Krishnasamy College of Science, Arts & Management for Women, Cuddalore.

213 - BACHELOR OF COMPUTER APPLICATONS (BCA)

Under CBCS

**(Applicable to the candidates admitted in Affiliated Colleges
in the academic year 2023 - 2024 ONLY)
Course Outcome and Mapping**

Subject Code & Title: 23UBCAC13 & Python programming

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Demonstrate the understanding of syntax and semantics
2. Identify the problem and solve using PYTHON programming techniques.
3. Identify suitable programming constructs for problem solving.
4. Analyze various concepts of PYTHON language to solve the problem in an efficient way.
5. Develop a PYTHON program for a given problem and test for its correctness.

Mapping with Programme Outcomes:

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	2	2	3	2
CO 2	2	1	3	2	-	2
CO 3	3	3	1	1	1	2
CO 4	2	3	3	1	-	1
CO 5	3	2	3	1	1	-
Weightage of course contributed to each PSO	12	11	12	7	5	7

S-Strong-3   M-Medium-2 L-Low-1

Subject Code & Title:23UNUME15 & numerical methods

COURSE OUTCOME:

The students after undergoing this course will be able to
1) develop the skill of calculation through forward and backward interpolations
2) solve by central difference methods
3) calculate interpolation for unequal intervals
4) solve the solutions of simultaneous equations using different methods.
5) understand the applications of integration in real life situation

Outcome Mapping

	PO1	PO2	PO3	PO4	PO5
CO1	3	2	3	2	2
CO2	2	2	2	3	2
CO3	3	3	2	2	1
CO4	2	1	3	2	2
CO5	2	3	3	3	1

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & Title:23UBCAF17 & Structured Programming in C

COURSE OUTCOMES
1) Remember the program structure of C with its syntax and semantics.
2) Understand the programming principles in C (data types, operators, branching and looping, arrays, functions, structures, pointers and files
3) Apply the programming principles learnt in real-time problems
4) Analyze the various methods of solving a problem and choose the best method
5) Code, debug and test the programs with appropriate test cases

Mapping with Programme Outcomes:

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	2	2	2	2	-
CO 2	2	2	2	2	-	2
CO 3	3	2	2	1	1	-
CO 4	3	2	2	1	-	1
CO 5	1	2	2	2	2	3
Weightage of course contributed to each PSO	7	10	10	18	15	6

S-Strong-3   M-Medium-2 L-Low-1

Subject Code & Title:23UBCAC23 & OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++

COURSE OUTCOMES
1) Remember the program structure of C with its syntax and semantics
2) Understand the programming principles in C (data types, operators, branching and looping, arrays, functions, structures, pointers and files)
3) Apply the programming principles learnt in real-time problems
4) Analyze the various methods of solving a problem and choose the best method.
5) Code, debug and test the programs with appropriate test cases.

Mapping with Programme Outcomes:

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	2	1	-	-	1
CO 2	2	2	2	1	-	-
CO 3	3	1	1	-	1	-
CO 4	1	2	1	2	2	1
CO 5	3	2	1	2	3	2
Weightage of course contributed to each PSO	12	9	6	5	6	4

S-Strong-3   M-Medium-2 L-Low-1

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213 - BACHELOR OF COMPUTER APPLICATONS (BCA)

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(Applicable to the candidates admitted in Affiliated Colleges
in the academic year 2022 -2023 ONLY)
Course Outcome and Mapping

Subject Code & Subject Title: 22UBCAC13 & PROGRAMMING IN C

COURSE OUTCOMES

1) The Student will be able to understand the concepts of Constants, Variables, and Data Types, Operators and Expressions

2) The Student will be able to understand the concepts of Managing Input and Output Operations, Decision Making and Branching, Decision Making and Looping.

3) The Student will be able to understand the concepts of Arrays, Character Arrays and Strings, User Defined Functions.

4) The Student will be able to understand the concepts of Structure and Unions, Pointers, File Management in C.

