

Course Outcome and CO-PO/PSO Mapping

(Session 2024-25)

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

KIET GROUP OF INSTITUTIONS GHAZIABAD

SEMESTER -III

SN	Subject Code	Subject	Туре	Category	Per	iods			ional onent	Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total SW+ESE	Credi Cr
					L	т	Р	ст	TA	CT+TA	TE/PE		
1	BOE3**/ BAS303	Science Based Open Elective/BSC (Maths- III/Math IV/ Math V)	Т	ES/BS	3	1	0	20	10	30	70	100	4
2	BVE301 / BAS301	Universal Human Value and Professional Ethics/ Technical Communication	Т	VA/HS	2	1	0	20	10	30	70	100	3
3	BCS301	Data Structure	Т	PC	3	1	0	20	10	30	70	100	4
4	BCS302	Computer Organization and Architecture	Т	PC	3	1	0	20	10	30	70	100	4
5	BCS303	Discrete Structures & Theory of Logic	Т	PC	2	1	0	20	10	30	70	100	3
6	BCS351	Data Structure Lab	Р	PC	0	0	2		50	50	50	100	1
7	BCS352	Computer Organization and Architecture Lab	Р	PC	0	0	2		50	50	50	100	1
8	BCS353	Web Designing Workshop	Р	PC	0	0	2		50	50	50	100	1
10	BCC301 / BCC302	Cyber Security/Python programming	Т	VA	2	0	0	20	10	30	70	100	2
11	BCC351	Internship Assessment /Mini Project*	Р							100		100	2
	1	Total			15	5	6						25

- Mathematics –III for CE / ENV and allied branches
- Mathematics-IV for Computer/Electronics/Electrical & allied Branches, Mechanical & Allied Branches
 Textile/Chemical & allied Branches
- Mathematics-V for Bio Technology / Agriculture Engineering













Department for Computer Science and Information Technology

Program Name: B.Tech	Academic Session: 2024-25	Semester: III	
Course Name: Sensor and Instrumentation	Course Code: BOE305	Faculty Name: Sheetal	

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
CO1	Understand the use of sensors for measurement of displacement, force and pressure.	Understand	Conceptual, Procedural
C02	Understand the uses of sensors in industry for measurement of temperature, position, accelerometer, vibration sensor, flow and level.	Understand	Conceptual, Procedural
C03	Apply the concept of virtual instrumentation in automation industries.	Apply	Factual, Procedural
CO4	Understand, Identify and use data acquisition methods.	Understand	Conceptual, Procedural
502	Understand intelligent instrumentation in industrial automation.	Understand	Conceptual, Procedural

mapping of course outcomes with ringian	out of the	The Court of the C	190111111	talli out	Senso	Sensor and Instrume	trumenta	Sensor and Instrumentation (BOE305)	(E305)					
Course Code	PO-1	PO-2	PO-1 PO-2 PO-3 PO-4	PO-4	PO-5	9-0d	PO-7	8-0d	PO-9	PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12	PO-11	PO-12	PSO-1	PSO-2
100	3	2	,	1	1	1.	1	1				E	3	
C02	3	3	,		2	ı			ı	ı		ı	2	1
C03	3	2	,	1	3	ä	1	1	1	ì	ı	r	2	r
C04	2	3		1	1	ı	1	1	ı		t	T.	1	1
CO5	2	2	1	1	2	1	1	1	37	1	3	а	2	
PO Target	2.60	2.40		3	2.25	1	1	- 0	1.		1	1	2.20	-
		2					0							1

Signature of Course Coordinator

Signature of Addl. HoD

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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.













Department for Computer Science and Information Technology

onnecting Life with Learning

Course Name: Universal Human Values and Professional Ethics Course Code: BVE301 Faculty Name: Arti Pandey Tagging COs with BLs & KCs Bloom's Cognitive Knowledge Category	Program Name: B.Tech	Academic Session: 2024-25	Semester: III	III
COs with BLs & KCs	Course Name: Universal Human Values and Professional Ethics	Course Code: BVE301	Faculty Na	ame: Arti Pandev
0 0 1 1 1 10	Tagging COs with BLs & KCs			
	7 70		Bloom's Cognitive	Knowledge Category

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	Understand the process of self-exploration and meaning of natural acceptance.	Understand	Conceptual
C02	Understand the meaning of Harmony in the Co-existence of Self and Body.	Understand	Conceptual
CO3	Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships.	Understand	Conceptual
C04	Analyze the harmony in nature and existence by fulfilling participation in the nature.	Analyze	Conceptual
CO5	Apply the role of holistic understanding of harmony in professional ethics.	Apply	Conceptual, Procedural

Course Code PO-1 PO-2 PO-3 PO-4 CO1	PO-1	PO-2	PO-3	Universal PO-4		Human Values and Pro PO-5 PO-6 PO-7 1 - 1 2 - 1 2 - 1 2 - 1 2	and Pro PO-7 1 2 2 2 2 2 2	Human Values and Professional Ethics (BVE301) PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 - - 1 1 1 - - - 2 3 2 - - 1 2 3 2 - - 1 2 3 2 - - 1 2 3 2 - - 1 2 3 2 - - 1 2 3 2 -	Ethics (PO-9 1 2 2 2 2 2 2	BVE301) PO-10	PO-11	PO-12 2 2 2 2 2 2 2 3	PSO-1	PSO-2
PO Target	1	ı	E	1	1	1.00	1.80	2.60	1.80		1.00	2.20	7	ı

Signature of Course Coordinator

Signature of Addl. HoD

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Computer Scince and Information The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having eredits.less have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)













Department for Computer Science and Information Technology Connecting Life with Learning www.kiet.edu Deihi-NCR, Ghazlabad

Program Name: B.Tech	Academic Session: 2024-2025	Semester: III
Course name: Data Structure	Course Code: BCS301	Faculty Name: Dr. Meeta Chaudhry

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	Implement the operations of Array and Linked list through data structure concepts.	Apply	Conceptual, Procedural
C02	Apply the concept of Stack and queue in reallife problems.	Apply	Conceptual, Procedural
CO3	Implement sorting, searching algorithms andfind their complexity.	Apply	Conceptual, Procedural
C04	Implement the concepts of trees.	Apply	Conceptual, Procedural
CO5	Use the concepts of graph for solving problem.	Apply	Conceptual, Procedural

		PSO-2						1.0
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		PO-12	_	3			3	2.0
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		PO-9 PO-10	1	_	2	1	_	1.25
		6-0d	1		1			1
	BCS301)	8-0d	1	ı	1		1	,
	Data Structure (BCS301	PO-6 PO-7 PO-8	τ	r	1	1	1	,
. 0	Data Str	9-0d	1		1	1	1	r
		PO-5	1	r	1	3	1	i
		PO-4	1	Ē	i	,	1	1
		PO-3	-	2	2	3	2	2.0
		PO-2	2	2	2	2	2	2.0
		PO-1	3	-	-	-	-	1.4
		Course Code	C01	C02	CO3	C04	CO5	PO Target

Signature of Course Coordinator

Signature of Addl. HoD

Computer Scince and Information Techni Signature of HoD

The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having eletifs lastathan 3 should Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)

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 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.





