

B Sc C. S (Batch 2020-2023)

Program Outcomes (PO) and Program Specific Outcomes (PSO) Mapping Based on CO Attainment for each Subject

Sr No	Course Code	Subject	PO Attainment Level										PSO Attainment Level				
			PO0 1	PO0 2	PO0 3	PO0 4	PO0 5	PO0 6	PO0 7	PO0 8	PO0 9	PO1 0	PSO 1	PSO 2	PSO 3	PSO 4	
		Sem-I															
1	USCS101	Computer Organization		2.9											2.9		
2	USCS102	Python-I					2.9										2.9
3	USCS103	Free& Open Source										3		3			
4	USCS104	Database Systems				3									3		
5	USCS105	Discrete Mathematics						2.7								2.7	
6	USCS106	Statistics	3											3			
7	USCS107	Soft Skill										3		3			
		Sem-II															
1	USCS201	Programming With C		3											3		
2	USCS202	Python-II				2.7									2.7		
3	USCS203	Linux								2.8						2.8	
4	USCS204	Data Structure					2.6									2.6	
5	USCS205	Calculus						2.8						2.8			
6	USCS206	Statistical Methods & Testing of Hypothesis	2.7											2.7			

POs and PSOs Attainment			Program Outcome							B. Sc Computer Science								
7	USCS207	Green Technology								2.7								2.7
Sem-III																		
1	USCS301	Theory of Computation				3											3	
2	USCS302	Core Java		3												3		
3	USCS303	Operating System								3							3	
4	USCS304	Database Management Systems				2.3									2.3			
5	USCS305	Combinatorics and Graph Theory	2.9											2.9				
6	USCS306	Physical Computing and IoT Programming		3											3			
7	USCS307	Web Programming				3.8										3.8		
Sem-IV																		
1	USCS401	Fundamentals of Algorithms							3								3	
2	USCS402	Advanced Java		3											3			
3	USCS403	Computer Networks		3											3			
4	USCS404	Software Engineering						3							3			
5	USCS405	Linear Algebra using Python							2.9						2.9			
6	USCS406	Net Technologies		3											3			
7	USCS407	Android Developer Fundamentals								2						2		
Sem-V																		
1	USCS502	Linux Server Administration				3											3	
2	USCS503	Software Testing and Quality Assurance							2.7						2.7			
3	USCS504	Information and Network Security													2.8		2.8	
4	USCS505	Architecting of IoT		2.8												2.8		

POs and PSOs Attainment			Program Outcome							B. Sc Computer Science						
5	USCS507	Game Programming	3											3		
Sem-VI																
1	USCS601	Wireless Sensor Networks and Mobile Communication		3									3			
2	USCS603	Cyber Forensics									3				3	
3	USCS604	Information Retrieval						3				3				
4	USCS606	Data Science		2.8								2.8				
5	USCS607	Ethical Hacking									2.8			2.8		
Average PO/PSO attainment Level Calculation			2.9	2.9	3.4	2.7	2.8	2.8	2.7	2.7	3	2.9	2.8	2.9	2.8	2.9
Attained (YES/NO) Target Level: 2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

FY BSC CS: Semester-I (AY-2020-21) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS101	Computer Organization	3.0	2.7	3.0	2.7	3.0		2.9	Yes
2	USCS102	Python-I	2.7	2.7	3.0	3.0	3.0	3.0	2.9	Yes
3	USCS103	Free& Open Source	3.0	3.0	3.0	3.0	3.0		3.0	Yes
4	USCS104	Database Systems	3.0	3.0	3.0				3.0	Yes
5	USCS105	Discrete Mathematics	3.0	2.3	3.0	3.0	2.3		2.7	Yes
6	USCS106	Statistics	3.0	3.0	3.0	3.0			3.0	Yes
7	USCS107	Soft Skill	3.0	3.0	3.0	3.0			3.0	Yes

Sem I: Average CO Attainment

2.9

FY BSC CS: Semester-II (AY-2020-21) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS201	Programming With C	3.0	3.0	3.0				3.0	Yes

POs and PSOs Attainment

Program Outcome

B. Sc Computer Science

2	USCS202	Python-II	1.7	3.0	3.0	3.0	3.0		2.7	Yes
3	USCS203	Linux	2.7	2.3	3.0	3.0	3.0		2.8	Yes
4	USCS204	Data Structure	3.0	2.3	2.3	2.3	2.7	3.0	2.6	Yes
5	USCS205	Calculus	3.0	2.3	3.0	3.0			2.8	Yes
6	USCS206	Statistical Methods & Testing of Hypothesis	2.3	1.7	3.0	3.0	3.0	3.0	2.7	Yes
7	USCS207	Green Technology	3.0	2.3	2.0	3.0	2.7	3.0	2.7	Yes

Sem II: Average CO Attainment	2.8
--------------------------------------	------------

SY BSC CS: Semester-III (AY-2021-22) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level					Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05		
1	USCS301	Theory of Computation	3.00	3.00	3.00	3.00		3.0	Yes
2	USCS302	Core Java	3.00	3.00	3.00	3.00	3.00	3.0	Yes
3	USCS303	Operating System	3.00	3.00				3.0	Yes
4	USCS304	Database Management Systems	3.00	3.00	3.00			2.3	Yes
5	USCS305	Combinatorics and Graph Theory	3.00	3.00	2.67			2.9	Yes
6	USCS306	Physical Computing and IoT Programming	3.00	3.00	3.00	3.00		3.0	Yes
7	USCS307	Web Programming	3.00	3.00	3.00	3.00	3.00	3.8	Yes

Sem III: Average CO Attainment	3.0
---------------------------------------	------------

SY BSC CS: Semester-IV (AY-2021-22) (Batch 2020-2023)

POs and PSOs Attainment

Program Outcome

B. Sc Computer Science

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level					Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04			
1	USCS401	Fundamentals of Algorithms	3.00	3.00				3.0	Yes
2	USCS402	Advanced Java	3.00	3.00				3.0	Yes
3	USCS403	Computer Networks	3.00	3.00				3.0	Yes
4	USCS404	Software Engineering	3.00	3.00	3.00			3.0	Yes
5	USCS405	Linear Algebra using Python	3.00	3.00	2.67			2.9	Yes
6	USCS406	Net Technologies	3.00	3.00	3.00	3.00		3.0	Yes
7	USCS407	Android Developer Fundamentals	3.00	3.00	3.00	3.00		2.0	Yes

Sem IV: Average CO Attainment	2.8
--------------------------------------	------------

TY BSC CS: Semester-V (AY-2022-23) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level					Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03				
1	USCS502	Linux Server Administration	3.0	3.0	3.0			3.0	Yes
2	USCS503	Software Testing and Quality Assurance	3.0	2.3	2.7			2.7	Yes
3	USCS504	Information and Network Security	2.3	3.0	3.0			2.8	Yes
4	USCS505	Architecting of IoT	3.0	2.7				2.8	Yes
5	USCS507	Game Programming	3.0					3.0	Yes

Sem V: Average CO Attainment

2.0

TY BSC CS: Semester-VI (AY-2022-23) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02						
1	USCS601	Wireless Sensor Networks and Mobile Communication	3.0	3.0					3.0	Yes
2	USCS603	Cyber Forensics	3.0						3.0	Yes
3	USCS604	Information Retrieval	3.0	3.0					3.0	Yes
4	USCS606	Data Science	2.7	3.0					2.8	Yes
5	USCS607	Ethical Hacking	2.7	3.0					2.8	Yes

