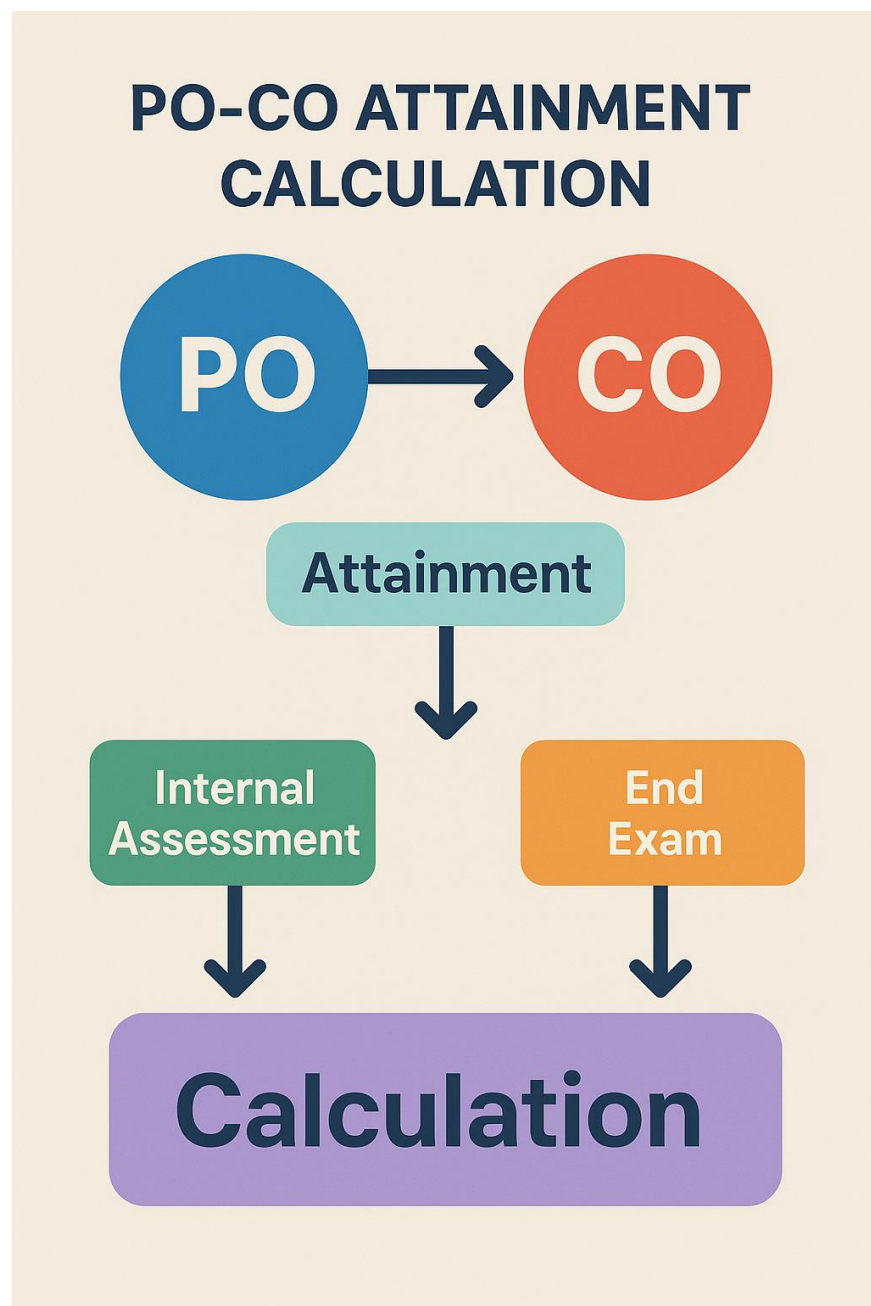




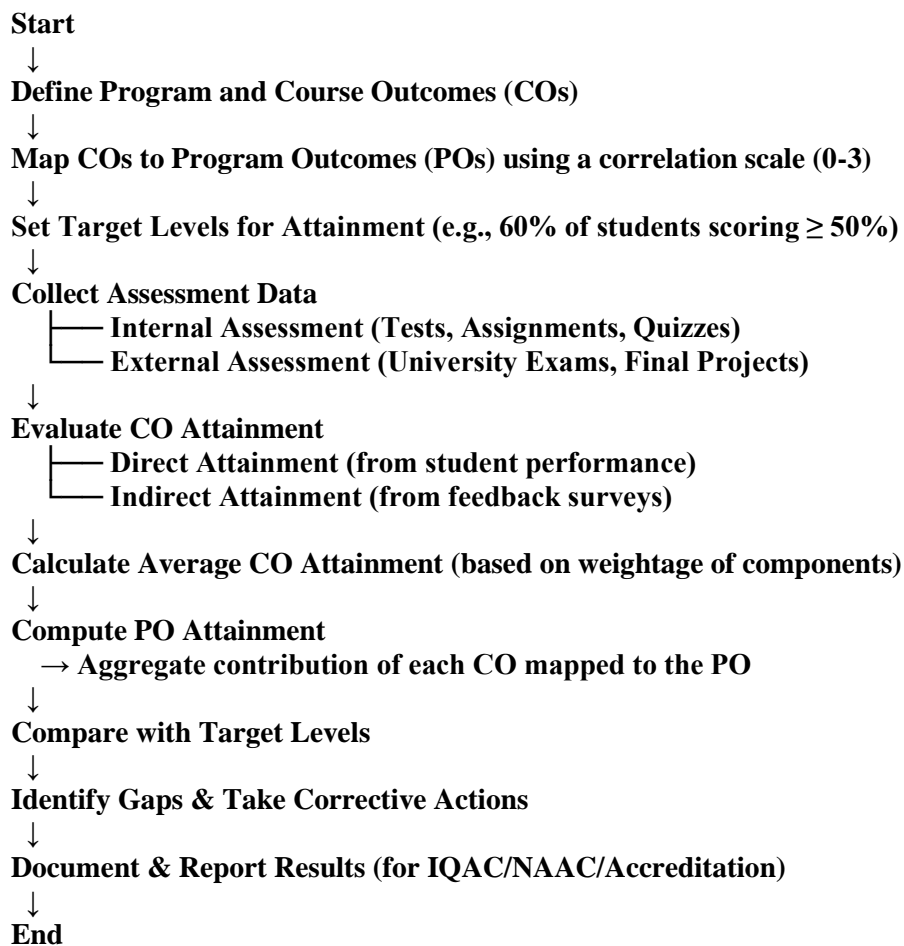
SNDT Women's University, Mumbai-20

**PO-CO Attainment** is a structured method used in Outcome-Based Education (OBE) to evaluate how well students are achieving the **Program Outcomes (POs)** through the **Course Outcomes (COs)** of individual subjects.



**SNDTWU uses RWork software to calculate the PO-CO attainment**

**Flowchart of the steps to calculate PO-CO attainment for an academic program:**



Explanation of the **methodology to measure PO-CO attainment**:

### **Steps to Measure PO-CO Attainment in Rwork Software**

#### **1. Define COs and POs and Map the Cos with the POs**

- Each course should have clearly defined **Course Outcomes (COs)**.
- **Map** each CO to relevant **POs** using a correlation scale:
  - 3 = High
  - 2 = Moderate
  - 1 = Low
  - 0 = No correlation

Enter the **COs and POs and its mapping into the Rwork Software**

## 2. Assessment Tools used during continuous evaluation

Use tools like:

- Internal Exams (IA1, IA2, Mid-term tests)
- Assignments, Projects
- Practical Exams, etc
- End-Semester Examination (University exam)

Each tool should assess one or more COs. The students with their internal and external marks is entered in the software **Rwork**

## 3. CO to PO Mapping

The **CO to PO Mapping** is done by the individual teacher and entered in the software through their login.

## 4. Calculate CO Attainment

### Direct Assessment

- Fix a target level (e.g., 60% students scoring  $\geq 60\%$  marks in CO-related questions).
- Use direct assessment:
  - Average marks obtained in questions related to each CO.
  - Normalize the result to an attainment level (usually 1 to 3 scale):
    - Level 1:  $< \text{Target}$
    - Level 2: Close to Target
    - Level 3:  $\geq \text{Target}$

You may also include **Indirect Assessment**: Through student feedback or surveys.

## 5. Set Benchmark

- Set benchmark levels (e.g., PO is attained if score  $\geq 60\%$  or Level 2.5).
- Compare current attainment to benchmark.

## 6. Co attainment and PO Attainment report

- Combine data from **all courses** contributing to the same PO.
- Take weighted average if required.

Generate the Report from the Rwork

## 7. Send the Report to Heads / Teacher incharge

## 8. Prepare the action plan and Submit to Heads / Teacher incharge.

**Below are the Sample PO CO Attainments**

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: M. L. I. SC.**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
1101.1	3	3	-	-	-	-	-	-
1101.2	3	-	-	-	2	-	-	-
1101.3	-	3	-	-	-	-	-	-
1101.4	3	-	-	-	-	-	2	3
<b>FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE (1101 I)</b>	<b>3.00</b>	<b>3.00</b>	-	-	<b>2.00</b>	-	<b>2.00</b>	<b>3.00</b>
1102.1	3	-	-	-	-	2	-	-
1102.2	2	-	-	-	-	3	-	-
1102.3	3	-	2	-	-	-	-	-
<b>MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES I (1102 I)</b>	<b>2.67</b>	-	<b>2.00</b>	-	-	<b>2.50</b>	-	-
1103.1	3	-	-	-	-	-	-	-
1103.2	3	-	3	-	-	-	-	-
1103.3	3	-	-	-	-	-	-	-
<b>KNOWLEDGE ORGANISATION (1103 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-
1104.1	3	-	3	-	-	-	-	-
1104.2	-	-	3	-	-	-	-	-
1104.3	-	-	3	-	-	-	-	-
<b>INFORMATION RETRIEVAL: TOOLS AND TECHNIQUES (1104 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-
1105.1	3	-	-	-	2	-	-	-
1105.2	2	-	-	-	3	-	-	-
<b>REFERENCE AND INFORMATION SOURCES &amp; SERVICES – I (1105 I)</b>	<b>2.50</b>	-	-	-	<b>2.50</b>	-	-	-
2101.1	3	-	3	-	-	-	-	-
2101.2	-	-	3	-	-	-	-	-
<b>ICT APPLICATIONS IN LIBRARIES (2101 II)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-
2102.1	-	-	-	3	-	-	-	-
2102.2	-	-	-	3	-	-	-	-
<b>RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS (2102 II)</b>	-	-	-	<b>3.00</b>	-	-	-	-
2103.1	3	-	-	-	3	-	-	-
2103.2	-	-	3	-	3	-	-	-

<b>REFERENCE AND INFORMATION SOURCES AND SERVICES- II (2103 II)</b>	<b>3.00</b>	-	<b>3.00</b>	-	<b>3.00</b>	-	-	-
2104.1	2	-	3	-	-	-	-	-
2104.2	-	-	3	-	-	-	-	-
<b>INFORMATION RETRIEVAL TECHNIQUES (2104 II)</b>	<b>2.00</b>	-	<b>3.00</b>	-	-	-	-	-
2105.1	3	-	-	-	-	-	-	-
2105.2	3	-	-	-	3	-	-	-
<b>ORGANIZATION AND USE OF INFORMATION SOURCES (2105 II)</b>	<b>3.00</b>	-	-	-	<b>3.00</b>	-	-	-
3101.1	3	-	-	3	-	-	-	-
3101.2	3	2	-	-	-	-	-	-
<b>INFORMATION, KNOWLEDGE AND SOCIETY (3101 I)</b>	<b>3.00</b>	<b>2.00</b>	-	<b>3.00</b>	-	-	-	-
3102.1	-	-	-	-	-	3	-	-
3102.2	-	-	-	-	3	3	-	-
<b>MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES II (3102 I)</b>	-	-	-	-	<b>3.00</b>	<b>3.00</b>	-	-
3103.1	-	-	3	-	-	-	-	-
3103.2	-	3	3	-	-	-	-	-
<b>DIGITAL LIBRARIES (3103 I)</b>	-	<b>3.00</b>	<b>3.00</b>	-	-	-	-	-
4111.1	3	-	-	-	3	-	-	-
4111.2	-	-	-	-	3	-	-	-
<b>SCHOOL AND CHILDREN LIBRARIANSHIP (4111 II)</b>	<b>3.00</b>	-	-	-	<b>3.00</b>	-	-	-
4112.1	3	3	-	-	-	-	-	-
4112.2	-	3	-	-	-	-	-	-
<b>ARCHIVES MANAGEMENT (4112 II)</b>	<b>3.00</b>	<b>3.00</b>	-	-	-	-	-	-
4181.1	-	-	-	3	-	-	3	-
<b>DISSERTATION (4181 II)</b>	-	-	-	<b>3.00</b>	-	-	<b>3.00</b>	-
4191.1	-	-	-	-	-	3	3	-
<b>INTERNSHIP (4191 II)</b>	-	-	-	-	-	<b>3.00</b>	<b>3.00</b>	-

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**COURSE-CO ATTAINMENT**

DEPARTMENT:  
EDUCATIONAL UNIT:SNDTWU, CHURCHGATE CAMPUS (I)  
PROGRAM:M. L. I. SC.  
CLASS: FIRST YEAR  
DIVISION:A

SEMESTER:SEMESTER I  
COURSE : FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE (1101)  
ACADEMIC YEAR: 2022-23

**FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE (1101) Co Attainment FIRST YEAR Div.- A for A.Y - 2022-23**

**Attainment through Semester End Examination Weightage (%): 50**

Sr. No.	Tools	1101.1		1101.2		1101.3		1101.4	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	2	3	2	3	2	3	2	3
<b>Target and Attainment of Semester End Examination Assessment</b>		2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00

**Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 50**

Sr. No.	Tools	1101.1		1101.2		1101.3		1101.4	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	UT1 (I)	3	3	3	3	NA	NA	NA	NA
2	UT2 (I)	NA	NA	NA	NA	3	3	3	3
3	ASSIGNMENT (I)	NA	NA	3	3	3	3	NA	NA
4	PRESENTATION INTERNAL (I)	2	3	2	3	NA	NA	NA	NA
5	MIND MAP (I)	NA	NA	NA	NA	2	3	2	3
<b>Target and Attainment of Cumulative Internal Examinations Assessment</b>		2.50	3.00	2.67	3.00	2.67	3.00	2.50	3.00

**Overall Course CO Attainment**

Sr. No.	Tool Type	1101.1		1101.2		1101.3		1101.4		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00
2	Attainment through Cumulative Internal Examinations Assessment	2.50	3.00	2.67	3.00	2.67	3.00	2.50	3.00	2.59	3.00
<b>Co Target and Direct Attainment</b>		2.25	3.00	2.34	3.00	2.34	3.00	2.25	3.00	2.29	3.00

