
 USMP <small>FACULTAD DE INGENIERÍA Y ARQUITECTURA</small>	SCHOOL OF ENGINEERING AND ARCHITECTURE	Year: 2021
	PROFESSIONAL SCHOOL OF CIVIL ENGINEERING	Semester: 2021-II

Civil Engineering II Final Project List

CIVIL ENGINEERING


	last name and names of the student	Title of the project	Description	Surnames and names of the adviser
1	Alcagua I swear, Vladimir Percy Noble zegarra, Jose Gaston	Estimation of water consumption in homes multifamily homes using neural networks in the district of San Isidro.	Compare the different estimation methods in water consumption using neural networks in the district of San Isidro.	Arrieta Freyre, Javier
2	Chavez Quispe emerson louis Solórzano Huarcaya Gabriela	Study of the compressive strength of concrete added with PET recycled plastic in the city of Cusco.	Analyze the physical-mechanical properties of concrete with the addition of PET recycled plastic material.	Arrieta Freyre, Javier
3	Seclen Cespedes, Jose Alonso	Influence of polypropylene fibers (Sika Fiber Force PP48) on the basic properties of concrete	Decree that the influence of polypropylene fibers (Sika Fiber Force PP48) affects the basic properties of concrete.	Arrieta Freyre, Javier
4	Jimena Pierina aguero perez	Flexible pavement design proposal to improve the vehicular trafficability of the local road from La Ramadita to Carhuaquero, province of Chota.	Determine the influence of the pavement design proposal flexible in the vehicular trafficability of the neighborhood road from La Ramadita to Carhuaquero, province of Chota, department of Cajamarca.	Oblitas Santa Maria, Juan Manuel
5	Baltazar Melgarejo, Martin Ulysses	Application of the BRIM (Bridge Information Modeling) methodology as a tool for planning the construction of the substructure of the Avoidance Highway Bridge Mazamarl-Pangoa-Cubantía.	Application of the BRIM methodology in specific sections of the construction of a bridge in order to improve the control of materials, reducing possible additional ones.	Oblitas Santa Maria, Juan Manuel
6	Berrios Carranza Jhael Jhamir Fernandez Zegarra Ricardo Stanislaus	Design of a WWTP for the treatment of wastewater from the Espinal hamlet, Catache district, Santa Cruz province, Cajamarca department	Prepare the design of a WWTP, to contribute to the treatment of wastewater from the Espinal hamlet, Catache district, Santa Cruz province, Cajamarca department.	Oblitas Santa Maria, Juan Manuel
7	Gamarra Cardenas kelvins Meza Orue Yoe	Implementation of the BIM methodology in the G & M commercial galleries project using Revit to optimize costs in meters.	Apply the BIM methodology in the project: "G&M Commercial Galleries" using Revit software for cost optimization"	Oblitas Santa Maria, Juan Manuel
8	Mamani of the Rios, Susan Nigrey	Application of the BIM methodology for design geometric highway case study ACCESS No. 1 of the concentrator plant	Implement the BIM methodology in the geometric design of the access road N°1 of the Toquepala concentrator plant.	Oblitas Santa Maria, Juan Manuel

