



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



COURSE OF INFORMATION SYSTEMS - 2020/1(curriculum 1)

JOAO MONLEVADE'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
CEA036	FUNDAMENTALS OF ANALYTICAL GEOMETRY AND LINEAR ALGEBRA		60	72	4	0	1
CEA423	FUNDAMENTALS OF CALCULUS		60	72	4	0	1
CSI030	COMPUTER PROGRAMMING I		60	72	2	2	1
CSI145	INFORMATION SYSTEM THEORY AND PRINCIPLES		60	72	4	0	1
CSI427	RESEARCH METHODOLOGY APPLIED TO COMPUTING		30	36	2	0	1
CSI491	INFORMATICS AND SOCIETY		30	36	2	0	1
CSI032	COMPUTER PROGRAMMING II	CSI030	60	72	2	2	2
CSI443	DISCRETE MATHEMATICS		60	72	4	0	2
CSI460	INFORMATION MANAGEMENT		60	72	4	0	2
CSI488	ALGORITHMS AND DATA STRUCTURES I	CSI030	60	72	3	1	2
ENP144	GENERAL THEORY OF ADMINISTRATION		60	72	4	0	2
CEA307	STATISTICS AND PROBABILITY	CEA423	60	72	4	0	3
CSI424	FUNDAMENTALS OF COMPUTER ARCHITECTURE		60	72	4	0	3
CSI429	ALGORITHMS AND DATA STRUCTURES II	CSI032 CSI488	60	72	4	0	3
CSI466	GRAPHS THEORY	CSI443 CSI488	60	72	4	0	3
ENP473	ORGANIZATIONAL BEHAVIOR		60	72	4	0	3
CSI437	OPERATIONAL SYSTEMS	CSI424 CSI488	60	72	4	0	4
CSI440	DATABASE I	CSI488	60	72	4	0	4
CSI485	SOFTWARE ENGINEERING I	CSI032 CSI488	60	72	4	0	4
ENP150	ECONOMICS	CEA423	60	72	4	0	4
ENP153	LINEAR PROGRAMMING	CEA036 CSI030 CSI488	60	72	3	1	4
CSI426	FUNDAMENTALS OF COMPUTER NETWORK	CSI437	60	72	4	0	5
CSI442	DATABASE II	CSI429 CSI440	60	72	4	0	5
CSI457	ARTIFICIAL INTELLIGENCE	CSI466	60	72	4	0	5
CSI476	THEORETICAL FUNDAMENTALS OF COMPUTER	CSI466	60	72	4	0	5
CSI486	SOFTWARE ENGINEERING II	CSI485	60	72	4	0	5
CSI419	PROGRAMMING LANGUAGES	CSI476	60	72	4	0	6
CSI433	DISTRIBUTED SYSTEMS	CSI426	60	72	4	0	6
CSI450	HUMAN-COMPUTER INTERACTION	CSI485	60	72	4	0	6
CSI477	WEB SYSTEMS I	CSI426 CSI440 CSI486	60	72	2	2	6
CSI735	SOFTWARE PROJECT MANAGEMENT	CSI486	60	72	4	0	6
CSI439	INFORMATION TECHNOLOGY MANAGEMENT	CSI460	60	72	4	0	7
CSI498	UNDERGRADUATE THESIS I	1800 hours CSI427	90	108	0	6	7
ENP126	HUMAN RESOURCES MANAGEMENT		60	72	4	0	7
ENP493	ENTREPRENEURSHIP	1800 hours	60	72	4	0	7
CSI462	DECISION SUPPORT SYSTEMS	CSI145 CSI440 ENP153	60	72	4	0	8
CSI463	SYSTEMS AUDIT AND SECURITY	CSI486	60	72	4	0	8
CSI499	UNDERGRADUATE THESIS II	CSI498	60	72	0	4	8

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
CSI001	SOCIAL MEDIA ANALYSIS	CSI466	60	72	4	0	
CSI401	DEVELOPMENT FOR MOBILE DEVICES		60	72	1	3	
CSI402	MOBILE COMPUTING		60	72	4	0	
CSI434	TOPICS IN COMPUTER NETWORKS	CSI426	60	72	4	0	
CSI455	EXPERT SYSTEM	CSI030 CSI457	60	72	4	0	
CSI472	COMPUTATIONAL INTELLIGENCE FOR OPTIMIZATION	CSI488	60	72	4	0	
CSI501	INTRODUCTION TO ROBOTICS	CSI030 CSI424	60	72	2	2	
CSI502	HARDWARE DESCRIPTION LANGUAGE	CSI030 CSI424	60	72	2	2	