NIRF-2023









Department for Computer Science and Information Technology

ram Name: B.Tech	Academic Session: 2024-25	Semester: III
se name: Computer Organization & Architecture	Course Code: BCS-302	Faculty Name: Mrs. Supriya Dubey

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	CA C AGE: V		
l agging C	Lagging COs with BLS & NCS		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After comp	After completion of the course, the student will be able to		
C01	Summarize the fundamental components of basic computer system and its organization.	Understand	Conceptual
C02	Apply arithmetic and logical microoperations of binary number system.	Apply	Conceptual, Procedural
C03	Analyze control unit design and concept of pipelining.	Analyze	Conceptual, Procedural
CO4	Classify memory hierarchy and examine numerical problem based on it.	Analyze	Conceptual, Procedural
500	Justify the concept of input output organization.	Evaluate	Conceptual, Procedural

	PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12 PSO-1 PSO-2	2 2 2	. 2	- 2 2	2 - 2	- 2	2 - 2 2 2	
e (BCS-3	6-0d	т	I.	1	1	1	И	
Computer Organization & Architecture (BCS-302)	8-04	1	E	1	1	ı	1	
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r Organiz	9-0d			1	ı	1	1	
Compute	PO-5	2	2	2	2	2	2	
	P0-4	3	2	3	2	2	2.4	
	PO-3	2	2	3	3	3	2.6	
	PO-2	2	2	2	2	2	2	
	PO-1	3	3	2	3	2	2.6	
Computer C	Course Code	. CO-1	CO-2	CO-3	CO-4	CO-5	PO	Target

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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/ ind Gerripular Scinc Barrie And Andrews 1 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. .

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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 ÷

















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Department for Computer Science and Information Technology

Program N	Program Name: B.Tech	Academic Session: 2024-25	Semester: III	
Course Na	Course Name: Discrete Structures & Theory of Logic	Course Code: BCS-303	Faculty Name: Dr. Rohit Vashisht	t Vashisht
Tagging C	Tagging COs with BLs & KCs			
CO No.	Statement of C	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After comp	After completion of the course, the student will be able to			
C01	Acquire Knowledge of sets and relations for solving problems of POSET and lattices.	ng problems of POSET and lattices.	Apply	Conceptual, Procedural
C02	Apply fundamental concepts of functions and Babilities.	Boolean algebra for solving the problems of logical	Apply	Conceptual, Procedural
C03	Employ the rules of propositions and predicate log	logic to solve the complex and logical problems.	Apply	Conceptual, Procedural
CO4	Explore the concepts of group theory and their problems.	Explore the concepts of group theory and their applications for solving the advance technological problems.	Analyze	Conceptual, Procedural
C05	Illustrate the principles and concepts of graph thec	Illustrate the principles and concepts of graph theory for solving problems related to computer science.	Analyze	Conceptual, Procedural

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PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12 PSO-1 PSO-2		-	-		2 - 2	1.2 - 1.4	
PO-7 P	1	1		1	1		V
9-0d		1	1	1	1	1	
PO-5	1	2	2	1	2	1.6	
PO-4	-	1	2			1.5	
PO-3	_	1	1	_	2	1.2	
PO-2	_	1	1	2	3	1.6	
PO-1	3	3	3	3	3	3	
Course Code	CO-1	CO-2	CO-3	CO-4	CO-5	PO Target	(

Signature of Course Coordinator

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

Signature of Addl. HoD

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KIET, Ghaziabad

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 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.

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

Condition and Criteria.













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Department for Computer Science and Information Technology

gram Name: B.Tech	Academic Session: 2024 -2025	Semester: III
se name: Data Structure Lab	Course Code: BCS351	Faculty Name: Dr. Meeta Chaudhry

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category
After com	After completion of the course, the student will be able to	(72)	(211)
CO1	Implement various Sorting and Searching Algorithms.	Apply	Conceptual
CO2	Implement various data structure using static and dynamic memory allocation.	Analyze	Conceptual Procedural
CO3	Demonstrate various type of Trees and Graphs traversal techniques and operations	Apply	Conceptual

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Data Structure Lab (BCS351)

Course Code	PO-1	PO-2	PO-3	P0-4	PO-5	9-0d	PO-7	8-0d	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
C01	3	3	3	1	3	1	1	1	1	2	1	2	1	1
C02	3	3	3	3	3	-	1	_	-	2	ti	2	1	_
C03	3	3	3	-	3	3	1	-	-	2	а	2	2	1
PO Target	3.00	3.00	3.00	1.67	3.00	1.67		1.00	1.00	2.00	E	2.00	1.33	1.00

Signature of Course Coordinator

Signature of Addl. HoD

Computer Scince and Information Techno Signature of HoD KIET, Ghaziabad

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

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 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.















Department for Computer Science and Information Technology

Program Name: B.Tech	Academic Session: 2024-25	Semester: III
Course name: Computer Organization and Architecture	Course Code: BCS-352	Faculty Name: Mrs. Supriya Dubey
Lab		

Tagging (Fagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	Design and simulate combinational circuits for encoders/decoders and selection devices multiplexers/de-multiplexers using logic gates.	Apply	Procedural
CO2	Design and simulate combinational circuits for binary arithmetic (such as adders, subtractors, and multipliers) and code converters.	Apply	Procedural
CO3	Design and simulate the basic building blocks of the sequential circuits (i.e., SR and D FF) using logic gates.	Apply	Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix	urse out	comes wi	ith Progra	am outcor	mes CO	-POs Ma	trix							
				Compu	iter Org	iter Organization and Architecture Lab(BCS-352)	and Arch	itecture L	ab(BC	3-352)		E ALL PROPERTY		
Course Code PO-1 PO-2	PO-1	PO-2	PO-3	PO-4	PO-	9-0d	-Od 8-Od 7-Od 9-Od	8-04	PO- 9	10	PO-11	PO-11 PO-12	PSO-1	PSO-2
CO-1	2	-	-	2	-	2	1	1	1	1	1	П	2	-
CO-2	-	-	1	-	-		2	ī	í	2	1	1	1	ı
CO-3	2	2	2	-	-	2	1	1	1	1	1	1	2	-
PO Target	1.67	1.67 1.33	1.50	1.33	1.00	2.00	1.3/8	1.00	1.00 1.00	1.33	1.00	1.00	1467	1.00
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Signature of Goulese Coordinator

Condition and Criteria.

