



**List of Courses Offered from
Department of Computer Science and Engineering (CSE)**

Level 1 Semester I

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 101		Fundamentals of Computer and Computing	2.00
	2.	CSE 102		Fundamentals of Computer and Computing Sessional	0.75
	3.	CSE 103		Discrete Mathematics	3.00
B.Sc. in CSE Session: 2004-2016	4.	CSE 101	CIT 101	Structured Programming Language	3.00
	5.	CSE 102	CIT 102	Structured Programming Language Sessional	1.50
B.Sc. in ECE Session: 2017-Onwards	6.	CSE 107		Computer Basics and Programming	2.00
	7.	CSE 108		Computer Basics and Programming Sessional	1.50
B.Sc. in ECE Session: 2006-2016	8.	CSE 107	CIT 105	Basic Information Technology	3.00
	9.	CSE 108	CIT 106	Basic Information Technology Sessional	1.50
B.Sc. (Hons.) in Statistics	10.	CSE 132	CEN 116	Fundamental of Computer Sessional	2.00
B.A. (Hons.) in English	11.	CSE 133	CIT 107	Introduction to Computer	3.00
	12.	CSE 134	CIT 108	Introduction to Computer Sessional	1.00
B.S.S. (Hons.) in Economics	13.	CSE 135	CEN 107	Introduction to Computer	3.00
	14.	CSE 136	CEN 108	Introduction to Computer Sessional	1.00
B.S.S. (Hons.) in Sociology	15.	CSE 137	CIT 121	Introduction to Computing and IT	3.00
	16.	CSE 138	CIT 122	Introduction to Computing and IT Sessional	1.00



কম্পিউটার সায়েন্স এন্ড ইঞ্জিনিয়ারিং বিভাগ
হাজী মোহাম্মদ দানেশ বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়, দিনাজপুর

Level 1 Semester II

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 151		Structured Programming Language	3.00
	2.	CSE 152		Structured Programming Language Sessional	1.50
	3.	CSE 153		Digital Logic Design	3.00
	4.	CSE 154		Digital Logic Design Sessional	1.50
B.Sc. in CSE Session: 2004-2016	5.	CSE 151	CIT 103	Object Oriented Programming	2.00
	6.	CSE 152	CIT 104	Object Oriented Programming(C++) Sessional	1.50
	7.	CSE 153	CEN 101	Discrete Mathematics	3.00
B.Sc. in ECE Session: 2006-2016	8.	CSE 159	CIT 113	Computer Programming	3.00
	9.	CSE 160	CIT 114	Computer Programming Sessional	1.50
	10.	CSE 161	CIT 115	Discrete Mathematics and Numerical Analysis	3.00
B.Sc. in EEE	11.	CSE 163	CIT 117	Computer Programming	3.00
	12.	CSE 164	CIT 118	Computer Programming Sessional	1.50
B.Sc. (Hons.) in Agriculture (Elective Course)	13.	CSE 171	CIT 109	Computer Science	2.00
	14.	CSE 172	CIT 110	Computer Science Sessional	2.00
B.Sc. (Hons.) in Agriculture and Agribusiness	15.	CSE 173	CIT 119	Computer Application	2.00
	16.	CSE 174	CIT 120	Computer Application Sessional	2.00
B.Sc. (Hons.) in Fisheries (Elective Course)	17.	CSE 175	CIT 111	Computer Science	2.00
B.Sc. in FPE	18.	CSE 177	CEN 103	Computer Applications I	2.00
	19.	CSE 178	CEN 104	Computer Applications I Sessional	1.00
B.Sc. in AE	20.	CSE 179	CEN 105	Computer Applications I	2.00
	21.	CSE 180	CEN 106	Computer Applications I Sessional	1.00
B.Sc. (Hons.) in Statistics	22.	CSE 182	CIT 132	Computer Programming (Lab)	2.00
B.A. (Hons.) in English	23.	CSE 183	CEN 121	Database Management & Programming	3.00
	24.	CSE 184	CEN 122	Database Management & Programming Sessional	2.00



