MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE OURO PRETO
PRÓ-REITORIA DE GRADUAÇÃO

UFOP

COURSE OF INFORMATION SYSTEMS - 2026/2(curriculum 3)

JOAO MONLEVADE'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
CEA059	FUNDAMENTALS OF ANALYTICAL GEOMETRY AND LINEAR ALGEBRA		60/0	72	4	0	1
CEA060	FUNDAMENTALS OF CALCULUS		60/0	72	4	0	1
CSI101	COMPUTER PROGRAMMING I		60/0	72	2	2	1
CSI601	FUNDAMENTALS OF INFORMATION SYSTEMS		60/0	72	4	0	1
CSI901	INFORMATICS AND SOCIETY		30/0	36	2	0	1
CSI902	RESEARCH METHODOLOGY		30/0	36	2	0	1
CSI011	DISCRETE MATHEMATICS		60/0	72	4	0	2
CSI102	COMPUTER PROGRAMMING II	CSI101	60/0	72	2	2	2
CSI103	ALGORITHMS AND DATA STRUCTURES I	CSI101	60/0	72	2	2	2
CSI807	INFORMATION MANAGEMENT		60/0	72	4	0	2
ENP144	GENERAL THEORY OF MANAGEMENT		60/0	72	4	0	2
CEA055	STATISTICS AND PROBABILITY	CEA060	60/0	72	4	0	3
CSI104	ALGORITHMS AND DATA STRUCTURES II	CSI102 CSI103	60/0	72	3	1	3
CSI115	ALGORITHMS AND DATA STRUCTURES III	CSI011 CSI103	60/0	72	3	1	3
CSI211	FUNDAMENTALS OF COMPUTER ARCHITECTURE AND ORGANIZATION		60/0	72	4	0	3
ENP473	ORGANIZATIONAL BEHAVIOR		60/0	72	4	0	3
CSI204	OPERATING SYSTEMS	CSI103 CSI211	60/0	72	4	0	4
CSI412	SOFTWARE ENGINEERING I	CSI102 CSI103	60/0	72	4	0	4
CSI602	DATABASE I	CSI103	60/0	72	4	0	4
ENP012	LINEAR AND INTEGER PROGRAMMING	CEA059 CSI103	60/0	72	3	1	4
ENP150	ECONOMICS	CEA060	60/0	72	4	0	4
CSI106	THEORETICAL FUNDAMENTALS OF COMPUTING	CSI115	60/0	72	4	0	5
CSI301	COMPUTER NETWORKS I	CSI101 CSI211	60/0	72	3	1	5
CSI410	SOFTWARE ENGINEERING II	CSI412	60/0	72	4	0	5
CSI522	HUMAN-COMPUTER INTERACTION	CSI412	60/0	72	4	0	5
CSI701	ARTIFICIAL INTELLIGENCE	CSI115	60/0	72	4	0	5
CSI990	INTEGRATOR PROJECT I	900 hours	30/30	36	2	0	5
CSI114	PROGRAMMING LANGUAGES	CSI106	60/0	72	4	0	6
CSI302	DISTRIBUTED SYSTEMS	CSI204 CSI301	60/0	72	3	1	6
CSI405	SOFTWARE PROJECT MANAGEMENT	CSI410	60/0	72	4	0	6
CSI606	WEB SYSTEMS I	CSI412 CSI602	60/0	72	2	2	6
CSI991	INTEGRATOR PROJECT II	CSI990	90/90	108	2	4	6
CSI808	INFORMATION TECHNOLOGY MANAGEMENT	CSI807	60/0	72	4	0	7
CSI992	UNDERGRADUATE THESIS I	1800 hours CSI902	30/0	36	0	2	7
ENP026	HUMAN RESOURCE MANAGEMENT		60/0	72	4	0	7
ENP493	ENTREPRENEURSHIP	1800 hours	60/0	72	4	0	7
CSI307	SECURITY AND AUDITING SYSTEMS	CSI301	60/0	72	4	0	8
CSI605	DECISION SUPPORT SYSTEMS	CSI601 CSI602	60/0	72	3	1	8
CSI997	UNDERGRADUATE THESIS II	CSI992	30/0	36	0	2	8

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
CEA037	DATA EXPLORATION AND VISUALIZATION	CEA055 CSI101	60/0	72	4	0	
CEA040	STRUCTURE AND DYNAMICS OF COMPLEX NETWORKS	CEA055 CEA059 CEA060 CSI103	60/0	72	4	0	
CEA042	ALGEBRA AND APPLICATIONS	CEA059 CEA060	60/0	72	4	0	
CEA043	APPLICATIONS OF LINEAR ALGEBRA	CEA059 CEA060	60/0	72	4	0	

SWL – SEMESTER WORKLOAD IN HOURS; EWL – EXTENSION WORKLOAD IN HOURS; CWL - 50 MINUTE CLASS WORKLOAD; P - PRACTICAL CLASSES; T - THEORY CLASSES; SEM - SEMESTER

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE OURO PRETO
PRÓ-REITORIA DE GRADUAÇÃO