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KIET, Ghaziabad

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 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 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2021 - 22) ÷













Department for Computer Science and Information Technology

Program Name: B.Tech.	Academic Session: 2024-25	Semester: III
Course Name: Web Designing Workshop	Course Code: BCS353	Faculty Name: Ms. Garima Singh

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
001	Understand the concept of layout and structure of Hypertext markup language (HTML).	Understand	Conceptual, Procedural
005	Apply Cascading style sheets (CSS) integration and Bootstrapping in HTML pages. Apply the JavaScript concept to process and validate the data of a web page on the client Machine.	Apply	Conceptual, Procedural
003	Design the website with the application of HTML, CSS, and JavaScript.	Create	Conceptual, Procedural, Meta-Cognitive

Mapping of Course outcomes with Program outcor	ourse our	comes w	ith Progr	am onic	omes CO-POs Matrix	FLOS IM	atrix							
					Web	Designing	Worksh	op (BCS-	-353)	STATE OF THE PARTY				
Course Code	PO-1	PO-2	PO-1 PO-2 PO-3 PO-4	PO-4	PO-5	9-Od	PO-7	PO-5 PO-6 PO-7 PO-8 PO-9	PO-9	PO-10	PO-11 PO	PO-12 I	PSO-1	PSO-2
100	2	2	2	2	2	-	-	-	-	1	2	3	2	2
C02	3	2	2	2	2	-	-	-	-		2	3	2	2
003	3	3	3	3	3	-	_	-	_	_	2	3	2	3
PO Target	2.75	2.25	2.25	2.25	2.25	1	1	1	1	1	2	n	2	2.50

Signature of Course Coordinator

Signature of Addl. HoD



- 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













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Program	Program Name: B.Tech	Academic Session: 2024-25	Semester: III	
Course	Course name: Python Programming	Course Code: BCC302	Faculty Name: Deep Kumar	Kumar
Tagging	Tagging COs with BLs & KCs			
CO No.	Statement	of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to			
100	Understand the fundamentals of Python syntax, semantics and Programming.	antics and Programming.	Understand	Factual, Conceptual
C02	Acquire proficiency in handling strings and function	Acquire proficiency in handling strings and functions and be fluent in using Python control flow statements.	Apply	Conceptual, Procedural,

					Pyt	hon Prog	rammin	Python Programming (BCC302)	(70)					
Course Code PO-1 PO-2 PO-3 PO-4	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-Od	PO-9	PO-10	PO-111	PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12	PSO-1	PSO-2
100	2	-	1	1	1	1	1	1	1		i	ı	1	1
CO2	2	2	1	t	ı	1	ï		i	ě	ı	2	2	-
CO3	3	8	-	-	-	31	1	3	,			2	2	-
C04	33	2	2	-	-	1	,	i i	1		1	2	2	-
500	3	3	2	_	-	ı	í	Τ,	ı	t	1	2	2	-
PO Target	2.6	2.2	1.5	-	-	3.	i	-	1	1	1	2	1.8	-

Conceptual, Procedural Conceptual, Procedural,

Conceptual, Procedural

Apply Apply Apply

Determine the methods for ease of user to write python programs by utilizing the data structures like lists,

Explain and use different in-built functions of packages and connect with GUI programming.

500 C04

Apply the commonly used operations involved in file handling.

dictionaries, tuples and sets.

C02 03 Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)

Condition and Criteria.

The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial trainfigurating Science and Information Inchron 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 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. ÷ ...





NIRF-2023









Department for Computer Science and Information Technology

Program	Program Name: B.Tech Academic Session: 2024-25	Semester: III	
Course n	Course name: Mini Project Course Code: BCC351	Faculty Name: Deep Kumar	Kumar
Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
CO1	Correlate the technical knowledge acquired in the internships for solving real world problems	Analyze	Procedural
C02	Use various tools for developing solution to the problem.	Create	Procedural
03	Validate technical information by means of written and oral reports.	Evaluate	Conceptual, Procedural

	PO-111	3	3	c	
	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11	ı	-	3	
	PO-9	3	33	3	
CC351)	8-O4	3	3	3	
Mini Project (BCC351	PO-7	2	î	ī	
Mini Pr	9-0d	3	-	ı	
	PO-5	,	2		
	PO-4	-	3	1	
	PO-3	-	ю		
	PO-2	3			
	PO-1	1	1	1	
	Course Code	CO1	C02	CO3	

PSO-2

PSO-1

PO-12

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PO Target

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Signature of Course Coordinator

Signature of Addl. HoD

Signature Ole HoD

Computer Scince and Information Tech

- 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 4 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits 4 to 6 should have 5 number of COs. 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. ...

B.TECH (INFORMATION TECHNOLOGY AND CSI) CURRICULUM STRUCTURE

SI.	Subject	Subject	P	erio	ls	Ev	aluati	on Sche	me	Semo	nd ester	Total	Credi
110.	Codes		L	T	P	CT	TA	Total	PS	TE	PE		
1	KCS501	Database Management System	3	1	0	30	20	50		100		150	4
2	KIT501	Web Technology	3	1	0	30	20	50		100		150	4
3	KCS503	Design and Analysis of Algorithm	3	1	0	30	20	50		100		150	4
4	Deptt- Elective-I	Departmental Elective-I	3	0	0	30	20	50		100		150	3
5	Deptt Elective-II	Departmental Elective-II	3	0	0	30	20	50		100		150	3
6	KCS551	Database Management System Lab	0	0	2				25		25	50	1
7	KIT551	Web Technology Lab	0	0	2				25		25	50	1
8	KCS553	Design and Analysis of Algorithm Lab	0	0	2				25		25	50	1
9	KCS554	Mini Project or Internship Assessment*	0	0	2				50			50	1
10	KNC501/ KNC502	Constitution of India, Law and Engineering / Indian Tradition, Culture and Society	2	0	0	15	10	25		50			
11		MOOCs (Essential for Hons. Degree)											
		Total	17	3	8							950	22

^{*}The Mini Project or internship (4 weeks) conducted during summer break after IV semester and will be assessed during V semester.











