



Masters



**Master of
Science in
Environmental
Engineering
and
Technology**



UNICEPES



**UNIVERSIDAD
CENTRO
PANAMERICANO
DE ESTUDIOS
SUPERIORES**



Cinnova
Center for Innovation and sustainability

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The **University of Pan American Center for Higher Education – UNICEPES**, is one of the top-ranked universities in Mexico and Latin America, which is committed to academic excellence in study programs, quality teaching, research, and social and human action.

- 2 University campus
- 4 PhDs
- 27 Masters
- 4 Specialties
- 4 bachelor's degree
- 2 Baccalaureate

UNICEPES, as an Institution of Higher Education, has academic programs incorporated into the National Autonomous University of Mexico and programs with Recognition of Official Validity of Studies of the Ministry of Education, as well as agreements with Universities of Iberoamerica for double degree programs; All its study programs are officially recognized as being part of the national educational system. Likewise, we are associate members of the **Mexican Council for Postgraduate Studies (COMEPO)**, which groups higher education institutions and research centers with the highest quality graduate programs in Mexico.



CINNOVA



The **Center for Innovation and sustainability** (CINNOVA) was established in 2017 under an initiative of the independent International group of former UN experts. The aim of the center is to achieve a new paradigm for civilization and conduct innovative policy development and strategic research for sustainable development measures, reflecting the results of research into political decisions for realizing sustainable development in different areas.

According to the Charter for the Establishment of the Institution, the Center will tackle fundamental challenges to human society, which exists thanks to the bounty of the global natural bounty, and to redefine the values and value systems of our present societies that have resulted in the global social, economic and environmental crisis, in order to create new ways of conducting activities and a new paradigm for civilization. Based on the principles of this new paradigm, new social and economic systems will be built, so that a new era of the global environment can begin. IGES also recognizes that the realization of sustainable development in developing countries is a vital issue for the international community.

The Center for Innovation and sustainability will promote research cooperation with international organizations, governments, local governments, research institutions, business sectors, non-governmental organizations (NGOs) and citizens. As well as conducting research, the center will share its research results and also host international conferences and study workshops as well as promoting knowledge sharing through Cinnova open Learning initiative.



Overview

Talking about environmental engineering is to talk about relatively new science, which is part of engineering, and which integrates ecological, social, economic and technological issues: therefore, it will have a lot to do with the concept of sustainable development.

The purpose of the master program in Environmental Technology and Engineering is to propose solutions that contribute to the performance of the life system and preserve our natural resources in order to improve the quality of life making all human activities more sustainable. However, combining economic growth with sustainable development is often complex, and may even seem contradictory, so it is the job of the environmental engineer to develop solutions that contribute to the country's growth within the framework of sustainable development. An environmental professional will be responsible to diagnose, design, implement, investigate, manage and undertake possible solutions needed that arise in society in the respective work area or sphere of action.

The master program in Environmental Technology and Engineering of University CEPES provides an interdisciplinary education in management and engineering fundamentals, with an emphasis on the study of technologies and trends to preserve our natural environment and efficient use of natural resources.



Objectives

General Objective:

- Educate professionals in the environmental area who can work in multidisciplinary teams in the field of engineering and in the field of research.

Sub Objectives:

- Learn new technologies that may help to mitigate the environmental impacts from the generation of solid waste, liquid dischargers and Carbon emissions from industries and all human activities.
- Analyze alternative solutions for a correct environmental management of the main polluting sources.
- Explain, from a comprehensive point of view, the management of waste effluents generated by different industrial activities (textile, food, paper, etc.).
- Understand the importance of the hierarchy established in solid waste management: prevention, reuse, recycle, material recovery, energy efficiency and waste disposal, including the process of waste dumping in controlled deposits.
- Describe the techniques for value creation from waste materials and process of recycle including energy recovery from urban and industrial solid waste.
- Implement soil sanitization methodologies in potentially contaminated sites.
- Organize the foundations for the implementation of an environmental management system EMS in any type of industry.

Who is it for?

The proposed training methodology, added to the clarity, breadth and didactics of the content design, allows the Master in Environmental Engineering and Technology to be directed to university graduates of medium or higher degree who wish to receive environmental training in management and environmental audits to improve your job expectations.

Professional areas of a project manager

Some of the professional opportunities of this Master's Program are:

- Independent environmental consultant.
- Organizational advisor on the environment.
- Environmental technician in town councils.
- Environmental specialist.
- Advisor for the implementation of Environmental Management Systems in the company.
- Teaching



Part-Time Program for International Students

In addition to the Online Master's program, UNICEPES and The Center for Innovation and Sustainability offer a part-time Dual Career Training Programme. The program has two Phases:

The first phase delivered Online that covers most of the program and the second phase is delivered in the University Campus in Morelia Mexico. The program meets the needs and availability of master's students with full-time or part-time jobs, allowing them to combine their careers by obtaining a Master's degree. Students will have the opportunity to gain more experience and knowledge by visiting sites and operations from important industries and projects in Mexico. For more information write to programs@cinnova.org.