Elaboration: Ing. Jhony Marín Vásquez January 2022	Revision: Mr. Arnaldo Falcón Soto February 2022	Approval: Mr. Arnaldo Falcón Soto February 2022
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 USMP <small>UNIVERSIDAD NACIONAL DE SAN MARCOS</small> <small>FACULTAD DE INGENIERÍA Y ARQUITECTURA</small>	SCHOOL OF ENGINEERING AND ARCHITECTURE	Year: 2021
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		touch it		
9	Smell Sanchez Diego Alonso	Design of collection and conduction of water for human consumption using filtering galleries to satisfy the demand of the city of Reque - Chiclayo - Lambayeque.	Prepare the design for the collection and conduction of water for human consumption using filtering galleries, to satisfy the demand of the city of Reque - Chiclayo - Lambayeque	Oblitas Santa Maria, Juan Manuel
10	Alvarado Gonzales, daniel edward Andrade Flores, Carlos Enrique	Structural design with EL Steel Framing Systems for greater practicality in the construction of a 3-story house in Chachapoyas, Amazonas	Carry out the Structural Design of the Steel Framing System of a 3-story house for greater practicality of the work in Chachapoyas, Amazonas	Oblitas Santa Maria, Juan Manuel
eleven	Calcine Huanque Katherine young flowers oswaldo	Influence of the percentage of absorption of the aggregate thickness in the compressive strength of a concrete $F'c=210 \text{ kg/cm}^2$	Know the possible variations that the absorption percentage of the coarse aggregate may cause in the concrete witnesses when subjected to the compression test if they have been cured.	Oblitas Santa Maria, Juan Manuel
12	Zeballos Gomez, Junior Maccelo	Influence of polypropylene fiber on the mechanical properties of concrete $F'c=210\text{Kg/cm}^2$	Determine the influence of polypropylene fiber on the mechanical properties of concrete $F'c = 210\text{Kg/cm}^2$.	Oblitas Santa Maria, Juan Manuel
13	Reyes Rioja Briham andree	Evaluation by the Italian method to determine seismic vulnerability in state schools in the city of Jaén-Cajamarca	Apply the evaluation with the Italian Method to determine the Seismic Vulnerability of state schools in the city of Jaén, Cajamarca.	Oblitas Santa Maria, Juan Manuel
14	Torres Lastra, Janett orphelia	Correlation analysis of rainfall data from GPM satellite images and rainfall stations, in order to generate information on rainfall in the Amazon basin	Analyze the correlation of rainfall data from GPM satellite images and rainfall stations, in order to generate rainfall information in the Amazon basin through GIS.	Oblitas Santa Maria, Juan Manuel
fifteen	zuñiga ramos Vanessa Grisell	Difference of the value per m ² in the valuation of apartments in multi-family buildings according to remote inspection and on-site inspection in the district of Los Olivos - Lima	Determine the differences in the value of m ² between the remote inspection and the on-site inspection in the appraisal of apartments in buildings multifamily in the district of Los Olivos - Lime.	Oblitas Santa Maria, Juan Manuel
16	agramonte Diego Palaces	Implementation of lean tools construction to improve productivity in the project "improvement of the Pasco - La Quinoa highway" in Cerro de Pasco - 2021	Apply the tools of the Lean Construction philosophy in order to increase the low productivity in the work "Improvement of the Pasco-La Quinoa highway".	Oblitas Santa Maria, Juan Manuel
17	Castillo Fernandez, priscilla nieves Quezada Espinoza, Carlos	Seismic vulnerability evaluation of the private educational institution Virgen de la Asunción in the ATE district applying the method of Hirosawa.	Evaluate the seismic vulnerability of the Virgen de la Asunción Private Educational Institution in the district of Ate applying the Hirosawa method.	Oblitas Santa Maria, Juan Manuel