Accredited by NAAC with Grade "A+" Department for Computer Science and Information Technology SHOUP OF INSTITUTIONS

gram Name: B.Tech	Academic Session: 2024-25	Semester: 5 th	4
urse name: DBMS	Course Code: KCS-501	Faculty Name: Ms.	S. Shrankhla Sa

Program	Program Name: B.Tech	Academic Session: 2024-25	Semester: 5 ^m	
Course n	Course name: DBMS	Course Code: KCS-501	Faculty Name: Ms. Shrankhla Saxena	Shrankhla Saxena
Tagging (Tagging COs with BLs & KCs			
CO No.	Statement	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to			
C01	Apply knowledge of database for real life applications	S	Apply	Procedural
C02	Apply query processing techniques to automate the real time problems of databases.	al time problems of databases.	Apply	Procedural
CO3	Identify and solve the redundancy problem in database tables using normalization.	se tables using normalization.	Analyze	Procedural
C04	Understand the concepts of transactions and their processing.	cessing.	Apply	Procedural
C05	Design, develop and implement a small database project using database tools.	ect using database tools.	Create	Meta Cognitive

DO 0 DO 10				
01-01	PO-11	PO-12	PSO-1	PSO-2
2	3	2	3	1
2 2	3	2	3	_
2 1	2	2	,	1
2 2	2	2	-	
2 1	3	2	3	2
2 1.5	2.6	2	2.50	1.5
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3 2 1 2 2 2 2 2 2 1 3 2 1.5 2.6	2 2 3 2 2 1 2 2 2 2 2 2 2 1 3 2 2 1 3 2 2 1.5 2.6 2	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Computer Scince and Information Technol

- Please Note (Reference: OBE Guidelines wel. 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













Department for Computer Science and Information Technology

Program	Program Name: B.Tech	Academic Session: 2024-25	Semester: 5th	
Course n	Course name: Web Technology Co	Course Code: KIT 501	Faculty Name: Mr. Madhukar	ladhukar
Tagging (Tagging COs with BLs & KCs			
CO No.	Statement of Course Outcome	urse Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to			
CO1	Understand the concepts of the web, internet and OOPs concepts using Core Java.	ncepts using Core Java.	Understand	Conceptual/Procedural
CO2	Apply the concept of markup languages like HTML, DHTML, CSS and XML in the working of web and web applications.	ITML, CSS and XML in the working of web and web	Apply	Conceptual/Procedural
CO3	Apply JavaScript and AJAX to process web page based programs using Java.	e content and java net API to create network-	Apply	Conceptual/Procedural
CO4	Apply JDBC concepts to create database, perform database operations using Java Programs and the business logic using Java Beans.	e operations using Java Programs and the business logic	Apply	Conceptual/Procedural
CO5	Apply JSP and Servlets concepts in server-side programming to process web data.	ing to process web data.	Apply	Conceptual/Procedural

The second secon					Course Name	urse Nar	ne (Cour	se Code)						
Course Code	PO-1	PO-1 PO-2	PO-3	PO-3 PO-4	PO-	9-0d	PO-7	5 PO-6 PO-7 PO-8		PO-9 PO-10	PO-11	PO-12	PSO-1	PSO-2
C01	r	2	ı	-	2			7		2	2	3		
C02	-	2	-	-	2	1	1	7	2	2	2	3	-	
C03	1	2	-		7		1	2	2	2		3	2	,
C04	-	2	-	-	2	1		2	2	2	2	3	2	1
C05	-	2	-	-	2	1	1	2	2	2	2	3	2	
PO Target	-	2	-	-	2	1	- '-	2	2	2	2	3	1.75	

Signature of Course Coordinator

Signature of Addl. HoD

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Department for Computer Science and Information Technology

Program Name: B.Tech	Academic Session: 2024-25	Semester: V	
Course Name: Design and Analysis of Algorithm C	Course Code: KCS-503	Faculty Name: Vinay Kumar	

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	Analyze the complexity of algorithms and sorting techniques.	Analyze	Conceptual, Procedural
CO2	Analyze advance data structure such as RB Tree to calculate their operational complexity.	Analyze	Conceptual, Procedural
CO3	Apply the various algorithmic paradigms, including divide & conquer and greedy algorithms to solve the problems.	Apply	Conceptual, Procedural
C04	Analyze the solutions for optimization problems using dynamic programming and branch & bound techniques.	Analyze	Conceptual, Procedural
CO5	Understand the concepts of NP-completeness, Randomized and Approximation Algorithms.	Understand	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POS														
					Design a	nd Analy	sis of Alg	orithm (1	KCS-503)					
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-5 PO-6 PO-7 PO-8 PO-9	PO-7	8-0d	6-0d	PO-10	PO-11	PO-12	PSO-1	PSO-2
100	3	3	3	-	1	ı	ı	ı		1	-	-	2	-
C02	2	3	3	2	-	3	1	1	я	1	-	-	2	1
CO3	2	3	2	2	1	ı	ı	£	E	,	2	2	2	-
C04	3	2	3	3	2	,	,	1	4		2	2	-	-
CO5	1	2	2	1	-	i	1	ar.	1		-	-	1	1
PO Target	2.2	2.6	2.6	1.8	1.2		i	1	,		1.4	1.4	1.75	-

Signature of Course Coordinator

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

Signature of Addl. HoD

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KIET, Ghaziabad

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.





NIRF-2023









Department for Computer Science and Information Technology Connecting Life with Learning

rogram Name: B.Tech	Academic Session: 2024-25	Semester: V
ourse Name: Object Oriented System Design	Course Code: KCS 054	Faculty Name: Ms. Shivangi Tvagi

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Bloom's Cognitive Knowledge Category Process Level (BL) (KC)
After con	After completion of the course, the student will be able to		
C01	CO1 Understand the various constructs of object oriented programming to implement applications.	Procedural	Understand
CO2	Analyze the role of overall modeling concepts (i.e. System, structural).	Conceptual	Analyze
CO3	Analyze oops concepts (i.e. abstraction, inheritance).	Procedural	Analyze
CO4	Implement the basic concepts of C++.	Conceptual	Apply
CO5	Apply object-oriented approach to implement real world problem.	Meta-cognitive	Create

Mapping of Course outcomes with Program outco					Object (Oriented	Object Oriented System Design (KCS 054)	esign (K	CS 054)					
Course Code	PO-1	PO-1 PO-2 PO-3	PO-3	PO-4	PO-5	9-0d	PO-7	8-O4	PO-6 PO-7 PO-8 PO-9	PO-10	PO-111	PO-12	PSO-1	PSO-2
100	2	1	3	2	2	1	1	ī	1	2	2	1	1	3
C02	1	3	3	2	2	1		1	1	ī	2	2	3	2
CO3	1	co	2	2	1	1	1	1		1	2	1	-	
CO4	1	1	3	1	3	1	L	ı		t.	2		2	-
CO5	2	3	3	2	3	3	2	2	3	3	3	3	3	3
PO Target	2.00	3.00	2.80	2.00	2.50	3.00	2.00	2.00	2.00	2.50	2.20	1.75	2.00	2.25

Signature of Course Coordinator

Signature of Addl. HoD



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 KIET, Ghaziabad have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)















Department for Computer Science and Information Technology

Program Name: B. Tech	Academic Session: 2024-25	Semester: V
Course Name: Machine Learning Techniques	Course Code: KCS-055	Faculty Name: Dr. Sudhir Kumar Sharma

