*			
	2122PSNDFSP	Food Science - II (Practical)	*	*		*
	2123PSNDFP	Food Processing & Preservation - II	*			
	2123PSNDFPP	Food Processing & Preservation (Practical)	*	*		*
	2124PSNDHA	Human Anatomy - II	*			
	2125PSNDHN	Human Nutrition	*			
	2126PSNDSS	Soft Skills & Personality Development		*	*	
3	2231PSNDDM	Disease Management through Nutrition - I	*			*
	2232PSNDIM	Immunology	*			
	2233PSNDHT	Alternative Health Strategies & Therapies	*	*		*
	2234PSNDFP	Food Psychology	*			
	2235PSNDSN	Sports Nutrition	*		*	
	2236PSNDRB	Research Methodology & Bio Statistics		*	*	*
	2237PSNDCC	Communication & Counseling Skills		*	*	
	2238PSNDPS	Effective Presentation Skills		*	*	

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	2241PSNDNG	Nutrigenetics	*			*
	2242PSNDM	Disease Management through Nutrition - II	*			*
	2243PSNDLP	Lifestyle Pillars	*			*
4	2244PSNDPH	Public Health Nutrition	*	*	*	*
	2245PSNDT	Dissertation		*	*	
	2246PSNDEM	Entrepreneurship & Management	*	*		*
	2247PSNDSE	Selling Skills		*		

**Table No. Y.2: CO Attainment Level: M.Sc. in Integrative Nutrition & Dietetics
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	2111PSNDLN	Lifecycle Nutrition	2.8	2	Fully Attained	NA
	2111PSNDLNP	Lifecycle Nutrition - Practical - I	4	2	Fully Attained	NA
	2112PSNDFS	Food Science - I	2.8	2	Fully Attained	NA
	2112PSNDFSP	Food Science - Practical - II	3.6	2	Fully Attained	NA
	2113PSNDFP	Food Processing & Preservation - I	3	2	Fully Attained	NA
	2114PSNDHA	Human Anatomy - I	4	2	Fully Attained	NA
	2115PSNDBC	Biochemistry - I	4	2	Fully Attained	NA
	2116PSNDPD	Personality Development Skills	4	2	Fully Attained	NA
2	2121PSNDTD	Therapeutic Diet	3.4	2	Fully Attained	NA
	2122PSNDFS	Food Science II	4	2	Fully Attained	NA
	2122PSNDFSP	Food Science - II (Practical)	4	2	Fully Attained	NA
	2123PSNDFP	Food Processing & Preservation - II	3.4	2	Fully Attained	NA
	2123PSNDFPP	Food Processing & Preservation (Practical)	4	2	Fully Attained	NA
	2124PSNDHA	Human Anatomy - II	3.4	2	Fully Attained	NA

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	2125PSNDHN	Human Nutrition	4	2	Fully Attained	NA
	2126PSNDSS	Soft Skills & Personality Development	4	2	Fully Attained	NA
3	2231PSNDDM	Disease Management through Nutrition - I	2	2	Fully Attained	NA
	2232PSNDIM	Immunology	2.8	2	Fully Attained	NA
	2233PSNDHT	Alternative Health Strategies & Therapies	2.2	2	Fully Attained	NA
	2234PSNDFP	Food Psychology	2	2	Fully Attained	NA
	2235PSNDSN	Sports Nutrition	2	2	Fully Attained	NA
	2236PSNDRB	Research Methodology & Bio Statistics	2	2	Fully Attained	NA
	2237PSNDCC	Communication & Counseling Skills	2	2	Fully Attained	NA
	2238PSNDPS	Effective Presentation Skills	4	2	Fully Attained	NA
4	2241PSNDNG	Nutrigenetics	2.4	2	Fully Attained	NA
	2242PSNDM	Disease Management through Nutrition - II	1.8	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	2243PSNDLP	Lifestyle Pillars	2.6	2	Fully Attained	NA
	2244PSNDPH	Public Health Nutrition	3	2	Fully Attained	NA
	2245PSNDT	Dissertation	3.6	2	Fully Attained	NA
	2246PSNDEM	Entrepreneurship & Management	3.6	2	Fully Attained	NA
	2247PSNDSE	Selling Skills	4	2	Fully Attained	NA
		Average	3.17	2		

NA: Not Applicable as target level is fully attained.

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**Table No.Y.2a: PO Attainment Level- M.Sc. in Integrative Nutrition & Dietetics
Academic Year - 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. Y.3: Results of CO-PO attainment-
M.Sc. in Integrative Nutrition & Dietetics Academic Year - 2022-23**

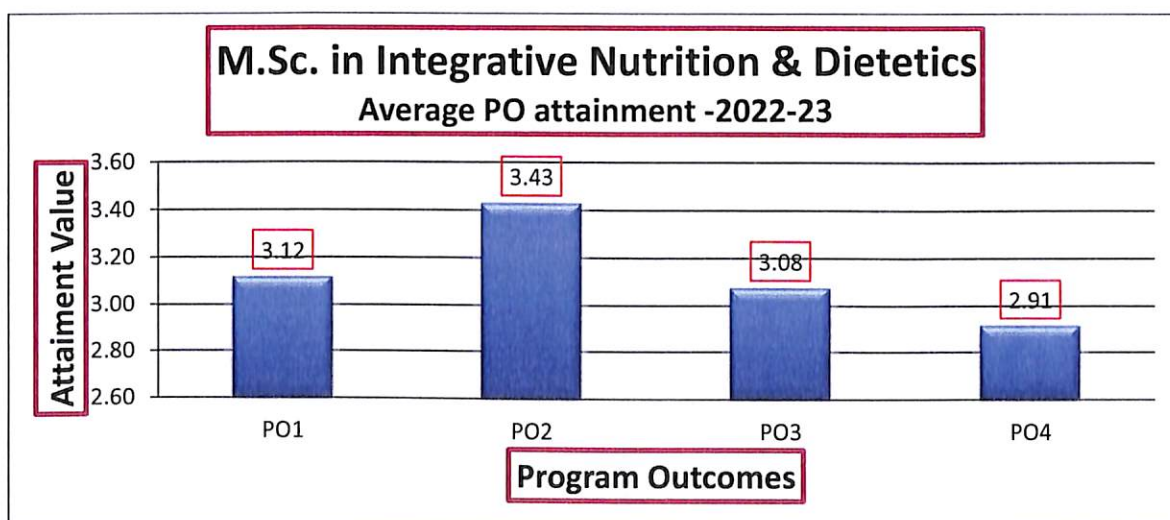
Semester	Course	Course Code	PO1	PO2	PO3	PO4
1	2111PSNDLN	Lifecycle Nutrition	2.8			2.8
	2111PSNDLNP	Lifecycle Nutrition - Practical - I	4	4		4
	2112PSNDFS	Food Science - I	2.8			2.8
	2112PSNDFSP	Food Science - Practical - II	3.6	3.6		3.6
	2113PSNDFP	Food Processing & Preservation - I	3			
	2114PSNDHA	Human Anatomy - I	4			
	2115PSNDBC	Biochemistry - I	4			
	2116PSNDPD	Personality Development Skills		4	4	
2	2121PSNDTD	Therapeutic Diet	3.4			
	2122PSNDFS	Food Science II	4			
	2122PSNDFSP	Food Science - II (Practical)	4	4		4
	2123PSNDFP	Food Processing & Preservation - II	3.4			
	2123PSNDFPP	Food Processing & Preservation (Practical)	4	4		4
	2124PSNDHA	Human Anatomy - II	3.4			
	2125PSNDHN	Human Nutrition	4			
	2126PSNDSS	Soft Skills & Personality Development		4	4	