Sem VI: Average CO Attainment

2.1

FY BSC CS: Semester-I (AY-2020-21) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS101	Computer Organization	3.0	2.7	3.0	2.7	3.0		2.9	Yes
2	USCS102	Python-I	2.7	2.7	3.0	3.0	3.0	3.0	2.9	Yes
3	USCS103	Free& Open Source	3.0	3.0	3.0	3.0	3.0		3.0	Yes
4	USCS104	Database Systems	3.0	3.0	3.0				3.0	Yes
5	USCS105	Discrete Mathematics	3.0	2.3	3.0	3.0	2.3		2.7	Yes
6	USCS106	Statistics	3.0	3.0	3.0	3.0			3.0	Yes
7	USCS107	Soft Skill	3.0	3.0	3.0	3.0			3.0	Yes

Sem I: Average CO Attainment

2.9

FY BSC CS: Semester-II (AY-2020-21) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS201	Programming With C	3.0	3.0	3.0				3.0	Yes
2	USCS202	Python-II	1.7	3.0	3.0	3.0	3.0		2.7	Yes
3	USCS203	Linux	2.7	2.3	3.0	3.0	3.0		2.8	Yes
4	USCS204	Data Structure	3.0	2.3	2.3	2.3	2.7	3.0	2.6	Yes
5	USCS205	Calculus	3.0	2.3	3.0	3.0			2.8	Yes
6	USCS206	Statistical Methods & Testing of Hypothesis	2.3	1.7	3.0	3.0	3.0	3.0	2.7	Yes
7	USCS207	Green Technology	3.0	2.3	2.0	3.0	2.7	3.0	2.7	Yes

Sem II: Average CO Attainment

2.8

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I					Subject	Computer Organization							Subject Code: USCS101				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc							
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5			
1	2021CS101	10	10	10	10	8	21		60				10	8	10	10	10		
2	2021CS102	10	10	10	10	8	22		63				10	8	10	10	10		
3	2021CS103	10	10	10	10	8		23	0				10	8	8	8	10		
4	2021CS104	8	8	10	10	8		21			70		10	8	8	8	8		
5	2021CS105	8	8	8	6	6		20			70		6	6	8	10	8		
6	2021CS106	8	5	8	6	10		0					6	10	9	8	8		
7	2021CS107	9	8	8	10	6	20		71				10	6	10	10	10		
8	2021CS108	10	10	10	10	8	20						10	8	10	10	10		
9	2021CS109	10	10	10	8	8	20		60				8	8	7	10	10		
10	2021CS110	7	10	10	8	8							8	8	8	6	8		
11	2021CS111	8	6	8	8	7	20			65			8	7	10	10	10		
Tot Marks		98	95	102	96	85	123	64	254	65	140		96	85	98	100	102		
Average Marks		8.91	8.64	9.27	8.73	7.73	24.6	12.8	50.8	13	28		8.73	7.73	8.91	9.09	9.27		
Average Attainment		89.1	86.4	92.7	87.3	77.3	123	64	254	65	140		87.3	77.3	89.1	90.9	92.7		
3 Point Scale Conversion		3	3	3	3	3	3	2	3	2	3		3	3	3	3	3		

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	3	3	3	3	3
2	Theory / Practical Semesters Exams	3	2	3	2	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3	3	3
	Average CO attainment	3.00	2.67	3.00	2.67	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I						Subject	Python-I						Subject Code: USCS102					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc						
		CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	
1	2021CS101	10	4	10	10	10	10	21				64		6	10	10	6	10	10	
2	2021CS102	10	6	10	6	10	8	21					70	10	10	10	10	10	10	
3	2021CS103	10	10	10	10	10	10		22				47	6	10	6	8	7	10	
4	2021CS104	6	8	7	6	10	9		23				65	6	9	8	8	8	7	
5	2021CS105	8	8	8	6	9	10			22		53		6	8	6	8	8	8	
6	2021CS106	6	8	8	6	8	10			21	24			6	9	8	8	8	8	
7	2021CS107	8	8	8	6	9	10		22		53			6	10	10	9	10	8	
8	2021CS108	10	9	10	6	10	10	22		68				6	10	6	5	10	10	
9	2021CS109	6	5	10	6	10	5		20					10	8	8	4	8	10	
10	2021CS110	8	4	8	10	8	8					45		6	10	8	4	10	8	
11	2021CS111	8	4	10	6	10	10		21					10	9	10	9		10	
Tot Marks		90	74	99	78	104	100	64	108	111	77	162	182	78	103	90	79	89	99	
Average Marks		8.18	6.73	9	7.09	9.45	9.09	10.7	18	18.5	12.8	27	30.3	7.09	9.36	8.18	7.18	8.09	9	
Average Attainment		81.8	67.3	90	70.9	94.5	90.9	64	108	111	77	162	182	70.9	93.6	81.8	71.8	80.9	90	
3 Point Scale Conversion		3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	

Scale	Parameter	CO01	CO02	CO03	CO04	CO05	CO06
1	Internal Test/Assessment	3	2	3	3	3	3
2	Theory / Practical Semesters Exams	2	3	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3	3	3	3
	Average CO attainment	2.67	2.67	3.00	3.00	3.00	3.00

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I					Subject	Free & Open Source							Subject Code: USCS103				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc							
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5			
1	2021CS101	10	10	10	10	10	20		68				10	9	9	10	7		
2	2021CS102	10	10	10	10	10	22			65			10	10	10	10	10		
3	2021CS103	10	10	10	10	10	22			68			10	10	9	4	6		
4	2021CS104	10	9	9	10	7		22			63		7	10	9	10	10		
5	2021CS105	10	10	10	10	10		21			70		10	10	10	10	10		
6	2021CS106	10	10	9	4	6		22			64		10	10	10	10	10		
7	2021CS107	7	10	9	10	10	22			70			9	10	8	9	10		
8	2021CS108	10	10	10	10	10	22						8	10	10	8	10		
9	2021CS109	10	10	10	10	10			20	65			10	10	10	10	10		
10	2021CS110	9	10	8	9	10			20	63			10	10	10	10	10		
11	2021CS111	8	10	10	8	10	20			65			10	10	10	10	10		
Tot Marks		104	109	105	101	103	128	65	108	396	197		104	109	105	101	103		
Average Marks		9.45	9.91	9.55	9.18	9.36	25.6	13	21.6	79.2	39.4		9.45	9.91	9.55	9.18	9.36		
Average Attainment		94.5	99.1	95.5	91.8	93.6	128	78	130	475	236		94.5	99.1	95.5	91.8	93.6		
3 Point Scale Conversion		3	3	3	3	3	3	3	3	3	3		3	3	3	3	3		

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	3	3	3	3	3
2	Theory / Practical Semesters Exams	3	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3	3	3
	Average CO attainment	3.00	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I					Subject	Database Systems							Subject Code: USCS104			
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams							Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02	CO03			CO01	CO02	CO03				CO01	CO02	CO03			
1	2021CS101	10	10	10			22	70				10	10	10				
2	2021CS102	8	10	10			23	68				10	9	10				
3	2021CS103	10	10	10			23	65				10	10	10				
4	2021CS104	7	9	8			20	70				8	10	10				
5	2021CS105	10	10	9			22	68				10	10	10				
6	2021CS106	8	10	8			21		65			7	9	8				
7	2021CS107	10	10	9			20		67			10	10	9				
8	2021CS108	10	10	10			23		69			8	10	8				
9	2021CS109	9	10	10			21		60			10	10	9				
10	2021CS110	10	10	10			22		60			10	10	10				
11	2021CS111	10	9	10			22		60			9	10	10				
Tot Marks		102	108	104			239	341	381			102	108	104				
Average Marks		9.27	9.82	9.45			79.7	114	127			9.27	9.82	9.45				
Average Attainment		92.7	98.2	94.5			398	682	762			92.7	98.2	94.5				
3 Point Scale Conversion		3	3	3			3	3	3			3	3	3				

