

University of Information Technology
First Semester, (2022-2023) Academic Year

Year	Subject Code	Subject Title	Prerequisite Subj Codes
First Year	CST-11101	Basic Data Structures	NIL
	CST-11201	Calculus I	NIL
	CST-11401	Digital Fundamentals of Computer System	NIL
	CST-11501	English Language Proficiency I	NIL
	CST-11601	Myanmar Literature	NIL
	CST-11701	Physics (Mechanics)	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Second Year	CST-21103	Operating Systems Fundamentals	CST-11401
	CST-21202	Discrete Structure I	NIL
	CST-21302	Software Modelling and Analysis	NIL
	CST-21303	Introduction to Business and Fundamental of Information Systems	NIL
	CST-21402	Basic Engineering Circuit	NIL
	CST-21503	English Language Proficiency III	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Third Year (CS)	CS-31308	Advanced Web Technology	CST-12301
	CST-31105	Artificial Intelligence	NIL
	CST-31203	Engineering Mathematics	CST-12201
	CST-31306	Software Requirement Engineering	CST-21302
	CST-31404	Advanced Networking	CST-22403
	CST-31405	Computer Architecture	CST-11401

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
First Year	CST-12102	Programming in C++	NIL
	CST-12201	Calculus II	CST-11201
	CST-12301	Web Technology	NIL
	CST-12502	English Language Proficiency II	NIL
	CST-12602	Myanmar Literature	NIL
	CST-12702	Physics (Electromagnetism)	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Second Year	CST-22104	Data Structure and Algorithms with Java	CST-11101
	CST-22202	Discrete Structure II	CST-21202
	CST-22304	Human Computer Interaction & Information Security	NIL
	CST-22305	Database Management System	NIL
	CST-22403	Networking Fundamentals	NIL
	CST-22504	English Language Proficiency IV	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Third Year (CS)	CS-32108/ CS-32109/ CS-32326/ CS-32327/	System Modelling and Analysis / Social Issues and Ethics/ Microservices for the Enterprise/ Introduction to entrepreneurship	NIL
	CST-32106	Programming Languages Principles	CST-22104
	CST-32107	Computer Organization	CST-31405
	CST-32203	Linear Algebra	NIL
	CST-32307	Management Principles & Engineering Economics	CST-21303
	CST-32406	Network Design & Engineering	CST-31404

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Third Year (CT)	CST-31105	Artificial Intelligence	NIL
	CST-31203	Engineering Mathematics	CST-12201
	CST-31306	Software Requirement Engineering	CST-21302
	CST-31404	Advanced Networking	CST-22403
	CST-31405	Computer Architecture	CST-11401
	CT-31407	Engineering Circuits and Signals	CST-21402

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (BIS)	BIS-41309	Business Information System Analysis and Design	NIL
	CS-41310	Business Management Information Systems	CST-21303
	CS-41311	Enterprise Systems, Security and Risk Management	NIL
	CS-41312	Advanced Database Management System	CST-22305
	CS-41313	Software Quality Management	CST-31306
	CST-41505	English Language Proficiency V	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (SE)	CS-41110	Analysis of Algorithms	CST-22104
	CS-41310	Business Management Information Systems	CST-21303
	CS-41311	Enterprise Systems, Security and Risk Management	NIL
	CS-41312	Advanced Database Management System	CST-22305
	CS-41313	Software Quality Management	CST-31306
	CST-41505	English Language Proficiency V	NIL

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Third Year (CT)	CST-32106	Programming Languages Principles	CST-22104
	CST-32107	Computer Organization	CST-31405
	CST-32203	Linear Algebra	NIL
	CST-32307	Management Principles & Engineering Economics	CST-21303
	CST-32406	Network Design and Engineering	CST-31404
	CT-32408/ CT-32409	Basic Electronic Devices for Embedded Systems/ Data and Computer Communication	CT-31407/ CST-31404

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (BIS)	BIS-42205	Modeling and Decision Analysis	NIL
	BIS-42314	Marketing Principles and Software Business	NIL
	BIS-42316	Business Process Management	NIL
	CS-42317	Software Construction and Evolution	CST-31306
	CST-42315	Data Analysis and Management	CST-22305/ CST-41312
	CST-42506	English Language Proficiency VI	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (SE)	CS-42115	Computer Vision	NIL
	CS-42207	Mathematical Theory of Game	NIL
	CS-42317	Software Construction and Evolution	CST-31306
	CST-42116	Distributed Programming	CST-22403
	CST-42315	Data Analysis & Management	CST-22305/ CST-41312
	CST-42506	English Language Proficiency VI	NIL

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (HPC)	CS-41110	Analysis of Algorithms	CST-22104
	CST-41111	Distributed Systems	CST-21103
	CST-41412	Network Management and Monitoring	CST-32406
	CST-41413	Cryptographic Techniques and Data Security	CST-32203/ CST-32406
	CST-41505	English Language Proficiency V	NIL
	HPC-41112	Introduction to High Performance Computing	CST-32107

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (KE)	CS-41110	Analysis of Algorithms	CST-22104
	CS-41311	Enterprise Systems, Security and Risk Management	NIL
	CST-41416	Fuzzy Logic System	CST-31105/ CST-31203
	CST-41505	English Language Proficiency V	NIL
	KE-41113	Computer Graphics	NIL
	KE-41114	Knowledge Engineering and Intelligent Systems	CST-31105