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: SNDTWU, CHURCHGATE CAMPUS  
PROGRAM: M. L. I. SC. (1122)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
1	FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE [1101 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	3.00	-	-	2.00	-	2.00	3.00
2	MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES I [1102 (I A)]	FIRST YEAR [2022-23]	3.00	2.67	-	2.00	-	-	2.50	-	-
3	KNOWLEDGE ORGANISATION [1103 (I A)]	FIRST YEAR [2022-23]	2.50	2.50	-	2.50	-	-	-	-	-
4	INFORMATION RETRIEVAL: TOOLS AND TECHNIQUES [1104 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	-	-	-	-
5	REFERENCE AND INFORMATION SOURCES & SERVICES I [1105 (I A)]	FIRST YEAR [2022-23]	3.00	2.50	-	-	-	2.50	-	-	-
6	ICT APPLICATIONS IN LIBRARIES [2101 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	-	-	-	-
7	RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS [2102 (II A)]	FIRST YEAR [2022-23]	3.00	-	-	-	3.00	-	-	-	-
8	REFERENCE AND INFORMATION SOURCES AND SERVICES- II [2103 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	3.00	-	-	-
9	INFORMATION RETRIEVAL TECHNIQUES [2104 (II A)]	FIRST YEAR [2022-23]	3.00	2.00	-	3.00	-	-	-	-	-
10	ORGANIZATION AND USE OF INFORMATION SOURCES [2105 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	-	3.00	-	-	-
11	INFORMATION, KNOWLEDGE AND SOCIETY [3101 (I A)]	SECOND YEAR [2023-24]	0.00	-	-	-	-	-	-	-	-
12	MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES II [3102 (I A)]	SECOND YEAR [2023-24]	3.00	-	-	-	-	3.00	3.00	-	-
13	DIGITAL LIBRARIES [3103 (I A)]	SECOND YEAR [2023-24]	3.00	-	3.00	3.00	-	-	-	-	-
14	SCHOOL AND CHILDREN LIBRARIANSHIP [4111 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	-	-	-	3.00	-	-	-
15	ARCHIVES MANAGEMENT [4112 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	-	-	-	-	-
16	DISSERTATION [4181 (II A)]	SECOND YEAR [2023-24]	3.00	-	-	-	3.00	-	-	3.00	-
17	INTERNSHIP [4191 (II A)]	SECOND YEAR [2023-24]	3.00	-	-	-	-	-	3.00	3.00	-
<b>Direct Attainment</b>				2.79	3.00	2.79	3.00	2.75	2.83	2.67	3.00

## **PO/CO Attainment Analysis – FIRST YEAR [2022-23]**

Institution: SNDT Women's University, Churchgate Campus

Program: M.L.I.Sc. (Master of Library and Information Science – CBCS)

Batch: 2022–2024

Course: FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE [1101 ( I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES I [1102 ( I A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: KNOWLEDGE ORGANISATION [1103 ( I A)]

Total Attainment: 2.50

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: INFORMATION RETRIEVAL: TOOLS AND TECHNIQUES [1104 ( I A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: REFERENCE AND INFORMATION SOURCES & SERVICES – I [1105 ( I A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.



Course: ICT APPLICATIONS IN LIBRARIES [2101 ( II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS [2102 ( II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: REFERENCE AND INFORMATION SOURCES AND SERVICES- II [2103 ( II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: INFORMATION RETRIEVAL TECHNIQUES [2104 ( II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: ORGANIZATION AND USE OF INFORMATION SOURCES [2105 ( II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

## **PO/CO Attainment Analysis – SECOND YEAR [2023-24]**

Institution: SNDT Women's University, Churchgate Campus

Program: M.L.I.Sc. (Master of Library and Information Science – CBCS)

Batch: 2022–2024

Course: INFORMATION, KNOWLEDGE AND SOCIETY [3101 ( I A)]

Total Attainment: 0.00

Analysis: Low attainment raises concern about the delivery and comprehension of core concepts.

Suggestions for Improvement: Revise course objectives and redesign evaluations for better outcome mapping.

Course: MANAGEMENT OF KNOWLEDGE RESOURCE CENTRES II [3102 ( I A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: DIGITAL LIBRARIES [3103 ( I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: SCHOOL AND CHILDREN LIBRARIANSHIP [4111 ( II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: ARCHIVES MANAGEMENT [4112 ( II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Continue the current teaching approach while incorporating

reflective feedback.

Course: DISSERTATION [4181 ( II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: INTERNSHIP [4191 ( II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: M. B. A. (FINANCE)**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1001.1	3	2	-	2	-	-	-
1001.2	3	2	-	3	-	-	-
1001.3	3	3	-	3	-	-	-
<b>MANAGERIAL ECONOMICS (1001 I)</b>	<b>3.00</b>	<b>2.33</b>	<b>-</b>	<b>2.67</b>	<b>-</b>	<b>-</b>	<b>-</b>
1002.1	2	-	-	1	-	2	-
1002.2	3	-	-	2	-	3	-
1002.3	3	-	-	3	-	3	-
<b>BUSINESS COMMUNICATION (1002 I)</b>	<b>2.67</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>2.67</b>	<b>-</b>
1003.1	3	3	-	2	-	-	-
1003.2	3	3	-	3	-	-	-
1003.3	2	3	-	2	2	-	-
<b>FINANCIAL REPORTING, STATEMENTS AND ANALYSIS (1003 I)</b>	<b>2.67</b>	<b>3.00</b>	<b>-</b>	<b>2.33</b>	<b>2.00</b>	<b>-</b>	<b>-</b>
1004.1	3	-	-	2	-	2	-
1004.2	3	-	-	3	-	2	-
1004.3	3	-	-	3	-	-	2
1004.4	3	-	-	3	-	-	2
<b>MARKETING MANAGEMENT (1004 I)</b>	<b>3.00</b>	<b>-</b>	<b>-</b>	<b>2.75</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>
1005.1	3	2	-	2	-	2	-
1005.2	3	2	-	2	-	2	-
1005.3	3	3	-	3	-	2	-
1005.4	2	-	-	2	-	1	-
<b>COMPUTER APPLICATIONS FOR BUSINESS 2 (1005 I)</b>	<b>2.75</b>	<b>2.33</b>	<b>-</b>	<b>2.25</b>	<b>-</b>	<b>1.75</b>	<b>-</b>
1006.1	3	-	-	2	-	1	-
1006.2	3	-	-	2	-	2	-
1006.3	3	-	-	3	-	-	-
1006.4	3	-	-	3	-	-	-
<b>MANAGERIAL SKILLS FOR EFFECTIVENESS (1006 I)</b>	<b>3.00</b>	<b>-</b>	<b>-</b>	<b>2.50</b>	<b>-</b>	<b>1.50</b>	<b>-</b>
1007.1	3	-	-	2	-	2	-
1007.2	3	-	-	3	-	-	-
1007.3	3	-	-	3	-	-	-
1007.4	3	-	-	3	-	-	-

<b>ORGANIZATIONAL BEHAVIOR (1007 I)</b>	<b>3.00</b>	-	-	<b>2.75</b>	-	<b>2.00</b>	-
1008.1	3	-	-	2	-	-	-
1008.2	3	2	-	-	-	-	-
<b>BUSINESS STATISTICS AND ANALYTICS FOR DECISION MAKING (1008 I)</b>	<b>3.00</b>	<b>2.00</b>	-	<b>2.00</b>	-	-	-
2001.1	3	2	-	2	1	1	-
2001.2	3	3	-	3	1	2	-
<b>INDIAN ECONOMY AND POLICY (2001 II)</b>	<b>3.00</b>	<b>2.50</b>	-	<b>2.50</b>	<b>1.00</b>	<b>1.50</b>	-
2002.1	3	2	-	2	2	1	-
2002.2	3	3	-	2	2	1	-
<b>LEGAL AND BUSINESS ENVIRONMENT (2002 II)</b>	<b>3.00</b>	<b>2.50</b>	-	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	-
2003.1	3	3	-	3	-	-	-
2003.2	3	3	-	3	-	-	-
2003.3	3	3	-	3	-	-	-
2003.4	3	3	-	3	-	-	-
2003.5	3	3	-	3	-	-	-
<b>CORPORATE FINANCE (2003 II)</b>	<b>3.00</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-
2004.1	3	2	-	3	-	-	-
2004.2	3	2	-	3	-	-	-
<b>BUSINESS RESEARCH METHODOLOGY (2004 II)</b>	<b>3.00</b>	<b>2.00</b>	-	<b>3.00</b>	-	-	-
2005.1	3	-	-	2	-	1	-
2005.2	3	-	-	2	-	1	-
2005.3	3	-	-	2	-	1	-
<b>OPERATIONS MANAGEMENT (2005 II)</b>	<b>3.00</b>	-	-	<b>2.00</b>	-	<b>1.00</b>	-
2006.1	3	-	-	2	-	-	-
2006.2	3	-	-	3	-	-	-
2006.3	3	2	-	3	-	-	-
<b>PROJECT MANAGEMENT (2006 II)</b>	<b>3.00</b>	<b>2.00</b>	-	<b>2.67</b>	-	-	-
2007.1	3	-	-	2	2	-	-
2007.2	3	-	-	2	2	-	-
2007.3	3	-	-	3	2	-	-
<b>HUMAN RESOURCE MANAGEMENT (2007 II)</b>	<b>3.00</b>	-	-	<b>2.33</b>	<b>2.00</b>	-	-
2008.1	3	2	-	2	-	-	-
2008.2	-	-	-	-	-	-	-
<b>QUANTITATIVE TECHNIQUES (2008 II)</b>	<b>3.00</b>	<b>2.00</b>	-	<b>2.00</b>	-	-	-
3001.1	2	-	-	2	3	2	-
3001.2	2	-	-	2	3	3	-
3001.3	3	-	-	2	3	2	-
3001.4	2	-	-	2	2	3	-

<b>INDIAN ETHOS, BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABILITY (3001 I)</b>	<b>2.25</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>2.75</b>	<b>2.50</b>	<b>-</b>
3002.1	2	-	3	2	-	-	3
3002.2	2	-	3	2	-	-	3
3002.3	2	-	3	2	-	-	3
3002.4	3	-	2	3	-	-	3
<b>ENTREPRENEURSHIP AND SECTORAL SPECIALIZATION (3002 I)</b>	<b>2.25</b>	<b>-</b>	<b>2.75</b>	<b>2.25</b>	<b>-</b>	<b>-</b>	<b>3.00</b>
3003.1	3	3	2	3	-	2	2
<b>SUMMER INTERNSHIP (3003 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>
3004.1	3	3	-	2	-	-	-
3004.2	3	3	-	2	-	-	-
3004.3	3	3	-	3	-	-	-
<b>COST AND MANAGEMENT ACCOUNTING (3004 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.33</b>	<b>-</b>	<b>-</b>	<b>-</b>
3005.1	3	3	-	2	1	2	-
3005.2	3	3	-	3	-	2	-
3005.3	3	3	-	3	-	-	-
3005.4	3	3	-	2	-	-	-
<b>FINANCIAL MARKETS AND SERVICES (3005 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.50</b>	<b>1.00</b>	<b>2.00</b>	<b>-</b>
3006.1	3	3	-	2	-	-	-
3006.2	3	3	-	2	-	-	-
3006.3	3	3	-	2	-	-	-
3006.4	3	3	-	2	2	1	-
<b>MANAGING BANKS AND FINANCIAL INSTITUTIONS (3006 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>-</b>
3007.1	3	3	-	2	-	-	-
3007.2	3	3	-	3	-	-	-
3007.3	3	3	-	3	-	-	-
<b>PROJECT APPRAISAL AND FINANCE (3007 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.67</b>	<b>-</b>	<b>-</b>	<b>-</b>
3008.1	3	3	-	2	-	-	-
3008.2	3	3	-	3	-	-	-
<b>INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT (3008 I)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.50</b>	<b>-</b>	<b>-</b>	<b>-</b>
4001.1	3	2	-	2	-	-	-
4001.2	3	2	-	3	-	1	-
4001.3	3	2	-	3	-	2	-
4001.4	3	2	-	3	-	2	-

<b>CORPORATE STRATEGY (4001 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>-</b>	<b>2.75</b>	<b>-</b>	<b>1.67</b>	<b>-</b>
4002.1	3	3	-	2	-	-	-
4002.2	3	3	-	3	-	-	-
4002.3	3	3	-	3	-	-	-
4002.4	3	3	-	3	-	-	-
4002.5	3	3	-	3	-	-	-
4002.6	3	3	-	3	-	-	-
<b>MERGERS, ACQUISITIONS ,CORPORATE RESTRUCTURING AND VALUATION (4002 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.83</b>	<b>-</b>	<b>-</b>	<b>-</b>
4003.1	3	3	-	2	-	-	-
4003.2	3	3	-	3	-	-	-
4003.3	3	3	-	3	-	-	-
4003.4	3	3	-	3	-	-	-
<b>FINANCIAL DERIVATIVES (4003 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.75</b>	<b>-</b>	<b>-</b>	<b>-</b>
4004.1	3	3	-	2	-	3	-
4004.2	3	3	-	3	-	3	-
4004.3	3	3	-	2	-	3	-
<b>INTERNATIONAL FINANCE (4004 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.33</b>	<b>-</b>	<b>3.00</b>	<b>-</b>
4005.1	3	3	-	2	2	-	-
4005.2	3	3	-	3	2	-	-
4005.3	3	3	-	2	2	-	-
4005.4	3	3	-	2	2	-	-
<b>TAXATION (4005 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.25</b>	<b>2.00</b>	<b>-</b>	<b>-</b>
4006.1	3	3	-	2	-	-	-
4006.2	3	3	-	3	-	-	-
4006.3	3	3	-	3	-	-	-
<b>BEHAVIORAL FINANCE (4006 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>2.67</b>	<b>-</b>	<b>-</b>	<b>-</b>
4007.1	3	2	-	3	-	-	-
4007.2	3	2	-	3	-	-	-
4007.3	3	3	-	3	-	-	-
4007.4	3	2	-	2	-	-	-
<b>RESEARCH PROJECT (YEAR LONG PROJECT) (4007 II)</b>	<b>3.00</b>	<b>2.25</b>	<b>-</b>	<b>2.75</b>	<b>-</b>	<b>-</b>	<b>-</b>

**SNDT WOMEN'S UNIVERSITY, MUMBAI****COURSE-CO ATTAINMENT**

EDUCATIONAL UNIT: JANKIDEVI BAJAJ INSTITUTE OF MANAGEMENT STUDIES (035)

PROGRAM: M. B. A. (FINANCE)

CLASS: FIRST YEAR

DIVISION: A

SEMESTER: SEMESTER I

COURSE : MANAGERIAL ECONOMICS (1001)

ACADEMIC YEAR: 2022-23

**Attainment through Semester End Examination Weightage (%): 50**

Sr. No.	Tools	1001.1		1001.2		1001.3	
		Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	3	3	3	3	3	3
<b>Target and Attainment of Semester End Examination Assessment</b>		3.00	3.00	3.00	3.00	3.00	3.00

**Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 50**

Sr. No.	Tools	1001.1		1001.2		1001.3	
		Target	Attainment	Target	Attainment	Target	Attainment
1	ASSIGNMENT 1 (I)	NA	NA	3	3	2	3
2	ASSIGNMENT 2 (I)	2	3	3	3	NA	NA
<b>Target and Attainment of Cumulative Internal Examinations Assessment</b>		2.00	3.00	3.00	3.00	2.00	3.00

**Overall Course CO Attainment**

Sr. No.	Tool Type	1001.1		1001.2		1001.3		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
2	Attainment through Cumulative Internal Examinations Assessment	2.00	3.00	3.00	3.00	2.00	3.00	2.33	3.00
<b>Co Target and Direct Attainment</b>		2.50	3.00	3.00	3.00	2.50	3.00	2.67	3.00