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3	3	3
2	Theory / Practical Semesters Exams	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3
	Average CO attainment	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I					Subject	Discrete Mathematics					Subject Code: USCS105				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc					
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	
1	2021CS101	9	8	10	9	5		22	67				8	8	10	9	5
2	2021CS102	8	8	10	9	10		22	67				8	5	7	8	5
3	2021CS103	8	8	10	9	5		20	66				8	5	7	10	8
4	2021CS104	8	5	7	8	5		21			66		7	5	7	7	5
5	2021CS105	8	5	7	10	8		20			68		7	5	7	7	5
6	2021CS106	7	5	7	7	5		16			66		9	8	10	8	10
7	2021CS107	7	5	7	7	5	22				69		9	8	10	9	10
8	2021CS108	9	8	10	8	10	20			67			7	8	7	8	5
9	2021CS109	9	8	10	9	10	21			65			8	8	9	9	6
10	2021CS110	7	8	7	8	5	20			63			9	8	10	9	5
11	2021CS111	8	8	9	9	6	21			65			8	8	10	9	10
Tot Marks		88	76	94	93	74	104	121	200	260	269		88	76	94	93	74
Average Marks		8	6.91	8.55	8.45	6.73	20.8	24.2	40	52	53.8		8	6.91	8.55	8.45	6.73
Average Attainment		80	69.1	85.5	84.5	67.3	104	145	240	312	323		80	69.1	85.5	84.5	67.3
3 Point Scale Conversion		3	2	3	3	2	3	3	3	3	3		3	2	3	3	2

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	3	2	3	3	2
2	Theory / Practical Semesters Exams	3	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	2	3	3	2
	Average CO attainment	3.00	2.33	3.00	3.00	2.33
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I				Subject	Statistics						Subject Code: USCS106				
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04
1	2021CS101	10	10	10	10				23	67				10	8	10	10
2	2021CS102	10	10	10	10				23	71				10	8	10	10
3	2021CS103	10	10	10	10				22	65				10	9	8	8
4	2021CS104	10	10	8	8				20	70				10	10	7	9
5	2021CS105	10	9	7	8				23		68			10	10	10	10
6	2021CS106	10	9	7	8			21			65			10	10	10	10
7	2021CS107	6	9	7	8			22			65			10	10	10	10
8	2021CS108	10	8	10	10			22			67			10	10	8	8
9	2021CS109	10	8	10	10			21						10	9	7	8
10	2021CS110	10	9	8	8			20			62			10	9	7	8
11	2021CS111	10	10	7	9			22			63			6	9	7	8
Tot Marks		106	102	94	99			128	111	273	390			106	102	94	99
Average Marks		9.64	9.27	8.55	9			32	27.8	68.3	97.5			9.64	9.27	8.55	9
Average Attainment		96.4	92.7	85.5	90			160	167	410	585			96.4	92.7	85.5	90
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3	3	3	3
2	Theory / Practical Semesters Exams	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3	3
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-I				Subject	Soft Skills						Subject Code: USCS107				
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04
1	2021CS101	10	9	10	8			20			62			10	10	10	10
2	2021CS102	9	9	10	10			22			66			10	10	10	10
3	2021CS103	10	10	10	8			21			68			10	10	10	7
4	2021CS104	10	8	10	9			20			65			10	6	10	8
5	2021CS105	10	10	10	10			21			65			9	10	10	10
6	2021CS106	10	10	10	10				23	60			10	10	8	8	
7	2021CS107	10	10	10	7				22	63			8	10	10	8	
8	2021CS108	10	6	10	8				23	60			10	9	10	8	
9	2021CS109	9	10	10	10				20	60			9	9	10	10	
10	2021CS110	10	10	8	8				23	61			10	10	10	8	
11	2021CS111	8	10	10	8				20	65			10	8	10	9	
Tot Marks		106	102	108	96			104	131	369	326			106	102	108	96
Average Marks		9.64	9.27	9.82	8.73			26	32.8	92.3	81.5			9.64	9.27	9.82	8.73
Average Attainment		96.4	92.7	98.2	87.3			130	197	554	489			96.4	92.7	98.2	87.3
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3	3	3	3
2	Theory / Practical Semesters Exams	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3	3
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II					Subject	Programming With C							Subject Code: USCS201			
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams							Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02	CO03			CO01	CO02	CO03				CO01	CO02	CO03			
1	2021CS101	10	10	10			14	68				10	10	7				
2	2021CS102	9	10	9				59	18			9	10	6				
3	2021CS103	10	10	10			23		62			10	10	10				
4	2021CS104	10	10	6				56	22			10	10	8				
5	2021CS105	9	10	5			12	71				10	10	10				
6	2021CS106	10	10	6			11		71			8	10	7				
7	2021CS107	10	10	8			16	53				10	10	6				
8	2021CS108	10	10	10			14		66			10	10	10				
9	2021CS109	10	10	9				63	14			9	10	8				
10	2021CS110	8	10	7			17		72			10	10	10				
11	2021CS111	10	10	6			22	66				10	10	6				
Tot Marks		106	110	86			129	436	325			106	110	88				
Average Marks		9.64	10	7.82			43	145	108			9.64	10	8				
Average Attainment		96.4	100	78.2			215	872	650			96.4	100	80				
3 Point Scale Conversion		3	3	3			3	3	3			3	3	3				

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3	3	3
2	Theory / Practical Semesters Exams	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	3	3	3
	Average CO attainment	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II					Subject	Python-II						Subject Code: USCS202				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5		
1	2021CS101	6	10	10	10	10		20			72		6	8	10	8	10	
2	2021CS102	6	10	10	10	10	21			71		6	7	10	8	10		
3	2021CS103	6	10	10	10	10		23			72		4	4	8	4	8	
4	2021CS104	6	10	10	9	8	22			72		6	4	9	4	8		
5	2021CS105	6	8	10	4	6			15		75		6	10	10	10	10	
6	2021CS106	6	4	10	6	6		19		71		6	10	10	10	10		
7	2021CS107	6	4	4	6	6	18		53			6	10	10	10	10		
8	2021CS108	6	8	10	8	10		21			74		6	10	10	9	8	
9	2021CS109	6	7	10	8	10			18		59		6	8	10	4	6	
10	2021CS110	4	4	8	4	8	23			75		6	4	10	6	6		
11	2021CS111	6	4	9	4	8		20			75		6	4	4	6	6	
Tot Marks		64	79	101	79	92		84	103	86	289	427	0	64	79	101	79	92
Average Marks		5.82	7.18	9.18	7.18	8.36		16.8	20.6	17.2	57.8	85.4	0	5.82	7.18	9.18	7.18	8.36
Average Attainment		58.2	71.8	91.8	71.8	83.6		84	124	103	347	512	0	58.2	71.8	91.8	71.8	83.6
3 Point Scale Conversion		1	3	3	3	3		3	3	3	3	3	0	1	3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	1	3	3	3	3
2	Theory / Practical Semesters Exams	3	3	3	3	3
3	Projects/Seminar/Tour/Field Visits etc	1	3	3	3	3
	Average CO attainment	1.67	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	No	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II					Subject	Linux					Subject Code: USCS203				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc					
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	
1	2021CS101	10	10	10	10	10	20		74			10	10	10	10	10	
2	2021CS102	8	9	10	10	10			72		24	7	8	6	6	10	
3	2021CS103	10	10	10	10	10	17		74			10	10	10	10	10	
4	2021CS104	6	10	8	10	10		25			75	6	10	8	5	10	
5	2021CS105	6	10	5	5	6	20		75			6	10	8	5	10	
6	2021CS106	7	10	6	9	10			75		21	4	4	4	4	6	
7	2021CS107	7	8	6	6	10	24		54			4	8	8	8	10	
8	2021CS108	7	10	10	10	10	22			75		10	10	10	10	10	
9	2021CS109	6	10	8	5	10		21	75			8	9	10	10	10	
10	2021CS110	4	4	4	4	6	25		75			10	10	10	10	10	
11	2021CS111	4	8	8	8	10			75		20	6	10	8	10	10	
Tot Marks		75	99	85	87	102	128	46	649	75	140	81	99	92	88	106	
Average Marks		6.82	9	7.73	7.91	9.27	25.6	9.2	130	15	28	7.36	9	8.36	8	9.64	
Average Attainment		68.2	90	77.3	79.1	92.7	128	55.2	779	90	168	73.6	90	83.6	80	96.4	
3 Point Scale Conversion		2	3	3	3	3	3	1	3	3	3	3	3	3	3	3	

