

2025 Fall CSE Elective List

A	B	C	D	E	F	G	H	I	J
1	OFFERED	Course Code	Course Title	Course Outline	Remarks	Prerequisite	Initial	Faculty Name	Faculty Email
2	AT LEAST ONE COURSE MUST BE DONE FROM CSE; OTHERS CAN BE FROM ANY DEPARTMENT AS LONG AS THEY ARE VALID TO BE TAKEN -> <TBA>								The faculty list only talks about possible faculties taking the course. It does not represent the number of sections. It does not mean all faculties are taking courses
3	1	INACTIVE	CSE310	Object-Oriented Programming		CSE370	ADR	Mr. Md. Abdur Rahman	abdur.rahman@bracu.ac.bd
4	2	INACTIVE	CSE390	Technical Communication	Click	FDC	Dr. Farida Chowdhury	farida.chowdhury@bracu.ac.bd	
5	3	ACTIVE	CSE391	Programming for the Internet	Click	CSE370	ADR	Mr. Md. Abdur Rahman	abdur.rahman@bracu.ac.bd
6	40	ACTIVE	CSE419	Programming Languages and Competitive Programming		IBA	Mr. Md. Imran Bin Azad	imran.azad@bracu.ac.bd	
7	5	ACTIVE	CSE424	Pattern Recognition	Click	AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd	
8	7	ACTIVE	CSE425	Neural Network		MSH	Mr. Md Sabbir Hossain	ext.sabir.hossain@bracu.ac.bd	
10	8	ACTIVE	CSE426	Advanced Algorithms		MMM	Mr. Moi Mostakim	mostakim@bracu.ac.bd	
11	9	ACTIVE	CSE427	Machine Learning		CMR	Mr. Mirza Md. Tanjim Shorif Mugdho	farhan.feroz@bracu.ac.bd	
12	10	ACTIVE	CSE428	Image Processing		SDQ	Mr. Md. Saiful Bari Siddiqui	saiful.bari@bracu.ac.bd	
13	12	ACTIVE	CSE437	Data Science: Coding With Real-World Data		RRH	Mr. Rafeed Rahman	rahman.rafeed@bracu.ac.bd	
15	13	INACTIVE	CSE438	Applied Data Science for Practitioners		GRA	Dr. Md. Golam Rabiu Alam	rabiul.alam@bracu.ac.bd	
16	14	INACTIVE	CSE439	Machine Vision		AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd	
17	17	INACTIVE	CSE442	Natural Language Processing (NLP) II		AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd	
19	17	INACTIVE	CSE446	Natural Language-Driven UI/UX (NLI / NLUX / NLUI)	Click	MSH	Mr. Md Sabbir Hossain	ext.sabir.hossain@bracu.ac.bd	
21	19	ACTIVE	CSE446	Blockchain and Cryptocurrencies	Click	SDF/MSF	Dr. Md Sadek Ferdous	sadek.ferdous@bracu.ac.bd	
22	20	ACTIVE	CSE447	Cryptography and Cryptoanalysis	Click	MIH	Dr. Muhammad Iqbal Hossain	iqbal.hossain@bracu.ac.bd	
23	21	ACTIVE	CSE449	Parallel, Distributed, and High-performance Computing (HPC)	Click	AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd	
24	22	INACTIVE	CSE450	Advanced Competitive Programming		CSE221 50+ problem solved on online judges	KKP	Mr. Kabbya Kantam Patwary	kabbya.kantam@bracu.ac.bd
25	23	ACTIVE	CSE472	Human Computer Interface		FDC	Dr. Farida Chowdhury	jannatun.noor@bracu.ac.bd	
26	24	INACTIVE	CSE474	Simulation and Modeling		IBU	Ipsita Bonhi Upoma	ipsita.upoma@bracu.ac.bd	
27	25	ACTIVE	CSE481	Quantum Computing I		SDS	Mr. Shadman Shahriar	shadman.shahriar@bracu.ac.bd	
28	59	INACTIVE	CSE482	Quantum Computing II		JMD	Mr. Jishnu Mahmud	jishnu.mahmud@bracu.ac.bd	
29	27	INACTIVE	CSE484	Cloud Computing		CSE321	JNM	Dr. Jannatun Noor Mukta	jannatun.noor@bracu.ac.bd
30	28	ACTIVE	CSE489	Android App Development	Click	CSE370	ADR	Mr. Md. Abdur Rahman	abdur.rahman@bracu.ac.bd
31	29	ACTIVE	CSE490A	Special Topics		MSA	Dr. Matin Saad Abdullah	mabdullah@bracu.ac.bd	
32	30	INACTIVE	CSE496	Ethical hacking	Click	TBA			
33	31	ACTIVE	CSE250	CIRCUITS AND ELECTRONICS		Regular course faculties			
34	32	ACTIVE	CSE251	ELECTRONIC DEVICES AND CIRCUITS		CSE250	Regular course faculties		
35	33	ACTIVE	CSE320	DATA COMMUNICATIONS			Regular course faculties		
36	34	ACTIVE	CSE341	MICROPROCESSORS			Regular course faculties		
