



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



COURSE OF PRODUCTION ENGINEERING - 2020/1(curriculum 2)

JOAO MONLEVADE'S CAMPUS

CODE	MANDATORY DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
CEA001	ANALYTIC GEOMETRY AND LINEAR ALGEBRA		60	72	4	0	1
CEA031	GENERAL CHEMISTRY		60	72	2	2	1
CEA160	DIFFERENTIAL AND INTEGRAL CALCULUS I		60	72	4	0	1
CSI030	COMPUTER PROGRAMMING I		60	72	2	2	1
ENP100	INTRODUCTION TO PRODUCTION ENGINEERING		30	36	2	0	1
ENP101	INTRODUCTION TO SCIENTIFIC METHODOLOGY		30	36	2	0	1
CEA003	PHYSICS I	CEA160	60	72	3	1	2
CEA301	DIFFERENTIAL AND INTEGRAL CALCULUS II	CEA001 CEA160	60	72	4	0	2
CSI428	ALGORITHMS AND DATA STRUCTURES I	CSI030	60	72	2	2	2
ENP004	GRAPHIC EXPRESSION I		60	72	2	2	2
ENP152	ETHICS AND SOCIAL AND ENVIRONMENTAL RESPONSIBILITY		60	72	4	0	2
CEA006	DIFFERENTIAL AND INTEGRAL CALCULUS III	CEA160 CEA301	60	72	4	0	3
CEA007	PHYSICS II	CEA003 CEA301	60	72	3	1	3
CEA012	PROBABILITY	CEA160 CEA301	60	72	4	0	3
CEA302	INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS	CEA301	60	72	4	0	3
ENP151	SCIENCE, TECHNOLOGY AND SOCIETY		60	72	4	0	3
CEA013	PHYSICS III	CEA006 CEA007	60	72	3	1	4
CEA020	STATISTICS	CEA012	60	72	4	0	4
CEA404	NUMERICAL CALCULUS	CEA007 CEA301 CEA302 CSI030	60	72	2	2	4
ENP005	ERGONOMICS	750 hours	60	72	4	0	4
ENP153	LINEAR PROGRAMMING	CEA001 CSI030 CSI428	60	72	3	1	4
ENP014	LABOR ORGANIZATION	ENP005	60	72	4	0	5
ENP015	MICROECONOMICS	CEA006 CEA020	60	72	4	0	5
ENP017	ORGANIZATIONAL THEORY	ENP005	60	72	4	0	5
ENP157	STATISTICS II	CEA012 CEA020	60	72	3	1	5
ENP160	OPTIMIZATION COMBINING	ENP153	60	72	3	1	5
CEA700	PRINCIPLES OF MATERIAL SCIENCE	CEA031	60	72	2	2	6
ENP019	WORK PSYCHOLOGY	ENP014	60	72	4	0	6
ENP022	QUALITY MANAGEMENT	CEA020	60	72	4	0	6
ENP154	STRATEGIC PLANNING AND MARKET	1050 hours ENP015	60	72	4	0	6
ENP155	INDUSTRIAL COSTS	1200 hours	60	72	4	0	6
ENP023	ECONOMIC ENGINEERING	CEA012 CEA020 ENP015 ENP155	60	72	4	0	7
ENP025	KNOWLEDGE MANAGEMENT	ENP017 ENP154	60	72	4	0	7
ENP122	PLANNING AND PRODUCTION CONTROL I	1200 hours	60	72	4	0	7
ENP141	STATISTICAL QUALITY CONTROL	ENP022	60	72	4	0	7
ENP701	MECHANICAL PROCESS ENGINEERING	CEA700	60	72	2	2	7
ENP119	LOGISTICS	1200 hours	60	72	4	0	8
ENP123	PLANNING AND PRODUCTION CONTROL II	ENP122	60	72	4	0	8
ENP159	PRODUCT DEVELOPMENT SYSTEM	ENP004 ENP023 ENP157	60	72	3	1	8
ENP534	PROJECT MANAGEMENT	ENP017 ENP122 ENP154	60	72	4	0	8
ATV029	UNDERGRADUATE THESIS PROJECT ELABORATION	2100 hours	30	36	2	0	9
CSI009	FUNDAMENTALS OF INFORMATION SYSTEMS	2100 hours	60	72	4	0	9
ENP028	SUPPLY CHAIN MANAGEMENT	ENP119	60	72	4	0	9
ENP158	PRODUCTIVE AND LOGISTICS SYSTEMS MODELING I	CEA020 ENP119 ENP122 ENP160	60	72	3	1	9
ENP029	ENVIRONMENTAL MANAGEMENT	2100 hours	60	72	4	0	10



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					T	P	
ENP156	SERVICES MANAGEMENT	ENP014 ENP017 ENP154	60	72	4	0	10
ENP161	DISCRETE EVENT SIMULATION	CEA012 CSI428 ENP160	60	72	3	1	10