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	2.0	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	1.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0	3.0
	Average CO attainment	2.67	2.33	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II						Subject	Data Structure						Subject Code: USCS204					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc						
		CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	
1	2021CS101	10	10	10	6	10	9		19		66			9	10	10	8	10	9	
2	2021CS102	10	10	10	6	10	10	15					65	7	8	9	6	5	10	
3	2021CS103	10	4	4	7	7	10	21				69		10	4	4	6	5	10	
4	2021CS104	10	8	8	8	10	10		22				66	10	4	4	6	7	10	
5	2021CS105	7	6	6	6	6	10	13		66				10	6	6	6	8	10	
6	2021CS106	10	4	4	6	5	10	13			71			7	8	9	6	5	10	
7	2021CS107	7	8	9	6	5	10		20			33		10	4	4	6	5	10	
8	2021CS108	10	4	4	6	5	10	20		71				10	4	4	6	7	10	
9	2021CS109	10	4	4	6	7	10	11					66	10	6	6	6	8	10	
10	2021CS110	10	6	6	6	8	10		22			69		10	8	8	8	10	10	
11	2021CS111	8	7	9	7	6	8	17		30				7	6	6	6	6	10	
Tot Marks		102	71	74	70	79	107	110	83	167	137	171	197	100	68	70	70	76	109	
Average Marks		9.27	6.45	6.73	6.36	7.18	9.73	18.3	13.8	27.8	22.8	28.5	32.8	9.09	6.18	6.36	6.36	6.91	9.91	
Average Attainment		92.7	64.5	67.3	63.6	71.8	97.3	91.7	83	167	137	171	197	90.9	61.8	63.6	63.6	69.1	99.1	
3 Point Scale Conversion		3	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	2	3	

Scale	Parameter	CO01	CO02	CO03	CO04	CO05	CO06
1	Internal Test/Assessment	3.0	2.0	2.0	2.0	3.0	3.00
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0	3.0	3.00
3	Projects/Seminar/Tour/Field Visits etc	3.0	2.0	2.0	2.0	2.0	3.00
	Average CO attainment	3.00	2.33	2.33	2.33	2.67	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II				Subject		Calculus						Subject Code: USCS205					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04		
1	2021CS101	8	7	8	10				21		65			10	8	10	10		
2	2021CS102	8	7	8	8			22		68				9	4	6	8		
3	2021CS103	10	8	10	10				22		65			10	6	8	5		
4	2021CS104	9	4	6	8			22		68				6	7	6	4		
5	2021CS105	10	6	8	5			20		69				8	5	10	8		
6	2021CS106	6	7	6	4				17		68			8	7	8	10		
7	2021CS107	8	5	10	8			23		71				8	7	8	8		
8	2021CS108	10	7	10	10			20		69				8	7	8	8		
9	2021CS109	8	7	8	10				10		38			9	4	6	8		
10	2021CS110	8	7	8	8			21		69				10	6	8	5		
11	2021CS111	9	9	8	8				21		68			6	7	6	4		
Tot Marks		94	74	90	89			128	91	414	304			92	68	84	78		
Average Marks		8.55	6.73	8.18	8.09			32	22.8	104	76			8.36	6.18	7.64	7.09		
Average Attainment		85.5	67.3	81.8	80.9			160	137	621	456			83.6	61.8	76.4	70.9		
3 Point Scale Conversion		3	2	3	3			3	3	3	3			3	2	3	3		

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	2.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	2.0	3.0	3.0
	Average CO attainment	3.00	2.33	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)																			
FY BSC (CS)		Semester-II						Subject	Statistical Methods & Testing of Hypothesis						Subject Code: USCS206				
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06
1	2021CS101	9	8	8	9	10	10	20		72				10	7	10	7	8	8
2	2021CS102	10	7	10	9	9	9			74			22	9	9	8	8	10	8
3	2021CS103	10	8	10	9	10	9	22				72		9	4	6	7	8	7
4	2021CS104	10	7	10	7	8	8			74	22			9	8	8	9	10	10
5	2021CS105	10	7	9	7	7	7		18				75	10	7	10	9	9	9
6	2021CS106	9	4	6	7	8	7	12				75		10	8	10	9	10	9
7	2021CS107	10	4	9	8	4	8		19	75				10	7	10	7	8	8
8	2021CS108	10	7	10	7	8	8				74		19	9	4	6	7	8	7
9	2021CS109	10	7	9	7	7	7	11				75		9	4	6	7	8	7
10	2021CS110	10	7	10	7	8	8		19				75	10	4	9	8	4	8
11	2021CS111	9	9	8	8	10	8			72	19			10	7	10	7	8	8
Tot Marks		107	75	99	85	89	89	65	56	367	115	222	191	105	69	93	85	91	89
Average Marks		9.73	6.82	9	7.73	8.09	8.09	10.8	9.33	61.2	19.2	37	31.8	9.55	6.27	8.45	7.73	8.27	8.09
Average Attainment		97.3	68.2	90	77.3	80.9	80.9	54.2	56	367	115	222	191	95.5	62.7	84.5	77.3	82.7	80.9
3 Point Scale Conversion		3	2	3	3	3	3	1	1	3	3	3	3	3	2	3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04	CO05	CO06
1	Internal Test/Assessment	3.0	2.0	3.0	3.0	3.0	3.00
2	Theory / Practical Semesters Exams	1.0	1.0	3.0	3.0	3.0	3.00
3	Projects/Seminar/Tour/Field Visits etc	3.0	2.0	3.0	3.0	3.0	3.00
	Average CO attainment	2.33	1.67	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	No	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2020-21 (Batch 2020-2023)

FY BSC (CS)		Semester-II						Subject	Green Technology						Subject Code: USCS207					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc						
		CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	CO 01	CO 02	CO 03	CO 04	CO 05	CO 06	
1	2021CS101	10	10	7	7	10	9		13		65			6	9	7	8	7	8	
2	2021CS102	6	10	10	7	11	9	24			65			10	8	5	9	8	7	
3	2021CS103	7	10		7	12	9		17		68			10	10	7	7	10	9	
4	2021CS104	6	9	7	8	7	8	25				65		6	10	10	7	11	9	
5	2021CS105	10	8	5	9	8	7			13	65			10	10	10	7	17	9	
6	2021CS106	5	8	6	8		8			15		65		10	10	1	7	8	9	
7	2021CS107	10	8	8	8	7	9	18			66			6	9	4	8	9	6	
8	2021CS108	10	10	10	7	17	9			17		65		6	10	10	7	11	9	
9	2021CS109	10	10	1	7	8	9	12			65			7	10	9	7	12	9	
10	2021CS110	6	9	4	8	9	6		22			63		6	9	7	8	7	8	
11	2021CS111	6	8	4	9	6	6	17		65				10	8	5	9	8	7	
Tot Marks		86	100	62	85	95	89	96	52	110	329	65	258	87	103	75	84	108	90	
Average Marks		7.82	9.09	5.64	7.73	8.64	8.09	16	8.67	18.3	54.8	10.8	43	7.91	9.36	6.82	7.64	9.82	8.18	
Average Attainment		78.2	90.9	56.4	77.3	86.4	80.9	80	52	110	329	65	258	79.1	93.6	68.2	76.4	98.2	81.8	
3 Point Scale Conversion		3	3	1	3	3	3	3	1	3	3	2	3	3	3	2	3	3	3	

