



# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.  
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE YEAR AND SEMESTER (II-I)

### SUBJECT: DISCRETE MATHEMATICS – AIDC201

After going through this course the student got a thorough knowledge on

CO. No	COURSE OUTCOMES	BT Level
AIDC201.1	Ability to understand and construct precise mathematical proofs.	1
AIDC201.2	Ability to use logic and set theory to formulate precise statements.	5
AIDC201.3	Ability to analyze and solve counting problems on finite and discrete structures.	4
AIDC201.4	Ability to describe and manipulate sequences.	4
AIDC201.5	Ability to apply graph theory in solving computing problems.	4

#### MAPPING:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC201.1	2	3	3	3	1	1	-	2	2	3	2	-	2	3	-
AIDC201.2	2	2	3	3	2	1	2	1	2	-	1	3	2	3	2
AIDC201.3	2	2	3	3	3	1	1	1	2	2	1	3	1	2	2
AIDC201.4	1	3	3	3	3	1	3	-	2	1	2	1	-	1	1
AIDC201.5	2	3	2	3	2	1	1	2	2	2	1	2	1	1	3
Average	1.8	2.6	2.8	3	2.2	1	1.4	1.2	2	1.4	1.4	1.8	1.2	2.2	1.6



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## SUBJECT: DATA STRUCTURES (AIDC202)

Upon completion of the course the students get an idea of:

CO. No	COURSE OUTCOME	BT LEVEL
AIDC202.1	Develop a program using linear data structures such as array and circular queue	3
AIDC202.2	Develop a program for basic operations of Stack and its applications	3
AIDC202.3	Construct a program using Non-linear data structures and their applications such as trees and graphs	3
AIDC202.4	Construct a program using linear data structures for Linked Lists	3
AIDC202.5	Ability to Implement searching and sorting algorithms	3

### MAPPING

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS01	PS02	PSO3
AIDC202.1	3	2	1	1	-	2	1	2	1	3	-	1	3	2	3
AIDC202.2	3	2	1	1	2	-	1	-	1	-	2	1	3	3	3
AIDC202.3	3	2	1	1	-	2	-	2	2	3	2	1	3	3	3
AIDC202.4	3	2	1	1	2	-	1	1	2	-	-	1	2	3	3
AIDC202.5	3	2	1	1	2	3	2	1	-	1	1	1	2	3	3
Avg.	3	2	1	1	1.2	1.4	1	1.2	1.2	1.4	1	1	2.6	2.8	3



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## SUBJECT: MSF AIDC203

CO. No.	COURSE OUTCOMES	BT Level
AIDC203.1	Apply the number theory concepts to cryptography domain	4
AIDC203.2	Apply the concepts of probability and distributions to some case studies	4
AIDC203.3	Correlate the material of one unit to the material in other units	3
AIDC203.4	Resolve the potential misconceptions and hazards in each topic of study.	3
AIDC203.5	Known about the logic families and realization of logic gates.	1

### Mapping Course Outcomes leading to the Achievement of the Program Outcomes

CO	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3
AIDC203.1	2	2	3	3	1	1	2	1	2	1	1	2	1	2	2
AIDC203.2	1	2	3	3	1	1	3	1	2	1	1	1	2	2	3
AIDC203.3	2	2	3	3	3	-	2	2	2	-	2	1	2	-	2
AIDC203.4	1	1	3	3	1	1		3	2	2	1	3	1	2	-
AIDC203.5	1	3	2	3	2	1	1	1	2	3	2	1	1	3	1
Average	1.4	2	2.8	3	1.6	0.8	1.6	1.6	2	1.4	1.4	1.6	1.4	1.8	1.6



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## Subject: Computer Organization & Architecture (AIDC204)

Upon completion of the course the students get an idea of:

CO. No.	COURSE OUTCOMES	BT Level
AIDC204.1	Understand the basics of instructions sets and their impact on processor design.	5
AIDC204.2	Demonstrate an understanding of the design of the functional units of a digital computer system	5
AIDC204.3	Evaluate cost performance and design trade-offs in designing and constructing a computer processor including memory	2
AIDC204.4	Design a pipeline for consistent execution of instructions with minimum hazards	1
AIDC204.5	Recognize and manipulate representations of numbers stored in digital computers	5

### Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC204.1	3	3	3	1	2	-	2	2	1	2	1	2	3	3	3
AIDC204.2	2	2	3	2	2	1	1	3	2	-	1	3	3	2	3
AIDC204.3	3	3	3	2	2	-	1	2	2	1	1	3	2	3	3
AIDC204.4	2	2	3	1	3	2	-	2	1	-	1	2	2	1	3
AIDC204.5	3	3	3	2	1	1	2	-	2	1	1	3	3	3	3
Average	2.6	2.6	3	1.6	2	0.5	1.2	1.8	1.6	0.8	1	2.6	2.6	2.4	3



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## SUBJECT: PYTHON PROGRAMMING (AIDC205)

Upon completion of the course the students get an idea of:

CO. No.	Course Outcomes	BT Levels
AIDC205.1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.	2
AIDC205.2	Demonstrate proficiency in handling Strings and File Systems.	2
AIDC205.3	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.	4
AIDC205.4	Interpret the concepts of Object-Oriented Programming as used in Python.	5
AIDC205.5	Implement exemplary applications related to Network programming, WebServices and Databases in Python.	6

### Mapping

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC205.1	3	2	2	2	1	1	1	1	2	1	2	1	2	2	3
AIDC205.2	2	3	2	2	1	1	1	1	2	1	2	1	2	2	3
AIDC205.3	3	2	2	2	2	2	1	1	3	1	3	1	2	3	3
AIDC205.4	3	2	2	2	2	2	1	1	1	1	3	1	3	3	3
AIDC205.5	3	2	1	2	2	2	1	1	1	1	1	1	3	3	3
Average	2.7	2.2	2	2	1.5	1.5	1	1	1.8	1	2.2	1	2.4	2.6	3



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## SUBJECT: BUSINESS ECONOMICS AND FINANCIAL ANALYSIS (AIDC205)

Upon completion of the course the students get an idea of:

CO. No.	Course Outcomes	BT Levels
AIDC205.1	The students will understand the various Forms of Business and the impact of economic variables on the Business.	2
AIDC205.2	Understand the elasticity of the demand of the product, different types, and measurement of elasticity of demand and factors influencing on elasticity of demand and supply	2
AIDC205.3	Recognize the Production function, features of Iso-Quants and Iso-Costs, Market Structure, Pricing aspects are learnt.	1
AIDC205.4	The Students can study the firm's financial position by analyzing the Financial Statements of a Company.	4
AIDC205.5	Evaluate different types of financial ratios knowing liquidity, solvency and profitability position of business.	5

### Mapping:

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC205.1	1	2	2	-	1	2	1	2	2	1	2	2	2	2	2
AIDC205.2	1	-	2	2	-	2	1	2	2	1	2	2	1	2	2
AIDC205.3	2	1	1	1	1	1	2	1	2	1	3	-	2	2	2
AIDC205.4	2	1	1	1	2	1	2	1	2	1	3	-	2	1	2
AIDC205.5	2	1	1	1	2	1	2	1	2	1	3	1	-	1	2
Avg.	1.6	1	1.4	1	1.2	1.4	1.6	1.4	2	1	2	1	1.4	1.6	2



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## SUBJECT: DATA STRUCTURES LAB(AIDC206)

Upon completion of the course the students get an idea of

CO. No	COURSE OUTCOME	BT LEVELS
AIDC206.1	Implement linear and non linear data structures using linked list.	1
AIDC206.2	Apply various data structures such as stack, queue and tree to solve the Problems	4
AIDC206.3	Implement various searching and sorting techniques	1
AIDC206.4	Analyze the complexity of the algorithms	3
AIDC206.5	Choose appropriate data structures while designing the applications	2

### MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC206.1	2	2	3	1	1	2	2	2	1	2	3	2	1	2	2
AIDC206.2	2	2	3	2	3	3	2	2	2	2	3	2	1	2	2
AIDC206.3	3	2	3	1	2	3	3	2	2	2	2	2	2	2	2
AIDC206.4	3	2	1	2	1	1	3	2	3	1	1	2	2	2	2
AIDC206.5	2	2	-	1	3	1	1	2	2	1	3	2	2	2	2
Average	2.4	2	2	1.4	2	2	2.2	2	3	1.6	2.4	2	1.6	2	2