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Level 2 Semester I

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 201		Object Oriented Programming	3.00
	2.	CSE 202		Object Oriented Programming(C++) Sessional	1.50
	3.	CSE 203		Data Structures	3.00
	4.	CSE 204		Data Structures Sessional	1.50
	5.	CSE 205		Numerical Methods	3.00
	6.	CSE 206		Numerical Methods Sessional	0.75
B.Sc. in CSE Session: 2004-2016	7.	CSE 201	CIT 201	Data Structures	3.00
	8.	CSE 202	CIT 202	Data Structures Sessional	0.75
	9.	CSE 203	CEN 201	Digital Logic Design	3.00
	10.	CSE 204	CEN 202	Digital Logic Design Sessional	1.50
	11.	CSE 205	CEN 203	Numerical Methods	3.00
B.Sc. in ECE Session: 2017-Onwards	12.	CSE 211		Data Structures and Algorithms	3.00
	13.	CSE 212		Data Structures and Algorithms Sessional	1.50
B.Sc. in ECE Session: 2006-2016	14.	CSE 211	CIT 219	Data Structure and Algorithms	3.00
	15.	CSE 212	CIT 220	Data Structure and Algorithms Sessional	1.50
	16.	CSE 213	CEN 211	Digital Electronic & Logic Design	3.00
	17.	CSE 214	CEN 212	Digital Electronic & Logic Design Sessional	0.75
B.Sc. (Hons.) in Chemistry	18.	CSE 232	CIT 232	Computing and IT in Chemistry Sessional	2.00
B.Sc. (Hons.) in Physics	19.	CSE 233	CIT 233	Computer Programming Language I	3.00
	20.	CSE 234	CIT 234	Computer Programming Language I Sessional	1.00
B.Sc. (Hons.) in Mathematics	21.	CSE 235	CIT 235	Programming with C, C++	2.00
	22.	CSE 236	CIT 236	Programming with C, C++ Sessional	1.00
B.A.(Hons.) in English	23.	CSE 237	CEN 207	Web Technology and E-commerce	2.00
	24.	CSE 238	CEN 208	Web Technology and E-commerce Sessional	1.00
B.S.S. (Hons.) in Economics	25.	CSE 239	CIT 225	Database Systems	2.00
	26.	CSE 240	CIT 226	Database Systems Sessional	1.00



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Level 2 Semester II

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 252		Application Development Sessional	1.50
	2.	CSE 254		Object Oriented Programming(Java) Sessional	1.50
	3.	CSE 255		Algorithms Analysis and Design	3.00
	4.	CSE 256		Algorithms Analysis and Design Sessional	1.50
	5.	CSE 257		Theory of Computation and Concrete Mathematics	3.00
	6.	CSE 258		Theory of Computation and Concrete Mathematics Sessional	0.75
	7.	CSE 259		Computer Architecture and Organization	3.00
B.Sc. in CSE Session: 2004-2016	8.	CSE 251	CIT 203	Theory of Computation	2.00
	9.	CSE 253	CIT 205	Algorithms Analysis and Design	3.00
	10.	CSE 254	CIT 206	Algorithms Analysis and Design Sessional	1.50
	11.	CSE 255	CEN 205	Digital Electronics and Pulse Techniques	3.00
	12.	CSE 256	CEN 206	Digital Electronics and Pulse Techniques Sessional	1.50
B.Sc. in ECE Session: 2017-Onwards	13.	CSE 261		Object Oriented and Internet Programming	2.00
	14.	CSE 262		Object Oriented Programming Sessional	1.50
B.Sc. in ECE Session: 2006-2016	15.	CSE 261	CIT 223	Visual Programming	3.00
	16.	CSE 262	CIT 224	Visual Programming Sessional	1.50
BBA	17.	CSE 271	CIT 202	Computer in Business	3.00
B.Sc. (Hons.) in Physics	18.	CSE 273	CEN 221	Computer Programming Language II	3.00
	19.	CSE 274	CEN 222	Computer Programming Language II Sessional	1.50
B.Sc. (Hons.) in Mathematics	20.	CSE 275	CIT 237	Data Structure and Algorithm	2.00
	21.	CSE 276	CIT 238	Data Structure and Algorithm Sessional	1.00