Scale	Parameter	CO01	CO02	CO03	CO04	CO05	CO06
1	Internal Test/Assessment	3.0	3.0	1.0	3.0	3.0	3.00
2	Theory / Practical Semesters Exams	3.0	1.0	3.0	3.0	2.0	3.00
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	2.0	3.0	3.0	3.00
	Average CO attainment	3.00	2.33	2.00	3.00	2.67	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes	Yes

SY BSC CS: Semester-III (AY-2021-22) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS301	Theory of Computation	3.00	3.00	3.00	3.00			3.0	Yes
2	USCS302	Core Java	3.00	3.00	3.00	3.00			3.0	Yes
3	USCS303	Operating System	3.00	3.00					3.0	Yes
4	USCS304	Database Management Systems	3.00	3.00	3.00				2.3	Yes
5	USCS305	Combinatorics and Graph Theory	3.00	3.00	2.67				2.9	Yes
6	USCS306	Physical Computing and IoT Programming	3.00	3.00	3.00	3.00			3.0	Yes
7	USCS307	Web Programming	3.00	3.00	3.00	3.00	3.00		3.8	Yes

Sem III: Average CO Attainment

3.0

SY BSC CS: Semester-IV (AY-2021-22) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03	CO04	CO05	CO06		
1	USCS401	Fundamentals of Algorithms	3.00	3.00					3.0	Yes
2	USCS402	Advanced Java	3.00	3.00					3.0	Yes
3	USCS403	Computer Networks	3.00	3.00					3.0	Yes
4	USCS404	Software Engineering	3.00	3.00	3.00	3.00			3.0	Yes
5	USCS405	Linear Algebra using Python	3.00	3.00	2.67				2.9	Yes
6	USCS406	Net Technologies	3.00	3.00	3.00	3.00			3.0	Yes
7	USCS407	Android Developer Fundamentals	3.00	3.00	3.00	3.00			2.0	Yes

Sem IV: Average CO Attainment

2.8

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																	
SY BSC (CS)		Semester-III				Subject		Theory of Computation						Subject Code: USCS301			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04			CO01	CO02	CO03	CO04
1	21601	6	7	9	8				25		72			6	9	6	8
2	21602	6	8	10	6				25		71			7	6	10	6
3	21603	9	6	6	7				25		71			8	10	6	9
4	21604	10	7	8	6				24		74			7	8	6	10
5	21605	6	9	6	8				24		69			9	6	7	8
6	21606	7	6	10	6			25			74			6	10	9	7
7	21607	8	10	6	9			22		71				8	7	6	10
8	21608	7	8	6	10			23		74				6	9	6	8
9	21609	9	6	7	8			25		74				7	6	10	6
10	21610	6	10	9	7			25		71				8	10	6	9
11	21611	8	7	6	10			25		74				7	8	6	10
Tot Marks		82	84	83	85			145	123	364	431			79	89	78	91
Average Marks		9.11	9.33	9.22	9.44			29	24.6	72.8	86.2			8.78	9.89	8.67	10.1
Average Attainment		91.1	93.3	92.2	94.4			145	148	437	517			87.8	98.9	86.7	101
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-III						Subject	Core Java						Subject Code: USCS302			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc				
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 6	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 6	CO0 1	CO0 2	CO03	CO04	
1	21601	10	10	8	10				25		74			10	10	10	10	
2	21602	9	10	7	10				23		75			7	10	7	9	
3	21603	8	5	6	9				25		75			6	6	6	8	
4	21604	9	5	6	6				25		75			5	7	5	7	
5	21605	6	5	6	6			25		65				10	5	10	9	
6	21606	6	9	6	8			25		74				6	5	6	7	
7	21607	7	6	10	6			25		75				7	7	7	7	
8	21608	8	10	6	9			25		75				6	5	6	7	
9	21609	7	8	6	10			25		72				5	6	5	7	
10	21610	9	6	7	8			25		75				6	9	6	8	
11	21611	6	10	9	7			25		74				7	6	10	6	
Tot Marks		85	84	77	89			175	98	445	364			75	76	78	85	
Average Marks		9.44	9.33	8.56	9.89			35	19.6	89	72.8			8.33	8.44	8.67	9.44	
Average Attainment		94.4	93.3	85.6	98.9			175	118	534	437			83.3	84.4	86.7	94.4	
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3	

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-III		Subject		Operating System						Subject Code: USCS303			
Sr No	Student Exam Seat Number	Internal Test/Assessment				Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO01	CO02			CO01	CO02	CO03					CO01	CO02	
1	21601	10	10			25	65					7	8		
2	21602	10	9			25	68					7	10		
3	21603	10	9			25	65					5	7		
4	21604	10	10			25	66					7	7		
5	21605	10	8			24	66					7	7		
6	21606	10	8			25	68					7	8		
7	21607	10	10			25	68					8	7		
8	21608	10	10			25	68					6	8		
9	21609	9	8			24	63					8	6		
10	21610	10	9			25	59					8	7		
11	21611	9	9			21	68					8	8		
Tot Marks		108	100			269	724					78	83		
Average Marks		12	11.1			89.7	241					8.67	9.22		
Average Attainment		120	111			448	1448					86.7	92.2		
3 Point Scale Conversion		3	3			3	3					3	3		

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																		
SY BSC (CS)		Semester-III					Subject	Database Management Systems							Subject Code: USCS304			
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams							Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02	CO03			CO01	CO02	CO03				CO01	CO02	CO03			
1	21601	7	7	7			25	72				10	8	10				
2	21602	8	7	7			24	72				8	7	9				
3	21603	7	7	7			25	74				6	5	7				
4	21604	8	7	7			23	74				5	6	6				
5	21605	7	7	7			24	74				10	7	8				
6	21606	8	7	7			25		72			5	6	6				
7	21607	7	7	7			25		74			10	10	10				
8	21608	8	7	7			25		74			5	5	6				
9	21609	7	7	7			24		72			6	5	6				
10	21610	8	7	7			25		71			7	8	5				
11	21611	7	7	7			25		74			7	8	6				
Tot Marks		82	77	77			270	366	437			79	75	79				
Average Marks		9.11	8.56	8.56			90	122	146			8.78	8.33	8.78				
Average Attainment		91.1	85.6	85.6			450	732	874			87.8	83.3	87.8				
3 Point Scale Conversion		3	3	3			3	3	3			3	3	3				

