



SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA-301: OBJECT ORIENTED PROGRAMMING USING JAVA

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1:	Understand the fundamentals of object oriented programming and java programming basics.
CO2:	Understand the concept of objects and classes and inheritance.
CO3:	Implement polymorphism and arrays.
CO4:	Implement abstraction and interfaces, along with understanding the relevance of access modifiers and packages.
CO5:	Understand the concept of exception handling and threads.

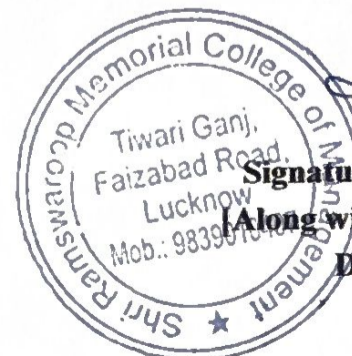
CO - PO - PSO Mapping

COURSE OUTCOMES (CO)	PO CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
		CO1	1	2	3	3	1	3	3	2
CO2	1	2	3	3	1	3	3	2	-	
CO3	1	2	3	3	1	3	3	2	-	
CO4	1	2	3	3	1	3	3	2	-	
CO5	1	2	3	3	1	3	3	2	-	
CO (Average)		1	2	3	3	1	3	3	2	-

The extent of mapping is as follows: 1→ Slight (Low), 2→ Moderate (Medium), 3→ Substantial (High).
'-' denotes no correlation between CO, PO & PSO.

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[with Date]



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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA-302: SOFTWARE ENGINEERING

Course Outcomes (CO)


At the end of this course, the student will be able to:


CO1	Understand the basic concepts of software engineering.
CO2	Understand the requirements analysis and importance of SRS documentation.
CO3	Understand the design of software product.
CO4	Understand various testing techniques.
CO5	Analyze the importance of software maintenance and software project management.

CO - PO - PSO Mapping

	CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	CO1	3	2	2	2	1	2	-	1	1
	CO2	2	2	2	1	2	2	1	1	1
	CO3	2	2	2	1	2	2	2	1	1
	CO4	1	2	2	1	2	2	2	1	1
	CO5	2	2	2	2	2	2	2	1	1
CO (Average)		2	2	2	1.20	1.40	2	1.75	1	1

The extent of mapping is as follows: 1→ Slight (Low), 2→ Moderate (Medium), 3→ Substantial (High).
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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA303: COMPUTER ARCHITECTURE

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Apply the basics of computer architecture into the working of functional units of a digital computer.
CO2	Understand the concepts of Instruction types, formats and micro-operations in the design and functioning of different computer architectures like RISC, CISC etc.
CO3	Analyse the concepts of the various network models and performance metrics in parallel processing.
CO4	Understand the concepts and Principles of pipelining for Designing pipelined Processors.
CO5	Analyze Partitioning & scheduling of program and to distinguish between different Program Flow Mechanisms.

CO - PO - PSO Mapping

COURSE OUTCOMES (CO)	PO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1		1	2	2	1	-	2	3	2	
CO2		1	2	2	2	2	2	3	3	
CO3		1	3	3	3	-	1	2	2	
CO4		1	1	2	2	1	2	2	3	
CO5		3	3	3	3	-	1	3	2	
CO (Average)		1	2.2	2.4	2.2	1.5	1.6	2.6	2.4	

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA-304: PYTHON PROGRAMMING

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	:	Understand the basic concept of Python.
CO2	:	Understand the variables, data types, loops, and properties of Python.
CO3	:	Understand the concept of strings and their associated functions.
CO4	:	Understand the object-oriented concepts in Python.
CO5	:	Apply knowledge of Python on file handling using Pandas and NumPy.

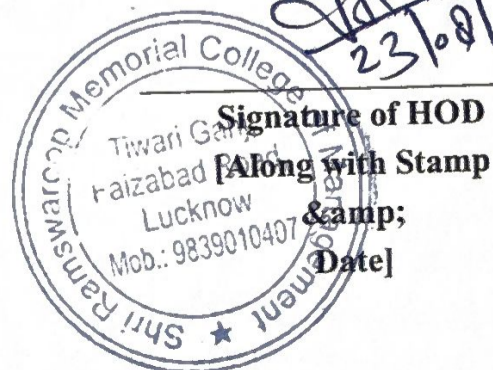
CO - PO - PSO Mapping

COURSE OUTCOMES (CO)	PO CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1		3	2	1	1	1	2	2	1	1
CO2		3	2	2	2	2	2	2	2	1
CO3		2	2	2	2	2	2	2	2	1
CO4		2	2	3	3	2	2	2	3	2
CO5		2	3	3	3	3	3	3	3	2
CO (Average)		2.8	2.2	2.2	2.2	2	2.2	2.2	2.2	1.4