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## SUBJECT: PYTHON PROGRAMMING LAB-AIDC208

After going through this course the student got a thorough knowledge on

CO. No.	COURSE OUTCOME	BT Level
AIDC208.1	Students will be able to describe the number, math functions, strings, list, tuples and dictionaries in python.	1
AIDC208.2	Students will be able to acquire the skills to apply different decision-making statements and functions in python.	3
AIDC208.3	Students will be able to interpret object-oriented programming in python.	5
AIDC208.4	Students will be able to develop skill to understand and summarize different file handling operations.	6
AIDC208.5	Students will be able to demonstrate the ability to design GUI applications in python and evaluate different database operations.	3

### CO, PO and PSO Mapping:

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC208.1	3	2	2	3	3	2	3	2	2	3	2	2	2	3	2
AIDC208.2	3	2	3	3	2	3	2	2	3	3	2	2	3	3	3
AIDC208.3	3	2	3	2	3	3	3	2	2	3	2	2	2	2	3
AIDC208.4	3	2	3	2	2	2	2	2	3	-	-	2	3	3	3
AIDC208.5	3	2	3	-	3	3	2	2	2	3	-	2	3	3	3
Average	3	2	2.8	2	2.6	2.6	2.4	2	2.4	2.4	1.2	2	2.6	2.8	2.8



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## SUBJECT: GENDER SENSITIZATION (AIDC209)

Upon completion of the course the students get an idea of:

CO. No.	Course Outcome	Bloom's level
AIDC209.1	Apply the concepts of probability and distributions to some case studies. Apply the concepts of discrete probability distributions.	3
AIDC209.2	Apply the concepts of continuous probability distributions.	3
AIDC209.3	Assess the sampling theory and making inferences.	5
AIDC209.4	Correlate the material of one unit to the material in other units.	2
AIDC209.5	Resolve the potential misconceptions and hazards in each topic of study.	1

### MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PSO3
AIDC209.1	3	2	3	-	3	1	-	1	1	-	-	2	2	1	3
AIDC209.2	3	2	2	2	-	-	2	-	2	1	-	2	2	2	3
AIDC209.3	3	2	3	1	2	2	-	2	-	2	3	-	1	2	3
AIDC209.4	3	2	2	-	1	-	1	1	1	2	1	1	2	2	3
AIDC209.5	3	2	3	3	1	1	3	1	1	-	3	-	1	1	3
<b>AVERAGE</b>	<b>3</b>	<b>2</b>	<b>2.5</b>	<b>1.2</b>	<b>1.4</b>	<b>0.8</b>	<b>1.2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1.4</b>	<b>1</b>	<b>1.6</b>	<b>1.6</b>	<b>3</b>



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## AIDS (2-2)

### Subject: Formal Languages and Automata Theory (AIDC210)

Upon completion of the course the students get an idea of:

CO. No.	Course Outcomes	BT Levels
AIDC210.1	Able to understand the concept of abstract machines and their power to recognize the languages.	5
AIDC210.2	Able to employ finite state machines for modeling and solving computing problems.	4
AIDC210.3	Able to design context free grammars for formal languages.	1
AIDC210.4	Able to distinguish between decidability and undecidability.	3
AIDC210.5	Able to gain proficiency with mathematical tools and formal methods.	4

### Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC210.1	3	3	2	1	2	2	2	1	1	2	1	3	3	3	3
AIDC210.2	-	3	1	2	1	1	2	2	2	-	1	2	3	2	3
AIDC210.3	2	2	1	2	2	-	1	1	2	1	1	2	3	2	3
AIDC210.4	1	2	2	2	2	2	-	2	1	-	1	2	2	1	3
AIDC210.5	2	2	2	2	2	1	2	1	2	1	1	3	2	3	3
Average	1.6	2.4	1.6	1.8	1.8	1.2	1.4	1.4	1.6	0.8	1	2.4	2.6	2.2	3



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## SUBJECT: SOFTWARE ENGINEERING (AIDC211)

Upon completion of the course the students get an idea of:

CO. No.	COURSE OUTCOMES	BT Level
AIDC211.1	Outline the framework activities for a given project.	1
AIDC211.2	Examine Right process model for a given project.	2
AIDC211.3	Analyze various system models for a given Context	3
AIDC211.4	Understand various testing techniques for a given project.	5
AIC211.5	Identify various risks in project development.	5

### MAPPING:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC211.1	3	3	3	1	2	3	2	2	1	2	1	2	3	3	3
AIDC211.2	2	3	3	2	2	1	1	3	2	2	1	3	3	2	3
AIDC211.3	2	3	3	2	2	-	1	2	2	1	1	3	2	3	3
AIDC211.4	2	2	3	3	3	2	-	2	2	-	1	2	2	2	3
AIDC211.5	3	3	3	2	2	1	2		2	1	1	3	3	3	3
Average	2.8	2.8	3	2	2.2	1.4	1.2	1.8	1.8	0.8	1.2	2.6	2.6	2.6	3



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## SUBJECT: OPERATING SYSTEM – AIDC212

After going through this course the student gets a thorough knowledge on

CO. No.	COURSE OUTCOMES	BT Level
AIDC212.1	Understand the concepts of OS, the basic principles used in the design of modern operating system and process.	2
AIDC212.2	Understand the concepts of threads and mechanisms for synchronization.	2
AIDC212.3	Understand the concepts related to deadlock and memory management.	2
AIDC212.4	Understand the concepts of virtual memory management, file system.	2
AIDC212.5	Understand the concepts of secondary storage structure, protection and case study of Linux operating system.	2

### CO, PO and PSO Mapping:

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC212.1	1	2	-	2	2	1	3	2	2	1	1	2	2	2	3
AIDC212.2	2	2	3	1	2	1	3	2	3	1	2	2	3	2	1
AIDC212.3	2	1	2	3	2	3	3	2	2	2	1	2	2	2	1
AIDC212.4	2	2	2	2	1	2	3	2	3	2	2	2	1	2	2
AIDC212.5	1	1	2	2	1	2	2	1	2	2	3	2	1	2	3
<b>Average</b>	<b>1.6</b>	<b>1.6</b>	<b>2.25</b>	<b>2</b>	<b>1.6</b>	<b>1.8</b>	<b>2.8</b>	<b>1.8</b>	<b>2.4</b>	<b>1.6</b>	<b>1.8</b>	<b>2</b>	<b>1.8</b>	<b>2</b>	<b>2</b>



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## SUBJECT: DATABASE MANAGEMENT SYSTEM-AIDC213

After going through this course the student got a thorough knowledge on

CO. No.	Course Outcomes	BT Levels
AIDC213.1	Understand data models to design a database	2
AIDC213.2	Illustrate the conceptual design for Large enterprises	2
AIDC213.3	Formulate SQL queries and integrity constraints over relations	6
AIDC213.4	Apply normalization on database for eliminating redundancy	3
AIDC213.5	Understand transaction properties, concurrency control and recovery techniques and Explain various data storage and security mechanisms	2

### CO, PO and PSO Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIC213.1	3	2	2	3	3	1	2	1	3	2	3	2	3	3	1
AIC213.2	3	2	3	2	2	2		2	1	2	3	2	1	3	1
AIC213.3	3	2	2	1	2	2	3	1	1	2	2	2	1	3	1
AIC213.4	3	2	3	1	3	1	3	2	3	2	1	3	2	2	1
AIC213.5	3	2	2	3	3			1	3	2	3	2	3	2	1
Average	3	2	2.4	2	2.6	1.2	1.6	1.4	2.2	2	2.4	2.2	2	2.6	1



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## SUBJECT: JAVA PROGRAMMING - (AIDC214)

After going through this course the student gets a thorough knowledge on

CO. No.	COURSE OUTCOMES	Bloom Level
AIDC214.1	Able to solve real world problems using OOP techniques	3
AIDC214.2	Able to understand the use of abstract classes.	2
AIDC214.3	Able to solve problems using java collection framework and I/o classes	3
AIDC214.4	Able to develop multithreaded applications with synchronization.	5
AIDC214.5	Able to develop applets for web applications, Able to design GUI based applications	5