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-III					Subject	Combinatory and Graph Theory							Subject Code: USCS305			
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams							Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02	CO03			CO01	CO02	CO03				CO01	CO02	CO03			
1	21601	7	6	5			25	75				10	8	10				
2	21602	5	6	5			25	75				8	10	8				
3	21603	5	4	5			25	69				5	7	6				
4	21604	5	5	5			24	75				5	7	6				
5	21605	4	5	5			23	74				7	7	7				
6	21606	5	6	5			25		75			5	8	7				
7	21607	9	6	5			25		71			8	10	9				
8	21608	5	7	5			25		72			5	7	6				
9	21609	7	6	6			23		72			9	6	5				
10	21610	7	8	8			25		74			5	7	5				
11	21611	7	8	8			24		72			7	6	6				
Tot Marks		66	67	62			269	368	436			74	83	75				
Average Marks		7.33	7.44	6.89			89.7	123	145			8.22	9.22	8.33				
Average Attainment		73.3	74.4	68.9			448	736	872			82.2	92.2	83.3				
3 Point Scale Conversion		3	3	2			3	3	3			3	3	3				

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3.0	3.0	2.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	2.67
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																	
SY BSC (CS)		Semester-III				Subject		Physical Computing and IoT Programming						Subject Code: USCS306			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO0 1	CO0 2	CO0 3	CO0 4			CO01	CO02	CO03	CO04			CO0 1	CO0 2	CO03	CO04
1	21601	10	9	10	10			22		71				10	10	9	10
2	21602	10	8	10	9			24		71				10	10	10	9
3	21603	10	5	10	4			23		66				6	7	8	7
4	21604	10	6	10	8			23		71				5	7	8	7
5	21605	10	5	10	8			20		71				7	7	7	7
6	21606	9	5	10	8				25		71			7	8	8	7
7	21607	10	6	10	10				24		71			8	10	9	9
8	21608	10	5	10	85				25		71			5	5	6	7
9	21609	8	5	6	7				25		71			8	7	7	7
10	21610	9	7	8	8				24		71			9	8	8	7
11	21611	9	8	8	7				23		69			9	8	7	7
Tot Marks		105	69	102	164			112	146	350	424			84	87	87	84
Average Marks		11.7	7.67	11.3	18.2			28	36.5	87.5	106			9.33	9.67	9.67	9.33
Average Attainment		117	76.7	113	182			140	219	525	636			93.3	96.7	96.7	93.3
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-III					Subject	Web Programming					Subject Code: USCS307				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc					
		CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	CO0 1	CO0 2	CO0 3	CO0 4	CO0 5	
1	21601	10	8	10	10	10		25	72				10	8	10	10	10
2	21602	10	10	10	10	10		24	71				10	8	10	9	10
3	21603	9	10	6	9	6		24	69				7	7	8	7	6
4	21604	8	6	6	8	6		25	72				6	8	8	7	6
5	21605	9	6	6	9	6	24			71			8	7	8	7	6
6	21606	8	6	6	8	6	25			71			6	8	7	7	6
7	21607	10	10	8	10	8	25			72			8	8	8	8	8
8	21608	8	6	7	8	7	25			69			7	7	7	7	7
9	21609	8	10	7	6	7	24				65		8	7	7	7	7
10	21610	7	8	8	7	8	23				66		8	8	7	8	8
11	21611	7	7	7	8	7	25				72		9	9	8	7	7
Tot Marks		94	87	81	93	81	171	98	284	283	203		87	85	88	84	81
Average Marks		10.4	9.67	9	10.3	9	34.2	19.6	56.8	56.6	40.6		9.67	9.44	9.78	9.33	9
Average Attainment		104	96.7	90	103	90	171	118	341	340	244		96.7	94.4	97.8	93.3	90
3 Point Scale Conversion		3	3	3	3	3	3	3	3	3	3		3	3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04	CO05
1	Internal Test/Assessment	3.0	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-IV		Subject	Fundamentals of Algorithms							Subject Code: USCS401				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02				CO01	CO02				CO01	CO02			
1	21601	10	7				19	75				10	10			
2	21602	10	7				24	75				10	10			
3	21603	10	6				20	75				7	7			
4	21604	9	6				13	74				7	7			
5	21605	10	6				19	75				7	7			
6	21606	9	6				23	75				6	7			
7	21607	10	10				23	75				10	8			
8	21608	10	6				21	75				7	7			
9	21609	9	9				23	75				6	7			
10	21610	10	6				19	75				6	7			
11	21611	9	6				22	75				7	7			
Tot Marks		106	75				226	824				83	84			
Average Marks		11.8	8.33				113	412				9.22	9.33			
Average Attainment		118	83.3				565	2472				92.2	93.3			
3 Point Scale Conversion		3	3				3	3				3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																		
SY BSC (CS)		Semester-IV				Subject	Advanced Java							Subject Code: USCS402				
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02					CO01	CO02					CO01	CO02			
1	21601	10	10					21	75					10	7			
2	21602	10	10					23	75					8	7			
3	21603	10	10					21	75					7	7			
4	21604	10	10					16	74					7	7			
5	21605	10	10					22	75					7	7			
6	21606	10	10					23	75					7	7			
7	21607	10	10					24	75					8	7			
8	21608	10	10					21	75					6	7			
9	21609	10	10					22	75					8	7			
10	21610	10	10					20	75					7	8			
11	21611	10	10					21	75					8	8			
Tot Marks		110	110					234	824					83	79			
Average Marks		12.2	12.2					117	412					9.22	8.78			
Average Attainment		122	122					585	2472					92.2	87.8			
3 Point Scale Conversion		3	3					3	3					3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-IV		Subject		Computer Networks						Subject Code: USCS403			
Sr No	Student Exam Seat Number	Internal Test/Assessment				Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO01	CO02			CO01	CO02					CO01	CO02		
1	21601	10	10			21	69					8	8		
2	21602	10	10			20	71					7	8		
3	21603	8	10			18	74					7	8		
4	21604	6	8			17	72					6	8		
5	21605	8	10			16	72					7	8		
6	21606	6	8			19	72					7	8		
7	21607	10	10			23	69					8	8		
8	21608	6	9			24	72					6	8		
9	21609	8	10			24	72					6	8		
10	21610	9	9			20	72					6	6		
11	21611	9	8			22	72					6	7		
Tot Marks		90	102			224	787					74	85		
Average Marks		10	11.3			112	394					8.22	9.44		
Average Attainment		100	113			560	2361					82.2	94.4		
3 Point Scale Conversion		3	3			3	3					3	3		

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																			
SY BSC (CS)		Semester-IV				Subject	Software Engineering						Subject Code: USCS404						
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO0 1	CO0 2	CO0 3	CO0 4			CO01	CO02	CO03	CO04			CO0 1	CO0 2	CO03	CO04		
1	21601	10	8	10	10				19		72			10	8	10	10		
2	21602	10	10	10	10				24		75			10	8	10	9		
3	21603	9	10	6	9				23		74			7	7	8	7		
4	21604	8	6	6	8				15		75			6	8	8	7		
5	21605	9	6	6	9			22		74				8	7	8	7		
6	21606	8	6	6	8			25		74				6	8	7	7		
7	21607	10	10	8	10			23		72				8	8	8	8		
8	21608	8	6	7	8			22		72				7	7	7	7		
9	21609	8	10	7	6			24		75				8	7	7	7		
10	21610	10	10	8	10				18	72				7	7	7	7		
11	21611	8	6	7	8				24	75				8	7	7	7		
Tot Marks		98	88	81	96			116	123	514	296			85	82	87	83		
Average Marks		10.9	9.78	9	10.7			29	30.8	129	74			9.44	9.11	9.67	9.22		
Average Attainment		109	97.8	90	107			145	185	771	444			94.4	91.1	96.7	92.2		
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3		

