SCHEME OF STUDIES
COMPUTER SCIENCE - THAR CAMPUS

Batch 2019
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2019	*CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	MT-171 Differential & Integral Calculus	3	0	3
	*PH-122 Applied Physics	3	1	4
	HS-205 Islamic Studies OR	2	0	2
	HS-209 Ethical Behaviour			
SPRING 2020	*CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	CT-251 Object Oriented Programming	3	1	4
	HS-104 Functional English	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigners)			
	HS-220 Chinese Language-I	NC		

* Changed vide Resolution No. AC-142.3(ii)(b)

Batch 2020
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2020	CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	MT-171 Differential & Integral Calculus	3	0	3
	PH-122 Applied Physics	3	1	4
	HS-205 Islamic Studies OR	2	0	2
	HS-209 Ethical Behaviour			
SPRING 2021	CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	CT-251 Object Oriented Programming	3	1	4
	HS-104 Functional English	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigners)			
	HS-220 Chinese Language-I	NC		
	HS-200 Community Service	NC		

Batch 2021
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2021	CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	PH-122 Applied Physics	3	1	4
	**HS-104 Functional English	3	0	3
	**HS-105 Pakistan Studies OR	2	0	2
	**HS-127 Pakistan Studies (for Foreigners)			
	*MT-001 Mathematics - 1 (for Pre-Medical)	NC		
SPRING 2022	CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	CT-251 Object Oriented Programming	3	1	4
	**HS-115 Academic Reading and Writing	3	0	3
	HS-220 Chinese Language-I OR	NC		
	***HS-231 Turkish Language-I	NC		
	*MT-171 Differential & Integral Calculus	3	0	3
	*MT-002 Mathematics - 2 (for Pre-Medical)	NC		

* Changed vide Resolution No. AC-152.7(i)
** Changed vide Resolution No. AC-154.5(xvii)
*** Changed vide Resolution No. AC-154.4.(i)

Batch 2022
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2022	CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	PH-122 Applied Physics	3	1	4
	HS-104 Functional English	3	0	3
	HS-105 Pakistan Studies OR	2	0	2
	HS-127 Pakistan Studies (for Foreigners)			
	MT-001 Mathematics - 1 (for Pre-Medical)	NC		
SPRING 2023	CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	*CT-260 Object Oriented Programming	3	1	4
	HS-115 Academic Reading and Writing	3	0	3
	HS-220 Chinese Language-I OR	NC		
	HS-231 Turkish Language-I	NC		
	HS-224 German language-I	NC		
	HS-226 french language-I	NC		
	MT-171 Differential & Integral Calculus	3	0	3
	MT-002 Mathematics - 2 (for Pre-Medical)	NC		

* Changed vide Resolution No. EMG-AC-1(A)

Batch 2023
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2023	CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	*EA-104 Functional English	3	0	3
	PH-122 Applied Physics	3	1	4
	**ES-205 Islamic Studies OR	2	0	2
	*ES-209 Ethical Behaviour			
	MT-001 Mathematics - 1 (for Pre-Medical)	NC		
SPRING 2024	CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	CT-260 Object Oriented Programming	3	1	4
	*MT-171 Differential & Integral Calculus	3	0	3
	**ES-105 Pakistan Studies OR	2	0	2
	**ES-127 Pakistan Studies (for Foreigners)	2	0	2
	MT-002 Mathematics - 2 (for Pre-Medical)	NC		

* Changed vide Resolution No. EMG-AC-1(A)
** Under Section 28(iv) Office Order Acad/42(156)16911
*** Under Section 28(iv) Office Order Acad/42(156)16909

Batch 2024
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2024	CT-175 Programming Fundamentals	3	1	4
	CT-174 Fundamentals of Information Technology	2	1	3
	EA-104 Functional English	3	0	3
	PH-122 Applied Physics	3	1	4
	*ES-206 Islamic Studies OR	2	0	2
	ES-209 Ethical Behaviour			
	MT-001 Mathematics - 1 (for Pre-Medical)	NC		
SPRING 2025	CS-251 Logic Design & Switching Theory	3	1	4
	CT-162 Discrete Structures	3	0	3
	CT-260 Object Oriented Programming	3	1	4
	MT-171 Differential & Integral Calculus	3	0	3
	ES-105 Pakistan Studies OR	2	0	2
	ES-127 Pakistan Studies (for Foreigners)	2	0	2
	MT-002 Mathematics - 2 (for Pre-Medical)	NC		

