



Continuous Assessment for Laboratory / Assignment sessions

Academic Year 2023-24

Name: Aray Shah

SAP ID: 60004210073

Course: Big Data Infrastructure Laboratory

Course Code: **DJ19CEEL6011**

Year: T.Y. B. Tech.

Sem: VI

Batch: G12

Department: Computer Engineering

Performance Indicators (Any no. of Indicators) (Maximum 5 marks per indicator)	EXP. 1	EXP. 2	EXP. 3	EXP. 4	EXP. 5	EXP. 6	EXP. 7	EXP. 8	EXP. 9	EXP. 10	Σ	Avg	A 1	A 2	Σ	Avg
Course Outcome	1	2	2	2	3	3	4	4	5	6			1, 2, 3	4, 5, 6		
1. Knowledge (Factual/Conceptual/Procedural/ Metacognitive)	5	4	5	5	5	5	5	5	5	4			5	5		
2. Describe (Factual/Conceptual/Procedural/ Metacognitive)	4	5	5	5	5	5	5	5	5	5			5	5		
3. Demonstration (Factual/Conceptual/Procedural/ Metacognitive)	5	5	4	5	5	5	5	5	5	5			5	5		
4. Strategy (Analyse & / or Evaluate) (Factual/Conceptual/ Procedural/Metacognitive)	5	5	5	5	5	5	5	5	5	5			5	5		
5. Interpret/ Develop (Factual/Conceptual/ Procedural/Metacognitive)	-	-	-	-	-	-	-	-	-	-			-	-		
6. Attitude towards learning (receiving, attending, responding, valuing, organizing, characterization by value)	5	5	5	5	5	4	5	5	4	5			5	5		
7. Non-verbal communication skills/ Behaviour or Behavioural skills (motor skills, hand-eye coordination, gross body movements, finely coordinated body movements speech behaviours)	-	-	-	-	-	-	-	-	-	-			-	-		
Total	24	24	24	25	25	24	25	25	24	24			25	25		
Signature of the faculty member	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>	<i>Am</i>			<i>Am</i>	<i>Am</i>		

Outstanding (5), Excellent (4), Good (3), Fair (2), Needs Improvement (1)

Laboratory marks Σ Avg. = <u>24</u>	Assignment marks Σ Avg. = <u>25</u>	Total Term-work (25) =
Laboratory Scaled to (15) = <u>15</u>	Assignment Scaled to (10) = <u>5</u>	Sign of the Student: <i>Aray Shah</i>

Signature of the Faculty member:

Name of the Faculty member:

Am

Signature of Head of the Department

Date:



Bloom's (Revised) Taxonomy

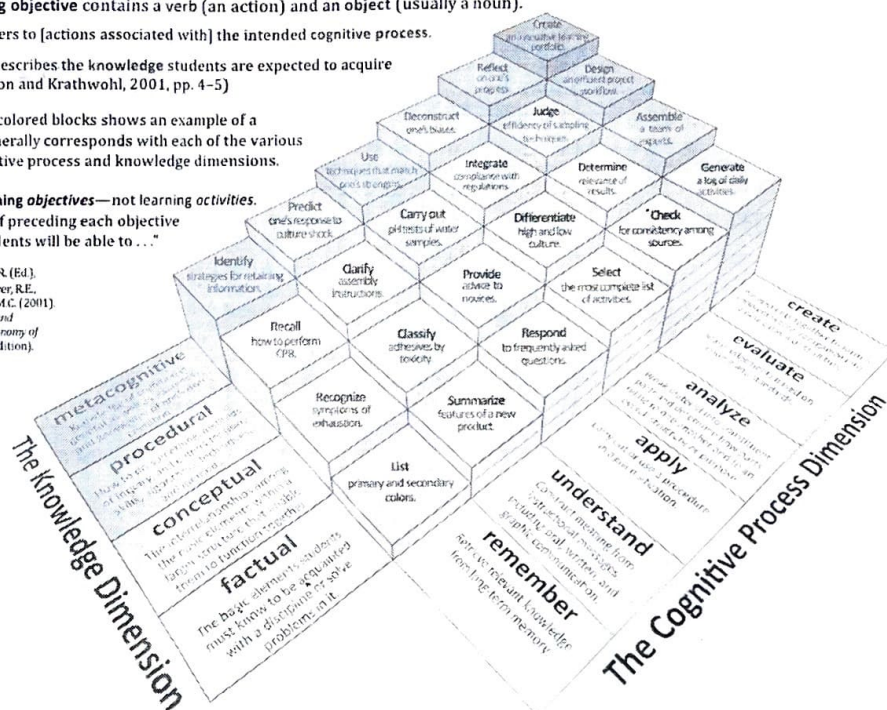
A statement of a **learning objective** contains a verb (an action) and an object (usually a noun).

- The verb generally refers to [actions associated with] the intended cognitive process.
- The object generally describes the knowledge students are expected to acquire or construct. (Anderson and Krathwohl, 2001, pp. 4-5)

In this model, each of the colored blocks shows an example of a learning objective that generally corresponds with each of the various combinations of the cognitive process and knowledge dimensions.

Remember: these are **learning objectives**—not learning activities. It may be useful to think of preceding each objective with something like: "Students will be able to..."

*Anderson, L.W. (Ed.), Krathwohl, D.R. (Ed.),
 Airasian, P.W., Cruikshank, K.A., Mayer, R.E.,
 Pintrich, P.R., Raths, J., & Wittrock, M.C. (2001).
A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives (Complete edition).
 New York: Longman.



Source: *Anderson, L.W. (Ed.), Krathwohl, D.R. (Ed.), Airasian, P.W., Cruikshank, K.A., Mayer, R.E., Pintrich, P.R., Raths, J., & Wittrock, M.C. (2001). *A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives* (Complete edition). New York: Longman.

Course: Big Data Infrastructure Laboratory

Code	Course Outcome	Bloom's Level
DJ19CEEL6011.1	Describe big data and use cases from selected business domains	Understand
DJ19CEEL6011.2	Perform map-reduce analytics using Hadoop.	Understand, Apply
DJ19CEEL6011.3	Use Hadoop related tools such as HBase, Cassandra, Pig, and Hive for big data Analytics.	Understand, Apply
DJ19CEEL6011.4	Build and maintain reliable, scalable, distributed systems using Apache Spark.	Create, Evaluate
DJ19CEEL6011.5	Design and build MongoDB based Big data Applications and learn MongoDB query language.	Apply
DJ19CEEL6011.6	Use streaming tools for real time analysis of big data.	Analyze



List of Experiments

Sr. No.	Title	C O
1	Big Data Case Study with Hadoop Ecosystem.	1
2	Installation of Hadoop on a single node cluster.	2
3	Execution of HDFS Commands.	2
4	Implementation of Map Reduce program to count words in a text file.	2
5	Execute HIVE commands to load, insert, retrieve, update, or delete data in the tables.	3
6	Execute HBASE commands to perform basic CRUD operations and joins.	3
7	To create RDD, perform various operations and find occurrence of each word.	4
8	To create SparkQL and execute various SQL commands.	4
9	Perform CRUD Operations using MongoDB.	5
10	Perform Twitter Sentiment analysis using Spark Streaming.	6