

Course List

General Education Courses

Social Sciences

			Credits (Lecture-Lab)
SHSS	103	Man and Society	2 (2 – 0 – 4)
SHSS	107	Society and Health	2 (2 – 0 – 4)
SHHU	108	Human Relations and Self Development	2 (2 – 0 – 4)
SHSS	116	Comparative Culture	2 (2 – 0 – 4)
ITGE	101	Problem Solving Techniques	2 (1 – 2 – 3)
ITGE	301	Communication Strategies in Professional Life	2 (2 – 0 – 4)

Basic Sciences and Mathematics

			Credits (Lecture-Lab)
SCCH	100	Integrated Chemistry	3 (3 – 0 – 6)
SCBI	109	Integrated Biology	3 (3 – 0 – 6)
ITCS	161	Physical Science and Computation	3 (3 – 0 – 6)
*ITCS	475	Mathematical Programming	3 (3 – 0 – 6)

Language

			Credits (Lecture-Lab)
ITLG	101	Technical English I	2 (1 – 2 – 3)
ITLG	102	Technical English II	2 (1 – 2 – 3)
ITLG	201	Reading Skills	2 (1 – 2 – 3)
ITLG	202	Public Speaking and Presentation	2 (1 – 2 – 3)
ITLG	301	Business Writing	2 (1 – 2 – 3)
ITLG	302	Academic Writing	2 (1 – 2 – 3)

Health

			Credits (Lecture-Lab)
SPGE	102	Yoga for Health	1 (0 – 2 – 1)
SPGE	105	Soccer	1 (0 – 2 – 1)
MSMS	107	Film Appreciation	2 (2 – 0 – 4)
MSID	101	Music Appreciations	2 (1 – 2 – 3)

ITGE	141	Digital Photography	1 (0 – 2 – 1)
ITGE	142	Digital Drawing and Painting	1 (0 – 2 – 1)

Specific Education Courses

Core courses

			Credits (Lecture-Lab)
ITCS	125	Applied Statistics for Computing	3 (3 – 0 – 6)
ITCS	175	Advanced Mathematics I for Computer Science	3 (3 – 0 – 6)
ITCS	306	Numerical Method	3 (3 – 0 – 6)
ITCS	320	Discrete Structures	3 (3 – 0 – 6)

Compulsory courses

			Credits (Lecture-Lab)
ITCS	200	Fundamentals of Programming	3 (3 – 0 – 6)
ITCS	208	Object Oriented Programming	3 (3 – 0 – 6)
ITCS	210	Web Programming	3 (3 – 0 – 6)
ITCS	211	Introduction to Digital Systems	3 (3 – 0 – 6)
ITCS	222	Computer Organization and Architecture	3 (3 – 0 – 6)
ITCS	231	Data Structures and Algorithm Analysis	3 (3 – 0 – 6)
ITCS	241	Database Management Systems	3 (3 – 0 – 6)
ITCS	335	Introduction to E-business Systems	3 (3 – 0 – 6)
ITCS	336	Human Computer Interface	3 (3 – 0 – 6)
ITCS	343	Principles of Operating Systems	3 (3 – 0 – 6)
ITCS	361	Management Information Systems	3 (3 – 0 – 6)
ITCS	371	Introduction to Software Engineering	3 (3 – 0 – 6)
ITCS	381	Introduction to Multimedia Systems	3 (3 – 0 – 6)
ITCS	402	Computer and Business Ethics	3 (3 – 0 – 6)
ITCS	414	Information Storage and Retrieval	3 (3 – 0 – 6)
ITCS	420	Computer Networks	3 (3 – 0 – 6)
ITCS	424	Wireless and Mobile Computing	3 (3 – 0 – 6)
ITCS	443	Parallel and Distributed Systems	3 (3 – 0 – 6)
ITCS	451	Artificial Intelligence	3 (3 – 0 – 6)
ITCS	461	Computer and Communication Security	3 (3 – 0 – 6)
ITCS	491	Senior Project I	3 (3 – 0 – 6)

ITCS	492	Senior Project II	3 (3 – 0 – 6)
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Major Elective Courses