**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: JANKIDEVI BAJAJ INSTITUTE OF MANAGEMENT STUDIES  
PROGRAM: M. B. A. (FINANCE) (2134)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	MANAGERIAL ECONOMICS [1001 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	2.33	-	2.67	-	-	-
2	BUSINESS COMMUNICATION [1002 (I A)]	FIRST YEAR [2022-23]	3.00	2.67	-	-	2.00	-	2.67	-
3	FINANCIAL REPORTING, STATEMENTS AND ANALYSIS [1003 (I A)]	FIRST YEAR [2022-23]	3.00	2.67	3.00	-	2.33	2.00	-	-
4	MARKETING MANAGEMENT [1004 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	2.75	-	2.00	2.00
5	COMPUTER APPLICATIONS FOR BUSINESS 2 [1005 (I A)]	FIRST YEAR [2022-23]	3.00	2.75	2.33	-	2.25	-	1.75	-
6	MANAGERIAL SKILLS FOR EFFECTIVENESS [1006 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	2.50	-	1.50	-
7	ORGANIZATIONAL BEHAVIOR [1007 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	2.75	-	2.00	-
8	BUSINESS STATISTICS AND ANALYTICS FOR DECISION MAKING [1008 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	-	2.00	-	-	-
9	INDIAN ECONOMY AND POLICY [2001 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.50	-	2.50	1.00	1.50	-
10	LEGAL AND BUSINESS ENVIRONMENT [2002 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.50	-	2.00	2.00	1.00	-
11	CORPORATE FINANCE [2003 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	3.00	-	3.00	-	-	-
12	BUSINESS RESEARCH METHODOLOGY [2004 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	-	3.00	-	-	-
13	OPERATIONS MANAGEMENT [2005 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	2.00	-	1.00	-
14	PROJECT MANAGEMENT [2006 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	-	2.67	-	-	-
15	HUMAN RESOURCE MANAGEMENT [2007 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	-	-	2.33	2.00	-	-
16	QUANTITATIVE TECHNIQUES [2008 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	-	2.00	-	-	-
17	INDIAN ETHOS, BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABILITY [3001 (I A)]	SECOND YEAR [2023-24]	3.00	2.25	-	-	2.00	2.75	2.50	-
18	ENTREPRENEURSHIP AND SECTORAL SPECIALIZATION [3002 (I A)]	SECOND YEAR [2023-24]	3.00	2.25	-	2.75	2.25	-	-	3.00
19	SUMMER INTERNSHIP [3003 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	2.00	3.00	-	2.00	2.00
20	COST AND MANAGEMENT ACCOUNTING [3004 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.33	-	-	-
21	FINANCIAL MARKETS AND SERVICES [3005 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.50	1.00	2.00	-
22	MANAGING BANKS AND FINANCIAL INSTITUTIONS [3006 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.00	2.00	1.00	-
23	PROJECT APPRAISAL AND FINANCE [3007 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.67	-	-	-
24	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT [3008 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.50	-	-	-
25	CORPORATE STRATEGY [4001 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	2.00	-	2.75	-	1.67	-
26	MERGERS, ACQUISITIONS ,CORPORATE RESTRUCTURING AND VALUATION [4002 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.83	-	-	-
27	FINANCIAL DERIVATIVES [4003 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.75	-	-	-
28	INTERNATIONAL FINANCE [4004 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.33	-	3.00	-
29	TAXATION [4005 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.25	2.00	-	-
30	BEHAVIORAL FINANCE [4006 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	-	2.67	-	-	-
31	RESEARCH PROJECT (YEAR LONG PROJECT) [4007 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	2.25	-	2.75	-	-	-
<b>Direct Attainment</b>				<b>2.92</b>	<b>2.65</b>	<b>2.38</b>	<b>2.46</b>	<b>1.84</b>	<b>1.83</b>	<b>2.33</b>

## **PO/CO Attainment Analysis – FIRST YEAR [2022-23]**

Institution: SNDT Women's University

Program: M.B.A. (Finance)

Batch: 2022–2024

Course: MANAGERIAL ECONOMICS [1001 ( I A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: BUSINESS COMMUNICATION [1002 ( I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: FINANCIAL REPORTING, STATEMENTS AND ANALYSIS [1003 ( I A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: MARKETING MANAGEMENT [1004 ( I A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: COMPUTER APPLICATIONS FOR BUSINESS 2 [1005 ( I A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with

program outcomes.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: MANAGERIAL SKILLS FOR EFFECTIVENESS [1006 ( I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: ORGANIZATIONAL BEHAVIOR [1007 ( I A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: BUSINESS STATISTICS AND ANALYTICS FOR DECISION MAKING [1008 ( I A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: INDIAN ECONOMY AND POLICY [2001 ( II A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: LEGAL AND BUSINESS ENVIRONMENT [2002 ( II A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: CORPORATE FINANCE [2003 ( II A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: BUSINESS RESEARCH METHODOLOGY [2004 ( II A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: OPERATIONS MANAGEMENT [2005 ( II A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: PROJECT MANAGEMENT [2006 ( II A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: HUMAN RESOURCE MANAGEMENT [2007 ( II A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: QUANTITATIVE TECHNIQUES [2008 ( II A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

## **PO/CO Attainment Analysis – SECOND YEAR [2023-24]**

Institution: SNDT Women's University

Program: M.B.A. (Finance)

Batch: 2022–2024

Course: INDIAN ETHOS, BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABILITY [3001 ( I A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: ENTREPRENEURSHIP AND SECTORAL SPECIALIZATION [3002 ( I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: SUMMER INTERNSHIP [3003 ( I A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: COST AND MANAGEMENT ACCOUNTING [3004 ( I A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: FINANCIAL MARKETS AND SERVICES [3005 ( I A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: MANAGING BANKS AND FINANCIAL INSTITUTIONS [3006 ( I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: PROJECT APPRAISAL AND FINANCE [3007 ( I A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT [3008 ( I A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: CORPORATE STRATEGY [4001 ( II A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: MERGERS, ACQUISITIONS ,CORPORATE RESTRUCTURING AND VALUATION [4002 ( II A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to

further enrich learning outcomes.

Course: FINANCIAL DERIVATIVES [4003 ( II A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: INTERNATIONAL FINANCE [4004 ( II A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: TAXATION [4005 ( II A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: BEHAVIORAL FINANCE [4006 ( II A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: RESEARCH PROJECT (YEAR LONG PROJECT) [4007 ( II A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.



Date: 16-06-2025

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: MCA**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
1101.1	3	2	-	-	-	3	-	-	-	-	-	-
1101.2	3	3	-	-	-	3	-	-	-	-	-	-
1101.3	3	2	-	-	-	3	-	-	-	-	-	-
1101.4	3	3	-	-	-	3	-	-	-	-	-	-
<b>MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE (1101 I)</b>	<b>3.00</b>	<b>2.50</b>	-	-	-	<b>3.00</b>	-	-	-	-	-	-
1102.1	-	3	-	-	2	-	-	3	-	-	-	-
1102.2	-	3	-	-	3	-	-	3	-	-	-	-
1102.3	-	-	-	3	-	-	-	3	-	-	-	-
1102.4	-	-	-	-	3	-	-	-	-	-	-	3
1102.5	-	-	-	3	3	-	-	-	-	-	-	3
1102.6	-	-	-	3	3	-	-	-	-	-	-	3
<b>RESEARCH METHODOLOGY AND IPR (1102 I)</b>	-	<b>3.00</b>	-	<b>3.00</b>	<b>2.80</b>	-	-	<b>3.00</b>	-	-	-	<b>3.00</b>
1103.1	3	-	3	-	-	3	-	-	-	-	-	-
1103.2	3	-	3	-	-	3	-	-	-	-	-	-
1103.3	3	-	3	-	-	3	-	-	-	-	-	-
1103.4	3	-	3	-	-	3	-	-	-	3	-	-
<b>ADVANCED DATA STRUCTURE (1103 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	<b>3.00</b>	-	-	-	<b>3.00</b>	-	-
1104.1	3	-	3	-	-	-	-	-	3	-	-	-
1104.2	3	-	3	-	-	-	-	-	3	-	-	-
1104.3	3	-	3	-	-	-	-	-	3	-	-	-
1104.4	3	-	3	-	-	-	-	-	3	-	-	-

<b>ADVANCED JAVA (CONTENTS: SPRING, MVC, NET BEANS AND HIBERNATE) (1104 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-	<b>3.00</b>	-	-	-
1105.1	3	-	3	-	-	-	-	-	-	3	-	-
1105.2	3	-	3	-	-	-	-	-	-	3	-	-
<b>COMPUTER NETWORK PROGRAMMING USING LINUX (1105 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-	-	<b>3.00</b>	-	-
1201.1	3	-	3	-	-	3	-	-	-	3	-	-
1201.2	3	-	3	-	-	3	-	-	-	-	-	-
1201.3	3	-	3	-	-	3	-	-	-	3	-	-
1201.4	3	-	3	-	-	3	-	-	-	3	-	-
<b>ADVANCED DATA STRUCTURE LAB (1201 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	<b>3.00</b>	-	-	-	<b>3.00</b>	-	-
1202.1	3	-	3	-	-	-	-	-	3	-	-	-
1202.2	3	-	3	-	-	-	-	-	3	-	-	-
1202.3	3	-	3	-	-	-	-	-	3	-	-	-
1202.4	3	-	3	-	-	-	-	-	3	-	-	-
<b>ADVANCED JAVA LAB (1202 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-	<b>3.00</b>	-	-	-
1203.1	3	-	3	-	-	-	-	-	-	3	-	-
1203.2	3	-	3	-	-	-	-	-	-	3	-	-
<b>COMPUTER NETWORK PROGRAMMING LAB (1203 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	-	-	-	-	<b>3.00</b>	-	-
1204.1	2	3	1	3	2	2	1	3	1	1	2	1
1204.2	3	3	1	2	3	3	2	3	1	1	3	2
1204.3	2	3	2	3	2	2	2	3	1	2	3	1
<b>RESEARCH PAPER I - LITERATURE REVIEW (REVIEW PAPER) (1204 I)</b>	<b>2.33</b>	<b>3.00</b>	<b>1.33</b>	<b>2.67</b>	<b>2.33</b>	<b>2.33</b>	<b>1.67</b>	<b>3.00</b>	<b>1.00</b>	<b>1.33</b>	<b>2.67</b>	<b>1.33</b>
2101.1	1	2	1	1	2	1	-	-	-	-	2	1
2101.2	1	2	1	1	2	1	-	-	-	-	2	1
2101.3	1	2	1	1	2	1	-	-	-	-	2	1
2101.4	1	2	2	1	2	2	-	-	-	-	3	2
2101.5	1	2	2	1	2	2	-	-	-	-	3	2
2101.6	1	2	2	1	2	2	-	-	-	-	3	2
<b>MANAGERIAL ECONOMICS (2101 II)</b>	<b>1.00</b>	<b>2.00</b>	<b>1.50</b>	<b>1.00</b>	<b>2.00</b>	<b>1.50</b>	-	-	-	-	<b>2.50</b>	<b>1.50</b>

2102.1	3	2	2	1	2	3	-	-	2	3	2	1
2102.2	3	2	2	1	2	3	-	-	2	3	2	1
2102.3	3	2	3	1	2	3	-	-	2	3	2	1
2102.4	3	3	3	1	2	3	-	-	2	3	2	1
2102.5	3	3	3	1	2	3	-	-	2	3	2	1
2102.6	3	3	3	1	2	3	-	-	2	3	2	1
<b>SOFTWARE ARCHITECTURE (2102 II)</b>	<b>3.00</b>	<b>2.50</b>	<b>2.67</b>	<b>1.00</b>	<b>2.00</b>	<b>3.00</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>
2103.1	3	2	3	1	3	2	3	2	2	3	3	2
2103.2	3	2	3	1	3	2	3	2	2	3	3	2
2103.3	3	2	3	1	3	2	3	2	2	3	3	2
2103.4	3	2	3	1	3	2	3	2	2	3	3	2
<b>ARTIFICIAL INTELLIGENCE (2103 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>
2104.1	3	2	3	1	3	3	2	3	3	3	2	2
<b>ADVANCED DATABASES (2104 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>
2201.1	3	2	3	1	3	3	2	3	3	3	3	3
2201.2	3	2	3	1	3	3	2	3	3	3	3	3
2201.3	3	2	3	1	3	3	2	3	3	3	3	3
2201.4	3	2	3	1	3	3	2	3	3	3	3	3
2201.5	3	2	3	1	3	3	2	3	3	3	3	3
2201.6	3	2	3	1	3	3	2	3	3	3	3	3
2201.7	3	2	3	1	3	3	2	3	3	3	3	3
2201.8	3	2	3	1	3	3	2	3	3	3	3	3

<b>WEB ENGINEERING LAB(CONTENTS: CSS, ANGULAR JS, NODE JS, PHP, MYSQL,ETC ) (2201 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>
2202.1	3	3	3	2	3	3	2	2	3	3	3	3
2202.2	3	3	3	2	3	3	2	2	3	3	3	3
2202.3	3	3	3	2	3	3	2	2	3	3	3	3
2202.4	3	3	3	2	3	3	2	2	3	3	3	3
2202.5	3	3	3	2	3	3	2	2	3	3	3	3
2202.6	3	3	3	2	3	3	2	2	3	3	3	3
<b>SOFTWARE TESTING AND QUALITY ASSURANCE LAB (2202 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>
2203.1	3	2	3	1	3	3	2	3	3	3	3	3
2203.2	3	2	3	1	3	3	2	3	3	3	3	3
<b>MOBILE COMPUTING LAB (2203 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>
2204.1	3	2	3	1	3	3	2	3	3	3	3	3
2204.2	3	2	3	1	3	3	2	3	3	3	3	3
<b>ARTIFICIAL INTELLIGENCE LAB (2204 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>
2205.1	3	2	3	1	3	3	2	3	3	3	3	3
2205.2	3	2	3	1	3	3	2	3	3	3	3	3
<b>ADVANCED DATABASES LAB (2205 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>
2206.1	2	3	1	2	3	2	2	3	1	1	3	1
2206.2	3	3	2	1	2	3	3	3	2	2	2	2
<b>RESEARCH PAPER II - RESEARCH MINI PROJECT (2206 II)</b>	<b>2.50</b>	<b>3.00</b>	<b>1.50</b>	<b>1.50</b>	<b>2.50</b>	<b>2.50</b>	<b>2.50</b>	<b>3.00</b>	<b>1.50</b>	<b>1.50</b>	<b>2.50</b>	<b>1.50</b>
3101.1	3	-	-	2	-	-	-	-	-	-	-	-
3101.2	-	3	-	2	-	-	-	-	-	-	-	-
3101.3	2	-	3	-	-	-	-	-	-	-	-	-
3101.4	-	-	3	3	-	-	-	-	-	-	2	-