5) The Student will be able to understand the concepts of Fundamental Algorithms, Factoring Methods.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	1	2	2	3	1
CO3	3	3	3	3	2
CO4	1	3	2	2	1
CO5	1	3	3	3	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code & Subject Title: 22UBCAC14 & DIGITAL COMPUTER FUNDAMENTALS

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1) Identify the logic gates and their functionality.
2) Perform number conversions from one system to another system.
3) Design basic electronic circuits (combinational circuits).
4) Perform a comparative analysis of the components of different memory Units.
5) Perform number conversions.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	1	3	3	1	3
CO2	1	2	2	2	1
CO3	3	2	3	3	2
CO4	1	3	2	2	1
CO5	1	3	2	3	1

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & Subject Title: 22UBCACP15 & PROGRAMMING IN C LAB

COURSE OUTCOMES

1) To learn the basic concepts Object oriented programming.
2) To learn the control structures and arrays.
3) To implementing the constructors & File opening and closing.
4) To learn the fundamentals of stack & Queue operations.
5) To learn the concepts of graphs, sorting & searching methods.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	2	2
CO2	2	2	2	3	1
CO3	2	3	3	3	2
CO4	1	3	2	2	2
CO5	1	2	3	3	1

1) 1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & Subject Title: 22UBCACE26-3 & INTERNET AND ITS APPLICATIONS

COURSE OUTCOMES

1) Explain basic usages of internet and its applications.
2) Define and demonstrate the use of Web Browsers.
3) To Explain the E-Mail applications.
4) To demonstrate the HTML & its tags.
5) To Know the E-Marketing and its advertisements.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	1	2	2	2	1
CO3	3	1	3	1	3
CO4	2	3	3	3	3
CO5	1	3	3	1	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code & Subject Title: 22USMAA02 & STATISTICAL METHODS AND THEIR APPLICATIONS

COURSE OUTCOMES

1) Understand the various concepts of statistics.
2) know about measures of central tendencies and dispersion
3) know the concept of correlation and regression
4) apply the concept of probability distribution
5) test the population parametric value

OUTCOME MAPPING

	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	1	3	2	2	3
CO3	3	3	3	2	2
CO4	3	3	2	2	2
CO5	1	3	3	3	3

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & subject Title: 22UBCAC33 & JAVA PROGRAMMING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1) Explain basic principles of Java programming language
2) Define and demonstrate the use of built-in data structures "lists" and "dictionary".
3) Design and implement a program to solve a real world problem.
4) Design and implement GUI application and how to handle exceptions and files.
5) Make database connectivity in Java programming language.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	1	2	2	2	1
CO3	1	3	3	1	3
CO4	1	3	2	3	1
CO5	1	3	3	3	1

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & subject Title:22UCOMA19 & FINANCIAL ACCOUNTING - I

COURSE OUTCOMES

1) Explain basic principles of Accounting
2) Define and demonstrate the use of subsidiary books
3) Design and implement a Bank Reconciliation Statement.
4) Design and implement depreciation Accounting.
5) To design the Manufacturing account.

Outcome Mapping

	PO1	PO2	PO3	PO4	PO5
CO1	3	2	3	2	3
CO2	2	1	2	1	2
CO3	3	1	3	2	3
CO4	3	1	3	1	3
CO5	3	1	3	1	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code & subject Title:22UBCAE35-1 MANAGEMENT INFORMATION SYSTEM

COURSE OUTCOMES

1) To learn the Management Information systems.
2) To learn about the information system types.
3) To learn about the analysis & planning of system.
4) To learn about the various systems.
5) To learn about the needs &maintenance of MIS.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2

CO/PO				
CO2	1	2	2	2	1
CO3	3	3	3	3	2
CO4	1	3	2	3	1
CO5	1	3	3	3	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code & subject Title: 22UBCAC43 & PYTHON PROGRAMMING

COURSE OUTCOMES

1) Explain basic principles of Python programming language
2) Define and demonstrate the use of built-in data structures "lists" and "dictionary".
3) Design and implement a program to solve a real world problem.
4) Design and implement GUI application and how to handle exceptions and files.
5) Make database connectivity in python programming language.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	2	2	3	2
CO2	3	3	1	2	1
CO3	3	3	1	3	3
CO4	3	1	3	2	2
CO5	2	3	3	3	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code & subject Title: 22UBCAC44 & ARTIFICIAL INTELLIGENCE

COURSE OUTCOMES

1) Solve basic AI based problems.
2) Define the concept of Artificial Intelligence.
3) Apply AI techniques to real-world problems to develop intelligent systems.
4) Select appropriately from a range of techniques when implementing intelligent systems.