			Credits (Lecture-Lab)
ITCS	331	Organization of Programming Languages	3 (3 – 0 – 6)
ITCS	362	Geographic Information Systems	3 (3 – 0 – 6)
ITCS	364	Knowledge Management	3 (3 – 0 – 6)
ITCS	365	Information System Analysis and Design	3 (3 – 0 – 6)
ITCS	366	Enterprise Architecture	3 (3 – 0 – 6)
ITCS	367	IT Infrastructure Management	3 (3 – 0 – 6)
ITCS	368	Information and Business Process Management	3 (3 – 0 – 6)
ITCS	379	Practical Software Engineering	3 (3 – 0 – 6)
ITCS	403	Introduction to Healthcare Systems	3 (3 – 0 – 6)
ITCS	404	Information Technology for Healthcare Services	3 (3 – 0 – 6)
ITCS	405	Information Models and Healthcare Information Standards	3 (3 – 0 – 6)
ITCS	407	Practical Healthcare Management	3 (3 – 0 – 6)
ITCS	409	Special Topics in Healthcare System	3 (3 – 0 – 6)
ITCS	412	Distributed Database Systems	3 (3 – 0 – 6)
ITCS	413	Database Design	3 (3 – 0 – 6)
ITCS	422	Local Area Networks	3 (3 – 0 – 6)
ITCS	423	Telecommunication	3 (3 – 0 – 6)
ITCS	425	Algorithms	3 (3 – 0 – 6)
ITCS	427	Broadband Network	3 (3 – 0 – 6)
ITCS	428	Network Programming	3 (3 – 0 – 6)
ITCS	429	Computer Forensics	3 (3 – 0 – 6)
ITCS	431	Software Design and Development	3 (3 – 0 – 6)
ITCS	432	Component-Based Computing	3 (3 – 0 – 6)
ITCS	433	Production, Supply Chain and Logistics Management	3 (3 – 0 – 6)
ITCS	435	Business Decision Analysis	3 (3 – 0 – 6)
ITCS	437	Project Management and Practice	3 (3 – 0 – 6)
ITCS	438	E-Business Modeling and Development	3 (3 – 0 – 6)
ITCS	439	E-Customer Relationship Management	3 (3 – 0 – 6)
ITCS	440	Principles of Compiler Design	3 (3 – 0 – 6)

ITCS	445	High Performance Computing	3 (3 – 0 – 6)
ITCS	446	Embedded Systems and Applications	3 (3 – 0 – 6)
ITCS	452	Knowledge-Based Systems	3 (3 – 0 – 6)
ITCS	453	Data Warehousing and Data Mining	3 (3 – 0 – 6)
ITCS	455	Natural Language Processing	3 (3 – 0 – 6)
ITCS	456	Machine Learning and Intelligent Systems	3 (3 – 0 – 6)
ITCS	457	Decision Support and Business Intelligent Systems	3 (3 – 0 – 6)
ITCS	465	Network Management	3 (3 – 0 – 6)
ITCS	471	Software Requirement Analysis and Specification	3 (3 – 0 – 6)
ITCS	472	Software Metrics	3 (3 – 0 – 6)
ITCS	473	Software Quality Assurance and Testing	3 (3 – 0 – 6)
ITCS	476	Digital Image Processing	3 (3 – 0 – 6)
ITCS	478	Pattern Recognition	3 (3 – 0 – 6)
ITCS	481	Computer Graphics	3 (3 – 0 – 6)
ITCS	483	Computer Animation	3 (3 – 0 – 6)
ITCS	485	Multimedia Information Systems	3 (3 – 0 – 6)
ITCS	486	Multimedia Data Technologies	3 (3 – 0 – 6)
ITCS	487	Multimedia Authoring and Production	3 (3 – 0 – 6)
ITCS	488	Multimedia Development and Deployment	3 (3 – 0 – 6)
ITCS	490	Special Topics in Software Engineering	3 (3 – 0 – 6)
ITCS	491	Senior Project I	3 (3 – 0 – 6)
ITCS	492	Senior Project II	3 (3 – 0 – 6)
ITCS	493	Special Topics in Computer Networks	3 (3 – 0 – 6)
ITCS	494	Special Topics in Electronic Business	3 (3 – 0 – 6)
ITCS	495	Special Topics in Databases and Intelligent Systems	3 (3 – 0 – 6)
ITCS	496	Special Topics in Multimedia Systems	3 (3 – 0 – 6)
ITCS	498	Special Topics in Computer Science	3 (3 – 0 – 6)

Elective Courses

			Credits (Lecture-Lab)
ITCS	159	Software Lab for Basic Scientific Problem Solving	3 (3 – 0 – 6)
ITID	274	Basic Accounting	3 (3 – 0 – 6)

ITID	275	Economics	2 (2 – 0 – 4)
ITID	276	Management	2 (2 – 0 – 4)
ITID	277	Digital Marketing	2 (2 – 0 – 4)
ITCS	363	Information Systems in Organization	3 (3 – 0 – 6)
ITCS	376	Advanced Mathematics II for Computer Science	3 (3 – 0 – 6)
ITCS	391	Computer Network Lab	1 (0 – 2 – 1)
ITCS	392	Multimedia Systems Lab	1 (0 – 2 – 1)
ITCS	393	Database Systems Lab	1 (0 – 2 – 1)
ITCS	398	Cooperative Education	3 (0 – 6 – 3)
ITCS	399	Internship	3 (0 – 6 – 3)
ITCS	497	Independent Study	3 (0 – 6 – 3)