<b>CLOUD COMPUTING LAB (3202 I)</b>	<b>3.00</b>	-	<b>2.75</b>	-	-	<b>2.00</b>	-	-	<b>2.50</b>	<b>2.00</b>	-	-
32032.1	3	-	-	-	-	2	-	-	-	-	-	-
32032.2	-	-	2	-	-	-	3	-	-	-	-	-
32032.3	-	-	3	-	-	-	-	-	2	-	-	-
<b>gis lab (32032 I)</b>	<b>3.00</b>	-	<b>2.50</b>	-	-	<b>2.00</b>	<b>3.00</b>	-	<b>2.00</b>	-	-	-
32035.1	3	-	-	-	-	2	-	-	-	-	-	-
32035.2	-	-	3	-	-	-	2	-	-	-	-	-
32035.3	-	-	3	-	-	-	-	-	2	-	-	-
32035.4	-	-	3	-	-	-	-	-	3	-	-	-
32035.5	-	-	-	-	-	-	-	-	-	-	-	-
32035.6	-	-	-	-	-	-	-	-	-	-	-	-
<b>big data analytics lab (32035 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	-	<b>2.00</b>	<b>2.00</b>	-	<b>2.50</b>	-	-	-
3204.1	3	-	-	-	-	-	3	-	-	-	-	-
3204.2	-	-	3	-	-	-	-	-	2	-	-	-
3204.3	-	-	3	-	-	-	-	-	3	-	-	-
3204.4	-	-	3	-	-	-	-	-	3	-	-	-
3204.5	-	-	3	-	2	-	-	-	-	-	-	-
<b>MACHINE LEARNING LAB (3204 I)</b>	<b>3.00</b>	-	<b>3.00</b>	-	<b>2.00</b>	-	<b>3.00</b>	-	<b>2.67</b>	-	-	-
3205.1	2	3	1	3	2	2	1	3	1	1	3	1
3205.2	1	2	1	2	1	1	1	2	1	1	3	1
3205.3	3	3	2	2	3	3	3	3	2	2	2	3
<b>RESEARCH PAPER III- PRESENTATION / PUBLICATION (CONTENT: TECHNICAL COMMUNICATION FOR RESEARCH PAPER WRITING, RUBRICS FOR EVALUATION) (3205 I)</b>	<b>2.00</b>	<b>2.67</b>	<b>1.33</b>	<b>2.33</b>	<b>2.00</b>	<b>2.00</b>	<b>1.67</b>	<b>2.67</b>	<b>1.33</b>	<b>1.33</b>	<b>2.67</b>	<b>1.67</b>
4101.1	3	3	3	2	2	3	2	2	3	3	2	2
4101.2	3	3	3	3	1	3	3	1	3	3	3	1
<b>PROJECT INTERNSHIP (4101 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.50</b>	<b>1.50</b>	<b>3.00</b>	<b>2.50</b>	<b>1.50</b>	<b>3.00</b>	<b>3.00</b>	<b>2.50</b>	<b>1.50</b>
4102.1	2	2	1	1	3	2	3	1	2	1	1	1
4102.2	1	1	-	1	2	1	2	-	1	-	-	1
4102.3	3	2	2	2	3	3	2	2	2	1	2	1
<b>SWAYAM BASED MOOC (4102 II)</b>	<b>2.00</b>	<b>1.67</b>	<b>1.50</b>	<b>1.33</b>	<b>2.67</b>	<b>2.00</b>	<b>2.33</b>	<b>1.50</b>	<b>1.67</b>	<b>1.00</b>	<b>1.50</b>	<b>1.00</b>

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**COURSE-CO ATTAINMENT**

DEPARTMENT:

EDUCATIONAL UNIT: SNDTWU, JUHU CAMPUS (2)

PROGRAM: MCA

CLASS: FIRST YEAR

DIVISION: A

SEMESTER: SEMESTER I

COURSE : MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE (1101)

ACADEMIC YEAR: 2022-23

**Attainment through Semester End Examination Weightage (%): 50**

Sr. No.	Tools	1101.1		1101.2		1101.3		1101.4	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	2	3	2	3	2	3	2	3
<b>Target and Attainment of Semester End Examination Assessment</b>		2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00

**Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 50**

Sr. No.	Tools	1101.1		1101.2		1101.3		1101.4	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	UT1 (I)	NA	3	NA	3	2	3	2	3
2	ASSIGNMENT (I)	2	3	2	3	NA	NA	NA	NA
3	PRESENTATION_INTERNAL (I)	NA	NA	1	3	1	3	NA	NA
<b>Target and Attainment of Cumulative Internal Examinations Assessment</b>		2.00	3.00	1.50	3.00	1.50	3.00	2.00	3.00

### Overall Course CO Attainment

Sr. No.	Tool Type	1101.1		1101.2		1101.3		1101.4		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00
2	Attainment through Cumulative Internal Examinations Assessment	2.00	3.00	1.50	3.00	1.50	3.00	2.00	3.00	1.75	3.00
Co Target and Direct Attainment		2.00	3.00	1.75	3.00	1.75	3.00	2.00	3.00	1.88	3.00



**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: SNDTWU, JUHU CAMPUS  
PROGRAM: MCA (2019)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
1	MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE [1101 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	2.50	-	-	-	3.00	-	-	-	-	-	-
2	RESEARCH METHODOLOGY AND IPR [1102 (I A)]	FIRST YEAR [2022-23]	0.88	-	0.88	-	0.88	0.82	-	-	0.88	-	-	-	0.88
3	ADVANCED DATA STRUCTURE [1103 (I A)]	FIRST YEAR [2022-23]	1.38	1.38	-	1.38	-	-	1.38	-	-	-	1.38	-	-
4	ADVANCED JAVA (CONTENTS: SPRING, MVC, NET BEANS AND HIBERNATE) [1104 (I A)]	FIRST YEAR [2022-23]	1.00	1.00	-	1.00	-	-	-	-	-	1.00	-	-	-
5	COMPUTER NETWORK PROGRAMMING USING LINUX [1105 (I A)]	FIRST YEAR [2022-23]	1.50	1.50	-	1.50	-	-	-	-	-	-	1.50	-	-
6	ADVANCED DATA STRUCTURE LAB [1201 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	-	3.00	-	-	-	3.00	-	-
7	ADVANCED JAVA LAB [1202 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	-	-	-	-	3.00	-	-	-
8	COMPUTER NETWORK PROGRAMMING LAB [1203 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	-	3.00	-	-	-	-	-	-	3.00	-	-
9	RESEARCH PAPER I - LITERATURE REVIEW (REVIEW PAPER) [1204 (I A)]	FIRST YEAR [2022-23]	3.00	2.33	3.00	1.33	2.67	2.33	2.33	1.67	3.00	1.00	1.33	2.67	1.33
10	MANAGERIAL ECONOMICS [2101 (II A)]	FIRST YEAR [2022-23]	1.83	0.61	1.22	0.92	0.61	1.22	0.92	-	-	-	-	1.53	0.92
11	SOFTWARE ARCHITECTURE [2102 (II A)]	FIRST YEAR [2022-23]	1.33	1.33	1.11	1.18	0.44	0.89	1.33	-	-	0.89	1.33	0.89	0.44
12	ARTIFICIAL INTELLIGENCE [2103 (II A)]	FIRST YEAR [2022-23]	2.00	2.00	1.33	2.00	0.67	2.00	1.33	2.00	1.33	1.33	2.00	2.00	1.33
13	ADVANCED DATABASES [2104 (II A)]	FIRST YEAR [2022-23]	1.50	1.50	1.00	1.50	0.50	1.50	1.50	1.00	1.50	1.50	1.50	1.00	1.00

14	WEB ENGINEERING LAB(CONTENTS: CSS, ANGULAR JS, NODE JS, PHP, MYSQL,ETC ) [2201 (II A)]	FIRST YEAR [2022-23]	2.00	2.00	1.33	2.00	0.67	2.00	2.00	1.33	2.00	2.00	2.00	2.00	2.00
15	SOFTWARE TESTING AND QUALITY ASSURANCE LAB [2202 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	3.00	3.00	2.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00
16	MOBILE COMPUTING LAB [2203 (II A)]	FIRST YEAR [2022-23]	2.50	2.50	1.67	2.50	0.83	2.50	2.50	1.67	2.50	2.50	2.50	2.50	2.50
17	ARTIFICIAL INTELLIGENCE LAB [2204 (II A)]	FIRST YEAR [2022-23]	2.00	2.00	1.33	2.00	0.67	2.00	2.00	1.33	2.00	2.00	2.00	2.00	2.00
18	ADVANCED DATABASES LAB [2205 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	3.00	1.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00
19	RESEARCH PAPER II - RESEARCH MINI PROJECT [2206 (II A)]	FIRST YEAR [2022-23]	3.00	2.50	3.00	1.50	1.50	2.50	2.50	2.50	3.00	1.50	1.50	2.50	1.50
20	MACHINE LEARNING LAB [3204 (I A)]	SECOND YEAR [2023-24]	1.50	1.50	-	1.50	-	1.00	-	1.50	-	1.34	-	-	-
21	CYBER SECURITY [3101 (I A)]	SECOND YEAR [2023-24]	1.50	1.25	1.50	1.50	1.17	-	-	-	-	-	-	1.00	-
22	CLOUD COMPUTING LAB [3202 (I A)]	SECOND YEAR [2023-24]	2.00	2.00	-	1.83	-	-	1.33	-	-	1.67	1.33	-	-
23	DATA SCIENCE AND ANALYTICS [3102 (I A)]	SECOND YEAR [2023-24]	1.33	1.33	-	1.11	-	-	0.89	1.33	-	0.89	-	-	-
24	CLOUD COMPUTING [3103 (I A)]	SECOND YEAR [2023-24]	0.31	0.31	0.21	0.24	0.31	0.31	-	-	-	0.21	-	-	-
25	DATA SCIENCE AND ANALYTICS LAB (CONTENT: IMPLEMENTATION USING PYTHON) [3201 (I A)]	SECOND YEAR [2023-24]	2.00	2.00	-	1.33	-	-	1.33	-	-	2.00	-	-	-
26	MACHINE LEARNING [3104 (I A)]	SECOND YEAR [2023-24]	0.42	0.42	0.42	0.42	-	-	-	0.35	0.42	-	-	-	-
27	RESEARCH PAPER III- PRESENTATION / PUBLICATION (CONTENT: TECHNICAL COMMUNICATION FOR RESEARCH PAPER WRITING, RUBRICS FOR EVALUATION) [3205 (I A)]	SECOND YEAR [2023-24]	3.00	2.00	2.67	1.33	2.33	2.00	2.00	1.67	2.67	1.33	1.33	2.67	1.67
28	PROJECT INTERNSHIP [4101 (II A)]	SECOND YEAR [2023-24]	1.56	1.56	1.56	1.56	1.30	0.78	1.56	1.30	0.78	1.56	1.56	1.30	0.78
29	SWAYAM BASED MOOC [4102 (II A)]	SECOND YEAR [2023-24]	0.00	-	-	-	-	-	-	-	-	-	-	-	-
30	BIG DATA ANALYTICS [31055 (I A)]	SECOND YEAR [2023-24]	1.81	1.81	1.81	1.66	-	-	-	1.21	-	1.51	-	-	-
31	BIG DATA ANALYTICS LAB [32035 (I A)]	SECOND YEAR [2023-24]	2.00	2.00	-	2.00	-	-	1.33	1.33	-	1.67	-	-	-

32	GIS [31052 (I A)]	SECOND YEAR [2023-24]	2.06	2.06	-	1.37	-	2.06	1.38	2.06	-	2.06	1.38	-	-
33	GIS LAB [32032 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	-	2.50	-	-	2.00	3.00	-	2.00	-	-	-
<b>Direct Attainment</b>				1.93	1.66	1.74	1.10	1.76	1.89	1.63	1.93	1.69	1.92	2.00	1.60

## **PO/CO Attainment Analysis – FIRST YEAR [2022-23]**

Institution: SNDT Women's University, Juhu Campus

Program: Master of Computer Applications (MCA - 2019 pattern)

Batch: 2022–2024

Course: MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE [1101 (I A)]

Total Attainment: 3.00

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

Course: RESEARCH METHODOLOGY AND IPR [1102 (I A)]

Total Attainment: 0.88

Analysis: The course shows a concerning level of PO/CO attainment, indicating a need for curricular review.

Suggestions for Improvement: Redesign the course structure and integrate remedial sessions to address learning gaps.

Course: ADVANCED DATA STRUCTURE [1103 (I A)]

Total Attainment: 1.38

Analysis: This course reflects limited effectiveness in achieving the targeted program outcomes.

Suggestions for Improvement: Organize workshops or skill enhancement modules to improve understanding and attainment.

Course: ADVANCED JAVA (CONTENTS: SPRING, MVC, NET BEANS AND HIBERNATE) [1104 (I A)]

Total Attainment: 1.00

Analysis: A low attainment score suggests a misalignment between learning activities and expected outcomes.

Suggestions for Improvement: Introduce outcome-aligned assignments and rigorous formative assessments to address shortcomings.

Course: COMPUTER NETWORK PROGRAMMING USING LINUX [1105 (I A)]

Total Attainment: 1.50

Analysis: The course has met essential outcomes but would benefit from additional learning

strategies.

Suggestions for Improvement: Incorporate interactive pedagogical tools to improve student comprehension and outcome mapping.

Course: ADVANCED DATA STRUCTURE LAB [1201 (I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: ADVANCED JAVA LAB [1202 (I A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: COMPUTER NETWORK PROGRAMMING LAB [1203 (I A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: RESEARCH PAPER I - LITERATURE REVIEW (REVIEW PAPER) [1204 (I A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: MANAGERIAL ECONOMICS [2101 (II A)]

Total Attainment: 1.83

Analysis: The course shows a fair level of PO/CO attainment, though there remains room for improvement.

Suggestions for Improvement: Enhance student support through tutorial sessions and personalized academic feedback.

Course: SOFTWARE ARCHITECTURE [2102 (II A)]

Total Attainment: 1.33

Analysis: Low attainment necessitates pedagogical adjustments and increased academic support.

Suggestions for Improvement: Implement focused interventions such as bridge courses to improve PO/CO correlation.

Course: ARTIFICIAL INTELLIGENCE [2103 (II A)]

Total Attainment: 2.00

Analysis: This course reflects a balanced but improvable contribution to program outcome achievement.

Suggestions for Improvement: Include more applied learning experiences to improve attainment levels.

Course: ADVANCED DATABASES [2104 (II A)]

Total Attainment: 1.50

Analysis: Moderate attainment suggests that course implementation could benefit from targeted enhancements.

Suggestions for Improvement: Revise learning modules and introduce formative assessments to strengthen outcome alignment.

Course: WEB ENGINEERING LAB(CONTENTS: CSS, ANGULAR JS, NODE JS, PHP, MYSQL,ETC ) [2201 (II A)]

Total Attainment: 2.00

Analysis: A moderate attainment score suggests partial alignment between course content and expected outcomes.

Suggestions for Improvement: Revise the curriculum partially and emphasize outcome-driven assessment methods.

Course: SOFTWARE TESTING AND QUALITY ASSURANCE LAB [2202 (II A)]

Total Attainment: 3.00

Analysis: Student performance in this course shows a strong correlation with the expected program outcomes.

Suggestions for Improvement: Leverage peer-assisted learning and academic mentoring to further enrich learning outcomes.

Course: MOBILE COMPUTING LAB [2203 (II A)]

Total Attainment: 2.50

Analysis: A high attainment score indicates effective alignment of course objectives with program outcomes.