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																			
SY BSC (CS)		Semester-IV				Subject	Linear Algebra using Python							Subject Code: USCS405					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02	CO03				CO01	CO02	CO03				CO01	CO02	CO03			
1	21601	10	10	7				20	74					10	8	9			
2	21602	10	10	7				18	74					10	8	9			
3	21603	9	8	7				20	69					7	8	7			
4	21604	10	2	8				14	71					6	8	7			
5	21605	10	8	7				22		75				8	8	7			
6	21606	9	8	5				24		72				7	8	7			
7	21607	10	10	7				23		69				10	8	10			
8	21608	10	8	3				22		74				6	8	8			
9	21609	10	8	3				24		71				6	8	6			
10	21610	10	8	2				21	72					7	8	7			
11	21611	9	8	5				23	75					10	8	10			
Tot Marks		107	88	61				231	435	361				87	88	87			
Average Marks		11.9	9.78	6.78				77	145	120				9.67	9.78	9.67			
Average Attainment		119	97.8	67.8				385	870	722				96.7	97.8	96.7			
3 Point Scale Conversion		3	3	2				3	3	3				3	3	3			

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3.0	3.0	2.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	2.67
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)																	
SY BSC (CS)		Semester-IV				Subject		Net Technologies						Subject Code: USCS406			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO0 1	CO0 2	CO0 3	CO0 4			CO01	CO02	CO03	CO04			CO0 1	CO0 2	CO03	CO04
1	21601	10	10	7	10				20		72			8	8	9	8
2	21602	10	10	7	10				22		68			7	8	9	8
3	21603	9	8	7	9				21		72			7	8	7	7
4	21604	10	6	8	10				15		65			5	5	6	7
5	21605	10	8	7	10				19		72			7	7	7	7
6	21606	9	8	5	9			24		72				6	7	7	6
7	21607	10	10	7	10			24		66				8	7	8	7
8	21608	10	8	7	10			23		72				5	7	7	7
9	21609	10	8	8	10			25		72				6	7	7	7
10	21610	10	8	7	10			16		72				7	7	7	7
11	21611	9	8	5	9			24		74				6	7	7	6
Tot Marks		107	92	75	107			136	97	428	349			72	78	81	77
Average Marks		11.9	10.2	8.33	11.9			34	24.3	107	87.3			8	8.67	9	8.56
Average Attainment		119	102	83.3	119			170	146	642	524			80	86.7	90	85.6
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2021-22 (Batch 2020-2023)

SY BSC (CS)		Semester-IV				Subject	Android Developer Fundamentals						Subject Code: USCS407				
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc			
		CO0 1	CO0 2	CO0 3	CO0 4			CO01	CO02	CO03	CO04			CO0 1	CO0 2	CO03	CO04
1	21601	10	10	6	6				14		74			10	8	9	10
2	21602	10	10	8	8				19		74			10	10	9	10
3	21603	10	8	8	8				14		74			7	7	7	8
4	21604	8	6	6	6				12		69			5	6	5	7
5	21605	8	6	8	8				13		74			7	6	7	7
6	21606	8	8	8	8			20		74				5	6	7	7
7	21607	8	10	8	8			19		74				8	8	8	8
8	21608	8	8	8	8			15		74				7	6	7	7
9	21609	6	10	8	8			18		74				7	6	7	7
10	21610	7	7	8	8			14		74				5	6	5	7
11	21611	7	7	8	9			18		74				7	6	7	7
Tot Marks		90	90	84	85			104	72	444	365			78	75	78	85
Average Marks		10	10	9.33	9.44			26	18	111	91.3			8.67	8.33	8.67	9.44
Average Attainment		100	100	93.3	94.4			130	108	666	548			86.7	83.3	86.7	94.4
3 Point Scale Conversion		3	3	3	3			3	3	3	3			3	3	3	3

Scale	Parameter	CO01	CO02	CO03	CO04
1	Internal Test/Assessment	3.0	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes	Yes

TY BSC CS: Semester-V (AY-2022-23) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level						Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02	CO03					
1	USCS502	Linux Server Administration	3.00	3.00	3.00				3.0	Yes
2	USCS503	Software Testing and Quality Assurance	3.00	2.33	2.67				2.7	Yes
3	USCS504	Information and Network Security	2.33	3.00	3.00				2.8	Yes
4	USCS505	Architecting of IoT	3.00	2.67					2.8	Yes
5	USCS507	Game Programming	3.00						3.0	Yes

Sem V: Average CO Attainment

2.0

TY BSC CS: Semester-VI (AY-2022-23) (Batch 2020-2023)

Course Outcomes (CO)

Sr No	Course Code	Subject	CO Attainment Level					Average CO Attainment	Attained YES/NO Target Level: 2.0
			CO01	CO02					
1	USCS601	Wireless Sensor Networks and Mobile Communication	3.00	3.00				3.0	Yes
2	USCS603	Cyber Forensics	3.00					3.0	Yes
3	USCS604	Information Retrieval	3.00	3.00				3.0	Yes
4	USCS606	Data Science	2.67	3.00				2.8	Yes
5	USCS607	Ethical Hacking	2.67	3.00				2.8	Yes

Sem VI: Average CO Attainment

2.1

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)

TY BSC (CS)		Semester-V						Subject	Linux Server Administration						Subject Code: USCS502			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02	CO03				CO01	CO02	CO03				CO01	CO02	CO03		
1	22701	10	10	10				16	46				10	10	9			
2	22702	10	10	10				16	32				10	10	9			
3	22703	9	6	10				14	30				9	9	9			
4	22704	10	7	10				20	53				9	9	9			
5	22705	7	6	10				14		33			8	9	9			
6	22706		10	10				15		32			8	8	8			
7	22707	10	10	10				17		52			8	8	8			
8	22708	10	10	10				16		38			7	7	8			
9	22709	10	10	10				19		37			9	8	8			
10	22710	10		10				13	30				7	7	8			
11	22711	10	8	10				17	30				6	7	7			
Tot Marks		96	87	110				177	221	192			91	92	92			
Average Marks		10.7	9.67	12.2				59	73.7	64			10.1	10.2	10.2			
Average Attainment		107	96.7	122				295	442	384			101	102	102			
3 Point Scale Conversion		3	3	3				3	3	3			3	3	3			

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	3.00	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																			
TY BSC (CS)		Semester-V				Subject		Software Testing and Quality Assurance						Subject Code: USCS503					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02	CO03				CO01	CO02	CO03				CO01	CO02	CO03			
1	22701	5	6	6					20	41				10	10	10			
2	22702	6		6					11	42				10	10	10			
3	22703	6		6					15	41				9	9	9			
4	22704	4	5	4					20	46				9	9	9			
5	22705		5	6					13	36				8	9	9			
6	22706		5	6					14	41				8	8	8			
7	22707	5	6	6				15		48				8	8	8			
8	22708	6	6	6				15		38				3	7	7			
9	22709	6	6	6				21		32				9	9	9			
10	22710	10	4	4				10		30				6	7	7			
11	22711	6	5	6				12		30				6	6	6			
Tot Marks		54	48	62				73	93	425				86	92	92			
Average Marks		6	5.33	6.89				24.3	31	142				9.56	10.2	10.2			
Average Attainment		60	53.3	68.9				122	186	850				95.6	102	102			
3 Point Scale Conversion		2	1	2				3	3	3				3	3	3			

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	3.0	1.0	2.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	3.00	2.33	2.67
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																			
TY BSC (CS)		Semester-V			Subject			Information and Network Security						Subject Code: USCS504					
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02	CO03				CO01	CO02	CO03				CO01	CO02	CO03			
1	22701	5		6				20	44					10	9	10			
2	22702	4	6	10				14	38					10	9	9			
3	22703	4	8	10				15	43					9	9	9			
4	22704	5	6	8				20	48					9	8	8			
5	22705		10					15	43					9	8	8			
6	22706	5	10	10				15		40				8	8	8			
7	22707	5	10	4				15		52				8	8	8			
8	22708	4		8				14		44				7	8	9			
9	22709	5	10	8				19		41				9	9	9			
10	22710	4	10	10				11		44				7	7	2			
11	22711	10	10	10				13		30				6	7	6			
Tot Marks		51	80	84				171	216	251				92	90	86			
Average Marks		5.67	8.89	9.33				57	72	83.7				10.2	10	9.56			
Average Attainment		56.7	88.9	93.3				285	432	502				102	100	95.6			
3 Point Scale Conversion		1	3	3				3	3	3				3	3	3			