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BCA [SEM III]

NBCA-305: ACCOUNTING AND FINANCIAL MANAGEMENT

Course Outcomes (CO)

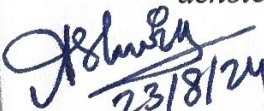
At the end of this course, the student will be able to:

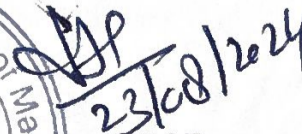
CO1	Understand the fundamentals and basic concepts of financial accounting
CO2	Understand the various accounting principles and standard used in preparation of financial statements
CO3	Understand preparation and presentation of financial statements
CO4	Understand the acquire knowledge about various techniques used in financial statement analysis.
CO5	Understand the demonstrate the awareness about the concepts scope and objectives of financial management.

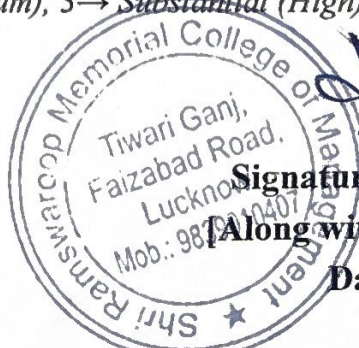
CO - PO - PSO Mapping

CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	1	-	-	-	1	2	-	1	1
CO2	1	1	1	1	1	2	1	1	1
CO3	2	1	2	1	1	2	2	1	1
CO4	1	1	-	1	2	2	2	1	1
CO5	1	2	1	2	1	1	2	1	1
CO (Average)	1.2	1	.8	1	1.2	1.8	1.4	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA-306P: JAVA LAB

Course Outcomes (CO)

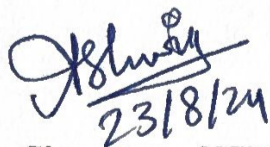
At the end of this course, the student will be able to:

CO1:	Write programs in Java language.
CO2:	Implement Arrays and Strings.
CO3:	Implement Interfaces and Packages
CO4:	Implement Method Overloading and Method Overriding.
CO5:	Handle Exceptions and Threads in Java.

CO - PO - PSO Mapping

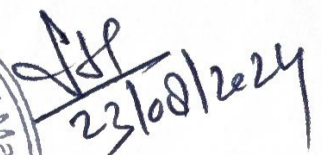
COURSE OUTCOMES (CO)	PO CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
		CO1	1	2	3	3	-	3	3	2
CO2	1	2	3	3	-	3	3	2	1	
CO3	1	2	3	3	-	3	3	2	1	
CO4	1	2	3	3	-	3	3	2	1	
CO5	1	2	3	3	-	3	3	2	1	
CO (Average)		1	2	3	3	-	3	3	2	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA | SEM III |

NBCA-307P: PYTHON PROGRAMMING

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	:	Understand the fundamentals of python programming.
CO2	:	Make programs in python using list.
CO3	:	Make programs in python using dictionary.
CO4	:	Make programs in python using string.
CO5	:	Make programs in python using tuple.
CO6	:	Implement classes and objects, file operations and concept of control structures with loops.

CO - PO - PSO Mapping

		PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	CO1	3	2	2	1	-	3	2	1	2
	CO2	2	3	2	2	-	2	3	2	1
	CO3	2	3	2	1	-	2	2	2	1
	CO4	1	2	3	1	-	2	3	1	1
	CO5	1	2	3	2	-	1	3	2	2
	CO6	3	2	3	3	3	3	2	3	3
	CO (Average)	2	2.3	2.5	1.7	0.5	2.2	2.5	1.8	1.7

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM III]

NBCA-308P: INDUSTRIAL TRAINING VIVA VOCE

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	:	Students will be able to understand the scope of industrial training as well as its utilization.
CO2	:	Demonstrate a sound technical knowledge of industrial training report
CO3	:	Rectify the problems in industrial training reports and clear doubts about basics of software development procedure.
CO4	:	Communicate with students in written and oral forms. Analyze their work progress by organizing Industrial training report presentation.