Suggestions for Improvement: Maintain high standards by reinforcing effective teaching-learning methods and continuous assessment.

Course: ARTIFICIAL INTELLIGENCE LAB [2204 (II A)]

Total Attainment: 2.00

Analysis: The course shows a fair level of PO/CO attainment, though there remains room for improvement.

Suggestions for Improvement: Enhance student support through tutorial sessions and personalized academic feedback.

Course: ADVANCED DATABASES LAB [2205 (II A)]

Total Attainment: 3.00

Analysis: The course has achieved a commendable level of PO/CO attainment, reflecting successful learning outcomes.

Suggestions for Improvement: Sustain performance through ongoing faculty development and student engagement practices.

Course: RESEARCH PAPER II - RESEARCH MINI PROJECT [2206 (II A)]

Total Attainment: 3.00

Analysis: High levels of attainment demonstrate well-structured course delivery and content clarity.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

## **PO/CO Attainment Analysis – SECOND YEAR [2023-24]**

Institution: SNDT Women's University, Juhu Campus

Program: Master of Computer Applications (MCA - 2019 pattern)

Batch: 2022–2024

Course: MACHINE LEARNING LAB [3204 (I A)]

Total Attainment: 1.50

Analysis: The course has met essential outcomes but would benefit from additional learning strategies.

Suggestions for Improvement: Incorporate interactive pedagogical tools to improve student comprehension and outcome mapping.

Course: CYBER SECURITY [3101 (I A)]

Total Attainment: 1.50

Analysis: A moderate attainment score suggests partial alignment between course content and expected outcomes.

Suggestions for Improvement: Revise the curriculum partially and emphasize outcome-driven assessment methods.

Course: CLOUD COMPUTING LAB [3202 (I A)]

Total Attainment: 2.00

Analysis: Moderate attainment suggests that course implementation could benefit from targeted enhancements.

Suggestions for Improvement: Revise learning modules and introduce formative assessments to strengthen outcome alignment.

Course: DATA SCIENCE AND ANALYTICS [3102 (I A)]

Total Attainment: 1.33

Analysis: This course requires immediate attention to bridge the gap between course and program outcomes.

Suggestions for Improvement: Introduce outcome-aligned assignments and rigorous formative assessments to address shortcomings.

Course: CLOUD COMPUTING [3103 (I A)]

Total Attainment: 0.31

Analysis: This course reflects limited effectiveness in achieving the targeted program outcomes.



Suggestions for Improvement: Implement focused interventions such as bridge courses to improve PO/CO correlation.

Course: DATA SCIENCE AND ANALYTICS LAB (CONTENT: IMPLEMENTATION USING PYTHON) [3201 (I A)]

Total Attainment: 2.00

Analysis: This course reflects a balanced but improvable contribution to program outcome achievement.

Suggestions for Improvement: Include more applied learning experiences to improve attainment levels.

Course: MACHINE LEARNING [3104 (I A)]

Total Attainment: 0.42

Analysis: A low attainment score suggests a misalignment between learning activities and expected outcomes.

Suggestions for Improvement: Organize workshops or skill enhancement modules to improve understanding and attainment.

Course: RESEARCH PAPER III- PRESENTATION / PUBLICATION (CONTENT: TECHNICAL COMMUNICATION FOR RESEARCH PAPER WRITING, RUBRICS FOR EVALUATION) [3205 (I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Continue the current instructional strategies while integrating recent trends to sustain performance.

Course: PROJECT INTERNSHIP [4101 (II A)]

Total Attainment: 1.56

Analysis: The course has met essential outcomes but would benefit from additional learning strategies.

Suggestions for Improvement: Revise learning modules and introduce formative assessments to strengthen outcome alignment.

Course: SWAYAM BASED MOOC [4102 (II A)]

Total Attainment: 0.00

Analysis: Low attainment necessitates pedagogical adjustments and increased academic support.

Suggestions for Improvement: Organize workshops or skill enhancement modules to

improve understanding and attainment.

Course: BIG DATA ANALYTICS [31055 (I A)]

Total Attainment: 1.81

Analysis: Moderate attainment suggests that course implementation could benefit from targeted enhancements.

Suggestions for Improvement: Incorporate interactive pedagogical tools to improve student comprehension and outcome mapping.

Course: BIG DATA ANALYTICS LAB [32035 (I A)]

Total Attainment: 2.00

Analysis: This course reflects a balanced but improvable contribution to program outcome achievement.

Suggestions for Improvement: Include more applied learning experiences to improve attainment levels.

Course: GIS [31052 (I A)]

Total Attainment: 2.06

Analysis: The course shows a fair level of PO/CO attainment, though there remains room for improvement.

Suggestions for Improvement: Enhance student support through tutorial sessions and personalized academic feedback.

Course: GIS LAB [32032 (I A)]

Total Attainment: 3.00

Analysis: This course shows robust integration with the program outcomes, as indicated by strong attainment scores.

Suggestions for Improvement: Encourage collaborative learning and interdisciplinary approaches to retain strong attainment.

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: M.SC. (RESOURCE MANAGEMENT & ERGONOMICS)**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5
119001.1	3	1	1	-	2
119001.2	3	1	1	-	2
119001.3	3	1	1	-	3
119001.4	3	2	2	1	3
119001.5	2	1	1	-	2
119001.6	3	2	1	-	2
<b>HUMAN PHYSIOLOGY(TH) (119001 I)</b>	<b>2.83</b>	<b>1.33</b>	<b>1.17</b>	<b>1.00</b>	<b>2.33</b>
119002.1	3	2	1	-	2
119002.2	3	2	2	-	3
119002.3	3	2	2	-	3
119002.4	3	2	2	1	3
119002.5	3	1	1	-	2
119002.6	2	1	1	-	2
119002.7	2	1	1	-	3
119002.8	3	2	2	-	3
<b>ERGONOMICS &amp; WORK POSTURE STUDIES (TH) (119002 I)</b>	<b>2.75</b>	<b>1.63</b>	<b>1.50</b>	<b>1.00</b>	<b>2.63</b>
119003.1	3	2	1	-	2
119003.2	3	2	2	-	3
119003.3	3	1	1	-	2
119003.4	3	2	2	1	2
119003.5	3	2	2	-	3
<b>ERGONOMICS &amp; WORK POSTURE STUDIES (PR) (119003 I)</b>	<b>3.00</b>	<b>1.80</b>	<b>1.60</b>	<b>1.00</b>	<b>2.40</b>
119004.1	1	1	3	2	2
119004.2	2	1	3	2	3
119004.3	1	1	3	2	3
119004.4	2	1	3	2	3
119004.5	2	1	3	2	2
<b>HUMAN RESOURCE MANAGEMENT (TH) (119004 I)</b>	<b>1.60</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.60</b>
119005.1	2	3	2	1	2
119005.2	2	3	1	1	2
119005.3	2	3	2	1	2
119005.4	2	3	2	2	3
<b>ENVIRONMENTAL STUDIES &amp; SUSTAINABILITY (TH+PR) (119005 I)</b>	<b>2.00</b>	<b>3.00</b>	<b>1.75</b>	<b>1.25</b>	<b>2.25</b>
119101.1	3	2	2	-	2
119101.2	3	2	2	-	3
119101.3	3	2	1	-	2
119101.4	3	2	2	-	2
119101.5	3	2	2	-	3
119101.6	3	2	2	-	3
119101.7	3	2	2	-	3
<b>ERGONOMICS IN EVERYDAY LIFE: CASE STUDY BASED (TH+PR) (119101 I)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.86</b>	<b>-</b>	<b>2.57</b>
219001.1	1	1	2	1	3
219001.2	1	1	2	1	3
219001.3	1	1	2	-	3
<b>RESEARCH METHODOLOGY(TH) (219001 II)</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	<b>3.00</b>
219002.1	3	2	2	-	2
219002.2	3	2	2	-	3
219002.3	3	2	1	-	2
219002.4	3	2	2	-	3

<b>ENVIRONMENTAL ERGONOMICS(TH) (219002 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.75</b>	<b>-</b>	<b>2.50</b>
219003.1	3	2	2	-	2
219003.2	3	2	2	-	3
219003.3	3	2	1	-	2
219003.4	3	2	2	-	3
<b>ENVIRONMENTAL ERGONOMICS(PR) (219003 II)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.75</b>	<b>-</b>	<b>2.50</b>
219004.1	1	1	2	2	2
219004.2	1	1	2	3	3
219004.3	1	1	2	3	3
219004.4	1	1	3	3	3
219004.5	1	1	2	2	3
<b>FINANCIAL MANAGEMENT (TH) (219004 II)</b>	<b>1.00</b>	<b>1.00</b>	<b>2.20</b>	<b>2.60</b>	<b>2.80</b>
219005.1	1	1	2	2	3
219005.2	2	1	2	2	2
219005.3	2	1	2	2	2
219005.4	1	2	2	3	2
<b>CONSUMER BEHAVIOUR &amp; CONSUMERISM (TH) (219005 II)</b>	<b>1.50</b>	<b>1.25</b>	<b>2.00</b>	<b>2.25</b>	<b>2.25</b>
220101.1	3	2	1	-	3
220101.2	2	3	1	-	2
220101.3	1	2	3	-	1
220101.4	-	1	2	3	-
220101.5	3	1	1	-	3
<b>Product Design and Development (220101 II)</b>	<b>2.25</b>	<b>1.80</b>	<b>1.60</b>	<b>3.00</b>	<b>2.25</b>
319001.1	1	1	2	-	3
319001.2	1	1	2	-	3
319001.3	1	1	2	-	3
319001.4	1	1	2	-	3
319001.5	1	1	2	1	3
319001.6	1	1	3	2	3
<b>RESEARCH &amp; STATISTICAL APPLICATIONS (TH) (319001 I)</b>	<b>1.00</b>	<b>1.00</b>	<b>2.17</b>	<b>1.50</b>	<b>3.00</b>
319002.1	3	2	2	1	3
319002.2	3	2	2	-	3
319002.3	3	2	2	1	3
319002.4	3	2	3	1	3
319002.5	3	1	2	1	2
319002.6	2	2	2	1	3
<b>JOB ANALYSIS &amp; OPTIMIZATION (TH) (319002 I)</b>	<b>2.83</b>	<b>1.83</b>	<b>2.17</b>	<b>1.00</b>	<b>2.83</b>
319003.1	3	1	2	1	2
319003.2	3	2	2	1	3
319003.3	3	2	2	-	3
319003.4	3	2	2	-	3
319003.5	3	2	2	1	3
319003.6	2	1	2	2	2
319003.7	3	1	2	1	3
<b>OCCUPATIONAL HEALTH &amp; SAFETY (TH) (319003 I)</b>	<b>2.86</b>	<b>1.57</b>	<b>2.00</b>	<b>1.20</b>	<b>2.71</b>
319004.1	3	2	2	1	3
319004.2	3	2	2	1	3
319004.3	3	3	2	1	3
319004.4	3	2	2	1	3
319004.5	3	2	2	1	3
319004.6	3	3	2	1	3
319004.7	3	2	2	1	3

<b>INDUSTRIAL APPLICATION OF ERGONOMICS (PR) (319004 I)</b>	<b>3.00</b>	<b>2.29</b>	<b>2.00</b>	<b>1.00</b>	<b>3.00</b>
319005.1	1	1	3	2	3
319005.2	1	1	3	2	3
319005.3	1	1	3	3	3
319005.4	1	1	3	1	3
319005.5	1	1	3	2	3
319005.6	1	1	3	2	3
319005.7	1	1	3	2	3
319005.8	1	1	3	2	3
<b>ORGANIZATIONAL BEHAVIOUR (TH) (319005 I)</b>	<b>1.00</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>
419001.1	2	2	2	3	3
419001.2	2	2	2	3	3
419001.3	3	2	2	2	2
419001.4	2	2	2	3	3
<b>CONSUMER ERGONOMICS (TH) (419001 II)</b>	<b>2.25</b>	<b>2.00</b>	<b>2.00</b>	<b>2.75</b>	<b>2.75</b>
419101.1	1	1	2	3	2
419101.2	2	1	3	2	3
419101.3	1	1	2	2	2
<b>SWAYAM COURSE (419101 II)</b>	<b>1.33</b>	<b>1.00</b>	<b>2.33</b>	<b>2.33</b>	<b>2.33</b>
419888.1	1	1	2	2	3
419888.2	1	1	2	2	3
419888.3	1	1	2	2	3
<b>DISSERTATION (PR) (419888 II)</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>
419999.1	2	1	2	2	3
419999.2	2	1	3	2	3
419999.3	3	1	2	1	3
419999.4	2	1	3	3	3
419999.5	2	1	2	1	3
<b>INTERNSHIP (419999 II)</b>	<b>2.20</b>	<b>1.00</b>	<b>2.40</b>	<b>1.80</b>	<b>3.00</b>

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**COURSE-CO ATTAINMENT**  
 DEPARTMENT:  
 EDUCATIONAL UNIT:SNDTWU, JUHU CAMPUS (2)  
 PROGRAM:M.SC. (RESOURCE MANAGEMENT & ERGONOMICS)  
 CLASS: FIRST YEAR  
 DIVISION:A  
 SEMESTER:SEMESTER I  
 COURSE : HUMAN PHYSIOLOGY(TH) (119001)  
 ACADEMIC YEAR: 2022-23

Attainment through Semester End Examination Weightage (%): 50

Sr. No.	Tools	119001.1		119001.2		119001.3		119001.4		119001.5		119001.6	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	2	3	2	3	2	3	2	3	2	3	2	3
Target and Attainment of Semester End Examination Assessment		2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00

Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 50

Sr. No.	Tools	119001.1		119001.2		119001.3		119001.4		119001.5		119001.6	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	ASSIGNMENT 1 (I)	3	3	3	3	2	3	3	3	3	3	2	3
2	ASSIGNMENT 2 (I)	2	3	3	3	3	3	2	3	3	3	3	3
Target and Attainment of Cumulative Internal Examinations Assessment		2.50	3.00	3.00	3.00	2.50	3.00	2.50	3.00	3.00	3.00	2.50	3.00

Overall Course CO Attainment

Sr. No.	Tool Type	119001.1		119001.2		119001.3		119001.4		119001.5		119001.6		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00
2	Attainment through Cumulative Internal Examinations Assessment	2.50	3.00	3.00	3.00	2.50	3.00	2.50	3.00	3.00	3.00	2.50	3.00	2.67	3.00
Co Target and Direct Attainment		2.25	3.00	2.50	3.00	2.25	3.00	2.25	3.00	2.50	3.00	2.25	3.00	2.33	3.00