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
C01	To understand the need for machine learning for various problem solving.	Understand	Conceptual
C02	To understand a wide variety of learning algorithms and how to evaluate models generated from data.	Evaluate	Procedural
C03	To understand the latest trends in machine learning.	Understand	Conceptual
C04	To design appropriate machine learning algorithms and apply the algorithms to a real-world problem.	Apply	Procedural
C05	To optimize the models learned and report on the expected accuracy that can be achieved by applying the models.	Analyze	Procedural

					MARKE	I	T		10000			THE RESERVE		1 - 1 1 - 1 1 - 1 1 - 1 1 1 1 1 1 1 1 1
					Macni	ne Learn	ing rechi	Machine Learning Techniques (KCS-055)	(20-02)					THE STREET
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	PO-8 PO-9	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
100	2	Н	Н	1	1	1	Н	r		16	i.	2		E
C02	2	2	2	1	1			1	,	t	·	2		E
CO3	2	2	2	П	1	1	П	1	1	,	1	2	1	- 10
CO4	2	2	3	3	2	-	П	E		10	ř	1	-	ı
CO5	2	2	2	П	3	E	,	1.	,			1	1	ı
PO Target	2.0	1.8	2.0	1.5	1.75	1.0	1.0	-/		3300	1	1.6	1.0	1
	000	Ou pearme	2					7					-	

Signature of Course Coordinator

Signature of Addl. HoD

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 transmits having 7 to 12 credits should have 6 to 10 number of COs.













Department for Computer Science and Information Technology

n Name: B.Tech	Academic Session: 2024-25	Semester: 5 th
me: DBMS Lab	Course Code: KCS-551	Faculty Name: Ms. Shrankhla Saxena

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	CO1 Design an information model expressed in the form of ER diagram.	Apply	Procedural
C02	Apply SQL queries to implement and manipulate the database and provide different constraints.	Apply	Procedural
C03	Apply structured query language to automate the real time problems of databases.	Apply	Meta Cognitive

0	trapping of course outcomes with rightain outcomes		0		OHES C	CO-1 OS MAILEN								
						DBMS	Lab (KC	S-551)						
Course Code PO-1 PO-2 PO-3 PO-4 PO-5	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-Od	PO-9	PO-10	PO-6 PO-7 PO-8 PO-9 PO-10 PO-11	PO-12	PSO-1	PSO-2
100	2	-	3	2	3		ı	1	ī		-	1	ı	t.
C02	2	1	3	2	3	1	ì	r	ı	j	-	1	2	1
CO3	3	2	2	1	3	,	ı	1	T	1	-	1	2	
PO Target	2.33	1.33	2.67	2.00	3.00		7 -	a	ı	I.	1.00	ı	7	

Signature of Course Coordinator

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Signature of HoD

Computer Scince and Information Technology KIET, Ghaziabad

- 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.
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Department for Computer Science and Information Technology

ogram Name: B.Tech	Academic Session: 2024-25	Semester: 5 th
urse name: Web Technology Lab	Course Code: KIT 551	Faculty Name: Mr. Madhukar

	0		
Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
100	Develop static web pages using HTML, Dynamic Web Pages using JavaScript and XML, and JSP (Server Side Programming).	Apply	Conceptual, Procedural
C02	Develop Java programs for Windows/web-based applications.	Apply	Conceptual, Procedural
CO3	Construct Server-Side applications using JDBC, ODBC and session tracking API	Apply	Conceptual, Procedural

)	ourse N:	ame (Cor	Course Name (Course Code)	e)					
Course Code PO-1 PO-2 PO-3 PO-4 PO-5	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-O4	PO-9	PO-10	PO-11	PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12 PSO-1	PSO-1	PSO-2
100	1	2	-	-	2	1		2	2	2	2	3	1	
C02	1	2	1	-	2			2	2	2	2	3	12	
CO3	1	2	1	1	2	1		2	2	2	2	3	2	1
PO Target	2	7	_	1	2	1	1	, 2	7	2	2	3	1.5	

Signature of Course Coordinator

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Signature of Addl. HoD

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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





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Department for Computer Science and Information Technology		
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	Program Name: B.Tech	Academic Session: 2024-25	Semester: V	
COs with BLs & KCs Statement of Course Outcome Statement of Course Outcome	Course Name: Design and Analysis of Algorithm Lab	Course Code: KCS-553	Faculty Name: Vinay	Kumar
COs with BLs & KCs Statement of Course Outcome Statement of Course Outcome				
Statement of Course Outcome Process Level (BL)	Tagging COs with BLs & KCs			
	Statement	urse Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)

			Desig	De	esign and Analysis of Al	Analysis	Design and Analysis of Algorithm Lab (KCS-553)	thm Lab	(KCS-55	(3)				
Course Code PO-1 PO-2 PO-3 PO-4	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-O4	PO-9	PO-10	PO-11	PO-12	PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11 PO-12 PSO-1	PSO-2
100	- 1	2	2	-	-	ı					-	2	-	-
C02	-	3	2	-	2	1	E	1		1	-	2	1	-
CO3	2	3	3	2	3	1		1	1	1	2	2	2	-
PO Target	1.33	2.66	2.33	1.33	2.00	1	E	/	1	1	1.33	2.00	1.33	N 1.00

Conceptual,

Analyze

Apply

Procedural

Conceptual,

Procedural

Conceptual Procedural

Apply

Illustrate basic techniques for designing algorithms, including the techniques of recursion and iterative

After completion of the course, the student will be able to

approach.

C01

Analyze the performance of algorithms with respect to time and space complexity.

C03

C02

Apply algorithms to solve problems using various algorithm design strategies.

Signature of Course Coordinator

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

Condition and Criteria.

Signature of Addl. HoD

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Computer Scince and Information Technology KIET, Ghaziabad

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Department for Computer Science and Information Technology onnecting Life with Learning www.kiet.edu Delhi-NCR, Ghaziabad

	ıgi Tyagi
Semester: V	Faculty Name: Ms. Shivar
Academic Session: 2024-25	Course Code: KNC 501
Program Name: B.Tech	Course Name: Constitution of India, Law and Engineering

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Bloom's Cognitive Knowledge Category Process Level (BL) (KC)
After cor	After completion of the course, the student will be able to		
100	Identify and explore the basic features and modalities about the Indian constitution.	Understand	Factual, Conceptual
CO2	Differentiate and relate the functioning of Indian parliamentary system at the center and state level.	Analyze	Factual, Conceptual
CO3	Differentiate different aspects of the Indian Legal System and its related bodies.	Understand	Factual, Conceptual
CO4	Discover and apply different laws and regulations related to engineering practices.	Understand	Factual, Conceptual
CO5	Correlate role of engineers with different organizations and governance models.	Understand	Factual, Conceptual

CO-POs Matrix
vith Program outcomes
outcomes with
g of Course
Mapping o

	PSO-2		1	а		1	1
	PSO-1	1	117	1	ı		4
	PO-12	1	1	,	.1	2	2.00
	PO-111	1	,			2	2.00
501)	PO-10	ī	1	,	2	2	2.00
ng (KNC	PO-6 PO-7 PO-8 PO-9 PO-10	1	1	1		2	2.00
Ingineeri	8-Od	1	1	_	2	2	1.67
aw and I	PO-7	2	2	2	2	2	2.00
f India, I	9-0d	3	3	3	3	2	2.80
stitution o	90-4 PO-5	1	1	1	1	1	1
Cons	PO-4	1	1	1	1	1	
	PO-3	1	1	1	1	1	1
	PO-1 PO-2	1	1	1	1	1	1
	PO-1	1	. 1	1	-	1	1
	Course Code	C01	C02	CO3	CO4	CO5	PO Target

Signature of Course Coordinator

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

Condition and Criteria.