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Level 3 Semester 1

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 302		Software Development Sessional	1.50
	2.	CSE 303		Database	3.00
	3.	CSE 304		Database Sessional	1.50
	4.	CSE 305		Software Engineering	3.00
	5.	CSE 307		Microprocessor and Interfacing	3.00
	6.	CSE 308		Microprocessor and Interfacing Sessional	1.50
B.Sc. in CSE Session: 2004-2016	7.	CSE 301	CIT 301	Software Engineering	3.00
	8.	CSE 303	CIT 303	Data Communication	3.00
	9.	CSE 305	CIT 305	Database	3.00
	10.	CSE 306	CIT 306	Database Sessional	1.50
	11.	CSE 307	CIT 307	Compiler	3.00
	12.	CSE 308	CIT 308	Compiler Sessional	0.75
	13.	CSE 309	CEN 301	Computer Architecture	3.00
	14.	CSE 312	CEN 302	Assembly Language Programming Sessional	1.50
B.Sc. in ECE Session: 2017-Onwards	15.	CSE 316		Internet Programming	1.50
B.Sc. in ECE Session: 2006-2016	16.	CSE 315	CIT 327	Database Management System	3.00
	17.	CSE 316	CIT 328	Database Management System Sessional	1.50
	18.	CSE 317	CEN 313	Microprocessor and Embedded System Design	3.00
	19.	CSE 318	CEN 314	Microprocessor and Embedded System Design Sessional	1.50
B.Sc. in FPE	20.	CSE 325	CIT 313	Computer Application II	2.00
	21.	CSE 326	CIT 314	Computer Application II Sessional	1.00
B.Sc. in AE	22.	CSE 327	CIT 315	Computer Application II	2.00
	23.	CSE 328	CIT 316	Computer Application II Sessional	1.00
B.Sc. (Hons.) in Mathematics	24.	CSE 329	CEN 331	Programming Language	2.00
	25.	CSE 330	CEN 332	Programming Language Sessional	1.00
B.Sc. in ECE Session: 2006-2016 (Elective Course)	26.	CSE 331	CEN 323	Microprocessor & Assembly Language	3.00
	27.	CSE 332	CEN 324	Microprocessor & Assembly Language Sessional	1.50
	28.	CSE 333	CEN 325	Digital Electronics & Pulse Techniques	3.00
	29.	CSE 334	CEN 326	Digital Electronics & Pulse Techniques Sessional	1.50
	30.	CSE 335	CIT 331	UNIX Programming	3.00
	31.	CSE 336	CIT 332	UNIX Programming Sessional	1.50
	32.	CSE 337	CIT 333	Computer Graphics & Pattern Recognition	3.00
	33.	CSE 338	CIT 334	Computer Graphics & Pattern Recognition Sessional	1.50
	34.	CSE 339	CIT 335	Internet Programming	3.00
	35.	CSE 340	CIT 336	Internet Programming Sessional	1.50
	36.	CSE 341	CIT 337	AI and Expert System Design	3.00
	37.	CSE 342	CIT 338	AI and Expert System Design Sessional	1.50
	38.	CSE 343	CIT 339	Operating System	3.00
	39.	CSE 344	CIT 340	Operating System Sessional	1.50
	B.Sc. in AE (Elective Course)	40.	CSE 345	CEN 329	Mechatronics
41.		CSE 346	CEN 330	Mechatronics Sessional	1.00