* Changed Vide Resolution No.AC-164.5(vi)

Batch 2025
FIRST YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2025	CT-175 Programming Fundamentals	3	1	4
	EF-101 IT Fundamentals and Applications	2	1	3
	EA-128 Functional English	3	0	3
	ES-108 Ideology and Constitution of Pakistan	2	0	2
	ES-206 Islamic Studies OR	2	0	2
	ES-209 Ethical Behaviour (for Non-Muslims)	2	0	2
	PH-129 Applied Physics	3	0	3
	MT-100 Introduction to Mathematics (for Pre-Medical)	NC		
SPRING 2026	CT-162 Discrete Structures	3	0	3
	CT-260 Object Oriented Programming	3	1	4
	CS-251 Logic Design and Switching Theory	3	1	4
	ES-105 Pakistan Studies OR	2	0	2
	ES-127 Pakistan Studies (for Foreigners)	2	0	2
	MT-116 Calculus & Analytical Geometry	3	0	3
Changed with vide Resolution No. AC-168.4(vii)				

Batch 2019
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2020	*CT-157 Data Structure Algorithms & Applications	3	1	4
	*MT-227 Differential Equations	3	0	3
	*HS-115 Academic Reading and Writing	3	0	3
	*HS-219 Professional Ethics	2	0	2
	CT-259 System Analysis & Design	3	0	3
	HS-221 Chinese Language-II	NC		
SPRING 2021	CS-252 Computer Architecture & Organisation	3	1	4
	CT-257 Database Management Systems	3	1	4
	*HS-218 Business Communications	2	1	3
	*CT-258 Financial & Cost Accounting	3	0	3
	*MT-272 Linear Algebra & Geometry	3	0	3

* Changed vide Resolution No. AC-142.3(ii)(b)

Batch 2020
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2021	CT-157 Data Structure Algorithms & Applications	3	1	4
	MT-227 Differential Equations	3	0	3
	HS-115 Academic Reading and Writing	3	0	3
	*HS-218 Business Communications	2	1	3
	CT-259 System Analysis & Design	3	0	3
	HS-221 Chinese Language-II	NC		
SPRING 2022	CS-252 Computer Architecture & Organisation	3	1	4
	CT-257 Database Management Systems	3	1	4
	*HS-219 Professional Ethics	2	0	2
	CT-258 Financial & Cost Accounting	3	0	3
	MT-272 Linear Algebra & Geometry	3	0	3

* Changed under Section 28(iv) Letter No.Acad/TIEST/58(79)/1423

Batch 2021
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2022	CT-157 Data Structure Algorithms & Applications	3	1	4
	MT-227 Differential Equations	3	0	3
	*HS-218 Business Communications	2	1	3
	CT-259 System Analysis & Design	3	0	3
	**HS-205 Islamic Studies OR	2	0	2
	**ES-209 Ethical Behaviour			
	HS-221 Chinese Language-II	NC		
SPRING 2023	**HS-232 Turkish Language-II	NC		
	CS-252 Computer Architecture & Organisation	3	1	4
	CT-257 Database Management Systems	3	1	4
	*HS-219 Professional Ethics	2	0	2
	***EC-209 Financial & Cost Accounting	3	0	3
	MT-272 Linear Algebra & Geometry	3	0	3
	HS-200 Community Service	NC		

* Changed vide Resolution No. AC-154.5(xvii)
** Changed vide Resolution No. AC-154.4.(i)
*** Changed vide Resolution No. EMG-AC-1(A)