CO - PO - PSO Mapping

COURSE OUTCOMES (CO)	PO CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
	CO1	3	2	2	2	1	2	-	1	1
	CO2	2	2	2	1	2	2	1	1	1
	CO3	2	2	2	1	2	2	2	1	1
	CO4	1	2	2	1	2	2	2	1	1
	CO (Average)	2	2	2	1.25	1.75	2	1.25	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA-401: ADVANCE JAVA TECHNOLOGY

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Understand Server-Side Architecture of Web Applications.
CO2	Connect to Database and do the CRUD database operations using JDBC.
CO3	Develop Web Application by using Servlet and JSP.
CO4	Develop Java Server Pages in the Web Application.
CO5	Manage session in the web application.

CO - PO - PSO Mapping

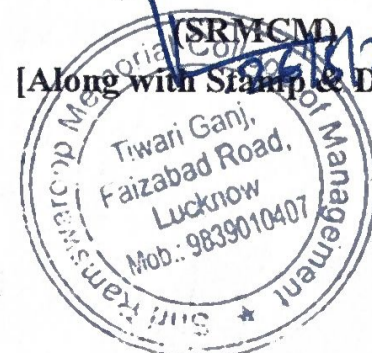
CO \ PO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	1	2	-	1	1
CO2	2	2	2	1	2	2	1	1	1
CO3	2	2	2	1	2	2	2	1	1
CO4	1	2	2	1	2	2	2	1	1
CO5	2	2	2	2	2	2	2	1	1
CO (Average)	2	2	2	1.20	1.40	2	1.75	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA-402: DESIGN AND ANALYSIS OF ALGORITHM

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Implementation of various sorting algorithm and their comparisons.
CO2	Analyze advanced data structure to balance and search values in trees and heaps.
CO3	Analyze the concept of Divide & Conquer and Greedy techniques.
CO4	Implementation of Dynamic Programming concept in solving various problems.
CO5	Understand the concepts such as NP-completeness and randomized algorithms.

CO - PO - PSO Mapping

CO	PO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	CO1	2	2	3	2	2	2	2	1	-
	CO2	2	2	2	3	2	2	1	1	1
	CO3	1	2	2	3	2	2	1	1	1
	CO4	2	2	2	1	2	2	2	1	1
	CO5	1	2	2	1	2	2	1	1	1
CO (Average)		1.6	2	2.20	2	2	2	1.40	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA-403: WEB DESIGN CONCEPTS

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Understand the knowledge of the internet and related internet concepts that are vital in understanding web application development.
CO2	Analyse and apply the role of markup languages like HTML, DHTML, and XML in the workings of the web and web applications.
CO3	Programming web pages with JavaScript
CO4	Design and Implementation of build dynamic web pages using client side programming JavaScript and also develop the web application using servlet and JSP.

CO - PO - PSO Mapping

		PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	CO1	2	2	2	2	1	2	1	1	1
	CO2	2	2	1	1	2	2	1	1	1
	CO3	2	2	2	1	2	2	2	1	1
	CO4	1	2	2	1	2	2	1	1	1
	CO (Average)	1.75	2	1.75	1.25	1.75	2	1.25	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA-404: COMPUTER GRAPHICS

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1:	Work with display systems.
CO2:	Execute various scan conversion algorithms in laboratory so as to draw graphics primitives.
CO3:	Work with 2D and 3D graphics.
CO4:	Develop creativity to create 2D objects.

CO - PO - PSO Mapping

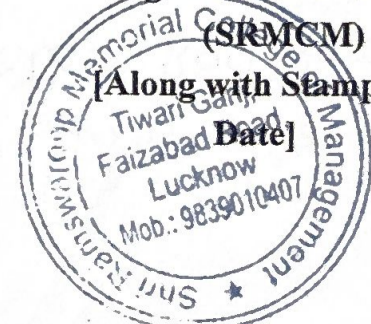
		PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	PO CO									
	CO1	2	3	3	3	1	3	3	2	1
	CO2	2	3	3	3	1	3	3	2	1
	CO3	2	3	3	3	1	3	3	2	1
	CO4	2	3	3	3	1	3	3	2	1
CO (Average)	2	3	3	3	1	3	3	2	1	

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA-405: MANEGERIAL ECONOMICS

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1:	Understand the importance of Managerial Economics in Business Decision –Making.
CO2:	Apply the concepts and tolls of economic analysis Business Decision -Making.
CO3:	Apply the principles of managerial economics in achievement of business objectives.
CO4:	Apply the knowledge of the mechanics of supply and demand to explain the working of markets.
CO5:	Understand and analyze the macro environment affecting the Business Decision –Making.