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: SNDTWU, JUHU CAMPUS  
PROGRAM: M.SC. (RESOURCE MANAGEMENT & ERGONOMICS) (2015-19)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5
1	HUMAN PHYSIOLOGY(TH) [119001 (I A)]	FIRST YEAR [2022-23]	3.00	2.83	1.33	1.17	1.00	2.33
2	ERGONOMICS & WORK POSTURE STUDIES (TH) [119002 (I A)]	FIRST YEAR [2022-23]	3.00	2.75	1.63	1.50	1.00	2.63
3	ERGONOMICS & WORK POSTURE STUDIES (PR) [119003 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	1.80	1.60	1.00	2.40
4	HUMAN RESOURCE MANAGEMENT (TH) [119004 (I A)]	FIRST YEAR [2022-23]	3.00	1.60	1.00	3.00	2.00	2.60
5	ENVIRONMENTAL STUDIES & SUSTAINABILITY (TH+PR) [119005 (I A)]	FIRST YEAR [2022-23]	3.00	2.00	3.00	1.75	1.25	2.25
6	ERGONOMICS IN EVERYDAY LIFE: CASE STUDY BASED (TH+PR) [119101 (I A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	1.86	-	2.57
7	RESEARCH METHODOLOGY(TH) [219001 (II A)]	FIRST YEAR [2022-23]	3.00	1.00	1.00	2.00	1.00	3.00
8	ENVIRONMENTAL ERGONOMICS(TH) [219002 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	1.75	-	2.50
9	ENVIRONMENTAL ERGONOMICS(PR) [219003 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.00	1.75	-	2.50
10	FINANCIAL MANAGEMENT (TH) [219004 (II A)]	FIRST YEAR [2022-23]	3.00	1.00	1.00	2.20	2.60	2.80
11	CONSUMER BEHAVIOUR & CONSUMERISM (TH) [219005 (II A)]	FIRST YEAR [2022-23]	3.00	1.50	1.25	2.00	2.25	2.25
12	PRODUCT DESIGN AND DEVELOPMENT [220101 (II A)]	FIRST YEAR [2022-23]	3.00	2.25	1.80	1.60	3.00	2.25
13	RESEARCH & STATISTICAL APPLICATIONS (TH) [319001 (I A)]	SECOND YEAR [2023-24]	3.00	1.00	1.00	2.17	1.50	3.00
14	JOB ANALYSIS & OPTIMIZATION (TH) [319002 (I A)]	SECOND YEAR [2023-24]	3.00	2.83	1.83	2.17	1.00	2.83
15	OCCUPATIONAL HEALTH & SAFETY (TH) [319003 (I A)]	SECOND YEAR [2023-24]	3.00	2.86	1.57	2.00	1.20	2.71
16	INDUSTRIAL APPLICATION OF ERGONOMICS (PR) [319004 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	2.29	2.00	1.00	3.00
17	ORGANIZATIONAL BEHAVIOUR (TH) [319005 (I A)]	SECOND YEAR [2023-24]	3.00	1.00	1.00	3.00	2.00	3.00
18	CONSUMER ERGONOMICS (TH) [419001 (II A)]	SECOND YEAR [2023-24]	3.00	2.25	2.00	2.00	2.75	2.75
19	SWAYAM COURSE [419101 (II A)]	SECOND YEAR [2023-24]	3.00	1.33	1.00	2.33	2.33	2.33
20	DISSERTATION (PR) [419888 (II A)]	SECOND YEAR [2023-24]	3.00	1.00	1.00	2.00	2.00	3.00
21	INTERNSHIP [419999 (II A)]	SECOND YEAR [2023-24]	3.00	2.20	1.00	2.40	1.80	3.00
<b>Direct Attainment</b>				2.11	1.55	2.01	1.70	2.65

## **PO/CO Attainment Analysis – FIRST YEAR [2022–23]**

**Institution:** SNDT Women's University, Juhu Campus

**Program:** M.Sc. Resource Management & Ergonomics (CBCS)

**Batch:** 2022–2024

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**Course:** HUMAN PHYSIOLOGY (TH) [119001 ( I A)]

**Total Attainment:** 3.00

**Analysis:** The course demonstrates strong foundational knowledge in human anatomy and physiological systems.

**Suggestions for Improvement:** Incorporate interactive lab work and visuals to enhance comprehension.

**Course:** ERGONOMICS & WORK POSTURE STUDIES (TH) [119002 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Students effectively grasp ergonomic principles and posture dynamics.

**Suggestions for Improvement:** Use real-time posture analysis tools and ergonomic assessments.

**Course:** ERGONOMICS & WORK POSTURE STUDIES (PR) [119003 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Practical sessions helped students apply ergonomic techniques in simulated work environments.

**Suggestions for Improvement:** Include peer evaluations and case-based ergonomic audits.

**Course:** HUMAN RESOURCE MANAGEMENT (TH) [119004 ( I A)]

**Total Attainment:** 3.00

**Analysis:** The course strengthens understanding of HR functions in ergonomics-related professions.

**Suggestions for Improvement:** Conduct mock interviews and role-play for applied HR scenarios.

**Course:** ENVIRONMENTAL STUDIES & SUSTAINABILITY (TH+PR) [119005 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Students developed a holistic perspective on sustainability and ecological issues.

**Suggestions for Improvement:** Organize sustainability audits and green campus initiatives.

**Course:** ERGONOMICS IN EVERYDAY LIFE: CASE STUDY BASED (TH+PR) [119101 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Real-life case studies helped in contextualizing ergonomic theories.

**Suggestions for Improvement:** Encourage student-led mini research projects and presentations.

**Course:** RESEARCH METHODOLOGY (TH) [219001 ( II A)]

**Total Attainment:** 3.00

**Analysis:** The course builds competence in designing and executing research.

**Suggestions for Improvement:** Promote software-based data analysis and research proposal writing.

**Course:** ENVIRONMENTAL ERGONOMICS (TH) [219002 ( II A)]

**Total Attainment:** 3.00

**Analysis:** The course emphasizes environmental influences on human performance and comfort.

**Suggestions for Improvement:** Include virtual simulations of environmental conditions.



**Course:** ENVIRONMENTAL ERGONOMICS (PR) [219003 ( II A)]

**Total Attainment:** 3.00

**Analysis:** Practical tasks support the understanding of thermal, visual, and acoustic ergonomics.

**Suggestions for Improvement:** Provide lab-based experiments using environmental sensors.

**Course:** FINANCIAL MANAGEMENT (TH) [219004 ( II A)]

**Total Attainment:** 3.00

**Analysis:** Students show improved understanding of budgeting and resource allocation.

**Suggestions for Improvement:** Incorporate case-based financial decision-making simulations.

**Course:** CONSUMER BEHAVIOUR & CONSUMERISM (TH) [219005 ( II A)]

**Total Attainment:** 3.00

**Analysis:** The course connects behavioral insights to design and marketing perspectives.

**Suggestions for Improvement:** Use consumer profiling exercises and market surveys.

**Course:** PRODUCT DESIGN AND DEVELOPMENT [220101 ( II A)]

**Total Attainment:** 3.00

**Analysis:** Students successfully translate user needs into product solutions.

**Suggestions for Improvement:** Promote iterative prototyping and user testing exercises.

## **PO/CO Attainment Analysis – SECOND YEAR [2023–24]**

**Institution:** SNDT Women's University, Juhu Campus

**Program:** M.Sc. Resource Management & Ergonomics (CBCS)

**Batch:** 2022–2024

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**Course:** RESEARCH & STATISTICAL APPLICATIONS (TH) [319001 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Students developed a foundational understanding of research tools and statistical applications relevant to ergonomics.

**Suggestions for Improvement:** Integrate real-time data collection assignments and use statistical software tools.

**Course:** JOB ANALYSIS & OPTIMIZATION (TH) [319002 ( I A)]

**Total Attainment:** 3.00

**Analysis:** The course exhibits a strong alignment with PO outcomes, especially in job evaluation and system efficiency.

**Suggestions for Improvement:** Include workplace simulation projects and role-based analysis.

**Course:** OCCUPATIONAL HEALTH & SAFETY (TH) [319003 ( I A)]

**Total Attainment:** 3.00

**Analysis:** The course effectively imparts knowledge on industrial health standards and safety practices.

**Suggestions for Improvement:** Encourage field visits and risk assessment activities in real industrial settings.

**Course:** INDUSTRIAL APPLICATION OF ERGONOMICS (PR) [319004 ( I A)]

**Total Attainment:** 3.00

**Analysis:** Students showcased practical application of ergonomic principles in industrial contexts.

**Suggestions for Improvement:** Involve industry professionals in evaluations and case-study-based reviews.

**Course:** ORGANIZATIONAL BEHAVIOUR (TH) [319005 ( I A)]

**Total Attainment:** 3.00

**Analysis:** The course strengthens understanding of employee behavior and workplace dynamics.

**Suggestions for Improvement:** Introduce interactive group exercises and leadership simulations.

**Course:** CONSUMER ERGONOMICS (TH) [419001 ( II A)]

**Total Attainment:** 3.00

**Analysis:** Students applied ergonomic principles in consumer-centric design thinking.

**Suggestions for Improvement:** Organize design challenges focused on user-centered solutions.

**Course:** SWAYAM COURSE [419101 ( II A)]

**Total Attainment:** 3.00

**Analysis:** The MOOC platform facilitated self-paced, interdisciplinary learning.

**Suggestions for Improvement:** Supplement with guided discussions and internal assessments.

**Course:** DISSERTATION (PR) [419888 ( II A)]

**Total Attainment:** 3.00

**Analysis:** Dissertation projects show commendable depth in research execution and ergonomic

relevance.

**Suggestions for Improvement:** Promote publication of dissertation work in academic journals.

**Course:** INTERNSHIP [419999 ( II A)]

**Total Attainment:** 3.00

**Analysis:** The internship provided hands-on experience, reinforcing theoretical knowledge in professional settings.

**Suggestions for Improvement:** Include structured feedback from host organizations and reflective reports.

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: M.SC. (RESOURCE MANAGEMENT & INTERIOR DESIGN)**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1
120001.1	3	2	1	1	1	-	3	3
120001.2	2	2	1	1	2	1	3	3
120001.3	2	3	1	2	2	1	3	3
120001.4	1	2	3	2	1	-	2	2
120001.5	2	3	3	3	1	-	3	3
<b>RESIDENTIAL INTERIOR SPACE DESIGN(TH) (120001 I)</b>	<b>2.00</b>	<b>2.40</b>	<b>1.80</b>	<b>1.80</b>	<b>1.40</b>	<b>1.00</b>	<b>2.80</b>	<b>2.80</b>
120002.1	2	2	3	2	1	-	2	3
120002.2	3	3	1	1	1	-	2	3
120002.3	3	3	1	2	1	-	3	3
120002.4	2	1	2	3	1	-	2	3
120002.5	2	2	2	2	2	1	3	3
120002.6	2	2	2	2	2	1	3	3
<b>RESIDENTIAL INTERIOR SPACE DESIGN(PR) (120002 I)</b>	<b>2.33</b>	<b>2.17</b>	<b>1.83</b>	<b>2.00</b>	<b>1.33</b>	<b>1.00</b>	<b>2.50</b>	<b>3.00</b>
120003.1	3	2	1	1	1	1	2	3
120003.2	3	2	1	1	1	1	3	3
120003.3	3	3	1	1	1	1	3	3
120003.4	3	2	1	2	1	-	3	3
120003.5	3	2	1	2	1	-	3	3
120003.6	3	2	1	2	1	-	3	3
120003.7	2	1	1	1	1	2	3	3
<b>COMPUTER APPLICATIONS IN INTERIOR DESIGN(PR) (120003 I)</b>	<b>2.86</b>	<b>2.00</b>	<b>1.00</b>	<b>1.43</b>	<b>1.00</b>	<b>1.25</b>	<b>2.86</b>	<b>3.00</b>
120004.1	2	1	-	1	2	1	2	1
120004.2	1	1	-	1	3	2	2	1
120004.3	1	1	-	1	3	3	2	1
120004.4	1	1	-	1	3	2	2	1
120004.5	1	-	-	1	3	2	2	1
<b>HUMAN RESOURCE MANAGEMENT (TH) (120004 I)</b>	<b>1.20</b>	<b>1.00</b>	<b>-</b>	<b>1.00</b>	<b>2.80</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>
120005.1	2	2	1	3	1	-	3	3
120005.2	2	2	2	3	1	-	3	3
120005.3	1	1	1	3	1	-	2	3
120005.4	2	1	2	3	2	1	3	3
<b>ENVIRONMENTAL STUDIES AND SUSTAINABILITY ( TH+PR) (120005 I)</b>	<b>1.75</b>	<b>1.50</b>	<b>1.50</b>	<b>3.00</b>	<b>1.25</b>	<b>1.00</b>	<b>2.75</b>	<b>3.00</b>
220001.1	3	1	1	2	2	1	3	2
220001.2	3	2	1	2	2	1	3	2
220001.3	3	1	-	2	1	1	3	2
<b>RESEARCH METHODOLOGY (TH+PR) (220001 II)</b>	<b>3.00</b>	<b>1.33</b>	<b>1.00</b>	<b>2.00</b>	<b>1.67</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>
220002.1	3	2	1	2	1	-	3	3
220002.2	3	2	1	2	2	1	3	3
220002.3	3	2	1	2	2	1	3	3
220002.4	3	3	3	2	1	-	3	3

<b>COMMERCIAL INTERIOR SPACE DESIGN (TH) (220002 II)</b>	<b>3.00</b>	<b>2.25</b>	<b>1.50</b>	<b>2.00</b>	<b>1.50</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>
220003.1	3	2	2	2	1	-	3	3
220003.2	3	2	2	2	1	-	3	3
220003.3	3	2	1	2	1	-	3	3
220003.4	3	3	1	2	1	-	3	3
220003.5	3	2	1	2	1	-	3	3
220003.6	3	2	1	2	1	-	3	3
220003.7	3	2	1	2	1	-	3	3
<b>COMMERCIAL INTERIOR SPACE DESIGN (PR) (220003 II)</b>	<b>3.00</b>	<b>2.14</b>	<b>1.29</b>	<b>2.00</b>	<b>1.00</b>	<b>-</b>	<b>3.00</b>	<b>3.00</b>
220004.1	3	2	1	2	1	-	2	3
220004.2	3	2	2	3	1	-	2	3
220004.3	3	2	1	2	2	1	3	3
220004.4	3	2	1	3	2	1	3	3
220004.5	3	2	2	3	1	-	2	3
220004.6	2	1	-	2	2	-	2	2
220004.7	3	2	1	3	1	-	3	3
<b>CONSTRUCTION &amp; MATERIAL (PR) (220004 II)</b>	<b>2.86</b>	<b>1.86</b>	<b>1.33</b>	<b>2.57</b>	<b>1.43</b>	<b>1.00</b>	<b>2.43</b>	<b>2.86</b>
220005.1	3	1	1	2	1	1	3	3
220005.2	3	1	1	2	1	1	3	3
220005.3	3	2	2	2	2	1	3	3
220005.4	3	2	1	2	1	2	3	3
220005.5	3	2	2	2	2	1	3	3
220005.6	3	1	1	2	1	1	3	3
220005.7	3	1	1	2	1	1	3	3
220005.8	3	2	1	2	1	1	3	3
220005.9	3	1	1	2	1	1	3	3
220005.1	3	1	1	2	1	1	3	3
<b>LATEST TRENDS &amp; TECHNOLOGY IN INTERIOR DESIGN (TH) (220005 II)</b>	<b>3.00</b>	<b>1.40</b>	<b>1.20</b>	<b>2.00</b>	<b>1.20</b>	<b>1.10</b>	<b>3.00</b>	<b>3.00</b>
220101.1	2	3	2	1	-	-	3	3
220101.2	2	3	2	1	1	-	3	3
220101.3	2	3	2	2	-	-	3	3
220101.4	1	1	1	1	3	1	2	2
220101.5	2	2	2	1	2	2	3	3
220101.6	1	1	-	1	1	3	2	2
220101.7	1	1	-	1	2	3	3	3
<b>product design and development (220101 II)</b>	<b>1.57</b>	<b>2.00</b>	<b>1.80</b>	<b>1.14</b>	<b>1.80</b>	<b>2.25</b>	<b>2.71</b>	<b>2.71</b>
21392.1	1	-	-	-	3	2	2	1
21392.2	1	-	-	-	3	2	2	1
21392.3	-	-	-	-	2	2	3	2
21392.4	-	-	-	-	3	1	2	1
21392.5	-	-	-	-	2	3	2	1
21392.6	-	-	-	-	2	2	2	1
<b>SOFT SKILLS DEVELOPEMENT (21392 I)</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.50</b>	<b>2.00</b>	<b>2.17</b>	<b>1.17</b>
320002.1	3	2	1	3	1	1	2	3
320002.2	3	2	2	3	1	-	2	3
320002.3	3	2	2	3	1	1	3	3
320002.4	2	2	1	2	2	1	2	2
<b>LANDSCAPE DESIGN(PR) (320002 I)</b>	<b>2.75</b>	<b>2.00</b>	<b>1.50</b>	<b>2.75</b>	<b>1.25</b>	<b>1.00</b>	<b>2.25</b>	<b>2.75</b>
320003.1	3	2	1	1	2	1	3	3
320003.2	3	2	1	1	2	1	3	3