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					T	P	
CSI503	AGILE SOFTWARE DEVELOPMENT	CSI485	60	72	2	2	
CSI506	COMPILERS I	CSI476	60	72	4	0	
CSI508	COMPUTER GRAPHICS	CSI488	60	72	4	0	
CSI510	COMPUTER NETWORKS II	CSI426	60	72	3	1	
CSI511	TOPICS IN DATABASE I	CSI440	60	72	4	0	
CSI512	TOPICS IN SOFTWARE ENGINEERING I	CSI485	60	72	4	0	
CSI513	TOPICS IN SYSTEM DEVELOPMENT I	CSI440 CSI485	60	72	4	0	
CSI514	TOPICS IN INFORMATION SYSTEMS I	CSI145 CSI485	60	72	4	0	
CSI516	TOPICS IN SYSTEM DEVELOPMENT II	CSI440 CSI485 CSI486	60	72	4	0	
CSI517	TOPICS IN DATABASE II	CSI442	60	72	4	0	
CSI518	INTERNSHIP II - LABOR AND SOCIAL SECURITY PRACTICE	CSI486	60	72	4	0	
CSI519	TOPICS IN INFORMATION SYSTEMS II	CSI145 CSI485	60	72	4	0	
CSI520	TOPICS IN ARTIFICIAL INTELLIGENCE	CSI457	60	72	4	0	
CSI546	ALGORITHM DESIGN AND ANALYSIS	CSI466	60	72	4	0	
CSI549	ASSESSMENT OF INTERACTIVE SYSTEMS	CSI450	60	72	4	0	
CSI557	EVOLUTIONARY COMPUTATION	CSI457 ENP153	60	72	2	2	
CSI558	MODEL DIRECTED DEVELOPMENT	CSI485	60	72	4	0	
CSI559	FUNDAMENTALS OF PROGRAMMING LANGUAGES	CSI419	60	72	4	0	
CSI564	GEOPROCESSING AND GEOGRAPHIC INFORMATION SYSTEMS	900 hours CSI440	60	72	4	0	
CSI565	DOMAIN-SPECIFIC LANGUAGES		60	72	4	0	
CSI566	MODELING AND SIMULATION OF LAND SYSTEMS	900 hours CSI032 CSI488	60	72	4	0	
CSI567	PROJECT STANDARDS	CSI442 CSI486	60	72	3	1	
CSI568	SOFTWARE QUALITY	CSI485	60	72	4	0	
CSI569	FORMAL SEMANTICS	CSI419	60	72	4	0	
CSI574	TYPES SYSTEMS	CSI419	60	72	4	0	
CSI575	WEB SYSTEMS II	CSI477	60	72	2	2	
CSI576	SOFTWARE TESTS	CSI485	60	72	4	0	
CSI577	LOGIC APPLIED COMPUTING	CSI443 CSI488	60	72	4	0	
CSI578	TOPICS IN PROGRAMMING LANGUAGES	CSI419	60	72	4	0	
CSI729	WEB ACCESSIBILITY	CSI450 CSI477	60	72	2	2	
CSI730	TOPICS IN COMPUTING SYSTEMS	CSI032 CSI488	60	72	4	0	
CSI731	GEOGRAPHIC DATABASES	CSI440	60	72	4	0	
CSI732	ONTOLOGICAL ENGINEERING AND FUZZY LOGIC	CSI419 CSI457	60	72	4	0	
CSI733	MACHINE LEARNING	CSI457	60	72	4	0	
CSI734	INTERNET OF THINGS	CSI426	60	72	4	0	
ENP005	ERGONOMICS	750 hours	60	72	4	0	
ENP014	LABOR ORGANIZATION	ENP005	60	72	4	0	
ENP022	QUALITY MANAGEMENT	CEA307	60	72	4	0	
ENP025	KNOWLEDGE MANAGEMENT	1800 hours	60	72	4	0	
ENP119	LOGISTICS	1200 hours	60	72	4	0	
ENP122	PLANNING AND PRODUCTION CONTROL I	1200 hours	60	72	4	0	
ENP151	SCIENCE, TECHNOLOGY AND SOCIETY		60	72	4	0	
ENP152	ETHICS AND SOCIAL AND ENVIRONMENTAL RESPONSIBILITY		60	72	4	0	
ENP155	INDUSTRIAL COSTS	1800 hours	60	72	4	0	
ENP160	OPTIMIZATION COMBINING	ENP153	60	72	3	1	
ENP534	PROJECT MANAGEMENT	1800 hours ENP144	60	72	4	0	
ENP560	NETWORK OPTIMIZATION	ENP160	60	72	3	1	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV021	SUPERVISED INTERNSHIP	1200	MANDATORY	210	
ATV100	ACADEMIC-SCIENTIFIC-CULTURAL ACTIVITY		MANDATORY	240	



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Required Courses Load	Work Load
Mandatory Disciplines	2250
Elective Disciplines	300
Optative Disciplines	0
Facultative Disciplines	0
Activities	450
<b>Total</b>	<b>3000</b>