37	35	ACTIVE	CSE350	DIGITAL ELECTRONICS AND PULSE TECHNIQUES		CSE251	Regular course faculties		
38	36	ACTIVE	CSE360	COMPUTER INTERFACING		CSE341	Regular course faculties		
39	37	ACTIVE	CSE460	VLSI DESIGN		CSE260	Regular course faculties		
40	38	ACTIVE	CSE461	INTRODUCTION TO ROBOTICS		CSE260	Regular course faculties		
41	39	ACTIVE	CSE471	SYSTEM ANALYSIS AND DESIGN		CSE370	Regular course faculties		
42	40	ACTIVE	CSE402	Optimization		SDAS	Sowmitra Das	sowmitra.das@bracu.ac.bd	
43	41	ACTIVE	CSE430	Digital Signal Processing			Mr. Ehtashamul Haque		
44	9	INACTIVE	CSE431	Natural Language Processing	Click	AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd	
45	43	INACTIVE	CSE433	Machine Learning for Healthcare					
46	44	INACTIVE	CSE434	Machine Learning for Finance					
47	45	INACTIVE	CSE435	Reinforcement Learning					
48	46	INACTIVE	CSE435	Data Visualization					
49	47	INACTIVE	CSE441	Machine Learning II					
50	48	ACTIVE	CSE443	Bioinformatics I		SWK	Dr. Swakkhar Shatabda		
51	49	INACTIVE	CSE444	Bioinformatics II					
52	50	INACTIVE	CSE445	Statistical Data Analysis					
53	51	INACTIVE	CSE451	Network Science and Models					
54	52	INACTIVE	CSE452	Computability and Complexity Theory					
55	53	INACTIVE	CSE453	Theory of Computation II					
56	54	INACTIVE	CSE454	Advanced Complexity Theory					
57	55	INACTIVE	CSE455	Topics in Theoretical Computer Science					
58	56	INACTIVE	CSE456	Design and Analysis of Algorithms					
59	57	INACTIVE	CSE457	Randomized Algorithms		MHB			
60	58	INACTIVE	CSE458	Quantum Complexity Theory					
61	59	INACTIVE	CSE459	Introduction to Computational Molecular Biology					
62	60	INACTIVE	CSE483	Software Engineering II					
63	61	INACTIVE	CSE485	Advanced Cloud Computing					
64	62	INACTIVE	CSE486	WAN Routing and Technologies					
65	63	INACTIVE	CSE486	LAN Switching and WAN Technologies	or, as EEE453 (COD/COMA/elective)	SKZ	Dr. Sadia Hamid Kazi	skazi@bracu.ac.bd	
66	64	INACTIVE	CSE487	Web Services					
67	65	INACTIVE	CSE488	Serverless and Microservices					
68	66	INACTIVE	CSE492	iOS App Development					
69	67	INACTIVE	CSE493	Enterprise and Software Architecture					
70	68	INACTIVE	CSE494	Advanced Robotics					
71	69	INACTIVE	CSE495	Internet of Things (IoT)		ACH	Dr. Amitabha Chakrabarty	amitabha@bracu.ac.bd	
72	70	INACTIVE	CSE497	Computational Cognitive Science					
73	71	INACTIVE	CSE498	Advanced Graphics					
74	72	INACTIVE	CSE499	E-commerce					
75	73	INACTIVE	CSE500	Ethics of Data in Social Context					
76	74	INACTIVE	CSE502	Scientific and Engineering Innovation: Moving Ideas to Impact					
77	75	INACTIVE	CSE503	Project Engineering for Computer Science					
78	76	INACTIVE	CSE504	Workshop for Entrepreneurs and Innovators in the Physical and Computer Sciences					
79	77	INACTIVE	CSE505	Patents, Copyrights, and Intellectual Property Law for Physical and Computer Scientists					
80	78	INACTIVE	CSE506	Ethics for Engineers and Scientists					
81	79	INACTIVE	CSE507	Introduction to Design Thinking and Innovation in Engineering					
82	80	INACTIVE	CSE586	Advanced Web Development					
83	77	INACTIVE	CSE342	Computer System Engineering					
84	78	INACTIVE	CSE392	Signals and Systems					
85	79	INACTIVE	CSE410	Advanced Programming in UNIX					
86	80	INACTIVE	CSE429	Basic Multimedia Theory					
87	81	ACTIVE	CSE463	Computer Vision: Fundamentals and Applications		ASA	Dr. Md. Ashraful Alam		
88	82	INACTIVE	CSE432	Speech Recognition and Synthesis					
89	83	INACTIVE	CSE462	Fault Tolerance System					
90	84	INACTIVE	CSE473	Financial Engineering & Technology					