Batch 2022
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2023	*CT-159 Data Structure Algorithms & Applications	3	1	4
	MT-227 Differential Equations	3	0	3
	***EA-218 Business Communications	2	1	3
	CT-259 System Analysis & Design	3	0	3
	**ES-205 Islamic Studies OR	2	0	2
	**ES-209 Ethical Behaviour			
	HS-221 Chinese Language-II	NC		
	***EA-221 Chinese Language-II	NC		
	***EA-232 Turkish Language-II	NC		
	***EA-225 German language-II	NC		
	***EA-227 French language-II	NC		
SPRING 2024	CS-252 Computer Architecture & Organisation	3	1	4
	*CT-261 Database Management Systems	3	1	4
	***EA-219 Professional Ethics	2	0	2
	EC-209 Financial & Cost Accounting	3	0	3
	MT-272 Linear Algebra & Geometry	3	0	3
	***EA-200 Community Service	NC		

* Changed vide Resolution No. EMG-AC-1(A)
** Under Section 28(iv) Offiec Order Acad/42(156)16911
*** Under Section 28(iv) Offiec Order Acad/42(156)16909

Batch 2023
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2024	CT-159 Data Structure Algorithms & Applications	3	1	4
	MT-227 Differential Equations	3	0	3
	*EA-115 Academic Reading and Writing	3	0	3
	*EA-219 Professional Ethics	2	0	2
	*MT-331 Probability & Statistics	3	0	3
	CS-252 Computer Architecture & Organisation	3	1	4
	CT-261 Database Management Systems	3	1	4
	EA-218 Business Communications	2	1	3
	EC-209 Financial & Cost Accounting	3	0	3
	MT-272 Linear Algebra & Geometry	3	0	3
SPRING 2025	EA-200 Community Service	NC		

* Changed vide Resolution No. EMG-AC-1(A)
** Changed vide Resolution No. AC-163.5(iv)

Batch 2024
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2025	CT-159 Data Structure Algorithms & Applications	3	1	4
	MT-227 Differential Equations	3	0	3
	EA-115 Academic Reading and Writing	3	0	3
	EA-219 Professional Ethics	2	0	2
	MT-331 Probability & Statistics	3	0	3
	CS-252 Computer Architecture & Organisation	3	1	4
	CT-261 Database Management Systems	3	1	4
	EC-209 Financial & Cost Accounting	3	0	3
	MT-272 Linear Algebra & Geometry	3	0	3
SPRING 2026	EA-200 Community Service	NC		

Batch 2025
SECOND YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2026	CT-159 Data Structure Algorithms and Applications	3	1	4
	CT-268 Professional Ethics	2	0	2
	EF-201 Civics and Community Engagement	2	0	2
	EA-244 Academic Reading and Writing	3	0	3
	MT-221 Linear Algebra & Ordinary Differential Equations	3	0	3
	MT-331 Probability and Statistics	3	0	3
	CT-261 Database Management Systems	3	1	4
SPRING 2027	CT-365 Software Engineering	3	0	3
	CS-252 Computer Architecture and Organization	3	1	4
	EF-200 Community Service	NC		
	EC-209 Financial and Cost Accounting	3	0	3
	MT-226 Multivariable Calculus	3	0	3
Changed with vide Resolution No. AC-168.4(vii)				

Batch 2019
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2021	*CT-365 Software Engineering	3	0	3
	CT-353 Operating Systems	3	1	4
	CT-363 Design and Analysis of Algorithms	3	0	3
	*MT-331 Probability & Statistics	3	0	3
	*CT-364 Theory of Automata and Formal Languages	3	0	3
SPRING 2022	CS-351 Computer Communication Networks	3	1	4
	*CT-361 Artificial Intelligence & Expert Systems	3	1	4
	*CT-362 Web Engineering	3	1	4
	*CT-367 Theory of Programming Languages	3	0	3
	*MT-442 Numerical Methods	3	0	3

* Changed vide Resolution No. AC-142.3(ii)(b)