5) Understand concept of neural Networks.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	1	2	3	3	3
CO2	3	1	2	2	2
CO3	2	1	3	3	1
CO4	3	1	3	3	2
CO5	3	1	3	3	2

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & subject Title: 22UCOMA20 & FINANCIAL ACCOUNTING - II

COURSE OUTCOMES
1) Understand the concept and gain the knowledge on Average Due Date.
2) Be familiar with the nuances of different systems of accounting
3) followed for Branches.
4) Acquire the Knowledge about Departmental Accounts.
5) Be acquainted with the accounting treatments required for admission of
6) partners in Partnership firms.
7) Understand the accounting procedures involved in the retirement and death of partners in Partnership firms

OUTCOME MAPPING

	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	2	2
CO2	1	2	2	1	3
CO3	3	1	3	1	3
CO4	2	3	3	2	2
CO5	1	3	3	1	3

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code & subject Title: 22UBCAS46 & INTERNET OF THINGS

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1) Analyze various protocols for IoT
2) Develop web services to access/control IoT devices.
3) Design a portable IoT using Rasperry Pi
4) Deploy an IoT application and connect to the cloud.
5) Analyze applications of IoT in real time scenario.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	2	1
CO2	2	2	3	3	2
CO3	3	3	3	3	3
CO4	3	3	3	3	2
CO5	3	1	2	2	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: 22UBCAC51 and RDBMS

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. 1.Describe the database architecture and the ER diagram for real world applications.
2. Knowledge about the relational algebra and calculus.
3. Knowledge about the normalization forms.
4. Explain the storage and accessing of data.
5. Programming skills in SQL and PL/SQL.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5

CO					
CO1	3	3	2	3	3
CO2	3	3	1	3	3
CO3	3	1	3	1	3
CO4	2	2	1	2	2
CO5	2	1	3	1	3

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code and Title: 22UBCAC52: OPERATING SYSTEM

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge in basics of OS.
2. Knowledge pertaining about scheduling algorithms and deadlock.
3. Knowledge in memory management.
4. Explore in file concepts.
5. Knowledge in UNIX OS.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	2	3	3	3	3
CO3	2	3	3	3	2
CO4	3	1	2	2	2
CO5	2	3	3	3	2

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code and Title: 22UBCAC53: SOFTWARE ENGINEERING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge pertaining about process models.
2. Knowledge in requirements functionalities.

3. Knowledge pertaining in various analysis models.
4. Knowledge to test software.
5. Knowledge pertaining in quality and maintenance in project development.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	3	2
CO2	2	2	1	2	1
CO3	1	2	2	2	1
CO4	1	3	3	1	3
CO5	1	3	2	3	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: 22UBCAC54: MOBILE COMPUTING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge in wireless fundamental concepts.
2. Knowledge in telecommunication protocols.
3. Knowledge pertaining in wireless devices.
4. Capability to understand network layer functionalities.
5. Knowledge in TCP and WAP.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	1	2	2	2	1
CO2	1	3	3	1	3
CO3	1	3	2	3	1
CO4	2	2	1	2	1
CO5	2	3	3	3	2

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: 22UBCAE58-1: OBJECT ORIENTED ANALYSIS & DESIGN

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge in object model.
2. Knowledge in UML concepts.
3. Knowledge pertaining in various behavioral modeling.
4. Knowledge in class, objects and implementation.
5. Knowledge in structural diagrams.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	2
CO2	3	3	2	3	2
CO3	1	2	2	2	1
CO4	1	3	3	1	3
CO5	1	3	2	3	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: 22UBCAE58-1: 22UBCAE58-2: CRYPTOGRAPHY

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge in security concepts.
2. Explore knowledge in chipper and Data Encryption Standard.
3. Pertaining Knowledge in Public Key Cryptosystems and RSA.
4. Knowledge in hash algorithms.
5. Knowledge in Security concepts and protocols.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	2	2	2

CO/PO				
CO2	2	3	3	3	2
CO3	2	3	3	3	2
CO4	3	3	2	3	2
CO5	2	2	1	2	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: 22UBCAE58-3: NETWORK SECURITY

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Knowledge in security principles and policy.
2. Explore knowledge in Access controls and malicious software.
3. Pertaining Knowledge in Security infrastructure.
4. Knowledge in IDS.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	3	2
CO2	2	2	1	2	1
CO3	2	3	3	3	2
CO4	3	1	2	2	2
CO5	2	3	3	3	2

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: DATA COMMUNICATION NETWORKS

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Explore knowledge in network architecture
2. Inhibit knowledge in Wireless protocols.
3. Explore functions of network layer.
4. Explore various protocols in transport layer.