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3	2231PSNDDM	Disease Management through Nutrition - I	2			2
	2232PSNDIM	Immunology	2.8			
	2233PSNDHT	Alternative Health Strategies & Therapies	2.2	2.2		2.2
	2234PSNDFP	Food Psychology	2			
	2235PSNDSN	Sports Nutrition	2		2	
	2236PSNDRB	Research Methodology & Bio Statistics		2	2	2
	2237PSNDCC	Communication & Counselling Skills		2	2	
	2238PSNDPS	Effective Presentation Skills		4	4	
4	2241PSNDNG	Nutrigenetics	2.4			2.4
	2242PSNDM	Disease Management through Nutrition - II	1.8			1.8
	2243PSNDLP	Lifestyle Pillars	2.6			2.6
	2244PSNDPH	Public Health Nutrition	3	3	3	3
	2245PSNDT	Dissertation		3.6	3.6	
	2246PSNDEM	Entrepreneurship & Management	3.6	3.6		3.6
	2247PSNDSE	Selling Skills		4		
		Average	3.12	3.43	3.08	2.91



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


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ANNEXTURE Z

M.Sc. in Interior Design

**Table No. Z.1: PO CO Mapping Matrix:
M.Sc. in Interior Design: Academic Year – 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO5	PO6	PO7	PO8
1	Advance Studies & Theories in Interior Design	2111PIDAS	*	*								
	Advance Experimental Design Studio	2112PIDAES	*	*			*		*			
	Evidence-based Design	2113PIDED	*	*				*		*	*	*
	Integrated Building Services	2114PIDIBS	*				*		*			
	Communication Technology in Interior Design - I	2115PIDCT	*	*		*						
	Personality Development	2116PIDPD				*					*	*
					*							
2	Design Humanics: Design Thinking	2121PIDHD			*			*		*	*	*
	Interdisciplinary Design Studio (Hospitality, Commercial, Institutional, Healthcare)	2122PIDIS	*			*				*	*	*
	Design Collaborative Methods	2123PIDCM	*			*		*		*	*	*
	Interior Building System & Details	2124PIDIB	*	*			*	*		*	*	*
	Communication Technology in Interior Design – II	2125PIDCT	*			*					*	
	Soft Skills & Personality Development	2126PIDSS				*					*	
			*		*			*		*	*	*
3	Design Humanics: Ergonomic Factors	2231PIDHEF	*	*		*	*		*			
	Selection & Preliminaries	2232PIDSP	*	*		*		*				
	Research Methodologies	2233PIDRM	*		*			*		*		*
	Project Management	2234PIDPM	*				*				*	*

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	Selling Skills	2135PIDSE								*	*	*
4	Thesis: Creative Component	2241PIDCC	*			*	*			*		*
	Set Designing	2242PIDSD	*			*		*		*		*
	Internship	2243PIDIS						*		*	*	*
	Thesis Exhibition & Review	2244PIDTE	*			*	*	*		*	*	*
	Presentation Skills	2245PIDPS				*				*		*

**Table No. Z.2: CO Attainment Level: M.Sc. in Interior Design
Academic Year - 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Advance Studies & Theories in Interior Design	2111PIDAS	2.4	2	Fully Attained	NA
	Advance Experimental Design Studio	2112PIDAES	2	2	Fully Attained	NA
	Evidence-based Design	2113PIDED	2.4	2	Fully Attained	NA
	Integrated Building Services	2114PIDIBS	3	2	Fully Attained	NA
	Communication Technology in Interior Design - I	2115PIDCT	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Personality Development	2116PIDPD	2	2	Fully Attained	NA
2	Design Humanics: Design Thinking	2121PIDHD	3	2	Fully Attained	NA
	Interdisciplinary Design Studio (Hospitality, Commercial, Institutional, Healthcare)	2122PIDIS	2	2	Fully Attained	NA
	Design Collaborative Methods	2123PIDCM	2	2	Fully Attained	NA
	Interior Building System & Details	2124PIDIB	2.4	2	Fully Attained	NA
	Communication Technology in Interior Design - II	2125PIDCT	1.2	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.

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	Soft Skills & Personality Development	2126PIDSS	3	2	Fully Attained	NA
3	Design Humanics: Ergonomic Factors	2231PIDHEF	1.6	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Selection & Preliminaries	2232PIDSP	4	2	Fully Attained	NA
	Research Methodologies	2233PIDRM	2.2	2	Fully Attained	NA
	Project Management	2234PIDPM	2.8	2	Fully Attained	NA
	Selling Skills	2135PIDSE	2.8	2	Fully Attained	NA
4	Thesis: Creative Component	2241PIDCC	4	2	Fully Attained	NA
	Set Designing	2242PIDSD	4	2	Fully Attained	NA
	Internship	2243PIDIS	4	2	Fully Attained	NA
	Thesis Exhibition & Review	2244PIDTE	1	2	Not Fully Attained	Assignments, tutorials, exercises and remedial coaching shall be planned.
	Presentation Skills	2245PIDPS	2	2	Fully Attained	NA
		Average	2.50	2		

NA: Not Applicable as target level is fully attained.