Batch 2020
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2022	CT-365 Software Engineering	3	0	3
	CT-353 Operating Systems	3	1	4
	CT-363 Design and Analysis of Algorithms	3	0	3
	MT-331 Probability & Statistics	3	0	3
	CT-364 Theory of Automata and Formal Languages	3	0	3
SPRING 2023	*CT-376 Computer Communication Networks	3	1	4
	CT-361 Artificial Intelligence & Expert Systems	3	1	4
	CT-362 Web Engineering	3	1	4
	CT-367 Theory of Programming Languages	3	0	3
	MT-442 Numerical Methods	3	0	3

* Changed vide Resolution No. EMG-AC-1(A)

Batch 2021
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2023	CT-365 Software Engineering	3	0	3
	CT-353 Operating Systems	3	1	4
	CT-363 Design and Analysis of Algorithms	3	0	3
	MT-331 Probability & Statistics	3	0	3
	CT-364 Theory of Automata and Formal Languages	3	0	3
SPRING 2024	CT-376 Computer Communication Networks	3	1	4
	CT-361 Artificial Intelligence & Expert Systems	3	1	4
	CT-362 Web Engineering	3	1	4
	CT-367 Theory of Programming Languages	3	0	3
	MT-442 Numerical Methods	3	0	3

Batch 2022
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2024	CT-365 Software Engineering	3	0	3
	CT-353 Operating Systems	3	1	4
	CT-363 Design and Analysis of Algorithms	3	0	3
	MT-331 Probability & Statistics	3	0	3
	CT-364 Theory of Automata and Formal Languages	3	0	3
SPRING 2025	CT-376 Computer Communication Networks	3	1	4
	CT-361 Artificial Intelligence & Expert Systems	3	1	4
	CT-362 Web Engineering	3	1	4
	CT-367 Theory of Programming Languages	3	0	3
	MT-442 Numerical Methods	3	0	3

Batch 2023
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2025	*CT-XXX Computer Science Elective-I			
	*CT-XXX Computer Science Elective-II			
	CT-365 Software Engineering	3	0	3
	*CT-262 Introduction to Artificial Intelligence	2	1	3
	CT-363 Design and Analysis of Algorithms	3	0	3
	CT-364 Theory of Automata and Formal Languages	3	0	3
SPRING 2026	*CT-XXX Computer Science Elective-III			
	CT-376 Computer Communication Networks	3	1	4
	*CT-353 Operating Systems	3	1	4
	CT-362 Web Engineering	3	1	4
	CT-367 Theory of Programming Languages	3	0	3
	*EA/ES Foreign Language-I	NC		

* Changed Vide Resolution No.AC-163.5(iv)
Under Section 28(iv) Office Order Acad/42(156)16909

Batch 2024
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2026	CT-XXX Computer Science Elective-IV			
	*CT-407 Human Computer Interaction	3	0	3
	CT-486 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	**CT-499 Computer Science Project	0	3	3
	*EA/ES Foreign Language-II	NC		
SPRING 2027	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	*CT-XXX Computer Science Elective-V			
	*CT-499 Computer Science Project	0	3	3

* Changed Vide Resolution No.AC-163.5(iv)
** Changed Vide Resolution No.AC-165.4(iv)
Under Section 28(iv) Office Order Acad/42(156)16909

Batch 2025
THIRD YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2027	CT-262 Introduction to Artificial Intelligence	2	1	3
	CT-362 Web Engineering	3	1	4
	CT-364 Theory of Automata and Formal Languages	3	0	3
	CT-### Computer Science Elective I			
	CT-### Computer Science Elective II			
SPRING 2028	CT-353 Operating Systems	3	1	4
	CT-363 Design and Analysis of Algorithms	3	0	3
	CT-376 Computer Communication Networks	3	1	4
	CT-### Computer Science Elective III			
	CT-### Computer Science Elective IV			
	EA/ES Foreign Language-I	NC		
Changed with vide Resolution No. AC-168.4(vii)				

Batch 2019
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2022	CT-460 Network & Information Security	3	1	4
	**MG-482 Organisational Behaviour	3	0	3
	*CT-### Elective I	3	0	3
	*CT-### Elective II	3	1	4
	CT-499 Software Based Project	0	3	3
SPRING 2023	*CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	CT-### Elective III	3	1	4
	CT-499 Software Based Project	0	3	3