5. Explore knowledge in DNS and network security.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	3	3	3	3
CO2	2	3	3	3	2
CO3	3	1	2	2	2
CO4	3	3	2	3	2
CO5	2	2	1	2	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: PHP PROGRAMMING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the PHP fundamentals and problem solving
2. Understand the basic concepts of web page creations.
3. Describe the reason why different tags are used in PHP programs.
4. Demonstrate the concepts of Session and Cookies.
5. Develop the PHP program using AJAX server.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	3	3	2
CO2	3	1	3	3	2
CO3	2	2	2	3	2
CO4	3	3	1	2	1
CO5	3	3	1	3	3

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code and Title: ASP.NET

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the .NET fundamentals and its structures.
2. Understand the basic concepts of Form creations.
3. Describe the reason why database connections are used in .NET programs.
4. Demonstrate the concepts of Databases and grid controls.
5. Develop the .NET program using XML and web services.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	2	2	3	2
CO2	3	3	1	2	1
CO3	3	3	1	3	3
CO4	3	1	3	3	2
CO5	1	3	2	3	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: CLOUD COMPUTING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the cloud fundamentals and its architectures.
2. Understand the basic concepts of cloud types and its services.
3. Describe the reason why the usage of cloud and its security.
4. Demonstrate the concepts of MapReduce, Hadoop and google services.
5. Develop the Cloud applications using Google services.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5

CO/PO				
CO1	1	3	3	1	3
CO2	1	3	2	3	1
CO3	3	1	2	2	1
CO4	3	1	3	3	2
CO5	3	1	3	3	2

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: DATA MINING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the data fundamentals and its mining technologies.
2. Understand the basic concepts of data warehouse and its methods.
3. Describe the patterns and its techniques, classification methods.
4. Demonstrate the concepts of Clustering and outlier approaches.
5. Develop the recent trends and its Tools.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	3	3	2
CO2	3	1	3	3	2
CO3	1	3	3	1	3
CO4	1	3	2	3	1
CO5	3	1	2	2	1

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: DIGITAL IMAGE PROCESSING

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the fundamentals of images.
2. Understand the basic concepts of image enhancements.

3. Describe the concepts of image restoration and segmentation.
4. Demonstrate the concepts of Wavelets and compression methods.
5. Develop the pattern recognition and fuzzy systems.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	2	2	1
CO2	3	1	3	3	2
CO3	2	2	2	3	2
CO4	3	3	1	2	1
CO5	3	3	1	3	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: INFORMATION SECURITY

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the fundamentals of security and its components.
2. Understand the basic concepts of Laws and ethics.
3. Describe the concepts of risk management and its strategy
4. Demonstrate the concepts of firewalls and its tools.
5. Develop the cryptographic algorithms and hacking methods.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	2	2	3	2
CO2	3	3	1	2	1
CO3	3	3	1	3	3
CO4	3	1	3	3	2
CO5	3	1	3	3	2

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)

Subject Code and Title: SOFTWARE PROJECT MANAGEMENT

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the fundamentals of project and its life cycle.
2. Understand the basic concepts of project planning and structures.
3. Describe the project task , activities and models
4. Demonstrate the project activities and scheduling.
5. Develop the quality guidelines and configuration principles.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	2	2	1
CO2	3	1	2	2	2
CO3	3	3	1	3	2
CO4	3	3	3	1	1
CO5	3	1	2	2	2

1 – Low, 2 – Moderate, 3 – High (Preferably use 2 or 3 levels)

Subject Code and Title: BIG DATA ANALYTICS

COURSE OUTCOMES

After completing the Course successfully, the student will be able to

1. Learn about the PHP fundamentals of Big Data.
2. Understand the basic concepts of Streams.
3. Describe the big data perspective and its importance.
4. Demonstrate the concepts of Hadoop and MapReduce
5. Develop the Framework using Pig and Hive.

OUTCOME MAPPING

CO/PO	PO1	PO2	PO3	PO4	PO5
CO1	2	2	2	3	2
CO2	3	3	1	2	1
CO3	3	1	2	2	1
CO4	3	1	3	3	2
CO5	1	3	3	1	3

1 – LOW, 2 – MODERATE, 3 – HIGH (PREFERABLY USE 2 OR 3 LEVELS)