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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session: 2024-25**	**Semester: VI**
Course name: Data Analytics	**Course Code: BIT 601**	**Faculty Name: Dr. Sudhir Kumar Sharma**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Discuss various concepts of data analytics pipeline.	Understand	Factual, Conceptual, Procedural
CO2	Apply classification and regression techniques.	Apply	Conceptual, Procedural,
CO3	Apply mining techniques on streaming data.	Apply	Conceptual, Procedural
CO4	Compare different clustering and frequent pattern mining algorithms.	Apply	Conceptual, Procedural,
CO5	Analyze the concept of data analytics using various tools.	Analyze	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Data Analytics (KIT601)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	2	2	1	-	-	-	-	-	-	-	-	1	-	-
CO2	2	3	3	2	2	-	-	-	-	-	1	1	2	-
CO3	2	2	3	2	3	-	-	-	-	-	1	1	1	-
CO4	2	3	2	3	2	-	-	-	-	-	-	1	1	-
CO5	2	3	3	3	2	-	-	-	2	-	1	1	2	-
PO Target	**2**	**2.6**	**2.4**	**2.5**	**2.25**				**2**		**1**	**1**	**1.5**	

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session: 2024-25**	**Semester: VI**
Course Name: Software Engineering	**Course Code: BCS-601**	**Faculty Name: Mr. chandan kumar**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO-1	**Explain** various software characteristics and different types of software development models.	**K2**	Conceptual
CO-2	**Prepare** the contents of SRS and apply basic software quality assurance practices.	**K3**	Procedural
CO-3	**Compare** various methods for software design.	**K3**	Procedural
CO-4	**Illustrate** various software testing techniques.	**K3**	Procedural
CO-5	**Analyze** various software maintenance and project management techniques.	**K4**	Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Software Engineering (BCS-601)

KCS-601	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	1	1	1	2		1				1	1	2	3	1
CO-2	1	2	1	1		1		2	1	2	1	2	3	1
CO-3	2	2	2	2	2	1				2	1	2	3	1

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CO-4	2	2	2	2	2	1		1	1	1	1	2	3	1
CO-5	2	2	2	2		1				1	1	1	3	1
PO Target	**1.6**	**1.8**	**1.6**	**1.8**	**2**	**1**	**0**	**1.5**	**1**	**1.4**	**1**	**1.8**	**3**	**1**

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session:2024-25**	**Semester: 6th**
Course Name: COMPUTER NETWORK	**Course Code: BCS603**	**Faculty Name: Ms. Himika Verma**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the concept of data transmission and the structure of networks.	Understand	C,P
CO2	Analyse various link layer protocols.	Analyze	F,C,P
CO3	Apply the concept of routing and IP addressing in network Layer.	Apply	C,P,M
CO4	Study of transport layer, session layer and presentation layer of OSI model and its functionalities.	Analyze	F,C,P
CO5	Evaluate the role of application layer protocols and its services.	Evaluate	C,P,M

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Subject Name & Subject Code

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	2	-	-	-	-	-	-	-	-	-	-	2	1	-
CO2	2	2	1	-	-	-	-	-	-	-	-	2	1	-
CO3	3	3	2	1	-	-	-	-	-	-	-	2	2	-
CO4	3	-	-	-	-	-	-	-	-	-	-	2	1	-
CO5	2	1	2	2	2	2	-	-	-	-	-	2	1	-
PO Target	**2.4**	**2**	**1.67**	**1.50**	**2**	**2**	-	-	-	-	-	**2**	**1.2**	-

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Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session:2024-25**	**Semester: 6th**
Course Name: ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE	**Course Code: BNC602**	**Faculty Name: Abhishek Tyagi**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the roots of Society State and Polity in India.	Understand	Factual, Conceptual
CO2	Discuss the importance of Indian Literature and Culture Practices.	Understand	Factual, Conceptual
CO3	Correlate the Indian Religion and Philosophy.	Analyze	Factual, Conceptual
CO4	Understand the Science, Management and Indian Knowledge System.	Understand	Factual, Conceptual
CO5	Discuss the Indian ancient culture heritage and its contribution to the World.	Understand	Factual, Conceptual