**Table No.Z.2a: PO Attainment Level- M.Sc. in Interior Design
Academic Year - 2022-23**

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA

NA: Not Applicable as target level is fully attained.

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

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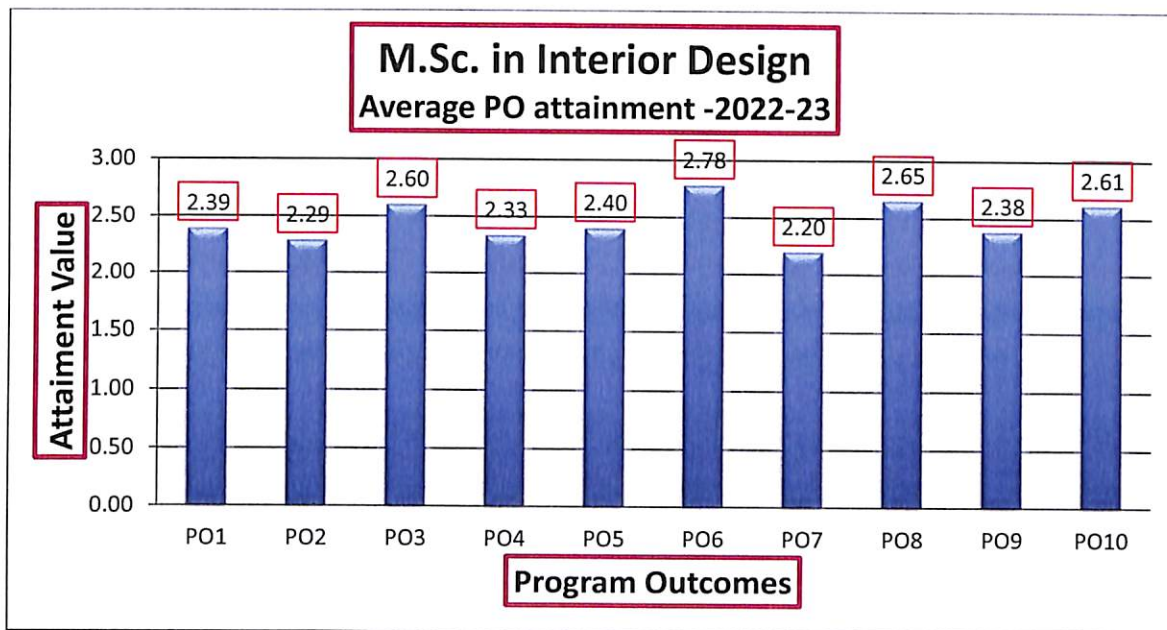
**Table No. Z.3: Results of CO-PO attainment-
M.Sc. in Interior Design Academic Year - 2022-23**

Semester	Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO5	PO6	PO7	PO8
1	Advance Studies & Theories in Interior Design	2111PIDAS	2.4	2.4								
	Advance Experimental Design Studio	2112PIDAES	2	2			2		2			
	Evidence-based Design	2113PIDED	2.4	2.4				2.4		2.4	2.4	2.4
	Integrated Building Services	2114PIDIBS	3				3		3			
	Communication Technology in Interior Design - I	2115PIDCT	1.2	1.2		1.2						
	Personality Development	2116PIDPD				2					2	2
2	Design Humanics: Design Thinking	2121PIDHD			3			3		3	3	3
	Interdisciplinary Design Studio (Hospitality, Commercial, Institutional, Healthcare)	2122PIDIS	2			2				2	2	2
	Design Collaborative Methods	2123PIDCM	2			2		2		2	2	2
	Interior Building System & Details	2124PIDIB	2.4	2.4			2.4	2.4		2.4	2.4	2.4
	Communication Technology in Interior Design – II	2125PIDCT	1.2			1.2					1.2	
	Soft Skills & Personality Development	2126PIDSS				3					3	
3	Design Humanics: Ergonomic Factors	2231PIDHEF	1.6	1.6		1.6	1.6		1.6			
	Selection & Preliminaries	2232PIDSP	4	4		4		4				
	Research Methodologies	2233PIDRM	2.2		2.2			2.2		2.2		2.2
	Project Management	2234PIDPM	2.8				2.8				2.8	2.8
	Selling Skills	2135PIDSE								2.8	2.8	2.8
4												
	Thesis: Creative Component	2241PIDCC	4			4	4			4		4


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Set Designing	2242PIDSD	4				4		4		4		4
Internship	2243PIDIS							4		4	4	4
Thesis Exhibition & Review	2244PIDTE	1				1	1	1		1	1	1
Presentation Skills	2245PIDPS					2				2		2
	Average	2.39	2.29	2.60	2.33	2.40	2.78	2.20	2.65	2.38	2.61	



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 and greater than 2.5).


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ANNEXTURE AA
Master of Science (Computer Science) - M. Sc. (CS)

Table No. AA.1: PO CO Mapping Matrix:
Master of Science (Computer Science) - M. Sc. CS Academic Year – 2022-23

	Subject	Course Code	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Sem 1	Mathematical foundations of computer science	2111PCSMF	*				*	*			*	*
	Distributed operating system	2112PCSOS		*		*	*			*	*	
	Advanced data structures and algorithms	2113PCSDS	*		*	*		*	*	*		*
	Advanced database management systems	2114PCSDB		*	*			*	*	*		*
	Software engineering concepts and methodologies	2115PCSSE	*			*			*	*	*	*
	Python programming	2116PCSPP	*	*		*		*	*		*	*
	Distributed operating system practical	2112PCSPPR		*		*	*		*		*	
	Advanced data structures and algorithms practical	2113PCSPPR	*		*	*		*	*	*		*
	Advanced database management systems practical	2114PCSPPR		*	*			*	*	*		*
	Python programming practical	2116PCSPPR	*	*		*	*	*	*		*	*
SEM 2	Advanced java programming	2121PCSAJ	*	*		*		*	*		*	*
	Inferential statistics	2122PCISIS	*	*		*	*		*		*	
	Introduction to cloud	2123PCSDS	*		*	*		*	*	*		*
	Ethical hacking	2124PCSML		*	*			*	*	*		*