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Level 3 Semester II

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 352		Web and Mobile Application Development Sessional	1.50
	2.	CSE 353		Operating System	3.00
	3.	CSE 354		Operating System Sessional	0.75
	4.	CSE 355		Web Engineering	2.00
	5.	CSE 356		Web Engineering Sessional	0.75
	6.	CSE 357		Computer Networks	3.00
	7.	CSE 358		Computer Networks Sessional	0.75
	8.	CSE 359		Compiler Design	3.00
	9.	CSE 360		Compiler Design Sessional	0.75
	10.	CSE 361		Mathematical Analysis for Computer Science	3.00
B.Sc. in CSE Session: 2004-2016	11.	CSE 351	CIT 309	Operating System	3.00
	12.	CSE 352	CIT 310	Operating System Sessional	0.75
	13.	CSE 353	CIT 311	Computer Networks	3.00
	14.	CSE 354	CIT 312	Computer Networks Sessional	0.75
	15.	CSE 355	CEN 303	Mathematical Analysis for Computer Science	3.00
	16.	CSE 357	CEN 305	Microprocessors	3.00
	17.	CSE 358	CEN 306	Microprocessors Sessional	1.50
	18.	CSE 359	CEN 307	Artificial Intelligence	3.00
	19.	CSE 360	CEN 308	Artificial Intelligence Sessional	0.75
B.Sc. in EEE	20.	CSE 365	CEN 331	Microprocessor and Interfacing	3.00
	21.	CSE 366	CEN 332	Microprocessor and Interfacing Sessional	1.50
B.Sc. in ECE Session: 2006-2016 (Elective Course)	22.	CSE 371	CEN 327	Micro-electronics & VLSI Design	3.00
	23.	CSE 372	CEN 328	Micro-electronics & VLSI Design Sessional	1.50
	24.	CSE 373	CIT 341	Web Programming	3.00
	25.	CSE 374	CIT 342	Web Programming Sessional	1.50
	26.	CSE 375	CIT 343	.NET Enterprise Computing	3.00
	27.	CSE 376	CIT 344	.NET Enterprise Computing Sessional	1.50
	28.	CSE 377	CIT 345	Internet & Multimedia Communication	3.00
	29.	CSE 378	CIT 346	Internet & Multimedia Communication Sessional	1.50
	30.	CSE 379	CIT 347	Data Mining	3.00
	31.	CSE 380	CIT 348	Data Mining Sessional	1.50
	32.	CSE 381	CIT 349	Geographical Information System	3.00
	33.	CSE 382	CIT 350	Geographical Information System Sessional	1.50
	34.	CSE 383	CIT 351	Neural Networks and Fuzzy Logic	3.00
	35.	CSE 384	CIT 352	Neural Networks and Fuzzy Logic Sessional	1.50
	36.	CSE 385	CIT 353	Symbolic Logic	3.00
	37.	CSE 386	CIT 354	Symbolic Logic Sessional	1.50
	38.	CSE 387	CIT 355	System Simulation and Performance Evaluation	3.00
	39.	CSE 388	CIT 356	System Simulation and Performance Evaluation Sessional	1.50



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Level 4 Semester I

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 402		Project and Thesis Sessional	1.50
	2.	CSE 403		Artificial Intelligence	3.00
	3.	CSE 404		Artificial Intelligence Sessional	0.75
	4.	CSE 405		Computer Graphics and Image Processing	3.00
	5.	CSE 406		Computer Graphics and Image Processing Sessional	1.50
	6.	CSE 408		Technical Writing and Presentation Skill Development Sessional	1.50
	7.	CSE 4**		Option I	3.00
	8.	CSE 4**		Option I Sessional	0.75
	9.	CSE 4**		Option II	3.00
	10.	CSE 4**		Option II Sessional	0.75
B.Sc. in CSE Session: 2004-2016	11.	CSE 402	CIT 402	Project and Thesis Sessional	1.50
	12.	CSE 403	CIT 403	Machine Learning	3.00
	13.	CSE 405	CEN 401	Computer Interfacing	2.00
	14.	CSE 406	CEN 402	Computer Interfacing Sessional	0.75
	15.	CSE 407	CEN 403	Digital System Design	3.00
	16.	CSE 408	CEN 404	Digital System Design Sessional	1.50
B.Sc. in CSE Session: 2004-2016 (Elective Course)	17.	CSE 409	CIT 405	System Analysis and Design	3.00
	18.	CSE 410	CIT 406	System Analysis and Design Sessional	0.75
	19.	CSE 411	CEN 407	Simulation and Modeling	3.00
	20.	CSE 412	CEN 408	Simulation and Modeling Sessional	0.75
B.Sc. in EEE (Elective Course I and II)	21.	CSE 421	CEN 443	Computer Architecture	3.00
	22.	CSE 423	CIT 453	Computer Networks	3.00
	23.	CSE 424	CIT 454	Computer Networks Sessional	1.50
B.Sc. in ECE Session: 2004-2016 (Elective Course: Group-A)	24.	C SE 425	CEN 421	Mechatronics and Robotics	3.00
	25.	CSE 426	CEN 422	Mechatronics and Robotics Sessional	1.50
	26.	CSE 427	CEN 423	Computer Peripheral and Interfacing	3.00
	27.	CSE 428	CEN 424	Computer Peripheral and Interfacing Sessional	1.50
	28.	CSE 429	CEN 425	Machine learning	3.00
	29.	CSE 430	CEN 426	Machine learning Sessional	1.50
	30.	CSE 431	CIT 431	Bio-informatics	3.00
	31.	CSE 432	CIT 432	Bio-informatics Sessional	1.50
	32.	CSE 433	CIT 433	System Analysis & Design	3.00
	33.	CSE 434	CIT 434	System Analysis & Design Sessional	1.50
	34.	CSE 435	CIT 435	Advanced 3D Computer Animation	3.00
	35.	CSE 436	CIT 436	Advanced 3D Computer Animation Sessional	1.50
	36.	CSE 437	CIT 437	Medical Transcription	3.00
	37.	CSE 438	CIT 438	Medical Transcription Sessional	1.50
	38.	CSE 439	CIT 439	.NET Programming with JAVA	3.00
	39.	CSE 440	CIT 440	.NET Programming with JAVA Sessional	1.50
	B.Sc. in ECE (Elective Course: Group-B)	40.	CSE 441	CEN 327	Computer Organization & Architecture
41.		CSE 443	CEN 429	Distributed and Parallel Processing	3.00
42.		CSE 445	CEN 431	Fault Tolerant Computing	3.00
43.		CSE 447	CIT 441	PDA Technology	3.00