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL/EWL	CWL	CLASSES		SEM
					T	P	
CEA045	BAYESIAN NETWORKS	CEA059 CEA060	60/0	72	4	0	
CEA068	FINANCIAL MATHEMATICS	CEA060	60/0	72	4	0	
CEA076	INTRODUCTION TO THE BRAZILIAN SIGN LANGUAGE		60/0	72	2	2	
CSI109	COMPILERS I	CSI106	60/0	72	4	0	
CSI111	LOGIC APPLIED TO COMPUTING	CSI011 CSI103	60/0	72	4	0	
CSI206	SYSTEMS PERFORMANCE EVALUATION	CSI302	60/0	72	4	0	
CSI207	ROBOTICS	CSI101 CSI211	60/0	72	2	2	
CSI208	HARDWARE DESCRIPTION LANGUAGES	CSI101 CSI211	60/0	72	2	2	
CSI210	COMPUTER ARCHITECTURE AND ORGANIZATION II	CSI211	60/0	72	4	0	
CSI304	COMPUTER NETWORKS II	CSI301	60/0	72	3	1	
CSI305	INTERNET OF THINGS	CSI301	60/0	72	4	0	
CSI306	MOBILE COMPUTING	CSI301	60/0	72	4	0	
CSI308	NETWORK SECURITY	CSI301	60/0	72	2	2	
CSI406	AGILE SOFTWARE DEVELOPMENT	CSI412	60/0	72	4	0	
CSI408	SOFTWARE TESTS	CSI412	60/0	72	4	0	
CSI409	PROJECT STANDARDS	CSI410 CSI603	60/0	72	3	1	
CSI411	SOFTWARE QUALITY	CSI412	60/0	72	4	0	
CSI505	ASSESSMENT OF INTERACTIVE SYSTEMS	CSI522	60/0	72	4	0	
CSI507	GAME DESIGN AND DEVELOPMENT	CSI101	60/0	72	4	0	
CSI521	WEB ACCESSIBILITY	CSI522 CSI606	60/0	72	2	2	
CSI523	GAME DESIGN AND DEVELOPMENT LAB	CSI101	60/0	72	1	3	
CSI603	DATABASE II	CSI104 CSI602	60/0	72	4	0	
CSI607	WEB SYSTEMS II	CSI606	60/0	72	2	2	
CSI608	PROGRAMMING FOR MOBILE DEVICES	CSI412	60/0	72	1	3	
CSI609	SOCIAL MEDIA ANALYSIS	CSI115	60/0	72	2	2	
CSI702	COMPUTATIONAL INTELLIGENCE FOR OPTIMIZATION	CSI701 ENP012	60/0	72	2	2	
CSI703	EVOLUTIONARY COMPUTING	CSI701 ENP012	60/0	72	2	2	
CSI704	MACHINE LEARNING	CSI701	60/0	72	4	0	
CSI705	DEEP LEARNING	CSI701	60/0	72	4	0	
CSI706	COMPUTER GRAPHICS	CSI103	60/0	72	4	0	
CSI707	DIGITAL IMAGE PROCESSING	CEA059 CSI103	60/0	72	3	1	
CSI708	COMPUTER VISION	CEA059 CSI101	60/0	72	4	0	
CSI709	ONTOLOGICAL ENGINEERING AND FUZZY LOGIC	CSI114 CSI701	60/0	72	4	0	
CSI710	DESIGN AND ANALYSIS OF EXPERIMENTS	CEA055	60/0	72	3	1	
CSI711	DATA MINING	CSI602	60/0	72	0	4	
CSI803	GEOGRAPHIC DATABASES	CSI602	60/0	72	4	0	
CSI804	GEOPROCESSING AND GEOGRAPHIC INFORMATION SYSTEMS	CSI602	60/0	72	4	0	
CSI805	MODELING AND SIMULATION OF LAND SYSTEMS	CSI102 CSI103	60/0	72	4	0	
CSI806	WEARABLE COMPUTING	CSI211	60/0	72	4	0	
ELT580	MICROPROCESSORS AND MICROCONTROLLERS	CSI211	60/0	72	2	2	
ENP005	ERGONOMICS	ENP473	60/0	72	4	0	
ENP009	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	CSI601 ENP144	60/0	72	4	0	
ENP014	LABOR ORGANIZATION	ENP473	60/0	72	4	0	
ENP022	QUALITY MANAGEMENT	CEA055	60/0	72	4	0	
ENP023	ENGINEERING ECONOMICS	ENP012 ENP150	60/0	72	4	0	
ENP025	KNOWLEDGE MANAGEMENT	CSI807	60/0	72	4	0	
ENP043	ETHICS AND RESPONSIBILITY SOCIAL AND ENVIRONMENTAL		60/0	72	4	0	
ENP122	PRODUCTION PLANNING AND CONTROL I	ENP150	60/0	72	4	0	
ENP151	SCIENCE, TECHNOLOGY, AND SOCIETY		60/0	72	4	0	
ENP154	STRATEGIC AND MARKETING PLANNING	ENP150	60/0	72	4	0	
ENP155	INDUSTRIAL COSTS	ENP150	60/0	72	4	0	
ENP157	STATISTICS II	CEA055 CEA059	60/0	72	3	1	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV021		1200	MANDATORY	150	
ATV100			MANDATORY	150	

SWL – SEMESTER WORKLOAD IN HOURS; EWL – EXTENSION WORKLOAD IN HOURS; CWL - 50 MINUTE CLASS WORKLOAD; P - PRACTICAL CLASSES; T - THEORY CLASSES; SEM - SEMESTER

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV300			MANDATORY	180	

Required Courses Load		Work Load
Mandatory Disciplines		2220
Elective Disciplines		300
Optative Disciplines		0
Facultative Disciplines		0
Activities		480
Extensions		300
	Total	3000