### CO, PO and PSO Mapping:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC214.1	3	2	2	2	2	1	1	1	2	2	2	3	1	1	1
AIDC214.2	2	3	2	2	2	2	1	2	2	2	1	3	2	2	2
AIDC214.3	3	3	2	2	3	2	1	2	2	2	3	3	2	2	2
AIDC214.4	3	3	2	2	3	2	1	2	3	2	2	2	2	3	2
AIDC214.5	2	3	2	2	2	1	1	1	2	2	2	3	1	1	1
Average	2.6	2.8	2	2	2.4	1.6	1	1.6	2.2	2	2	2.8	1.6	1.8	1.6



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## SUBJECT: OPERATING SYSTEM LAB – AIDC215

After going through this course the student got a thorough knowledge on

CO. No.	COURSE OUTCOME	BT LEVEL
AIDC215.1	Implement the basic command of OS and will execute the various system calls.	3
AIDC215.2	Implement the process synchronization problem using semaphore.	3
AIDC215.3	Implement CPU scheduling algorithm for process scheduling and deadlock management techniques.	3
AIDC215.4	Implement memory management techniques.	3
AIDC215.5	Implement file storage allocation techniques.	3

### CO, PO and PSO Mapping:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC215.1	2	3	3	3	2	2	2	2	1	2	2	3	3	2	3
AIDC215.2	2	2	2	2	2	2	2	2	2	2	1	3	3	2	3
AIDC215.3	2	3	3	3	2	1	1	1	1	2	1	3	3	2	3
AIDC215.4	2	1	2	3	2	3	3	2	2	1	2	3	3	2	3
AIDC215.5	2	2	2	3	2	3	3	2	1	1	2	3	3	2	3
Average	2	2.2	2.4	2.8	2	2.2	2.2	1.8	1.4	1.6	1.6	3	3	2	3



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## SUBJECT: DATABASE MANAGEMENT SYSTEMS LAB-AIDC216

After going through this course the student got a thorough knowledge on

CO. No.	COURSE OUTCOME	BT Levels
AIDC216.1	Illustrate the basic DDL commands	2
AIDC216.2	Illustrate DCL and DML commands.	2
AIDC216.3	Demonstrate SQL queries using SQL operators.	5
AIDC216.4	Explain the concept of relational algebra.	1
AIDC216.5	Implement various queries using date and group functions and elaborate nested queries. Construct views, cursor and triggers.	5

### CO, PO and PSO Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC216.1	3	2	2	2	1	1	2	3	2	1	2	3	3	2	3
AIDC216.2	3	3	3	2	3	2	1	3	2	2	-	2	3	2	3
AIDC216.3	3	3	2	1	3	2	2	2	1	2	2	1	2	2	3
AIDC216.4	3	3	3	2	3	2	1	2	1	1	2	2	2	2	3
AIDC216.5	3	3	3	1	3	1	1	2	-	-	1	1	2	2	3
AVG	3	2.8	2.6	1.6	2.6	1.6	1.4	2.4	1.2	1.2	1.4	1.8	2.4	2	3



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## SUBJECT:JAVA PROGRAMMING LAB-AIDC216

After going through this course the student got a thorough knowledge on

CO. No.	COURSE OUTCOME	BT Level
AIDC216.1	Able to write programs for solving real world problems using java collection frame work.	2
AIDC216.2	Able to write programs using abstract classes.	3
AIDC216.3	Develop Simple Java Programs using inheritance and Exception Handling.	3
AIDC216.4	Develop Multi-threading Programming and Interfaces.	6
AIDC216.5	Develop GUI applications using Applet classes, Swing components and Event handling programs.	6

### CO, PO and PSO Mapping:

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AIDC216.1	3	2	2	2	2	2	1	2	1	3	-	3	2	3	2
AIDC216.2	3	2	2	2	3	2	3	2	2	3	2	3	3	3	3
AIDC216.3	3	3	2	2	2	3	3	2	2	2	2	3	2	3	3
AIDC216.4	2	3	3	1	3	2	2	2	3	1	1	3	3	3	3
AIDC216.5	2	3	3	2	3	-	-	2	2	2	2	3	3	3	3
Average	2.6	2.6	2.4	1.8	2.6	1.8	1.8	2	2	2.2	1.4	3	2.6	3	2.8