* Changed vide Resolution No. AC-142.3(ii)(b)

Elective Courses:		
*CT-366	E-Commerce	Elective-I
*CT-485	Natural Language Processing	
*CT-464	Modeling & Simulation	
*CT-352	Computer Graphics	Elective-II & Elective-III
*CT-360	Visual Programming	
*CT-462	Distributed Computing	
*CT-463	Data Warehouse Mining	
*CT-481	Wireless Network & Mobile Computing	
*CT-484	Introduction to Cyber Security	

* Changed vide Resolution No. AC-142.3(ii)(b)

** Changed vide Resolution No. AC-146.4

Batch 2020
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2023	CT-460 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	CT-### Elective I	3	0	3
	CT-### Elective II	3	1	4
	CT-499 Software Based Project	0	3	3
SPRING 2024	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	CT-### Elective III	3	1	4
	CT-499 Software Based Project	0	3	3

Elective Courses:		
CT-366	E-Commerce	Elective-I
CT-485	Natural Language Processing	
CT-464	Modeling & Simulation	
CT-352	Computer Graphics	Elective-II & Elective-III
CT-360	Visual Programming	
CT-462	Distributed Computing	
CT-463	Data Warehouse Mining	
CT-481	Wireless Network & Mobile Computing	
CT-484	Introduction to Cyber Security	

Batch 2021
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2024	CT-460 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	CT-### Elective I	3	0	3
	CT-### Elective II	3	1	4
	CT-499 Software Based Project	0	3	3
SPRING 2025	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	CT-### Elective III	3	1	4
	CT-499 Software Based Project	0	3	3

Elective Courses:		
CT-366	E-Commerce	Elective-I
CT-485	Natural Language Processing	
CT-464	Modeling & Simulation	
CT-352	Computer Graphics	Elective-II & Elective-III
CT-360	Visual Programming	
CT-462	Distributed Computing	
CT-463	Data Warehouse Mining	
CT-481	Wireless Network & Mobile Computing	
CT-484	Introduction to Cyber Security	

Batch 2022
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2025	*CT-486 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	CT-### Elective I	3	0	3
	CT-### Elective II	3	1	4
	CT-499 Software Based Project	0	3	3
SPRING 2026	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	CT-### Elective III	3	1	4
	CT-499 Software Based Project	0	3	3

* Changed vide Resolution No. EMG-AC-1(A)

Elective Courses:		
CT-366	E-Commerce	Elective-I
CT-485	Natural Language Processing	
CT-464	Modeling & Simulation	
CT-352	Computer Graphics	Elective-II & Elective-III
*CT-487	Visual Programming	
*CT-488	Distributed Computing	
CT-463	Data Warehouse Mining	
CT-481	Wireless Network & Mobile Computing	
CT-484	Introduction to Cyber Security	

* Changed vide Resolution No. EMG-AC-1(A)

Batch 2023
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2026	*CT-XXX Computer Science Elective-IV			
	*CT-407 Human Computer Interaction	3	0	3
	CT-486 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	**CT-499 Computer Science Project	0	3	3
	*EA/ES Foreign Language-II	NC		
SPRING 2027	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	*CT-XXX Computer Science Elective-V			
	*CT-499 Computer Science Project	0	3	3

* Changed Vide Resolution No.AC-163.5(iv)
** Changed Vide Resolution No.AC-165.4(iv)
Under Section 28(iv) Office Order Acad/42(156)16909