Signature of Addl. HoD

Signature of HoD

Computer Scince and Information Techni

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Department for Computer Science and Information Technology

Connecting Life with Learning

Course name: Mini project Course Code: KCS 554 Faculty Name: Ms. Ashima Arya	December Achimo Anyo	Academic Session: 2024-25	Semester: V
de: KCS 554 Facuity Name: Ms. Asnima	Program Name: Asimina Arrya		N. A. L.
Course name: Ivilin project	Minimoioot	de: 1	ie: Ms. Asnima
	Course name: Jynini project		

Theming	Township BI & KC		
Lagging	COS WILL DES & INC.	Ploom's Cognitive	Knowledge Category
CO No.	Statement of Course Outcome	Process Level (BL)	(KC)
*	a series of the standard to the standards		
After com	After completion of the course, the student will be able to		C
100	Correlate the technical knowledge acquired in the labs to solve real-world problems.	Analyze	
			Q
000	Engage in the creative design process by integrating and applying diverse technical knowledge.	Create	4
200	Lingage III and cream of the cr	-	C D
CO3	Use the various tools & techniques coding practices for developing solutions to the problem.	Evaiuate	7.
1)			

		01-0d PO-0 PO-0 PO-10 PO-10 PO-10
	753)	PO-0
	Project1 (KIT 753)	PO-8
atrix	e: Projec	po 7
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Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-111	PO-12	PSO-1	7-0c4
Course Cour	101	1	\neg									•		-
CO1	-	(r	-		1	3	7	3	n	ı	3	3	1	-
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cos	1			1							,	, .		·
PO Target	-	3	7	2	-	7	-	3	3	2	3	0.7	1	4
10 I al Svi														

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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INFORMATION TECHNOLOGY /CSIT

B.TECH IV YEAR

(INFORMATION TECHNOLOGY /CSIT) CURRICULUM STRUCTURE

		SI	EMES	STEF	R- VII								
SI.	Subject	Subject	P	erio	ds	F	Evaluat	ion Schen	ne	55 750	nd ester	Total	Credit
110.	Codes		L	T	P	CT	TA	Total	PS	TE	PE		
1	KHU701/KHU702	HSMC -1 / HSMC-2	3	0	0	30	20	50		100		150	3
2	KCS07X	Departmental Elective-IV	3	0	0	30	20	50		100		150	3
3	KCS07X	Departmental Elective-V	3	0	0	30	20	50	-	100		150	3
4	KOE07X	Open Elective-II	3	0	0	30	20	50		100		150	3
)s	KIT751A	The Department may conduct one Lab of either of the two Electives (4 or 5) based on the elective chosen for the curriculum. The Department shall on its own prepare complete list of practical for the Lab and arrange for proper setup and conduct accordingly.	0	0	2				25		25	50	1
6	KIT752	Mini Project or Internship Assessment*	0	0	2				50			50	1
7	KIT753	Project 1	0	0	8				150			150	4
8	=	MOOCs (Essential for Hons. Degree)		-									
		Total	12	0	12					-		850	18

^{*}The Mini Project or internship (4 - 6 weeks) conducted during summer break after VI semester and will be assessed during VII semester.

SEMESTER- VIII

SI.	Subject	Subject	I	Perio	ds	E	Evaluat	ion Schen	ne	15.	nd ester	Total	Credit
30.	Codes	-	L	T	P	CT	TA	Total	PS	TE	PE		
1	KHU801/KHU802	HSMC-2 [#] /HSMC-1 [#]	3	0	0	30	20	50		100		150	3
2	KOE08X	Open Elective-III	3	0	0	30	20	50		100		150	3
3	KOE08X	Open Elective-IV	3	0	0	30	20	50		100		150	3
4	KIT851	Project	0	0	18				100		300	400	9
5		MOOCs (Essential for Hons. Degree)											
		Total	9	0	18							850	18













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Connecting Life with Learning

www.kiet.edu Delhi-NCR, Ghazzabad

Program Name: B.Tech.	Academic Session: 2024-25	Semester: VII
Course name: Rural Development: Administration and Planning	Course Code: KHU 701	Faculty Name: Ashish Kumar Singh

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category
After con	After completion of the course, the student will be able to		(244)
C01	Understand the concept of rural development and its different policies and programmes.	Understand	Factual
C02	Understand different experiments and approaches to rural community development.	Understand	Conceptual
CO3	Understand the structure of rural administration and the dimensions of panchayati raj.	Understand	Conceptual
C04	Understand the need and dimensions of human resource development in rural sector.	Understand	Conceptual
CO5	Understand the different aspects of Rural Industrialization and Entrepreneurship.	Understand	Conceptual

O-POs Matrix
CO
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				Kural Deve	lopme	nt: Admin	nistration	and Plan	Ining (K.	10701)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-6 PO-7 PO-8 PO-9 PO-10	8-0d	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO1	1	1	1	1	1	2	2	1	1	_	1.	2	-	r
C02	1	1	1	1	1	3	2	ı	1	-	.1.	2	-	
CO3	1	1	ı		ı	2	2	1	,	-		2	1	1
CO4	-	1	1	1	ì	2	2	3	1	_	3	2	-	1
CO5	1	1	1	1	1	2	2	1		_	t	2	-	
PO Target	1.0	ı	1	1	1	2.2	2.0	,	1	1.0	1	2.0	1.0	1



Signature of Addl. HoD

Signature of HoD

Computer Scince and Information Technology

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











NAAC with Grade "A+"



Department for Computer Science and Information Technology

Connecting Life with Learning

Program Name: B.Tech	Academic Session: 2024-25	Semester: VII
Course Name: Artificial Intelligence	Course Code: KCS071	Faculty Name: Mr. Ankit Kumar Saini

