USMP
UNIVERSIDAD DE SAN MARTÍN DE PORRES

PE: Civil Engineering Program
Semester: 2023 - I
Version: 1.0
UAC: January 12, 2023
RR N°: 1055-2022-CU-R-USMP

PROGRAM OF CIVIL ENGINEERING
CURRICULUM 2023-II

CÓDE	TERM / COURSES	CREDITS	REQUIREMENTS
	I		
09066801051	Discrete Mathematics	05	----------
09066301040	Analytic Geometry	04	----------
09000301030	Philosophy	03	----------
09990601020	Intercultural Citizenship	02	----------
09066201020	Introduction to Engineering	02	----------
09000201020	Spanish	02	----------
09071001020	Study Methods	02	----------
09990501010	Accessibility and Universal Design	01	
TR000501010	Activities I	01	----------
TR000101010	English I	01	----------
		23	
	II		
09036602050	Linear Algebra	05	----------
09065502050	Calculus I	05	Discrete Mathematics, Analytic Geometry
09066102030	Drawing and Graphic Design	03	Analytic Geometry
09127402031	Introduction to Economics	03	Intercultural Citizenship
09127502030	Topography	03	----------
09025102020	General Geology (**)	02	Introduction to Engineering
TR000602010	Activities II	01	Activities I
TR000202010	English II	01	English I
		23	
	III		
09065603050	Calculus II	05	Calculus I
09005603050	Physics I	05	Linear Algebra, Calculus I
09005403040	Statistics and Probabilities I	04	Calculus I
09003703030	General Chemistry (**)	03	Introduction to Engineering
09127703030	Materials Technology	03	General Geology
09093903020	Advanced Topography	02	Topography
		22	
	IV		
09007404050	Physics II	05	Physics I
09041204040	Differential Equations	04	Calculus II
09025404040	Statics	04	Physics I
09004904030	Construction I	03	Materials Technology
09025604030	Dynamics	03	Physics I
09026804030	Concrete Technology	03	Materials Technology
		22	
	V		
09026005050	Material Resistance I	05	Statics
09028205041	Roads I	04	Construction I, Advanced Topography
09006705040	Construction II	04	Construction I
09012205046	General Accounting	04	Introduction to Economics
09059705030	Ecology and Environmental Impact (**)	03	Construction I
09093805021	Electrical Installations in Building (**)	02	Construction I, Physics II
		22	
	VI		
09026506050	Fluid Mechanics I	05	Dynamics, Differential Equations
09128106051	Pavements	05	Roads I
09014506041	Financial Management	04	General Accounting
09026106040	Soil Mechanics I	04	General Geology
09026606040	Material Resistance II	04	Material Resistance I
		22	
	VII		
09026907050	Fluid Mechanics II	05	Fluid Mechanics I
09027107040	Structural Analysis I	04	Material Resistance II
09054807041	Project Formulation and Evaluation (**)	04	Financial Management Ecology and Envir
09026707041	Soil Mechanics II	04	Soil Mechanics I, Pavements
09059507041	Budget and Work Schedule (**)	04	Construction II, Electrical Installations in Building and Financial Management
09990707011	Disability and Inclusion	01	Accessibility and Universal Design
		22	

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	VIII		
09029508040	Structural Analysis II	04	Structural Analysis I
09027508041	Reinforced Concrete I	04	Structural Analysis I Soil Mechanics II
09085208041	Project Management - PMI	04	Project Formulation and Evaluation
09013108042	Cost Engineering	04	Budget and Work Schedule
09059608030	Hydrology	03	Fluid Mechanics II
09009608031	Sanitary Installations	03	Fluid Mechanics I
		22	
	IX		
09028609041	Reinforced Concrete II	04	Reinforced Concrete I
09129009040	Earthquake Engineering	04	Structural Analysis II
09128909041	Final Project of Civil Engineering I (**)	04	Project Management - PMI
09030909031	Hydraulics	03	Hydrology, Sanitary Installations
09129409031	Valuation and Appraisal Engineering (**)	03	Project Man - PMI Cost Engineering
09027609020	Steel and Wood Design	02	Structural Analysis II
	Elective	02	
		22	
	X		
09129310041	Water Supply and Sewerage	04	Hydraulics
09129210041	Final Project of Civil Engineering II (**)	04	Final Project of Civil Engineering I Earthquake Engineering
09129510031	Organization and Management of Construction Companies(**)	03	Valuation and Appraisal Engineering
09028510031	Bridges and Artworks	03	Reinforced Concrete II, Steel and Wood Design
09003410022	Ethics and Morals	02	170 Approved Credits
09991210013	Preprofessional Practices (**)	01	154 Approved Credits and 6 months of preprofessional internships completed
	Elective	05	
		22	

	Elective Courses		
09061700040	Strategic Management (**)	04	120 Approved Credits
090942E4040	Foundations Engineering (*)	04	Structural Analysis II
090600E4040	Software Applied to Civil Engineering	04	170 Approved Credits
090292E2031	Roads II	03	Roads I
091300E2030	Transportation Engineering (*)	03	Pavements
090318E3031	Normativity (**)	03	Budget and Work Schedule
090649E3031	Construction Productivity (**)	03	Budget and Work Schedule
09060300030	Safety in Civil Engineering Works	03	120 Approved Credits
090692E1020	Photogrammetry and Aerial Exploration (**)	02	Topography
09086300022	Innovation Management (**)	02	Project Formulation and Evaluation
090667E1021	Leadership and Oratory	02	100 Approved Credits
091299E1020	Maintenance and Conservation of Civil Works (*)	02	Construction II
091298E1020	Alternative Construction Materials (*)	02	Construction II
099913E1020	Quechua (*)(**)	02	176 Approved Credits

(*) Elective courses that are not taught in the 2023-II academic semester.
(**) Virtual Modality

REQUIREMENTS TO OBTAIN THE ACADEMIC DEGREE OF BACHELOR IN CIVIL ENGINEERING

1. To have approved at least a total of two hundred and twenty-two (222) credits.
2. To have passed all the compulsory subjects, which total 215 credits.
3. To have approved at least 7 credits in elective subjects.
4. Accredit, in accordance with the Regulations for Degrees and Titles in force, knowledge of English or another language at the required level.
5. Others, as indicated in the current Regulations for Degrees and Titles.