Elective Courses:		Th	Pr	T
Elective-I	*CT-263 Object Oriented Analysis & Design	2	1	3
	*CT-264 Programming for Artificial Intelligence	2	1	3
	*CT-368 Fundamentals of Data Science	2	1	3
	*CT-266 Fundamentals of Cybersecurity	2	1	3
	*CT-267 Fundamentals of Game Development	2	1	3
Elective-II	*MT-442 Numerical Methods	3	0	3
	*CT-377 Data Mining	3	0	3
	*CT-378 Machine Learning	3	0	3
Elective-III	*CT-366 E-Commerce	3	0	3
	*CT-485 Natural Language Processing	3	0	3
	*CT-403 Blockchain Technologies	2	1	3
	**CT-411 Introduction to Quantum Computing	3	0	3
	*CT-464 Modeling & Simulation	3	0	3
Elective-IV	*CT-352 Computer Graphics	3	1	4
	*CT-487 Visual Programming	3	1	4
	*CT-488 Distributed Computing	3	1	4
Elective-V	*CT-463 Data Warehouse Mining	3	1	4
	*CT-481 Wireless Network & Mobile Computing	3	1	4
	*CT-484 Introduction to Cyber Security	3	1	4

* Changed Vide Resolution No.AC-163.5(iv)
** Changed Vide Resolution No.AC-165.4(iv)

Batch 2024
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2027	CT-XXX Computer Science Elective-IV			
	CT-407 Human Computer Interaction	3	0	3
	CT-486 Network & Information Security	3	1	4
	MG-482 Organisational Behaviour	3	0	3
	CT-499 Computer Science Project	0	3	3
	EA/ES Foreign Language-II	NC		
SPRING 2028	CS-428 Parallel & Distributed Computing	3	1	4
	CT-465 Compiler Design	3	0	3
	MG-481 Entrepreneurship	3	0	3
	CT-XXX Computer Science Elective-V			
	CT-499 Computer Science Project	0	3	3

Elective Courses:		Th	Pr	T
Elective-I	CT-263 Object Oriented Analysis & Design	2	1	3
	CT-264 Programming for Artificial Intelligence	2	1	3
	CT-368 Fundamentals of Data Science	2	1	3
	CT-266 Fundamentals of Cybersecurity	2	1	3
	CT-267 Fundamentals of Game Development	2	1	3
Elective-II	MT-442 Numerical Methods	3	0	3
	CT-377 Data Mining	3	0	3
	CT-378 Machine Learning	3	0	3
Elective-III	CT-366 E-Commerce	3	0	3
	CT-485 Natural Language Processing	3	0	3
	CT-403 Blockchain Technologies	2	1	3
	CT-411 Introduction to Quantum Computing	3	0	3
	CT-464 Modeling & Simulation	3	0	3
Elective-IV	CT-352 Computer Graphics	3	1	4
	CT-487 Visual Programming	3	1	4
	CT-488 Distributed Computing	3	1	4
Elective-V	CT-463 Data Warehouse Mining	3	1	4
	CT-481 Wireless Network & Mobile Computing	3	1	4
	CT-484 Introduction to Cyber Security	3	1	4

Batch 2025
FINAL YEAR ---------- SEMESTER SYSTEM

Course Code	Course Title	Crd Hrs Th	Pr	T
Computer Science				
FALL 2028	CT-407 Human Computer Interaction	3	0	3
	CT-486 Network and Information Security	3	1	4
	CT-499 Computer Science Project	0	3	3
	CT-### Computer Science Elective V			
	MG-482 Organisational Behaviour	3	0	3
	EA/ES Foreign Language-II	NC		
SPRING 2029	CT-465 Compiler Design	3	0	3
	CT-499 Computer Science Project	0	3	3
	CT-### Computer Science Elective VI			
	CS-428 Parallel and Distributed Computing	3	1	4
	MG-481 Entrepreneurship	3	0	3
Changed with vide Resolution No. AC-168.4(vii)				

Foreign Language-I		
*EA-220	Chinese Language-I	NC
*EA-231	Turkish Language-I	NC
*EA-224	German Language-I	NC
*EA-226	French Language-I	NC
*ES-222	Arabic Language-I	NC
**EA-233	Japanese Language-I	NC
**EA-235	Russian Language-I	NC
Foreign Language-II		
*EA-221	Chinese Language-II	NC
*EA-232	Turkish Language-II	NC
*EA-225	German Language-II	NC
*EA-227	French Language-II	NC
*ES-223