

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		ACTIVE	CSE424	Pattern Recognition	Click			AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd
8	5	ACTIVE						MSH	Mr. Md Sabbir Hossain	ext.sabbir.hossain@bracu.ac.bd
9	7	ACTIVE	CSE425	Neural Network				MMM	Mr. Moin Mostakim	mostakim@bracu.ac.bd
10	8	ACTIVE	CSE426	Advanced Algorithms					Mr. Mirza Md. Tanjim Shorif Mugdho	farhan.feroz@bracu.ac.bd
11	9	ACTIVE	CSE427	Machine Learning				CMR	Dr. Chowdhury Mofizur Rahman	rahman.mofizur@bracu.ac.bd
12	10	ACTIVE	CSE428	Image Processing				SDQ	Mr. Md. Saiful Bari Siddiqui	saiful.bari@bracu.ac.bd
13		ACTIVE						RRH	Mr. Rafeed Rahman	rahman.rafeed@bracu.ac.bd
14	12	ACTIVE	CSE437	Data Science: Coding With Real-World Data				GRA	Dr. Md. Golam Rabiul Alam	rabiul.alam@bracu.ac.bd
15	13	INACTIVE	CSE438	Applied Data Science for Practitioners				AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd
16	14	INACTIVE	CSE439	Machine Vision				AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd
17		INACTIVE						MJA	Mr. Md. Jahin Alam	jahin.alam@bracu.ac.bd
18	16	ACTIVE	CSE440	Natural Language Processing (NLP) II				FYS/FRS	Dr. Farig Yousuf Sadeque	farig.sadeque@bracu.ac.bd
19	17	INACTIVE	CSE442	Natural Language-Driven UI/UX (NLI / NLUX / NLUI)				AAR	Mr. Annajiat Alim Rasel	annajiat@bracu.ac.bd
20		INACTIVE						MSH	Mr. Md Sabbir Hossain	ext.sabbir.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 Cryptanalysis	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	Ipshita Bonhi Upoma	ipshita.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 Langauge 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						