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Mapping of Course outcomes with Program outcomes CO-POs Matrix														
Subject Name & Subject Code														
Course Code	**PO-1**	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	**PSO-1**	**PSO-2**
CO1	-	-	-	-	-	1	-	2	-	1	-	2	-	-
CO2	-	-	-	-	-	1	-	2	-	1	-	2	-	-
CO3	-	-	-	-	-	-	-	-	2	1	-	2	-	-
CO4	-	-	-	-	-	2	2	-	-	1	-	2	-	-
CO5	-	-	-	-	-	1	-	-	2	1	-	2	-	-
PO Target	-	-	-	-	-	**1.25**	**2**	**2**	**2**	**1**	-	**2**	-	-

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session:2024-25**	**Semester: 6th**
Course Name: Software Project Management	**Course Code: BOE-068**	**Faculty Name: Ms. Shivangi Tyagi**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Exercise the project planning activities and the key phases of project management.	Understand	Conceptual
CO2	Apply different software process models and cost estimation models.	Apply	Conceptual
CO3	Examine various project activities to compute critical path for risk analysis.	Analyze	Procedural
CO4	Monitor and Control project activities.	Analyze	Procedural
CO5	Adapt professional practices in staff selection and team building for successful software management.	Apply	Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Subject Name & Subject Code														
Course Code	**PO-1**	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	**PSO-1**	**PSO-2**

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CO1	2	-	2	-	-	-	-	-	1	1	2	1	2	
CO2	2	2	2	2	2	2	-	-	2	-	3	2	2	
CO3	3	3	2	3	2	2	-	-	2	-	2	2	2	
CO4	3	3	2	2	2	2	-	-	2	-	2	2	2	
CO5	1	1	1	-	-	-	1	-	3	2	2	2	2	
PO Target	2.20	2.25	1.80	2.30	2.00	2.00	1.00	-	2.00	1.50	2.20	1.80	2.00	

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session: 2024-25**	**Semester: VI**
Course Name: Blockchain Architecture Design	**Course Code: BCS-063**	**Faculty Name: Ms. Shrankhla Saxena**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO-1	Apply the Blockchain architecture along with its primitive.	**K3**	Factual, Conceptual
CO-2	Apply consensus of blockchain along with scalability aspects.	**K3**	Conceptual, Procedural,
CO-3	Design the Hyperledger framework.	**K4**	Conceptual, Procedural
CO-4	Apply Blockchain techniques for Finance and Trade/Supply use cases.	**K3**	Conceptual, Procedural,
CO-5	Apply Blockchain techniques for use cases of Government activities.	**K3**	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Blockchain Architecture Design (BCS-063)

BCS-063	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	2	2		1		1	1					1	-	-
CO-2	1	2		1		1	1					2	-	-
CO-3	1	2		1	2	1	1					1	1	2
CO-4	1	2	1	1	1	3	2	2				2	1	2
CO-5	1	2	1	1	1	3	2	2				3	1	2
PO Target	**1.2**	**2**	**1**	**1**	**1.33**	**1.8**	**1.4**	**2**				**1.8**	**1**	**2**

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

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Program Name: B.Tech	**Academic Session:2024-25**	**Semester: VI**
Course Name: Data Analytics Lab	**Course Code:** BIT 651	**Faculty Name:** Ms. Ashima Arya

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Apply statistical techniques on various data sources	Apply	Procedural
CO2	Apply data preprocessing and dimensionality reduction methods on raw data	Apply	Procedural
CO3	Execution of different algorithms on different data set for prediction.	Apply	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Subject Name & Subject Code

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	2	2	2	-	2							1		
CO2	3	3	3	2	3				1			1	3	
CO3	3	3	3	2	2							1	2	
PO Target	**2.66**	**2.66**	**2.66**	**2**	**2.33**				**1**			**1**	**2.5**	

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Department for Computer Science and Information Technology

Program Name: B. Tech	Academic Session:2024-25	Semester: 6th
Course Name: COMPUTER NETWORK LAB	Course Code: BCS653	Faculty Name: Ms. Himika Verma