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
C01	Understand the concepts of artificial intelligence and intelligent agents.	Understand	Conceptual
C02	Apply basic principles of AI in solutions that require problem-solving methods.	Apply	Conceptual, Procedural
C03	Determine the effectiveness of truths by knowledge representation methods in AI.	Analyze	Conceptual, Procedural
CO4	Analyze intelligent agents by exploring the architecture and communication of agents.	Apply	Conceptual, Procedural
002	Analyze various AI applications in Information retrieval and extraction, Natural Language Possessing, speech recognition and Robots.	Analyze	Conceptual, Procedural

Artificial Intelligence (KCS 071) Course Code PO-1 PO-2 PO-4 PO-5 PO-6 PO-7 PO-8 PO-10 PO-11 PO-12 PSO-1 PSO-2 CO1 3 - - - 2 2 - - 3 2 2 CO2 3 3 2 3 3 - - - - 3 3 3 CO3 3 3 3 3 - - - - - - 3 2 2 2 2 - - - - - 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3<	Mapping of Course outcomes with Program outcomes	ourse our		>			CO I OS MINITA								
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 3 - - - - - - 3 2 2 3 3 2 3 - - - - 3 3 3 3 3 3 3 - - - - 2 2 2 2 3 3 3 3 3 2 2 - - - 2 2 2 2 2 3 <th></th> <th></th> <th></th> <th></th> <th></th> <th>Ar</th> <th>tificial In</th> <th>telligence</th> <th>(KCS 0</th> <th>71)</th> <th></th> <th></th> <th></th> <th></th> <th></th>						Ar	tificial In	telligence	(KCS 0	71)					
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Signature of Course Coordinator Anich Kuman

Condition and Criteria

Signature of Addl. HoD

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 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 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits 3 to 6 should have 5 number of COs. have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.















Department for Computer Science and Information Technology

Program Name: B.Tech.	Academic Session: 2024-25	Semester: VII
Course Name: Software Testing	Course Code: KCS076	Faculty Name: Dr. Jaswinder Singh

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After cor	After completion of the course, the student will be able to		
C01	Have an ability to apply software testing knowledge and engineering methods.	Apply	Procedural
C02	Have an ability to design and conduct a software test process for a software testing project.	Analyze	Procedural
	Have an ability to identify the needs of software test automation, and define and develop a test	Understand	Ecotion Composition
CO3	tool to support test automation.		ractual, Collecptual
	Have an ability understand and identify various software testing problems, and solve these	Understand	Factual, Conceptual
C04	problems by designing and selecting software test models, criteria, strategies, and methods.		
	Have basic understanding and knowledge of contemporary issues in software testing, such as	Understand	Conceptual
CO5	component-based software testing problems.		

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Course Code	PO-1	PO-2	PO-2 PO-3	P0-4	PO-5	PO-5 PO-6 PO-7 PO-8	PO-7	8-O4	6-0d	PO-10	PO-11	PO-12	PSO-1	PSO-2
001	3	2	2		ï	1	1	T.	ī		1		3	r
C02	3	3	3	2	ā	1	1	9	ij	з	ì	1	3	2
003	2	3	2	3	3		r	ı	,	r	ı		3	3
CO4	3	3	3	1	1		1	1	1	,		,	3	2
CO5	2	2	i	1	1	1.	1	1	3	1	1	1	2	a.
PO Target	2.6	2.6	2.5	2.5	3.0		1	-,	3.0	1	1	,	2.8	2.3

Signature of Course Coordinator

Signature of Addl. HoD

Computer Scince and Information Technology Signature of HoD

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Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
C01	Articulate the main concepts, key technologies, strengths and limitations of cloud computing.	Understand	Factual, Conceptual
C02	Understand the key and enabling technologies like virtualization in Cloud Computing	Understand	Factual, Conceptual
03	Interpret the architecture of cloud computing, cloud storage, service and delivery models.	Understand	Factual, Conceptual
C04	Understand the core issues of cloud computing such as resource management and security.	Understand	Factual, Conceptual
002	Classify cloud technologies for the next generation computing paradigm.	Analyze	Conceptual, Procedural

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Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-Od	PO-9	PO-10	PO-111	PO-12	PSO-1	PSO-2
001	2	2	i.	2	2	1	1	1	1	1	1	2	2	T
C02	2	2		2	2	31	1		1	1	1	2	2	1
003	2	3	1	2	2	1	1	1	1	1	1	2	2	1.
CO4	2	3	1	2	3	,	1	1	1	1	2	2	2	t
CO5	2	3		3	3	1	1	1	1	1	2	3	3	
PO Target	2.0	2.6	1	2.2	2.4	1	1	1	1		2.0	2.2	2.2	







Computer Scince and Information Technolog

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having eredits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. ٠
- 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. ..













Department for Computer Science and Information Technology

onnecting Life with Learning

gram Name: B.Tech.	Academic Session: 2024-25	Semester: VII
rse name: Renewable Energy Resources	Course Code: KOE074	Faculty Name: Masood Rizvi

Tagging	Tagging COs with BLs & KCs			
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category	1
After con	After completion of the course, the student will be able to		(Oxy)	-
001	Understand various non-conventional energy resources and their availability along with knowledge on solar cells.	Understand	Factual	-
C02	Apply the concept of solar radiation on a flat plate and focusing type collectors to convert solar energy into electrical energy.	Apply	Conceptual	7
003	Understand the concept of electrical energy generation from geothermal energy, magneto-hydrodynamics, and fuel cells.	Understand	Conceptual	-
C04	Understand the concept of electrical energy generation from thermo-electrical, thermionic, and wind energy conversions.	Understand	Conceptual	
002	Understand biomass, ocean thermal, wave, and tidal wave energy conversions.	Understand	Conceptual	_

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					Renewa	ble Ener	'gy Reso	Renewable Energy Resources (KOE074)	OE074)					
Course Code PO-1 PO-2 PO-3 PO-4	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-6 PO-7	8-O4	PO-9	PO-10	PO-8 PO-9 PO-10 PO-11 PO-12	PO-12	PSO-1	PSO-2
CO1	-	1	1	-	,	2	3	1	i	_		1	-	
C02	3	1	1	2		3	3	,	1	_	ı	2	3	
CO3	1	1		2	1	2	3	1		-	3	2	-	
CO4	-	,	1	2	1	2	3	1		-		2	-	
CO5	-	1	1	2	1	2	n	1	1	_	t	2		
PO Target	1.4		1	1.8	1	2.2	3.0	1-		1.0	,	0.1	- 1	

Signature of Course Coordinator

Signature of Addl. HoD

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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 leading having leading as 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













Department for Computer Science and Information Technology

gram Name: B.Tech	Academic Session: 2024-25	Semester: VII
urse Name: VISION FOR HUMANE SOCIETY	Course Code: KOE076	Faculty Name: Swasti Singhal