Scale	Parameter	CO01	CO02	CO03
1	Internal Test/Assessment	1.0	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0	3.0
	Average CO attainment	2.33	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																			
TY BSC (CS)		Semester-V				Subject	Architecting of IoT						Subject Code: USCS505						
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc					
		CO01	CO02					CO01	CO02	CO03					CO01	CO02			
1	22701	8	9					19	49					9	10				
2	22702	10	5					15	30					10	9				
3	22703	8	5					13	37					9	9				
4	22704	10	5					19	44					8	9				
5	22705	10	6					11	31					8	9				
6	22706	10	7					13	33					7	8				
7	22707	10	4					14	30					8	9				
8	22708	10	4					13	33					7	7				
9	22709	10	4					14	35					8	9				
10	22710	10	4					12	30					7	8				
11	22711	10	4					12	22					7	7				
Tot Marks		106	57					155	374					88	94				
Average Marks		11.8	6.33					77.5	187					9.78	10.4				
Average Attainment		118	63.3					388	1122					97.8	104				
3 Point Scale Conversion		3	2					3	3					3	3				

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	2.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	2.67
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)															
TY BSC (CS)		Semester-V				Subject	Game Programming					Subject Code: USCS507			
Sr No	Student Exam Seat Number	Internal Test/Assessment				Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc				
		CO01				CO01					CO01				
1	22701	8				44					10				
2	22702	8				41					10				
3	22703	8				40					10				
4	22704	8				49					9				
5	22705	6				30					9				
6	22706	6				34					9				
7	22707	8				54					9				
8	22708	8				30					8				
9	22709	8				31					9				
10	22710	6				30					8				
11	22711	6				23					8				
Tot Marks		80				406					99				
Average Marks		8.89				203					11				
Average Attainment		88.9				102					110				
3 Point Scale Conversion		3				3					3				

Scale	Parameter	CO01
1	Internal Test/Assessment	3.0
2	Theory / Practical Semesters Exams	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0
	Average CO attainment	3.00
	Attained (YES/NO) Target Level: 2	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																
TY BSC (CS)		Semester-VI			Subject	Wireless Sensor Networks and Mobile Communication						Subject Code: USCS601				
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02				CO01	CO02				CO01	CO02			
1	22701	10	9				59	21				10	10			
2	22702	10	8				38	21				10	9			
3	22703	10	10				30	18				10	9			
4	22704	10	10				40	17				9	9			
5	22705	10	9				31	17				9	9			
6	22706		9				33	18				9	8			
7	22707		8				41	20				9	9			
8	22708		10				35	21				8	7			
9	22709	10	10				36	18				9	9			
10	22710	10	9				33	14				8	8			
11	22711		10				32	14				8	7			
Tot Marks		70	102				408	199				99	94			
Average Marks		7.78	11.3				204	99.5				11	10.4			
Average Attainment		77.8	113				1020	597				110	104			
3 Point Scale Conversion		3	3				3	3				3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																	
TY BSC (CS)		Semester-VI			Subject	Cyber Forensics					Subject Code: USCS603						
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc					
		CO01					CO01					CO01					
1	22701	5					51						10				
2	22702	5					31						10				
3	22703	5					31						9				
4	22704	5					40						9				
5	22705	5					30						9				
6	22706	10					30						8				
7	22707	10					35						8				
8	22708	10					31						7				
9	22709	10					30						9				
10	22710	10					30						7				
11	22711	5					30						6				
Tot Marks		80					369						92				
Average Marks		8.89					369						10.2				
Average Attainment		88.9					369						102				
3 Point Scale Conversion		3					3						3				

Scale	Parameter	CO01
1	Internal Test/Assessment	3.0
2	Theory / Practical Semesters Exams	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0
	Average CO attainment	3.00
	Attained (YES/NO) Target Level: 2	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																
TY BSC (CS)		Semester-VI				Subject	Information Retrieval							Subject Code: USCS604		
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02				CO01	CO02				CO01	CO02			
1	22701	6	7				53	21				10	10			
2	22702	6	8				33	17				10	10			
3	22703	5	6				50	21				10	9			
4	22704	6	6				63	20				9	9			
5	22705	5	6				35	15				9	9			
6	22706	6	6				31	15				9	8			
7	22707	8	7				62	18				9	8			
8	22708	6	7				35	14				8	7			
9	22709	5	6				31	14				9	9			
10	22710	5	7				30	11				8	7			
11	22711	7					17	10				6	6			
Tot Marks		65	66				440	176				97	92			
Average Marks		7.22	7.33				220	88				10.8	10.2			
Average Attainment		72.2	73.3				1100	440				108	102			
3 Point Scale Conversion		3	3				3	3				3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	3.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	3.00	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																
TY BSC (CS)		Semester-VI				Subject	Data Science								Subject Code: USCS606	
Sr No	Student Exam Seat Number	Internal Test/Assessment					Theory / Practical Semesters Exams					Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02				CO01	CO02				CO01	CO02			
1	22701	10	8				61	21				9	10			
2	22702		8				38	18				9	9			
3	22703	6	4				48	20				9	9			
4	22704		8				45	20				8	8			
5	22705		6				41	16				8	8			
6	22706	10	8				42	14				8	8			
7	22707	10	8				34	20				8	8			
8	22708	8	8				33	16				8	9			
9	22709	10	6				49	19				9	9			
10	22710	4	8				30	12				7	7			
11	22711	4	4				30	12				7	6			
Tot Marks		62	76				451	188				90	91			
Average Marks		6.89	8.44				226	94				10	10.1			
Average Attainment		68.9	84.4				1128	470				100	101			
3 Point Scale Conversion		2	3				3	3				3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	2.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	2.67	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes

Course Outcomes (CO) and CO Attainment Level for AY-2022-23 (Batch 2020-2023)																		
TY BSC (CS)		Semester-VI				Subject	Ethical Hacking								Subject Code: USCS607			
Sr No	Student Exam Seat Number	Internal Test/Assessment						Theory / Practical Semesters Exams						Projects/Seminar/Tour/Field Visits etc				
		CO01	CO02					CO01	CO02					CO01	CO02			
1	22701	8	10					52	21					10	10			
2	22702	8	9					40	21					10	9			
3	22703	8	9					52	21					10	10			
4	22704	7	8					58	22					9	9			
5	22705	7	8					30	16					9	9			
6	22706		7					30	16					8	9			
7	22707		7					30	20					8	9			
8	22708		7					31	14					8	9			
9	22709	7	8					33	21					9	9			
10	22710	7	8					43	13					8	7			
11	22711	6	7					32	12					7	7			
Tot Marks		58	88					431	197					96	97			
Average Marks		6.44	9.78					216	98.5					10.7	10.8			
Average Attainment		64.4	97.8					1078	493					107	108			
3 Point Scale Conversion		2	3					3	3					3	3			

Scale	Parameter	CO01	CO02
1	Internal Test/Assessment	2.0	3.0
2	Theory / Practical Semesters Exams	3.0	3.0
3	Projects/Seminar/Tour/Field Visits etc	3.0	3.0
	Average CO attainment	2.67	3.00
	Attained (YES/NO) Target Level: 2	Yes	Yes