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Configure and manage network devices and protocols.	**Apply**	C, P
CO2	Apply network design principles to configure and create efficient and secure network architectures.	**Apply**	C, P
CO3	Gain proficiency in network simulation and configuration using appropriate tools and techniques.	**Apply**	C, P

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Course Name (Course Code)														
Course Code	**PO -1**	**PO -2**	**PO -3**	**PO -4**	**PO -5**	**PO -6**	**PO -7**	**PO -8**	**PO -9**	**PO -10**	**PO-11**	**PO -12**	**PSO-1**	**PSO-2**
CO1	3	-	-	-	2	-	-	-	2	-	-	2	3	-
CO2	3	2	3	2	2	-	-	-	2	-	-	2	3	-
CO3	3	3	3	-	3	-	-	-	2	-	-	2	3	-
PO Target	3	**1.67**	**2**	**0.67**	**2.33**	-	-	-	**2**	-	-	**2**	**3**	-

Signature of Course Coordinator **Signature of Addl. HoD**

Signature of Dean

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Program Name: B.Tech	**Academic Session: 2024-25**	**Semester: VI**
Course Name: Software Engineering Lab	**Course Code: BCS-651**	**Faculty Name: Dr. Rohit Vashisht**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO-1	**Discover** ambiguities, inconsistencies and incompleteness in SRS document and to identify its functional and non-functional requirements.	**K3**	Procedural
CO-2	**Demonstrate** Use Case diagrams, class diagram and other UML diagram through a problem statement.	**K3**	Procedural
CO-3	**Articulate** the use of modern engineering tools for software design and testing.	**K3**	Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Software Engineering Lab (BCS-651)

KCS-651	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	2	2	1	2				1	1	2	1		3	
CO-2	1	2	2	2	2				1	2	1		3	
CO-3	2	2	2	3	2				1	1	1		3	
PO Target	**1.67**	**2**	**1.67**	**2.34**	**2**	**0**	**0**	**1**	**1**	**2**	**1**	**0**	**3**	**0**

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Program Name: B. Tech	**Academic Session: 2024-25**	**Semester: VIII**
Course name: Quality Management	**Course Code: KOE085**	**Faculty Name: Mr. Sachin Kumar Rai**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO 1	Describe the concepts of quality management system in order to managing a product quality.	Understand	Conceptual
CO 2	Explain the effective organizational structure and the methods of managing the economic and the human aspects in controlling the quality of a product.	Understand	Conceptual
CO 3	Demonstrate the application of Statistical Quality Control techniques in managing a product quality proactively.	Apply	Conceptual, Procedural
CO 4	Analyze the various techniques for the evaluation and the improvement of reliability and maintainability as well as the motivational techniques (zero defects, quality circles) for the adaptability of a new quality control system.	Analyze	Conceptual, Procedural
CO 5	Describe the ISO 9000 Series, Taguchi method and JIT in improving a product quality.	Understand	Conceptual, Procedural

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	2	1	-	-	1	-	-	-	-	-	2	1	1	-
CO2	2	1	-	-	1	-	-	-	-	-	2	1	-	-
CO3	2	2	-	-	1	-	-	-	-	-	2	1	2	-
CO4	2	2	-	-	1	-	-	-	-	-	2	1	2	-
CO5	2	2	-	-	1	-	-	-	-	-	1	1	1	-
PO Target	**3**	**1.6**	**-**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**1.8**	**1**	**1.5**	**-**

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session:2024-25**	**Semester: 8th**
Course Name: DIGITAL AND SOCIAL MEDIA MARKETING	**Course Code: KOE-094**	**Faculty Name: Ms. Latika Sharma** **Mr. Satyam Shivam Sundaram**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the role of Digital Marketing and its strategy.	2	C
CO2	Discuss various social media platforms and the concept of blogging.	2	C
CO3	Compare the best practices in digital marketing field across various markets and gain knowledge of various digital marketing tool.	2	C, P
CO4	Predict different types of Digital marketing Strategies for an organization.	4	C, P
CO5	Analyze the privacy, security, content and ethicality issues associated with digital and social media platforms.	5	C, P