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	Real time data processing	2125PCSDP	*	*		*	*	*	*		*	*
	English for research paper writing	2126PCSRW		*	*		*	*	*	*		*
	Advanced java programming (practical)	2121PCSPR	*	*		*	*	*	*		*	*
	Inferential statistics (practical)	2122PCSPR	*		*		*	*	*		*	*
	Real time data processing (practical)	2125PCSPR	*	*		*	*	*			*	*
	Ethical hacking (practical)	2124PCSPR	*	*		*	*		*		*	*
SEM 3	Software verification and validation testing	2231PCSVT	*	*		*	*	*	*		*	*
	Software verification and validation testing (practical)	2231PCSPR		*	*		*	*	*	*		*
	Data visualization	2232PCSDV	*	*		*	*	*	*		*	*
	Data visualization (practical)	2232PCSPR	*		*		*	*	*		*	*
	Hybrid cloud computing	2233PCSHC	*		*	*		*	*	*		*
	Hybrid cloud computing (practical)	2233PCSPR		*	*			*	*	*		*
	Operations research	2234PCSOR	*	*		*	*	*	*		*	*
	Placement training	2235PCSPT	*	*		*	*	*	*		*	*
	Mini project	2236PCSMP	*		*		*	*	*		*	*
SEM 4	Ai with neural networks practical	2241PCSFP	*				*	*		*	*	*
	Ai with neural networks practical	2242PCSRM		*		*	*		*		*	*
	Ai with neural networks practical	2243PCSNN	*	*	*	*		*		*		*
	Ai with neural networks practical	2243PCSPR		*			*		*	*		*


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Table No. AA.2: CO Attainment Level: Master of Science- Master of Science (Computer Science) Academic Year - 2022-23

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Mathematical Foundations of Computer Science	2111PCSMF	2.4	2	Fully Attained	NA
	Distributed operating system	2112PCSOS	3	2	Fully Attained	NA
	Advanced Data Structures and Algorithms	2113PCSDS	2.2	2	Fully Attained	NA
	Advanced database management systems	2114PCSDB	2.8	2	Fully Attained	NA
	Software Engineering Concepts and Methodologies	2115PCSSE	3.4	2	Fully Attained	NA
	Python programming	2116PCSP	4	2	Fully Attained	NA
	Distributed operating system practical	2112PCSPR	4	2	Fully Attained	NA
	Advanced data structures and algorithms practical	2113PCSPR	2	2	Fully Attained	NA
	Advanced database management systems practical	2114PCSPR	2	2	Fully Attained	NA
	Python programming practical	2116PCSPR	3	2	Fully Attained	NA
2	Advanced java programming	2121PCSAJ	3.4	2	Fully Attained	NA
	Inferential statistics	2122PCISIS	2.4	2	Fully Attained	NA
	Introduction to Cloud	2123PCSDS	2.8	2	Fully Attained	NA
	Ethical hacking	2124PCSMML	3.4	2	Fully Attained	NA
	Real time data processing	2125PCSDP	2.8	2	Fully Attained	NA
	English for research paper	2126PCSRW	2.4	2	Fully Attained	NA

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	writing					
	Advanced java programming (practical)	2121PCSPR	2	2	Fully Attained	NA
	Inferential statistics (practical)	2122PCSPR	4	2	Fully Attained	NA
	Real time data processing (practical)	2125PCSPR	3	2	Fully Attained	NA
	Ethical hacking (practical)	2124PCSPR	3	2	Fully Attained	NA
3	Software Verification and Validation Testing	2232PCSDV	4	2	Fully Attained	NA
	Software Verification and Validation Testing (Practical)	2231PCSPR	4	2	Fully Attained	NA
	Data visualization	2232PCSPR	2.2	2	Fully Attained	NA
	Data visualization (practical)	2233PCSHC	2	2	Fully Attained	NA
	Hybrid cloud computing	2233PCSPR	3.4	2	Fully Attained	NA
	Hybrid cloud computing (practical)	2234PCSOR	4	2	Fully Attained	NA
	Operations research	2235PCSPT	1.8	2	NOT Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Placement training	2236PCSMF	2.2	2	Fully Attained	NA
	Mini project	2236PCSMF	3	2	Fully Attained	NA
4	Final Project/ Internship and Viva	2241PCSF	1	2	NOT Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Research methodology	2242PCSRM	4	2	Fully Attained	NA
	AI with Neural Networks	2243PCSNN	4	2	Fully Attained	NA
	AI with Neural Networks Practical	2243PCSPR	1	2	NOT Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Average		2.87	2		

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NA: Not Applicable as target level is fully attained.

Table No.AA.2a: PO Attainment Level- M. Sc. (Computer Science)-2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. AA.3: Results of CO-PO attainment-
Master of Science (Computer Science)-M. Sc.(CS)-Academic Year 2022-23**

Subject	Course Code	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Mathematical Foundations of Computer Science	2111PCSMF	2.4				2.4	2.4			2.4	2.4
Distributed operating system	2112PCSOS		3		3	3			3	3	
Advanced Data Structures and Algorithms	2113PCSDS	2.2		2.2	2.2		2.2	2.2	2.2		2.2
Advanced database management systems	2114PCSDB		2.8	2.8			2.8	2.8	2.8		2.8
Software Engineering Concepts and Methodologies	2115PCSSE	3.4			3.4			3.4	3.4	3.4	3.4
Python programming	2116PCSPP	4	4		4		4	4		4	4
Distributed operating system practical	2112PCSPR		4		4	4		4		4	
Advanced data structures and algorithms	2113PCSPR	2		2	2		2	2	2		2