<b>WORKING DRAWING(PR) (320003 I)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	<b>3.00</b>	<b>3.00</b>
320004.1	3	2	2	2	2	1	3	3
320004.2	2	2	1	2	1	1	2	2
320004.3	3	2	3	2	1	1	3	2
<b>SERVICES SPECIALIZED SERVICES (PR) (320004 I)</b>	<b>2.67</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.33</b>	<b>1.00</b>	<b>2.67</b>	<b>2.33</b>
320005.1	2	1	1	1	3	2	2	2
320005.2	2	1	1	1	3	2	2	2
320005.3	2	1	1	1	3	2	2	2
320005.4	2	1	1	1	3	2	2	2
320005.5	2	1	1	1	3	2	3	2
320005.6	2	1	1	1	3	2	2	2
320005.7	2	1	1	1	3	2	3	3
320005.8	2	1	1	1	3	2	3	3
<b>ORGANIZATIONAL BEHAVIOUR (TH) (320005 I)</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.38</b>	<b>2.25</b>
32001.1	1	-	-	-	1	-	3	2
32001.2	1	-	-	-	1	-	3	3
32001.3	1	-	-	-	1	-	3	3
32001.4	1	-	-	-	1	-	3	3
32001.5	1	-	-	-	1	-	2	2
32001.6	1	-	-	-	3	2	3	3
<b>RESEARCH METHODOLOGY (32001 I)</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.33</b>	<b>2.00</b>	<b>2.83</b>	<b>2.67</b>
420001.1	2	1	-	1	3	3	2	2
420001.2	2	1	-	1	2	2	2	2
420001.3	1	1	1	1	3	2	2	2
420001.4	1	1	1	1	3	2	2	-
<b>PROFESSIONAL PRACTICES (TH) (420001 II)</b>	<b>1.50</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.75</b>	<b>2.25</b>	<b>2.00</b>	<b>2.00</b>
420888.1	3	2	3	2	3	2	2	3
420888.2	2	2	2	2	3	2	2	3
420888.3	3	2	3	3	3	3	2	3
<b>DISSERTATION (PR) (420888 II)</b>	<b>2.67</b>	<b>2.00</b>	<b>2.67</b>	<b>2.33</b>	<b>3.00</b>	<b>2.33</b>	<b>2.00</b>	<b>3.00</b>
420999.1	3	2	3	2	2	2	2	3
420999.2	2	2	3	2	3	3	3	3
420999.3	2	2	2	2	2	3	2	2
420999.4	3	2	3	3	3	3	3	3
420999.5	2	1	3	2	2	2	2	2
<b>INTERNSHIP (TH) (420999 II)</b>	<b>2.40</b>	<b>1.80</b>	<b>2.80</b>	<b>2.20</b>	<b>2.40</b>	<b>2.60</b>	<b>2.40</b>	<b>2.60</b>

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**COURSE-CO ATTAINMENT**  
DEPARTMENT:  
EDUCATIONAL UNIT: SNDTWU, JUHU CAMPUS (2)  
PROGRAM: M.SC. (RESOURCE MANAGEMENT & INTERIOR DESIGN)  
CLASS: FIRST YEAR  
DIVISION: A  
SEMESTER: SEMESTER I  
COURSE : RESIDENTIAL INTERIOR SPACE DESIGN (TH) (120001)  
ACADEMIC YEAR: 2022-23

**RESIDENTIAL INTERIOR SPACE DESIGN (TH) (120001) Co Attainment FIRST YEAR Div.- A for A.Y - 2022-23**

**Attainment through Semester End Examination Weightage (%): 50**

Sr. No.	Tools	120001.1		120001.2		120001.3		120001.4		120001.5	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	3	3	3	3	3	3	3	3	3	3
Target and Attainment of Semester End Examination Assessment		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

**Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 50**

Sr. No.	Tools	120001.1		120001.2		120001.3		120001.4		120001.5	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	ASSIGNMENT 1 (I)	2	3	2	3	3	3	3	3	3	3
2	ASSIGNMENT 2 (I)	2	3	2	3	3	3	3	3	2	3
Target and Attainment of Cumulative Internal Examinations Assessment		2.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	2.50	3.00

**Overall Course CO Attainment**

Sr. No.	Tool Type	120001.1		120001.2		120001.3		120001.4		120001.5		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
2	Attainment through Cumulative Internal Examinations Assessment	2.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	2.50	3.00	2.50	3.00
Co Target and Direct Attainment		2.50	3.00	2.50	3.00	3.00	3.00	3.00	3.00	2.75	3.00	2.75	3.00

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: SNDTWU, JUHU CAMPUS  
PROGRAM: M.SC. (RESOURCE MANAGEMENT & INTERIOR DESIGN) (2015-20)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1
1	RESIDENTIAL INTERIOR SPACE DESIGN(TH) [120001 (I A)]	FIRST YEAR [2022-23]	3.00	2.00	2.40	1.80	1.80	1.40	1.00	2.80	2.80
2	RESIDENTIAL INTERIOR SPACE DESIGN(PR) [120002 (I A)]	FIRST YEAR [2022-23]	3.00	2.33	2.17	1.83	2.00	1.33	1.00	2.50	3.00
3	COMPUTER APPLICATIONS IN INTERIOR DESIGN(PR) [120003 (I A)]	FIRST YEAR [2022-23]	3.00	2.86	2.00	1.00	1.43	1.00	1.25	2.86	3.00
4	HUMAN RESOURCE MANAGEMENT (TH) [120004 (I A)]	FIRST YEAR [2022-23]	3.00	1.20	1.00	-	1.00	2.80	2.00	2.00	1.00
5	ENVIRONMENTAL STUDIES AND SUSTAINABILITY ( TH+PR) [120005 (I A)]	FIRST YEAR [2022-23]	3.00	1.75	1.50	1.50	3.00	1.25	1.00	2.75	3.00
6	RESEARCH METHODOLOGY (TH+PR) [220001 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	1.33	1.00	2.00	1.67	1.00	3.00	2.00
7	COMMERCIAL INTERIOR SPACE DESIGN (TH) [220002 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.25	1.50	2.00	1.50	1.00	3.00	3.00
8	COMMERCIAL INTERIOR SPACE DESIGN (PR) [220003 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.14	1.29	2.00	1.00	-	3.00	3.00
9	CONSTRUCTION & MATERIAL (PR) [220004 (II A)]	FIRST YEAR [2022-23]	3.00	2.86	1.86	1.33	2.57	1.43	1.00	2.43	2.86
10	LATEST TRENDS & TECHNOLOGY IN INTERIOR DESIGN (TH) [220005 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	1.40	1.20	2.00	1.20	1.10	3.00	3.00
11	PRODUCT DESIGN AND DEVELOPMENT [220101 (II A)]	FIRST YEAR [2022-23]	3.00	1.57	2.00	1.80	1.14	1.80	2.25	2.71	2.71
12	RESEARCH METHODOLOGY [32001 (I A)]	SECOND YEAR [2023-24]	3.00	1.00	-	-	-	1.33	2.00	2.83	2.67
13	LANDSCAPE DESIGN(PR) [320002 (I A)]	SECOND YEAR [2023-24]	3.00	2.75	2.00	1.50	2.75	1.25	1.00	2.25	2.75
14	WORKING DRAWING(PR) [320003 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	2.00	1.00	1.00	2.00	1.00	3.00	3.00
15	SERVICES SPECIALIZED SERVICES (PR) [320004 (I A)]	SECOND YEAR [2023-24]	3.00	2.67	2.00	2.00	2.00	1.33	1.00	2.67	2.33
16	ORGANIZATIONAL BEHAVIOUR (TH) [320005 (I A)]	SECOND YEAR [2023-24]	3.00	2.00	1.00	1.00	1.00	3.00	2.00	2.38	2.25
17	DISSERTATION (PR) [420888 (II A)]	SECOND YEAR [2023-24]	3.00	2.67	2.00	2.67	2.33	3.00	2.33	2.00	3.00
18	INTERNSHIP (TH) [420999 (II A)]	SECOND YEAR [2023-24]	3.00	2.40	1.80	2.80	2.20	2.40	2.60	2.40	2.60
19	PROFESSIONAL PRACTICES (TH) [420001 (II A)]	SECOND YEAR [2023-24]	3.00	1.50	1.00	1.00	1.00	2.75	2.25	2.00	2.00
20	SOFT SKILLS DEVELOPEMENT [21392 (I A)]	SECOND YEAR [2023-24]	3.00	1.00	-	-	-	2.50	2.00	2.17	1.17
<b>Direct Attainment</b>				2.28	1.77	1.54	1.85	1.80	1.51	2.59	2.56



## **PO/CO Attainment Analysis – FIRST YEAR [2022–23]**

**Institution:** SNDT Women's University, Juhu Campus

**Program:** M.Sc. Resource Management & Interior Design (CBCS)

**Batch:** 2022–2024

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**Course:** RESIDENTIAL INTERIOR SPACE DESIGN (TH) [120001]

**Total Attainment:** 3.00

**Analysis:** The course demonstrates consistent PO alignment with strong theoretical grounding.

**Suggestions for Improvement:** Encourage software integration and guest critiques for stronger engagement.

**Course:** RESIDENTIAL INTERIOR SPACE DESIGN (PR) [120002]

**Total Attainment:** 3.00

**Analysis:** Students exhibit well-developed design thinking and craftsmanship in this subject.

**Suggestions for Improvement:** Add collaborative workshops with industry experts for real-time feedback.

**Course:** INTERIOR PRODUCTS WORKSHOP-I (TH) [120003]

**Total Attainment:** 3.00

**Analysis:** Strong skill acquisition in technical tools and applied interior elements is evident.

**Suggestions for Improvement:** Integrate cross-disciplinary case studies and advanced design methods.

**Course:** INTERIOR PRODUCTS WORKSHOP-I (PR) [120004]

**Total Attainment:** 3.00

**Analysis:** The curriculum effectively supports practical and professional readiness.

**Suggestions for Improvement:** Promote hands-on experimentation with diverse materials and product types.

**Course:** ADVANCED INTERIOR SERVICE SYSTEMS (TH) [120005]

**Total Attainment:** 3.00

**Analysis:** Excellent understanding of service systems and their integration into design is shown.

**Suggestions for Improvement:** Introduce BIM tools and advanced energy-efficient system design elements.

**Course:** ADVANCED INTERIOR SERVICE SYSTEMS (PR) [120006]

**Total Attainment:** 3.00

**Analysis:** The course reinforces applied knowledge of services through lab-based work.

**Suggestions for Improvement:** Invite professionals from building services to conduct interactive sessions.

**Course:** INTERIOR DESIGN STUDIO-I (TH) [120007]

**Total Attainment:** 3.00

**Analysis:** The course fosters advanced conceptualization and space planning abilities.

**Suggestions for Improvement:** Enhance studio work through charrettes and critique-based evaluations.

**Course:** INTERIOR DESIGN STUDIO-I (PR) [120008]

**Total Attainment:** 3.00

**Analysis:** Demonstrates strong application of studio concepts through practical deliverables.

**Suggestions for Improvement:** Include interdisciplinary collaboration for comprehensive design development.

**Course:** RESEARCH METHODOLOGY [120009]

**Total Attainment:** 3.00

**Analysis:** Research skills and methodological understanding are clearly demonstrated.

**Suggestions for Improvement:** Facilitate student-led research symposia and mentorship for publication.

## **PO/CO Attainment Action Report – SECOND YEAR [2023–24]**

**Institution:** SNDT Women's University, Juhu Campus

**Program:** M.Sc. (Resource Management & Interior Design)

**Batch:** 2022–2024

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**Course:** RESEARCH METHODOLOGY [32001 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** The course demonstrates a strong research foundation. Continued emphasis on research writing and methodology has been maintained.

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**Course:** LANDSCAPE DESIGN (PR) [320002 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** High attainment reflects effective studio-based learning. Continue integrating practical design assignments and site visits.

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**Course:** WORKING DRAWING (PR) [320003 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** Demonstrated technical proficiency in execution drawings. Sustain progress through regular feedback and CAD practice.

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**Course:** SERVICES – SPECIALIZED SERVICES (PR) [320004 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** Practical service layout understanding is evident. Encourage more real-time case applications and technical detailing exercises.

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**Course:** ORGANIZATIONAL BEHAVIOUR (TH) [320005 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** Attainment reflects good conceptual understanding. Continue using role plays and management case studies to strengthen learning.

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**Course:** DISSERTATION (PR) [420888 ( II A)]

**Total Attainment:** 3.00

**Action Taken:** Final research submissions were well-executed. Encourage publication opportunities and external expert reviews.

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**Course:** INTERNSHIP (TH) [420999 ( II A)]

**Total Attainment:** 3.00

**Action Taken:** Internship experience effectively supported professional exposure. Continue maintaining strong industry-academic linkages.

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**Course:** PROFESSIONAL PRACTICES (TH) [420001 ( II A)]

**Total Attainment:** 3.00

**Action Taken:** Professional readiness skills are strongly aligned. Retain focus on portfolio development and client interaction modules.

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**Course:** SOFT SKILLS DEVELOPMENT [21392 ( I A)]

**Total Attainment:** 3.00

**Action Taken:** Communication and interpersonal skills are well-developed. Continue enhancing sessions with industry speakers and mock interviews.