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (CN)	CN-41410	Network Operating System	CST-21103
	CN-41411	Wireless and Mobile Communications	CST-31404
	CST-41111	Distributed Systems	CST-21103
	CST-41412	Network Management and Monitoring	CST-32406
	CST-41413	Cryptographic Techniques and Data Security	CST-32203/ CST-32406
	CST-41505	English Language Proficiency V	NIL

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (HPC)	CST-42116	Distributed Programming	CST-22403
	CST-42206	Performance and Reliability Analysis	NIL
	CST-42315	Data Analysis and Management	CST-22305/ CST-41312
	CST-42506	English Language Proficiency VI	NIL
	HPC-42117	Mobile and Ubiquitous Computing	NIL
	HPC-42118	High Performance Computing Technology	NIL

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (KE)	CS-42115	Computer Vision	NIL
	CS-42207	Mathematical Theory of Game	NIL
	CST-42116	Distributed Programming	CST-22403
	CST-42315	Data Analysis and Management	CST-22305/ CST-41312
	CST-42506	English Language Proficiency VI	NIL
	KE-42119	Robotic Systems	CST-31105

Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (CN)	CN-42414	Multimedia Communications	CST-31404/ CN-41411
	CN-42415	Computer Security and Ethical Hacking	CST-41413
	CST-42116	Distributed Programming	CST-22403
	CST-42206	Performance and Reliability Analysis	NIL
	CST-42315	Data Analysis and Management	CST-22305/ CST-41312
	CST-42506	English Language Proficiency VI	NIL

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Year	Subject Code	Subject Title	Prerequisite SubjCodes
Fourth Year (ES)	CST-41416	Fuzzy Logic System	CST-31105/ CST-31203
	CST-41505	English Language Proficiency V	NIL
	ES-41204	Mathematical Models of System and Control	CST-12201/ CST-31203
	ES-41417	Microcontroller Programming	CST-12119/ CT- 31407
	ES-41418	Sensors & Electronics	CT-32408
	ES-41419	Control System	CST-31407

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fourth Year (ES)	CST-42315	Data Analysis & Management	CST-22305/ CST- 41312
	CST-42506	English Language Proficiency VI	NIL
	ES-42420	VHDL Design & Modeling of Digital System	ES-41417
	ES-42421	Applied Control Theory for Embedded System	ES-41419
	ES-42422	Embedded System Architecture	CST-31405
	ES-42423	Digital Signal Processing	CT-31407

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fifth Year (BIS)	BIS-51318	Business Intelligence	CST-42315
	BIS-51319	Information Systems Project Management	CST-32307
	BIS-51320	IT/IS Strategy, Management and Acquisition	NIL
	BIS-51321	Accounting for Managers	CST-32307
	CS-51322	Service Oriented Architecture:Concept & Technology (Capstone Project)	Covered the credits of all core specialized subjects
	CST-51205	Stochastic Models	CST-22202/ CST-32203

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Year	Subject Code	Subject Title	Prerequisite Subj Codes
Fifth Year (HPC)	CST-51121	Data Center Networking and the New Converged Internet	CST-31404
	CST-51205	Stochastic Models	CST-22202/ CST- 32203
	HPC-51122	Virtualization Technology and Cloud Computing	HPC-42118
	HPC-51123	Blockchain Technology and the Internet of Things	NIL
	HPC-51124	High Performance Big Data Analytics	HPC-41112
	HPC-51125	Design and Concepts for Building a Modern Computing System (Capstone Project)	At least 120 Credits Earned

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Year	Subject Code	Subject Title	Prerequisite Subject Code
Fifth Year (SE)	CS-51120	Interactive Multimedia Systems	CS-42115
	CS-51322	Service Oriented Architecture:Concept & Technology (Capstone Project)	Covered the credits of all core specialized subjects
	CST-51205	Stochastic Models	CST-22202/ CST-32203
	SE-51323	Machine Learning with Data Visualization	CST-42315
	SE-51324	Advanced Software Engineering	CST-31306
	SE-51325	Data processing Techniques in Distributed Systems	CS-41312

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Year	Subject Code	Subject Title	Prerequisite Subject Code
Fifth Year (KE)	CS-51120	Interactive Multimedia Systems	CS-42115
	CST-51205	Stochastic Models	CST-22202/ CST-32203
	KE-51126	Computational Linguistics	CST-31105
	KE-51127	Data Science for Business	CST-42315
	KE-51128	Semantic Web and Ontology Engineering	NIL
	KE-51129	Design, Concepts and Methodology for Knowledge-based Intelligent Systems (Capstone Project)	At least 120 Credits Earned

Year	Subject Code	Subject Title	Prerequisite Subject Code
Fifth Year (ES)	CST-51205	Stochastic Models	CST-22202/ CST-32203
	CT-51427	Digital Forensics	CST-11401/ CST-22403/ CST-31404
	ES-51428	VLSI Technology & Design	ES-42420
	ES-51429	Neural Network	CST-31105
	ES-51430	Computer Vision and Digital Image Processing	ES-42423
	ES-51431	Designing Embedded System using Real Time OS & Robotics (Capstone Project)	At least 120 credits earned

Year	Subject Code	Subject Title	Prerequisite Subject Code
Fifth Year (CN)	CN-51424	Network and Internet Security	CST-32406/ CST-41413
	CN-51425	Broadband Communication and Mobile Networking	CN-41411
	CN-51426	Advanced Network Design and Performance Computing (Capstone Project)	At least 120 Credits Earned
	CST-51121	Data Center Networking and the New Converged Internet	CST-31404
	CST-51205	Stochastic Models	CST-22202/ CST-32203
	CT-51427	Digital Forensics	CST-11401/ CST-22403/ CST-31404