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Mapping of Course outcomes with Program outcomes CO-POs Matrix														
Subject Name & Subject Code														
Course Code	**PO-1**	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	**PSO-1**	**PSO-2**
CO1	-	-	-	-	-	2	-	-	-	-	-	1	1	-
CO2	-	-	-	-	-	1	-	-	1	2	-	1	-	-
CO3	-	-	-	-	2	1	-	-	2	2	-	1	1	-
CO4	-	-	-	-	2	2	-	-	2	2	-	1	1	-
CO5	-	-	-	-	-	2	-	-	1	2	-	1	-	-
PO Target														

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The strength of correlation between COs and POs/ PSOs/APOs should be represented as 1 (low correlation), 2 (medium correlation) and 3 (high correlation) in CO - PO/APO/PSO Matrix.
- If there is no correlation, then put a "-" (dash).

NIRF-2024
Engineering Rank Band (151-200)
Pharmacy Rank - 77
Innovation Rank Band (11-50)

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Department for Computer Science and Information Technology

Program Name: B.Tech	**Academic Session:2024-25**	**Semester: VIII**
Course Name: PME	**Course Code: KHU802**	**Faculty Name: Prince Gupta**

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	**Understand** the theories of entrepreneurship and entrepreneurial development programmes.	Understand	K2
CO2	**Explain** innovative business ideas and market opportunities for business development.	Understand	K2
CO3	**Discuss** the importance of project life cycle and different types of appraisal techniques.	Understand	K2
CO4	**Predict** different types of project financing requirements on the basis of cash flow statements.	Apply	K3
CO5	**Describe** social entrepreneurship opportunities and risk management techniques in social enterprises.	Understand	K2

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Mapping of Course outcomes with Program outcomes CO-POs Matrix														
Subject Name & Subject Code														
Course Code	**PO-1**	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	**PSO-1**	**PSO-2**
CO1						1			2		3			
CO2						1			3		3		1	
CO3						2	1		3	1	3	1		
CO4						1			3	2	3	1		
CO5						3	2		2		3	1	2	
PO Target						**1.6**	**1.5**		**2.6**	**1.5**	**3**	**1**	**1.5**	

Signature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The strength of correlation between COs and POs/ PSOs/APOs should be represented as 1 (low correlation), 2 (medium correlation) and 3 (high correlation) in CO - PO/APO/PSO Matrix.
- If there is no correlation, then put a "-" (dash).

Department for Computer Science and Information Technology

Program Name: B. Tech	**Academic Session:2024-25**	**Semester: 8th**
Course Name: Project	**Course Code: KIT -851**	**Faculty Name: Ms. Ashima Arya**

STagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Summarize the problem statement based on a review of the existing literature.	**Understanding**	C
CO2	Analyse experimental results using various tools, techniques, and coding practices.	**Analyze**	P
CO3	Conclude the results of the project.	**Analyze**	C, P
CO4	Write a quality research paper.	**Understanding**	P
CO5	Communicate the findings with the research community.	**Evaluate**	C,P
CO6	Create a comprehensive project report.	**Create**	C,P

Mapping of Course outcomes with Program outcomes CO-POs Matrix

PROJECT(KIT-851)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	3	2	1	1	1	1	1	1	3	2	1	3	1	-
CO2	1	2	2	1	3	1	-	1	3	2	1	3	2	1
CO3	1	2	3	2	2	-	-	-	3	2	1	3	1	2
CO4	1	3	2	2	1	-	-	2	3	2	1	3	1	-
CO5	1	1	1	2	1	-	-	2	3	2	1	3	1	-
CO6	1	2	1	2	1	-	-	2	3	2	1	3	-	2
PO Target	**1.3**	**2.0**	**1.6**	**1.6**	**1.5**	**1.0**	**1.0**	**1.6**	**3.0**	**2.0**	**1.0**	**3.0**	**1.2**	**1.6**

ignature of Course Coordinator **Signature of Addl. HoD** **Signature of Dean**

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.