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**CO-PO MAPPING OF COURSES (ENTIRE PROGRAM)**  
**PROGRAM: M. A. (ENGLISH)**  
**BATCH: 2022-24**

**3.1.2.A CO-PO Mapping of Courses (Entire Program) for AY - 2022-24**

CO	PO1	PO2	PO3	PO4	PO5	PO6
101501.1	2	3	2	1	3	-
101501.2	1	3	3	3	2	-
101501.3	-	3	3	2	3	2
<b>MODERN CRITICAL THEORY (101501 I)</b>	<b>1.50</b>	<b>3.00</b>	<b>2.67</b>	<b>2.00</b>	<b>2.67</b>	<b>2.00</b>
101502.1	3	2	1	-	2	2
101502.2	2	3	3	2	1	-
101502.3	2	3	2	-	2	3
<b>GENRE PAPER : DRAMA (101502 I)</b>	<b>2.33</b>	<b>2.67</b>	<b>2.00</b>	<b>2.00</b>	<b>1.67</b>	<b>2.50</b>
101503.1	2	3	2	-	2	1
101503.2	1	2	2	-	1	2
101503.3	2	2	3	2	2	-
<b>ADAPTATIONS OF SHAKESPEARE IN CINEMA (101503 I)</b>	<b>1.67</b>	<b>2.33</b>	<b>2.33</b>	<b>2.00</b>	<b>1.67</b>	<b>1.50</b>
101602.1	2	3	2	1	3	-
101602.2	2	3	2	1	3	-
101602.3	1	3	2	-	3	-
101602.4	1	3	2	1	2	1
101602.5	2	3	2	-	3	2
<b>MODERN FEMINIST CRITICAL THEORY (101602 I)</b>	<b>1.60</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.80</b>	<b>1.50</b>
101701.1	2	3	2	1	3	1
101701.2	1	3	3	2	2	-
101701.3	2	2	2	1	2	-
101701.4	2	3	2	1	3	1
<b>REPRESENTATION OF WOMEN IN DRAMATIC TEXTS (101701 I)</b>	<b>1.75</b>	<b>2.75</b>	<b>2.25</b>	<b>1.25</b>	<b>2.50</b>	<b>1.00</b>
201501.1	3	2	1	1	2	-
201501.2	2	3	2	3	1	-
201501.3	1	3	1	-	3	2
201501.4	3	1	1	1	2	-

<b>GENRE PAPER :NOVEL (201501 II)</b>	<b>2.25</b>	<b>2.25</b>	<b>1.25</b>	<b>1.67</b>	<b>2.00</b>	<b>2.00</b>
201502.1	3	2	1	-	2	-
201502.2	2	3	2	2	3	-
201502.3	2	3	2	1	2	1
201502.4	2	2	2	-	1	-
<b>GENRE PAPER III :POETRY (201502 II)</b>	<b>2.25</b>	<b>2.50</b>	<b>1.75</b>	<b>1.50</b>	<b>2.00</b>	<b>1.00</b>
201503.1	2	3	2	1	3	2
201503.2	2	3	2	2	3	3
201503.3	3	3	3	2	3	3
<b>RESEARCH METHODOLOGY (201503 II)</b>	<b>2.33</b>	<b>3.00</b>	<b>2.33</b>	<b>1.67</b>	<b>3.00</b>	<b>2.67</b>
201601.1	3	2	1	-	2	-
201601.2	3	3	2	1	3	-
201601.3	3	3	3	2	3	-
<b>THE MODERNIST AND THE POST-MODERNIST NOVEL (201601 II)</b>	<b>3.00</b>	<b>2.67</b>	<b>2.00</b>	<b>1.50</b>	<b>2.67</b>	<b>-</b>
201701.1	3	2	1	-	2	-
201701.2	3	3	2	1	3	-
201701.3	3	3	3	2	3	-
<b>EPICS AND THE LONG POEMS FROM THE CLASSICAL TO THE MODERN. (201701 II)</b>	<b>3.00</b>	<b>2.67</b>	<b>2.00</b>	<b>1.50</b>	<b>2.67</b>	<b>-</b>
301501.1	1	2	1	2	2	-
301501.2	2	2	2	2	1	-
301501.3	1	2	2	3	-	2
301501.4	1	2	3	3	-	2
<b>THEORIES OF LANGUAGE ACQUISITION AND LEARNING AND APPROACHES TO SYLLABUS DESIGN. (301501 I)</b>	<b>1.25</b>	<b>2.00</b>	<b>2.00</b>	<b>2.50</b>	<b>1.50</b>	<b>2.00</b>
301502.1	-	1	1	2	-	2
301502.2	-	2	2	3	-	3
301502.3	-	1	-	1	-	2
301502.4	-	1	1	2	-	3
<b>LANGUAGE TEACHING SKILLS AND ISSUES IN LANGUAGE TESTING OR (301502 I)</b>	<b>-</b>	<b>1.25</b>	<b>1.33</b>	<b>2.00</b>	<b>-</b>	<b>2.50</b>
301503.1	1	2	2	2	3	2
301503.2	1	3	3	3	3	3
301503.3	-	3	3	2	3	3
301503.4	1	3	3	3	3	3

<b>UNDERSTANDING ALTERNATIVE MARGINALITIES (301503 I)</b>	<b>1.00</b>	<b>2.75</b>	<b>2.75</b>	<b>2.50</b>	<b>3.00</b>	<b>2.75</b>
301602.1	3	-	2	1	2	2
<b>Translation Studies: Theory and Practice (1B) (301602 I)</b>	<b>3.00</b>	<b>-</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>
301702.1	1	2	2	2	2	2
301702.2	-	3	2	2	3	3
301702.3	2	2	3	1	2	2
301702.4	-	3	2	2	3	3
<b>Introduction to Digital Humanities (2B) (301702 I)</b>	<b>1.50</b>	<b>2.50</b>	<b>2.25</b>	<b>1.75</b>	<b>2.50</b>	<b>2.50</b>
401501.1	1	2	1	3	2	3
401501.2	-	2	1	3	2	3
401501.3	-	1	-	3	1	3
<b>INTERNSHIP-I (401501 II)</b>	<b>1.00</b>	<b>1.67</b>	<b>1.00</b>	<b>3.00</b>	<b>1.67</b>	<b>3.00</b>
401502.1	1	2	1	3	2	3
401502.2	-	2	1	3	2	3
401502.3	-	1	-	3	1	3
<b>INTERNSHIP-II (401502 II)</b>	<b>1.00</b>	<b>1.67</b>	<b>1.00</b>	<b>3.00</b>	<b>1.67</b>	<b>3.00</b>
401503.1	2	3	2	1	2	3
<b>FILM ADAPTATIONS OF NOVELS (401503 II)</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>3.00</b>
401601.1	3	3	3	-	3	2
401601.2	3	3	3	2	3	-
<b>POST-COLONIAL THEORY AND PRACTICE (1A) (401601 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>
401701.1	3	3	3	2	3	-
401701.2	3	3	3	-	3	2
<b>Post-Colonial Voices (2A) (401701 II)</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>

**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**COURSE-CO ATTAINMENT**

DEPARTMENT:  
EDUCATIONAL UNIT:SNDTWU, CHURCHGATE CAMPUS (1)  
PROGRAM:M. A. (ENGLISH)  
CLASS: FIRST YEAR  
DIVISION:A  
SEMESTER:SEMESTER I  
COURSE : MODERN CRITICAL THEORY (101501)  
ACADEMIC YEAR: 2022-23

Attainment through Semester End Examination Weightage (%): 75

Sr. No.	Tools	101501.1		101501.2		101501.3	
		Target	Attainment	Target	Attainment	Target	Attainment
1	END SEMESTER EXAM (I)	2	2	2	2	2	2
Target and Attainment of Semester End Examination Assessment		2.00	2.00	2.00	2.00	2.00	2.00

Target and Attainment through Cumulative Internal Examinations Assessment Weightage (%): 25

Sr. No.	Tools	101501.1		101501.2		101501.3	
		Target	Attainment	Target	Attainment	Target	Attainment
1	ASSIGNMENT 1 (I)	NA	NA	2	3	2	3
2	ASSIGNMENT 2 (I)	1	3	1	3	NA	NA
Target and Attainment of Cumulative Internal Examinations Assessment		1.00	3.00	1.50	3.00	2.00	3.00

Overall Course CO Attainment

Sr. No.	Tool Type	101501.1		101501.2		101501.3		Overall Attainment	
		Target	Attainment	Target	Attainment	Target	Attainment	Target	Attainment
1	Attainment through Semester End Examination	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
2	Attainment through Cumulative Internal Examinations Assessment	1.00	3.00	1.50	3.00	2.00	3.00	1.50	3.00
Co Target and Direct Attainment		1.75	2.25	1.88	2.25	2.00	2.25	1.88	2.25



**SNDT WOMEN'S UNIVERSITY, MUMBAI**  
**DIRECT PO ATTAINMENT**  
EDUCATIONAL UNIT: SNDTWU, CHURCHGATE CAMPUS  
PROGRAM: M. A. (ENGLISH) (1011-01)  
Batch: 2022-24

**Direct PO/PSO Attainment for Batch - 2022-24**

Sr. No.	Course	Class	Total Attainment	PO1	PO2	PO3	PO4	PO5	PO6
1	MODERN CRITICAL THEORY [101501 (I A)]	FIRST YEAR [2022-23]	2.25	1.13	2.25	2.00	1.50	2.00	1.50
2	GENRE PAPER : DRAMA [101502 (I A)]	FIRST YEAR [2022-23]	3.00	2.33	2.67	2.00	2.00	1.67	2.50
3	ADAPTATIONS OF SHAKESPEARE IN CINEMA [101503 (I A)]	FIRST YEAR [2022-23]	3.00	1.67	2.33	2.33	2.00	1.67	1.50
4	MODERN FEMINIST CRITICAL THEORY [101602 (I A)]	FIRST YEAR [2022-23]	1.50	0.80	1.50	1.00	0.50	1.40	0.75
5	REPRESENTATION OF WOMEN IN DRAMATIC TEXTS [101701 (I A)]	FIRST YEAR [2022-23]	3.00	1.75	2.75	2.25	1.25	2.50	1.00
6	GENRE PAPER :NOVEL [201501 (II A)]	FIRST YEAR [2022-23]	3.00	2.25	2.25	1.25	1.67	2.00	2.00
7	GENRE PAPER III :POETRY [201502 (II A)]	FIRST YEAR [2022-23]	3.00	2.25	2.50	1.75	1.50	2.00	1.00
8	RESEARCH METHODOLOGY [201503 (II A)]	FIRST YEAR [2022-23]	3.00	2.33	3.00	2.33	1.67	3.00	2.67
9	THE MODERNIST AND THE POST-MODERNIST NOVEL [201601 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.67	2.00	1.50	2.67	-
10	EPICS AND THE LONG POEMS FROM THE CLASSICAL TO THE MODERN. [201701 (II A)]	FIRST YEAR [2022-23]	3.00	3.00	2.67	2.00	1.50	2.67	-
11	THEORIES OF LANGUAGE ACQUISITION AND LEARNING AND APPROACHES TO SYLLABUS DESIGN. [301501 (I A)]	SECOND YEAR [2023-24]	3.00	1.25	2.00	2.00	2.50	1.50	2.00
12	LANGUAGE TEACHING SKILLS AND ISSUES IN LANGUAGE TESTING OR [301502 (I A)]	SECOND YEAR [2023-24]	3.00	-	1.25	1.33	2.00	-	2.50
13	UNDERSTANDING ATLERNATIVE MARGINALITIES [301503 (I A)]	SECOND YEAR [2023-24]	3.00	1.00	2.75	2.75	2.50	3.00	2.75
14	TRANSLATION STUDIES: THEORY AND PRACTICE (1B) [301602 (I A)]	SECOND YEAR [2023-24]	3.00	3.00	-	2.00	1.00	2.00	2.00
15	INTRODUCTION TO DIGITAL HUMANITIES (2B) [301702 (I A)]	SECOND YEAR [2023-24]	3.00	1.50	2.50	2.25	1.75	2.50	2.50
16	INTERNSHIP-I [401501 (II A)]	SECOND YEAR [2023-24]	3.00	1.00	1.67	1.00	3.00	1.67	3.00
17	INTERNSHIP-II [401502 (II A)]	SECOND YEAR [2023-24]	3.00	1.00	1.67	1.00	3.00	1.67	3.00
18	FILM ADAPTATIONS OF NOVELS [401503 (II A)]	SECOND YEAR [2023-24]	3.00	2.00	3.00	2.00	1.00	2.00	3.00
19	POST-COLONIAL THEORY AND PRACTICE (1A) [401601 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	3.00	2.00	3.00	2.00
20	POST-COLONIAL VOICES (2A) [401701 (II A)]	SECOND YEAR [2023-24]	3.00	3.00	3.00	3.00	2.00	3.00	2.00
<b>Direct Attainment</b>				1.96	2.39	1.96	1.79	2.21	2.09

## **PO/CO Attainment Analysis – FIRST YEAR [2022-23]**

Institution: SNDT Women's University, Churchgate Campus

Program: M.A. (English – Choice-Based Credit System)

Batch: 2022–2024

Course: MODERN CRITICAL THEORY [101501 (I A)]

Total Attainment: 2.25

Analysis: The course is moderately effective, suggesting some room for pedagogical refinement.

Suggestions for Improvement: Strengthen continuous assessment and mentoring support.

Course: GENRE PAPER : DRAMA [101502 (I A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: ADAPTATIONS OF SHAKESPEARE IN CINEMA [101503 (I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: MODERN FEMINIST CRITICAL THEORY [101602 (I A)]

Total Attainment: 1.50

Analysis: Attainment results highlight a need to address partial alignment with learning outcomes.

Suggestions for Improvement: Integrate interactive elements like group projects and real-life applications.

Course: REPRESENTATION OF WOMEN IN DRAMATIC TEXTS [101701 (I A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: GENRE PAPER :NOVEL [201501 (II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: GENRE PAPER III :POETRY [201502 (II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: RESEARCH METHODOLOGY [201503 (II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: THE MODERNIST AND THE POST-MODERNIST NOVEL [201601 (II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: EPICS AND THE LONG POEMS FROM THE CLASSICAL TO THE MODERN. [201701 (II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

## **PO/CO Attainment Analysis – SECOND YEAR [2023-24]**

Institution: SNDT Women's University, Churchgate Campus

Program: M.A. (English – Choice-Based Credit System)

Batch: 2022–2024

Course: THEORIES OF LANGUAGE ACQUISITION AND LEARNING AND APPROACHES TO SYLLABUS DESIGN. [301501 (I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: LANGUAGE TEACHING SKILLS AND ISSUES IN LANGUAGE TESTING OR [301502 (I A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: UNDERSTANDING ALTERNATIVE MARGINALITIES [301503 (I A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: TRANSLATION STUDIES: THEORY AND PRACTICE (1B) [301602 (I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: INTRODUCTION TO DIGITAL HUMANITIES (2B) [301702 (I A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: INTERNSHIP-I [401501 (II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.

Course: INTERNSHIP-II [401502 (II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: FILM ADAPTATIONS OF NOVELS [401503 (II A)]

Total Attainment: 3.00

Analysis: A high level of attainment reflects effective curriculum planning and delivery.

Suggestions for Improvement: Encourage knowledge-sharing across departments based on this success model.

Course: POST-COLONIAL THEORY AND PRACTICE (1A) [401601 (II A)]

Total Attainment: 3.00

Analysis: The course has demonstrated consistent excellence in meeting program outcomes.

Suggestions for Improvement: Expand on existing strengths and document effective teaching strategies.

Course: POST-COLONIAL VOICES (2A) [401701 (II A)]

Total Attainment: 3.00

Analysis: This course achieved remarkable alignment between COs and student performance.

Suggestions for Improvement: Continue the current teaching approach while incorporating reflective feedback.