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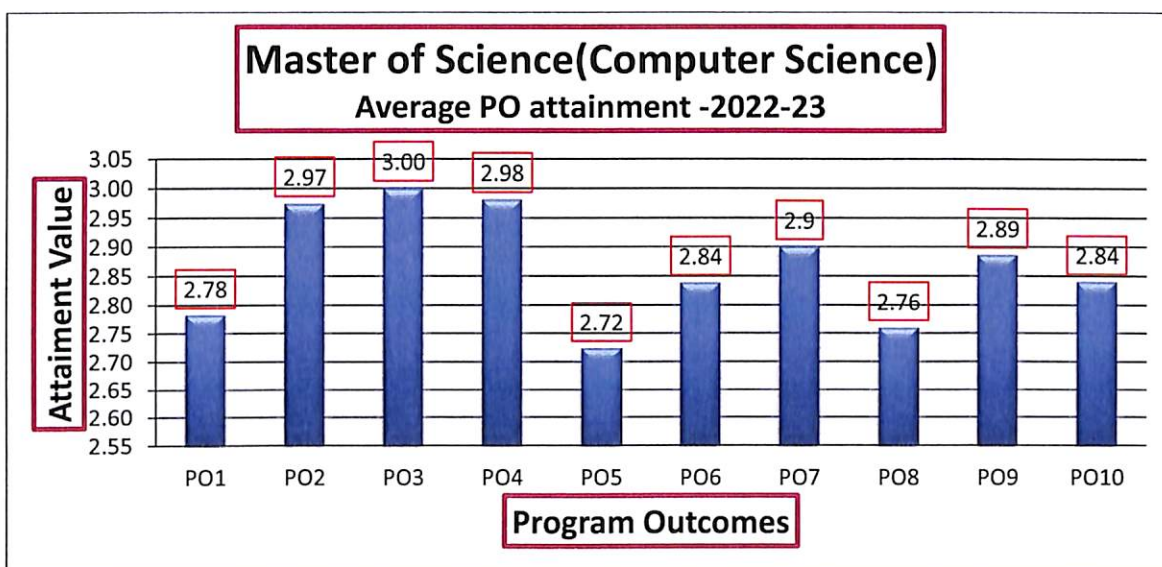
	practical											
	Advanced database management systems practical	2114PCSPR		2	2			2	2	2		2
	Python programming practical	2116PCSPR	3	3		3	3	3	3		3	3
SEM 2	Advanced java programming	2121PCSAJ	3.4	3.4		3.4		3.4	3.4		3.4	3.4
	Inferential statistics	2122PCSIS	2.4	2.4		2.4	2.4		2.4		2.4	
	Introduction to Cloud	2123PCSDS	2.8		2.8	2.8		2.8	2.8	2.8		2.8
	Ethical hacking	2124PCSMML		3.4	3.4			3.4	3.4	3.4		3.4
	Real time data processing	2125PCSDP	2.8	2.8		2.8	2.8	2.8	2.8		2.8	2.8
	English for research paper writing	2126PCSRW		2.4	2.4		2.4	2.4	2.4	2.4		2.4
	Advanced java programming (practical)	2121PCSPR	2	2		2	2	2	2		2	2
	Inferential statistics (practical)	2122PCSPR	4		4		4	4	4		4	4
	Real time data processing (practical)	2125PCSPR	3	3		3	3	3			3	3
	Ethical hacking (practical)	2124PCSPR	3	3		3	3		3		3	3
SEM 3	Software Verification and Validation Testing	2231PCSVT	4	4		4	4	4	4		4	4
	Software Verification and Validation Testing (Practical)	2231PCSPR		4	4		4	4	4	4		4
	Data visualization	2232PCSDV	2.2	2.2		2.2	2.2	2.2	2.2		2.2	2.2
	Data visualization (practical)	2232PCSPR	2		2		2	2	2		2	2
	Hybrid cloud computing	2233PCSHC	3.4		3.4	3.4		3.4	3.4	3.4		3.4
	Hybrid cloud computing (practical)	2233PCSPR		4	4			4	4	4		4
	Operations research	2234PCSOR	1.8	1.8		1.8	1.8	1.8	1.8		1.8	1.8
	Placement training	2235PCSPT	2.2	2.2		2.2	2.2	2.2	2.2		2.2	2.2

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	Mini project	2236PCSMP	3		3		3	3	3		3	3
	Final Project/ Internship and Viva	2241PCSFP	1				1	1		1	1	1
	Research methodology	2242PCSRM		4		4	4		4		4	4
SEM 4	AI with Neural Networks	2243PCSNN	4	4	4	4		4		4		4
	AI with Neural Networks Practical	2243PCSPR		1			1		1	1		1
	Average		2.7 8	2.97	3.00	2.98	2.72	2.84	2.9	2.76	2.89	2.84



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

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ANNEXTURE AB
Master of Science (Cyber Security) - M. Sc. (Cyber Security)

Table No. AB.1: PO CO Mapping Matrix:
Master of Science (Cyber Security) - M. Sc. Cyber Security Academic Year – 2022-23

	Subject	Course Code	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO10
Se m 1	Mathematical foundations for cybersecurity	2111PSCSMF	*				*	*			*	*
	Cybersecurity fundamentals	2112PSCSCF		*		*	*			*	*	
	Advanced Data Structures and Algorithms	2113PSCSDS	*		*	*		*	*	*		*
	Advanced database management systems	2114PSCSDM		*	*			*	*	*		*
	Data Security and Network Security	2115PSCSNS	*			*			*	*	*	*
	Software security	2116PSCSS	*	*		*		*	*		*	*
	Mathematical foundations for cybersecurity practical	2111PSCSPR		*		*	*		*		*	
	Cybersecurity fundamentals practical	2112PSCSPR	*		*	*		*	*	*		*
	Advanced data structures practical	2113PSCSPR		*	*			*	*	*		*
	Advanced database management systems practical	2114PSCSPR	*	*		*	*	*	*		*	*
	Data security and network security practical	2115PSCSPR	*	*		*		*	*	*	*	*
	Software security practical	2116PSCSPR	*	*		*		*	*		*	*
SE M 2	Security and Risk Management	2121PSCSRM	*	*		*		*	*		*	*

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	Ethical hacking	2122PSCSEH	*	*		*	*		*		*	
	Software Engg Concepts and Methodologies	2123PSCSEC	*		*	*		*	*	*		*
	Cryptography and Biometrics	2124PSCSCB		*	*			*	*	*		*
	Securing the cloud	2125PSCSSC	*	*		*	*	*	*		*	*
	Defense in Depth	2126PSCSDD		*	*		*	*	*	*		*
	Security and risk management (practical)	2121PSCSPR	*	*		*	*	*	*		*	*
	Ethical hacking (practical)	2122PSCSPR	*		*		*	*	*		*	*
	Cryptography and biometrics (practical)	2124PSCSPR	*	*		*	*	*			*	*
	Securing the cloud (practical)	2125PSCSPR	*	*		*	*		*		*	*
	Defence in depth (practical)	2126PSCSPR	*	*		*		*	*		*	*
SE M 3	Iot Security	2231PSCSIT	*	*		*	*	*	*		*	*
	Iot Security (Practical)	2231PSCSPR		*	*		*	*	*	*		*
	Digital Forensics and Investigation	2232PSCSDF	*	*		*	*	*	*		*	*
	Digital Forensics and Investigation (Practical)	2232PSCSPR	*		*		*	*	*		*	*
	IT Governance, Risk and Compliance	2233PSCSIG	*		*	*		*	*	*		*
	IT Governance, Risk and Compliance (Practical)	2233PSCSPR		*	*			*	*	*		*
	Big data analytics	2234PSCSBA	*	*		*	*	*	*		*	*
	English for Research Paper writing	2235PSCSER	*	*		*	*	*	*		*	*
	Placement training	2236PSCSPT	*		*		*	*	*		*	*
SE M	Final Project/ Internship and	2241PSCSFP	*				*	*		*	*	*