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Level 4 Semester II

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
B.Sc. in CSE Session: 2017-Onwards	1.	CSE 452		Project and Thesis Sessional	3.00
	2.	CSE 453		Multimedia System and Animation Techniques	3.00
	3.	CSE 454		Multimedia System and Animation Techniques Sessional	0.75
	4.	CSE 455		Computer Ethics and Cyber Law	2.00
	5.	MGT 405		Industrial Management	3.00
	6.	CSE 4**		Option III	3.00
	7.	CSE 4**		Option III Sessional	0.75
	8.	CSE 4**		Option IV	3.00
	9.	CSE 4**		Option IV Sessional	0.75
B.Sc. in CSE Session: 2004-2016	10.	CSE 402	CIT 402	Project and Thesis Sessional	3.00
	11.	CSE 451	CIT 407	Basic Multimedia System	3.00
	12.	CSE 453	CIT 409	Computer Graphics	3.00
	13.	CSE 454	CIT 410	Computer Graphics Sessional	0.75
	14.	CSE 455	CEN 407	Pattern Recognition	3.00
	15.	CSE 457	CEN 409	VLSI Design	3.00
	16.	CSE 458	CEN 410	VLSI Design Sessional	0.75
B.Sc. in CSE Session: 2004-2016 (Elective Course)	17.	CSE 459	CIT 413	Graph Theory	3.00
	18.	CSE 461	CIT 411	Communication Engineering	3.00
	19.	CSE 463	CEN 413	Robotics	3.00
B.Sc. in ECE Session: 2006-2016 (Elective Course)	20.	CSE 469	CEN 435	Automatic Control System Design	3.00
	21.	CSE 470	CEN 436	Automatic Control System Design Sessional	1.50
	22.	CSE 471	CEN 437	Embedded System Design	3.00
	23.	CSE 472	CEN 438	Embedded System Design Sessional	1.50
	24.	CSE 473	CIT 443	E-Commerce	3.00
	25.	CSE 474	CIT 444	E-Commerce Sessional	1.50
	26.	CSE 475	CIT 445	Software Engineering	3.00
	27.	CSE 476	CIT 446	Software Engineering Sessional	1.50
	28.	CSE 477	CIT 447	Speech and Image Processing	3.00
	29.	CSE 478	CIT 448	Speech and Image Processing Sessional	1.50
B.Sc. in EEE (Elective Course III and IV)	30.	CSE 479	CEN 441	Microprocessor System Design	3.00
	31.	CSE 480	CEN 442	Microprocessor System Design Sessional	3.00
	32.	CSE 481	CIT 451	Multimedia Communication	3.00



Postgraduate Courses

Name of the Degree	Sl. No.	New Course Code	Old Course Code	Course Title	Credit
M.Sc. in FPM (Elective Course)	1.	CSE 533	CIT 533	Computer Programming & Applications	2.00