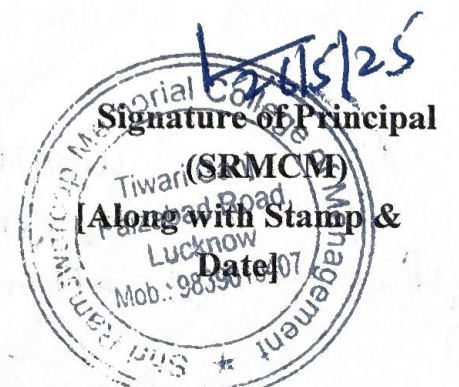
CO - PO - PSO Mapping

CO \ PO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	1	2	-	1	1
CO2	2	2	2	1	2	2	1	1	1
CO3	2	2	2	1	2	2	2	1	1
CO4	1	2	2	1	2	2	2	1	1
CO5	2	2	2	2	2	2	2	1	1
CO (Average)	2	2	2	1.20	1.40	2	1.75	1	1

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SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA – 406P: ADVANCE JAVA TECHNOLOGY

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Understand the concept of AWT
CO2	Write JDBC application
CO3	Make program for Applet
CO4	Make program for JSP

CO - PO - PSO Mapping

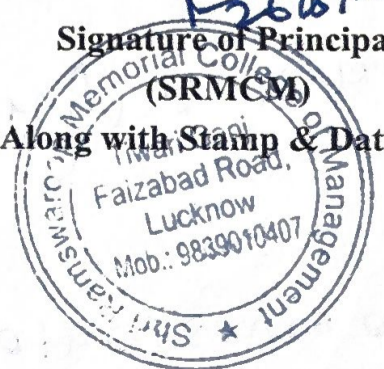
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		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1		2	3	1	2	3	2	3	2	2
CO2		3	1	2	2	1	2	2	3	2
CO3		1	3	2	2	1	2	2	2	2
CO4		2	2	3	2	3	2	2	1	2
CO (Average)		2	2.25	2	2	2	2	2.25	2	2

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BCA [SEM IV]

NBCA-407P: WEB DESIGN LAB

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1	Create basic level forms using HTML tags to understand a web page.
CO2	Extend the knowledge of HTML by combining CSS tags for updating the existing web page.
CO3	Understand the use of XML for sharing and storing of data using Schema.
CO4	Construct a dynamic web pages using JavaScript also utilizing the knowledge of DTD.

CO - PO - PSO Mapping

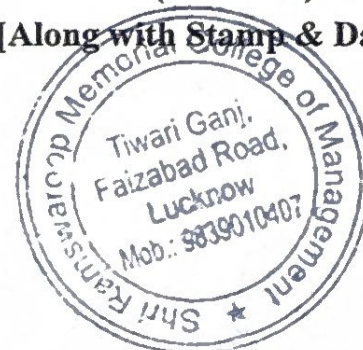
COURSE OUTCOMES (CO)	PO CO	PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
	CO1	3	2	2	2	1	2	-	1	1
	CO2	2	2	2	1	2	2	1	1	1
	CO3	2	2	2	1	2	2	2	1	1
	CO4	1	2	2	1	2	2	2	1	1
	CO (Average)	2	2	2	1.25	1.75	2	1.25	1	1

The extent of mapping is as follows: 1→ Slight (Low), 2→ Moderate (Medium), 3→ Substantial (High). '-' denotes no correlation between CO, PO & PSO.

Signature of NBA/OBE
Coordinator(s)
[with Date]

Signature of HOD
[Along with Stamp & Date]

Signature of Principal
(SRMCM)
[Along with Stamp & Date]





SHRI RAMSWAROOP MEMORIAL COLLEGE OF MANAGEMENT

BCA [SEM IV]

NBCA – 408P: COMPUTER GRAPHICS LAB

Course Outcomes (CO)

At the end of this course, the student will be able to:

CO1:	DDA Algorithms for line and circle and Bresenham's Algorithms for Circle and Ellipse Drawing.
CO2:	Mid-Point Circle Algorithm Mid-Point Ellipse Algorithm Using C.
CO3:	Understand the implementation of clipping, rotation, reflection and shearing.
CO4:	Perform basic operations on images using Animation software.

CO - PO - PSO Mapping

		PROGRAM OUTCOMES (PO)					PROGRAM SPECIFIC OUTCOMES (PSO)			
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
COURSE OUTCOMES (CO)	PO CO									
	CO1	2	3	3	3	1	3	3	2	1
	CO2	2	3	3	3	1	3	3	2	1
	CO3	2	3	3	3	1	3	3	2	1
	CO4	2	3	3	3	1	3	3	2	1
CO (Average)	2	3	3	3	1	3	3	2	1	

The extent of mapping is as follows: 1 → Slight (Low), 2 → Moderate (Medium), 3 → Substantial (High). '-' denotes no correlation between CO, PO & PSO.

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