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Bloom's Cognitive Knowledge Category Process Level (BL) (KC)
After com	After completion of the course, the student will be able to		
CO 1	Understand human aspirations, their fulfillment, and the need for a universal human order.	Understand	Conceptual
CO 2	Analyze the types of human-human relationships and their fulfillment.	Analyze	Conceptual
CO3	Apply the principles of justice from the family level to the world family order.	Apply	Procedural
CO 4	Understand the conceptual framework of an undivided society and universal human order.	Understand	Conceptual
CO 5	Analyze the process of transitioning from the current state to an undivided society and universal human order.	Analyze	Procedural

P0-1	PO-2 2 1 1 1	Course Code PO-1 PO-2 PO-3 PO-4 CO 1 - 2 - - CO 2 - 1 - - CO 3 - 1 - -	PO-4	PO-5	OR HUN PO-6 3	PO-7 2 3 3	PO-8 3 2 3 3	1SION FOR HUMANE SOCIETY (KOE076) PO-5 PO-6 PO-7 PO-8 PO-9 - 3 2 3 3 3 3 3 3 3 -	PO-10	P0-11	PO-12 2 2 2 2 2 2	PSO-1	PSO-2
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Signature of Course Coordinator

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- Computer Scince and Information Technolog The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having project and a should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having project and a should have 5 number of COs. have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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Department for Computer Science and Information Technology

Program Name: B.Tech	Academic Session: 2024-25	Semester: VII
Course Name: Artificial Intelligence Lab	Course Code: KIT751	Faculty Name: Mr. Ankit Kumar Saini

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
C01	Identify problems where artificial intelligence techniques are applicable.	Apply	Conceptual
CO2	Apply selected basic AI techniques; judge applicability of more advanced techniques.	Apply	Conceptual & Procedural
CO3	Participate in the design of systems that act intelligently and learn from experience	Evaluate	Conceptual & Procedural

					-	rtificial Intelligen	ligence I	Jab (KI	[751]					
Course Code PO-1 PO-2 PO-3 PO-4	PO-1	PO-2	PO-3		PO-5	-5 PO-6 PO-7 PO-8 PO-9	PO-7	8-Od	PO-9	PO-10 I	PO-11	PO-12	PSO-1	PSO-2
C01	3	1	3	2	2	2	2	1	2	3		2	2	2
C02	3	2	2	3	7	3	3		ï	ï	ı	3	2	2
CO3	3	3	2	ı	2	3	1		1	I.	ı	3	2	2
PO Target	3.0	2.5	2.3	2.5	2.0	2.6	2.5	ı	2.0	1		2.6	2.0	2.0

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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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

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 have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.











Accredited by NAAC with Grade "A+"



Department for Computer Science and Information Technology

Connecting Life with Learning

Program Name: B.Tech	Academic Session: 2024-25	Semester: VII
Course Name: Software Testing Lab	Course Code: KIT751A	Faculty Name: Dr. Jaswinder Singh

Tagging (Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After com	After completion of the course, the student will be able to		
CO 1	CO 1 Understanding Selenium tool to perform testing.	Understand	Conceptual
CO 2	Writing test suites for applications.	Apply	Procedural
CO3	Construct and test simple programs.	Create	Procedural
CO 4	Understanding the use of bug tracking and testing tools (Bugzilla, Jira).	Apply	Conceptual

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Course Code P	PO-1	PO-2	PO-3	PO-4	PO-5	PO-5 PO-6 PO-7	PO-7	PO-8 PO-9	PO-9	PO-10 PO-11	PO-11	PO-12	PSO-1	PSO-2
C01	3	2	2	1	2	τ	T.	1	1	1	1	r	2	2
C02	i	3	2	1	2	2	1	ı	1	1	1	1	. 3	2
CO3	2	2	1	2		2	ı	1	1	1	I.	1	3	2
CO 4	3	3	2	1		1	2	2		а	1	ir	2	2
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Signature of Addl. HoD

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The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training have 5 hould have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training have 5 to 6 should have 5 number of COs. have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)











Accredited by NAAC with Grade "A+" Department for Computer Science and Information Technology onnecting Life with Learning

ogram Name: B.Tech	Academic Session: 2024-25	Semester: VII
ourse name: Mini Project	Course Code: KIT752	Faculty Name: Arti Pandey

Tagging	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
100	Develop new technical skills for solving real world problems.	Analyze	Conceptual, Procedural
CO2	Use various tools for developing solution to the problem.	Create	Procedural
CO3	Illustrate problem-solving, critical thinking skills and report writing.	Analyze	Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix Mini Projec	ourse out	comes w	ith Progr	am outc	omes CC	-POs Ma	POs Matrix Mini Project (KIT752)	TT752)						
Course Code PO-1 PO-2 PO-3 PO-4	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-0d	PO-9	PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 PO-11	PO-11	PO-12 PSO-1	PSO-1	PSO-2
100	3	2	2	2	1	1		1	2	1	1	1		-
C02	-	1	3	3	2	-	,	3	c	1	3	3	t	2
CO3	I	1	,	1		1		3	3	3	3	2	·	-
PO Target	1.66	2.00	2.50	2.00	1.50	1.00	1	2.33	2.66	1.66	2.33	2.00	1	1.33

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Computer Scince and Information Technology

The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training hawing credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training hawing credits 3 to 6 should have 5 number of COs. have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)













Department for Computer Science and Information Technology

Program Name: B.Tech.	Academic Session: 2024-25	Semester: VII
Course name: Project 1	Course Code: KIT753	Faculty Name: Ms. Ashima Arya

Cagging	Fagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After con	After completion of the course, the student will be able to		
C01	Summarize the problem statement based on a review of the existing literature.	Understand	Conceptual
C02	Conclude the outcomes of the project.	Analyze	Conceptual, Procedural
03	Write a quality research paper,	Understand	Procedural
C04	Communicate the findings with the research community.	Evaluate	Conceptual, Procedural
502	Create a comprehensive project report.	Create	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix	urse out	comes w	ith Progr	ram outc	omes CC)-POs M	atrix						
						Project	et 1 (KIT753)	753)					
Course Code	PO-1	PO-1 PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-0d	6-0d	PO-10	PO-11	PO-12	PSO
C01	3	2	-	-	-	-	-	2	3	3	-	3	-
C02	-	2	3	3	3	_	-	-	3	2	_	3	-
CO3	-	3	3	2	-			-	3	2	_	3	-
C04	-	-	-	2	-			-	3	2	_	3	
502	-	2	-	2	_			-	3	2	_	3	-
PO Target	1.4	2.0	1.8	2	1.4	1.0	1.0	1.2	3.0	2.2	1.0	3.0	1.0

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Signature of Course Coordinator

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

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Computer Scince and Information Technology

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