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4	Viva											
	Research methodology	2242PSCSRM		*		*	*		*		*	*
	Malware analysis	2243PSCSMA	*	*	*	*		*		*		*
	Malware analysis practical	2243PSCSPR		*			*		*	*		*

**Table No. AB.2: CO Attainment Level: Bachelor of Science- - M. Sc. Cyber Security
Academic Year – 2022-23**

Semester	Course	Course Code	CO Attainment value	Attainment Target Level	Fully Attained/ Not Attained	Remedial Measures
1	Mathematical Foundations For Cybersecurity	2111PSCSMF	1.2	2	Not Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Cybersecurity Fundamentals	2112PSCSCF	3	2	Fully Attained	NA
	Advanced Data Structures and Algorithms	2113PSCSDS	2.2	2	Fully Attained	NA
	Advanced Database Management Systems	2114PSCSDM	1.6	2	Not Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Data Security and Network Security	2115PSCSNS	2.2	2	Fully Attained	NA
	Software Security	2116PSCSS	2	2	Fully Attained	NA
	MATHEMATICAL FOUNDATIONS FOR CYBERSECURITY PRACTICAL	2111PSCSPR	3	2	Fully Attained	NA
	CYBERSECURITY FUNDAMENTALS PRACTICAL	2112PSCSPR	2	2	Fully Attained	NA
	ADVANCED DATA STRUCTURES PRACTICAL	2113PSCSPR	4	2	Fully Attained	NA

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	ADVANCED DATABASE MANAGEMEN T SYSTEMS PRACTICAL	2114PSCSPR	3	2	Fully Attained	NA
	DATA SECURITY AND NETWORK SECURITY PRACTICAL	2115PSCSPR	3	2	Fully Attained	NA
	SOFTWARE SECURITY PRACTICAL	2116PSCSPR	3	2	Fully Attained	NA
2	Security and Risk Management	2121 PSCSRM	2.4	2	Fully Attained	NA
	Ethical hacking	2122PSCSEH	1.4	2	Not Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	Software Engg Concepts and Methodologies	2123PSCSEC	1	2	Not Fully Attained	NA
	Cryptography and Biometrics	2124PSCSCB	1	2	Fully Attained	NA
	Securing The Cloud	2125PSCSSC	0.4	2	Not Fully Attained	NA
	Defence in Depth	2126PSCSDD	1.4	2	Not Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	SECURITY AND RISK MANAGEMEN T (PRACTICAL)	2121PSCSPR	3	2	Fully Attained	NA
	ETHICAL HACKING (PRACTICAL)	2122PSCSPR	3	2	Fully Attained	NA
	CRYPTOGRA PHY AND BIOMETRICS (PRACTICAL)	2124PSCSPR	3	2	Fully Attained	NA
	SECURING THE CLOUD (PRACTICAL)	2125PSCSPR	1	2	Not Fully Attained	Assignments, Tutorial exercises and remedial coaching shall be planned
	DEFENCE IN	2126PSCSPR	2	2	Fully	NA

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	DEPTH (PRACTICAL)				Attained	
3	IoT Security	2231PSCSIT	4	2	Fully Attained	NA
	IoT Security (Practical)	2231PSCSPR	4	2	Fully Attained	NA
	Digital Forensics and Investigation	2232PSCSDF	3	2	Fully Attained	NA
	Digital Forensics and Investigation (Practical)	2232PSCSPR	3	2	Fully Attained	NA
	IT Governance, Risk and Compliance	2233PSCSIG	3	2	Fully Attained	NA
	IT Governance, Risk and Compliance (Practical)	2233PSCSPR	4	2	Fully Attained	NA
	Big Data Analytics	2234PSCSBA	3	2	Fully Attained	NA
	English for Research Paper writing	2235PSCSER	3	2	Fully Attained	NA
	Placement training	2236PSCSPT	3	2	Fully Attained	NA
4	Final Project/ Internship and Viva	2241PSCSFP	3	2	Fully Attained	NA
	Research Methodology	2242PSCSRM	4	2	Fully Attained	NA
	Malware Analysis	2243PSCSMA	3.6	2	Fully Attained	NA
	Malware Analysis Practical	2243PSCSPR	3	2	Fully Attained	NA
	Average		2.57	2		
NA: Not Applicable as target level is fully attained.						

Table No.AB.2a: PO Attainment Level- Master of Science (Cyber Security) - M. Sc. Cyber Security Academic Year – 2022-23

Academic year	PO attainment level	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
A2022-23	5	4	Fully Attained	NA
NA: Not Applicable as target level is fully attained.				

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9. Planned Actions for Course Attainment:

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

10.Planned Actions for Program Outcome Attainment:

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

**Table No. AB.3: Results of CO-PO attainment-
- M. Sc. Cyber Security Academic Year – 2022-23**

Subject	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Mathematical foundations for cybersecurity	2111PSCSMF	1.2				1.2	1.2			1.2	1.2
Cybersecurity fundamentals	2112PSCSCF		3		3	3			3	3	
Advanced Data Structures and Algorithms	2113PSCSDS	2.2		2.2	2.2		2.2	2.2	2.2		2.2
Advanced database management systems	2114PSCSDM		1.6	1.6			1.6	1.6	1.6		1.6
Data Security and Network Security	2115PSCSNS	2.2			2.2			2.2	2.2	2.2	2.2
Software security	2116PSCSS	2	2		2		2	2		2	2
Mathematical foundations for cybersecurity practical	2111PSCSPR		3		3	3		3		3	
Cybersecurity fundamentals practical	2112PSCSPR	2		2	2		2	2	2		2
Advanced data structures practical	2113PSCSPR		4	4			4	4	4		4
Advanced database management systems practical	2114PSCSPR	3	3		3	3	3	3		3	3
Data security and network security practical	2115PSCSPR	3	3		3		3	3	3	3	3
Software security practical	2116PSCSPR	3	3		3		3	3		3	3
SEM Security and	2121	2.4	2.4		2.4		2.4	2.4		2.4	2.4