CODE	ELECTIVE DISCIPLINES	PREREQUISITE	SWL	CWL	CLASSES		SEM
					T	P	
CSI457	ARTIFICIAL INTELLIGENCE	1500 hours	60	72	4	0	
CSI485	SOFTWARE ENGINEERING I	1500 hours	60	72	4	0	
CSI486	SOFTWARE ENGINEERING II	1500 hours	60	72	4	0	
ENP011	LABOUR ERGONOMIC ANALYSIS	ENP005	60	72	4	0	
ENP018	COMPANY NETWORKS	ENP025	60	72	4	0	
ENP027	PRODUCTION SYSTEMS AUTOMATION	1500 hours	60	72	4	0	
ENP126	HUMAN RESOURCES MANAGEMENT	1500 hours	60	72	4	0	
ENP129	FINANCIAL ADMINISTRATION	1500 hours	60	72	4	0	
ENP460	INFORMATION MANAGEMENT	1500 hours	60	72	4	0	
ENP524	TOPICS IN STRATEGIC MANAGEMENT	ENP022 ENP025	60	72	4	0	
ENP525	INDUSTRIAL ORGANIZATION	ENP019	60	72	4	0	
ENP526	DESIGN OF INDUSTRIAL EXPERIMENTS II	CEA020	60	72	3	1	
ENP527	ENGINEERING PROCESS, RISKS AND LOSS PREVENTION	1500 hours	60	72	4	0	
ENP529	PRODUCTION STRATEGY	ENP017 ENP122 ENP154	60	72	4	0	
ENP530	PROCESS MANAGEMENT	CSI009 ENP022 ENP025	60	72	4	0	
ENP533	TOPICS IN PRODUCTION MANAGEMENT	2100 hours	60	72	4	0	
ENP536	TOPICS IN PRODUCT PROJECT	1500 hours	60	72	4	0	
ENP537	ECONOMETRICS	1500 hours	60	72	4	0	
ENP541	REAL SITUATION ERGONOMICS	ENP019	60	72	4	0	
ENP542	COGNITIVE ERGONOMICS AND KNOWLEDGE ENGINEERING	ENP019	60	72	4	0	
ENP543	ERGONOMIC PSYCHOLOGY	ENP019	60	72	4	0	
ENP544	NONLINEAR PROGRAMMING	1500 hours	60	72	4	0	
ENP545	INNOVATION MANAGEMENT AND TECHNOLOGY	1500 hours	60	72	4	0	
ENP546	STRATEGIC PLANNING: IMPLEMENTATION AND CONTROL	ENP154	60	72	4	0	
ENP547	DECISION MAKING PROCESSES	ENP019 ENP154	60	72	4	0	
ENP548	THEORY OF STRATEGY	ENP154	60	72	4	0	
ENP549	POWER POLITICAL ECONOMICS	ENP019	60	72	4	0	
ENP550	SOLIDARITY PROJECT MANAGEMENT	1500 hours	60	72	4	0	
ENP551	WORK SAFETY AND ERGONOMICS ACTIVITY	ENP019	60	72	4	0	
ENP552	ERGONOMICS, COGNITION AND ACTION	ENP019	60	72	4	0	
ENP553	HUMAN ERROR PREVENTION IN PRODUCTIVE SYSTEMS	ENP019	60	72	4	0	
ENP554	BEHAVIORAL SAFETY AT WORKPLACE	ENP019	60	72	4	0	
ENP555	WORK RELATIONS	ENP014 ENP017	60	72	4	0	
ENP556	WORK ENGINEERING	1500 hours ENP005	60	72	4	0	
ENP557	HEURISTICS AND METAHEURISTICS	CSI428 ENP160	60	72	3	1	
ENP558	DYNAMIC PROGRAMMING	CEA012 CSI428 ENP160	60	72	3	1	
ENP559	GAME THEORY	CEA012 ENP015 ENP023 ENP160	60	72	3	1	
ENP560	NETWORK OPTIMIZATION	ENP160	60	72	3	1	
ENP561	PRODUCTIVE AND LOGISTICS SYSTEMS MODELING II	ENP160	60	72	3	1	
ENP562	ACTIVITY-BASED COSTING	CEA020 ENP155	60	72	4	0	
ENP563	INVESTMENTS UNDER UNCERTAINTY	CEA012 CEA020 ENP015 ENP023	60	72	4	0	
ENP564	DERIVATIVES CAPITAL MARKET	CEA012 CEA020 ENP015 ENP023	60	72	4	0	
ENP565	METHODS AND TECHNIQUES APPLIED TO PRODUCTION SYSTEM	ENP122 ENP123	60	72	4	0	



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					T	P	
ENP566	ENERGY AND ENVIRONMENT	1500 hours ENP152	60	72	4	0	
ENP567	STATISTICAL METHODS FOR RELIABILITY	CEA012 CEA020	60	72	4	0	
ENP568	TOPICS IN ORGANIZATIONAL ENGINEERING	ENP025	60	72	4	0	
ENP569	TOPICS IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT	2100 hours	60	72	4	0	
ENP570	TOPICS IN OPERATIONAL RESEARCH	ENP160	60	72	4	0	
ENP571	TOPICS IN ECONOMIC ENGINEERING	CEA012 CEA020	60	72	4	0	
ENP572	TOPICS IN SUSTAINABILITY ENGINEERING	2100 hours	60	72	4	0	
ENP573	TOPICS IN QUALITY ENGINEERING	2100 hours	60	72	4	0	
ENP574	DECISION MAKING SUPPORT SYSTEMS	1500 hours	60	72	4	0	
ENP575	PRODUCTION ENGINEERING ENTREPRENEURSHIP	ENP017 ENP154 ENP155	60	72	4	0	
ENP576	LARGE SYSTEMS OPTIMIZATION	1500 hours	60	72	3	1	
LET966	INTRODUCTION TO BRAZILIAN SIGN LANGUAGE (LIBRAS)		60	72	2	2	

CODE	ACTIVITIES	PREREQUISITE	CHARACTER	SWL	SEM
ATV025	SUPERVISED INTERNSHIP	1800	MANDATORY	160	
ATV030	MONOGRAPH		MANDATORY	180	
ATV100	ACADEMIC-SCIENTIFIC-CULTURAL ACTIVITY		MANDATORY	240	

Required Courses Load	Work Load
Mandatory Disciplines	2730
Elective Disciplines	300
Optative Disciplines	0
Facultative Disciplines	0
Activities	580
Total	3610