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 USMP <small>UNIVERSIDAD DE SAN MARCO</small> <small>FACULTAD DE INGENIERÍA Y ARQUITECTURA</small>	SCHOOL OF ENGINEERING AND ARCHITECTURE	Year: 2021
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18	Ttito Améquita Nicholas Romero Porto Jean Pierre	Design proposal geometry for road safety in two black spots in the city of Arequipa.	Determine to what extent a geometric design influences the improvement of road safety in two black spots in the city of Arequipa.	Oblitas Santa Maria, Juan Manuel
19	fhon palaces Carlos Jose	Impact of the COVID 19 pandemic on the production and costs of civil works carried out in Peru	Analyze the impact of the COVID 19 pandemic in the areas of production and costs in the construction sector through the perception of construction professionals.	Oblitas Santa Maria, Juan Manuel
twenty	Apaza Ramos, Luis Francisco Flores Farfan, Lulai Naoto	Comparative analysis and cost of production between conventional concrete, concrete with glass fibers and concrete with steel fibers in the city of Arequipa	Evaluate the compressive strength of concrete $f'c = 210 \text{ kg/cm}^2$ with the addition of glass fibers, steel fibers and their production cost.	Oblitas Santa Maria, Juan Manuel
twenty-or	cougar ghersy brian Molina Ascuna Luis Aldo	Manufacture of geopolymers from fly ash, rice husks and metakaolin	Obtain a geopolymer with the exact concentration measurements for the raw materials from fly ash, rice husks and metakaolin, so that it has a compressive strength similar to Portland IV cement.	Oblitas Santa Maria, Juan Manuel
22	Ochoa Porras. Javier Angel Quevedo Garrido, eva nathaly	Basic Unit Design Proposal sanitation for the improvement of the sanitary system in the hamlet of La Cureña, district of Llama, province of Chota - cajamarca.	Prepare the design of the Basic Sanitation Unit to improve the sanitary system of the village of La Cureña- District of Llama- Province of Chota- Cajamarca.	Oblitas Santa Maria, Juan Manuel
23	Saravia Towers Edson Arthur	Comparative analysis of the seismic resistance capacity through the use of the norms of Peru and the United States of a 6-story house	Determine the seismic capacity of the 6-story house by using the current design standards of Peru and the United States.	Oblitas Santa Maria, Juan Manuel
24	Jhean Paul Arizaca saldivar Alvarez Limache Elvis Bill	Stabilization of cohesive soils for road designs with wheat husk ash in the subgrade	What influence will the incorporation of wheat husk ash have on the stabilization of cohesive soils at the subgrade level on the highway, Sincobamba, Miskayaqu-Sauceda stretch, Sondor-Limatambo district.	Bouquets Flowers Miguel Angel
25	Cortez Penalaza, fernando daniel	Implementation of a cost management system through the methods "operating result and earned value", its application in the construction of the hyperbodega price one - Ventanilla - Callao	Increase profitability with the implementation of a cost control system through the "Operating Result and Earned Value" methods applied in the construction of the Hyperbodega Precio Uno - Ventanilla.	Bouquets Flowers Miguel Angel
26	Idrogo Holes Dianna Sadith	Use of flowable concrete to reduce backfill process deficiencies and Soil compaction for drinking water networks and	Demonstrate that the use of fluid concrete will correct deficiencies in the process of filling and compacting soil for drinking water networks and sewerage in the city of Chiclayo	Bouquets Flowers Miguel Angel

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 USMP <small>UNIVERSIDAD DE SAN MARTÍN DE PORRES FACULTAD DE INGENIERÍA Y ARQUITECTURA</small>	SCHOOL OF ENGINEERING AND ARCHITECTURE	Year: 2021
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		sewerage in the city of Chiclayo		
27	gora espinoza Dayvi Brayan Galvez Benites Lady Light	Influence of polyester macrofibers on the concrete properties $f_c = 210 \text{ Kg/cm}^2$ for rigid floors	Determine the influence of the polyester macrofibers to minimize concrete cracks $f_c 210 \text{ kg/cm}^2$ for rigid pavements.	Bouquets Flowers Miguel Angel
28	Espinoza Walls, Hans Salazar Quispe July	evaluation of the Seismic vulnerability in informal housing, based on the national building regulations, using the etabs v.2019 software in the urb. onlookers under the fence of Lima	Evaluate the seismic vulnerability of informal housing, based on the National Building Regulations, using the Etabs v.2019 software in the Mirones Bajo del Cercado de Lima Urbanization.	Bouquets Flowers Miguel Angel
29	Zavala Caceres Guimo Chambi Huarhua Edison	Comparison analysis of design methods: direct based on displacement (DDBD) vs. force-based seismic (DBF)	Carry out the comparison analysis of the design methods: DDBD vs DBF	Bouquets Flowers Miguel Angel

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