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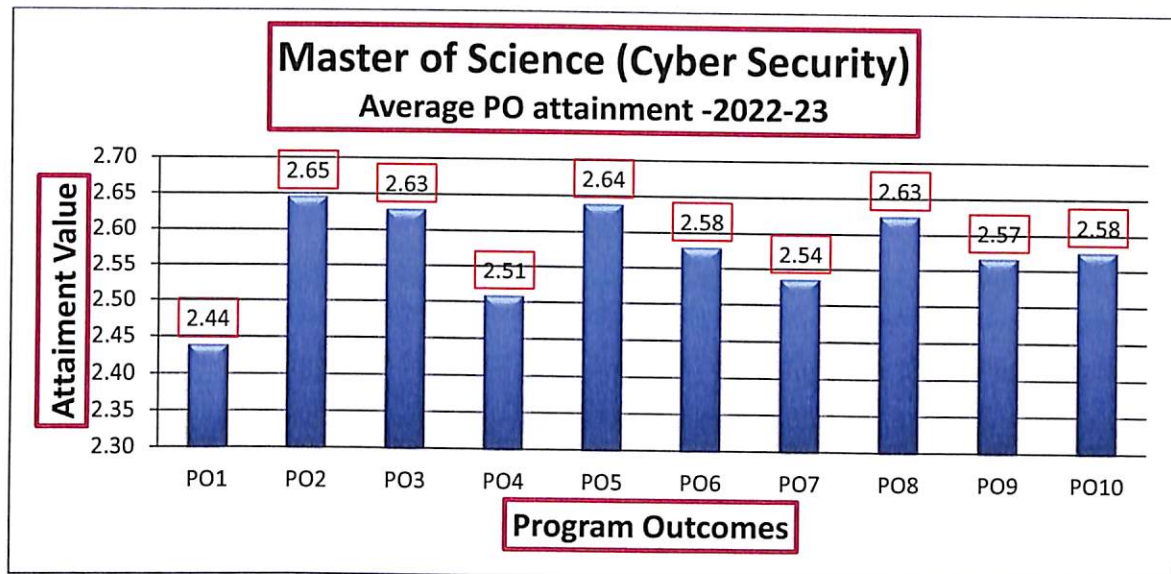
2	Risk Management	PSCSRM										
	Ethical hacking	2122PSCSEH	1.4	1.4		1.4	1.4		1.4		1.4	
	Software Engg Concepts and Methodologies	2123PSCSEC	1		1	1		1	1	1		1
	Cryptography and Biometrics	2124PSCSCB		1	1			1	1	1		1
	Securing the cloud	2125PSCSSC	0.4	0.4		0.4	0.4	0.4	0.4		0.4	0.4
	Defense in Depth	2126PSCSDD		1.4	1.4		1.4	1.4	1.4	1.4		1.4
	Security and risk management (practical)	2121PSCSPR	3	3		3	3	3	3		3	3
	Ethical hacking (practical)	2122PSCSPR	3		3		3	3	3		3	3
	Cryptography and biometrics (practical)	2124PSCSPR	3	3		3	3	3			3	3
	Securing the cloud (practical)	2125PSCSPR	1	1		1	1		1		1	1
	Defence in depth (practical)	2126PSCSPR	2	2		2		2	2		2	2
SEM 3	Iot Security	2231PSCSIT	3	3		3	3	3	3		3	3
	Iot Security (Practical)	2231PSCSPR		4	4		4	4	4	4		4
	Digital Forensics and Investigation	2232PSCSDF	3	3		3	3	3	3		3	3
	Digital Forensics and Investigation (Practical)	2232PSCSPR	3		3		3	3	3		3	3
	IT Governance, Risk and Compliance	2233PSCSIG	3		3	3		3	3	3		3
	IT Governance, Risk and Compliance (Practical)	2233PSCSPR		4	4			4	4	4		4
	Big data analytics	2234PSCSBA	3	3		3	3	3	3		3	3
	English for Research Paper writing	2235PSCSER	3	3		3	3	3	3		3	3
SEM 4	Placement training	2236PSCSPT	3		3		3	3	3		3	3
	Final Project/ Internship and Viva	2241PSCSFP	3				3	3		3	3	3
	Research	2242PSCSRM		4		4	4		4		4	4

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methodology												
Malware analysis	2243PSCSM A	3.6	3.6	3.6	3.6		3.6		3.6		3.6	
Malware analysis practical	2243PSCSPR		3			3		3	3		3	
	Average	2.44	2.65	2.63	2.51	2.64	2.58	2.54	2.63	2.57	2.58	



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

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ARTS & MANAGEMENT STUDIES AND SHANTABEN
NAGINDAS KHANDWALA COLLEGE OF SCIENCE
(AUTONOMOUS)
MALAD (W), MUMBAI - 400 064.

Table No.
Attainment level_-Undergraduate programs academic year 2022-23

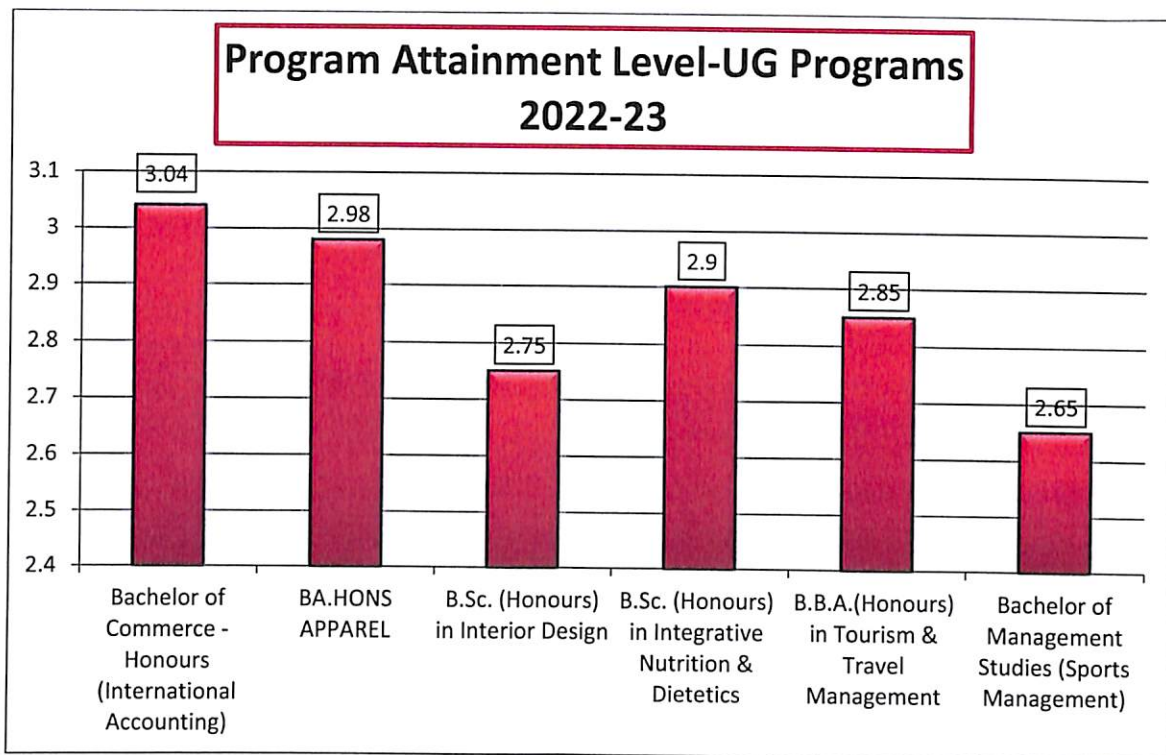
	Attainment level -Undergraduate programs							Program Attainment
Academic Year-	First Year		Second Year		Third Year		Average	
2022-23	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	Direct	Direct+ Indirect
BMS-ECOMMERCE	2.86	3.29	2.46	2.86	1.83	2	2.64	2.91
Bachelor of Commerce - Honours (International Accounting)	3.43	2.66	2.47	2.6	3	3	2.80	3.04
BA.HONS APPAREL	2.88	3.5	2.57	2.87	2.25	1.9	2.73	2.98
B.Sc. (Honours) in Interior Design	2.4	1.77	2.98	1.83	2.6	3.12	2.44	2.75
B.Sc. (Honours) in Integrative Nutrition & Dietetics	2.67	2.69	2.65	3.04	2.13	2.5	2.62	2.90
B.B.A.(Honours) in Tourism & Travel Management	2.63	3.2	2.29	2.09	2.87	2.32	2.57	2.85
Bachelor of Management Studies (Sports Management)	2.2	2.71	2	2.5	2.2	2.28	2.32	2.65

Now we provide graphical representation of PO attainment levels of UG Program for academic year 2022-23.

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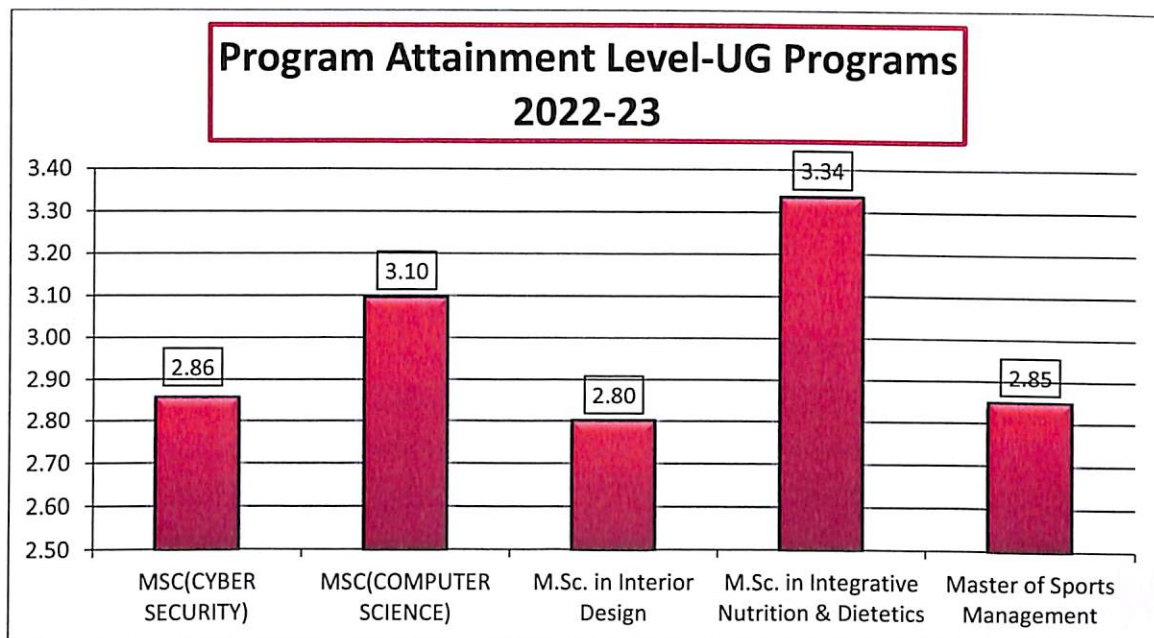
It is observed that program attainment value for all program is greater than or equal to 2.5. This indicates in this academic year, overall attainment of all UG programs is 5 i. e. Excellent. In the following table no. 1.4 provides semester wise CO attainment and PO attainment levels of 5 post graduate programs for three academic years.

**Table No.
Attainment level - Postgraduate programs academic year 2022-23**

Attainment level - Postgraduate programs academic year 2022-23						
	Attainment level - Postgraduate courses					
Academic Year-	First Year		Second Year		Average	Program Attainment
2022-23	SEM 1	SEM 2	SEM 3	SEM 4		Direct + indirect
MSC(CYBER SECURITY)	2.43	1.78	3.33	3.4	2.57	2.86
MSC(COMPUTER SCIENCE)	2.88	2.92	2.92	2.5	2.87	3.10
M.Sc. in Interior Design	2.17	2.27	2.68	3	2.5	2.80
M.Sc. in Integrative Nutrition & Dietetics	3.53	3.78	2.38	3	3.17	3.34
Master of Sports Management	2.55	2.74	2.7	2.23	2.56	2.85

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Now we provide graphical representation of PO attainment levels of PG Program for academic year 2022-23.



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

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