To start the admission process for this program, download the application form by clicking [here](#) and submit to admission@cinnova.org

Tuition Fees for Part-Time Programs

- Admission and Reservation Fees: \$ 950 USD
- Overall tuition Fees: \$ 8000 USD
- Degree Accreditation and Registration fee: \$ 1500 USD
- This program allows monthly installment payments up to 30 months.
- The cost of the program Cover some living expenses for 10 days in Mexico such as Accommodation, Meals, Transport from the airport to the University campus.
- Outstanding Students are encouraged to apply for financial assistance to cover 50% of the cost of a roundtrip airline ticket. This may be subject to a previous assessment of the academic performance of the student during the program and other relevant aspects.
- These fees do not include Visa plications costs.

Duration

The estimated duration of the master's degree is 1200 hours (75 credits). The credit structure of the Master in Project Management is shown in the following table:

Phase	Credits	months	Hours
1st Term: Environmental Engineering and Technology	60 Credits	18 months	960 Hours
2nd Term: Scientific Research Methodology and Final Project or Dissertation Thesis	15 Credits	6 months	240 Hours
TOTAL	75 Credits	24 months	1200 Hours

Credit structure

In each phase the student must meet the credit requirements established by each university and set by the Master's degree committee.

Master's degree award

Once the student has completed his study program and passed all his subjects and dissertation thesis he or she will be evaluated by the evaluation board committee. If the student has fulfilled all the academic, administrative and economic requirements established in the management procedures set by the university or universities for which If you want to obtain the academic degree, the student will obtain the Master's degree in Environmental Engineering and Technology.

Study Program



1st Term: Environmental Engineering and Technology

The subjects allow to know and understand, firstly, the theoretical, conceptual and historical foundations involved in environmental engineering and, secondly, its organizational, social and technological implementation.

The objective is to get students to acquire a global vision of environmental engineering, through different related multidisciplinary themes.

The subjects that make up the first part are shown below:

1st Term: Environmental Engineering and Technology

- Fundamentals of environmental engineering
- Solid waste recovery and treatment engineering
- Industrial wastewater treatment
- Controlling Industrial Greenhouse Gas Emissions
- Ergonomics in the project
- Waste energy recovery
- Recovery and Remediation of Contaminated Soil
- Implementation of Environmental Management System in the organization.

2nd Term: Scientific Research Methodology and Final Project or Dissertation Thesi

The last phase of the Program is devoted to studying the subject of Scientific Research Methodology and preparing the Final Master's Projec



Educational Methodology and Assessment

The UNICEPES methodology is the main added value for our students, we offer a personalized education and full flexibility in terms of time and schedule management.

- Online Tutoring
- Video conferencing
- Group work and discussion forums
- Permanent Course follow up and feedback
- Online Campus www.campuscepes.net
- Timely technical support and career advisory

The foundation of our methodology is to provide our students with all the necessary tools to accomplish with all program assignments and evaluations by permanent student support and guidance during the whole program. Students have access to an online platform where students will interact with his fellow students through discussion forums and group assignments under close supervision from his course tutor.

The University Virtual e-Learning Campus is designed to provide deep and flexible eLearning methodology so that students can achieve all the tasks overcoming time and movement barriers. Online students can get access to the online platform from anywhere and at any time. This model allows personalized mentoring from the most professionals and renowned teachers and experts, who accompany each participant individually and the group as a whole towards the construction of new knowledge.

Students have access to course materials and resources to progress in their program. The teaching materials and resources include and integrate content, practical applications, and tools related to the program. Tests and practical exercises will be carried out, in which The knowledge acquired will have to be identified and described analyzing all study cases. These practices, due to the applied theoretical format of the course will be compulsory for all students and essential requirements for obtaining the corresponding degree. Additionally, every 2 weeks of each course the student will have a session of 45 to 60 minutes by videoconference with the advisor for tutoring purposes. During the online sessions, students have the opportunity to interact and ask the tutor all questions related to the course. As required for the completion of the course, a Project must be prepared. To carry out the project, we can perform the techniques and procedures learned during the course. The evaluation of the final work and the evaluations of the delivery of the article and the process of review of proofs, attendance at events, and participation in pre-defense and thesis defense are carried out at the university campus in Mexico, however, online students can accomplish their dissertation via online.

Student advisory and support center

Throughout the study program, students will have the assistance and support from the Study advisory and support officer who will help students to solve any academic and administrative concerns during the whole program.

Prior to start of the program, all students will start an introductory training course to give the Foundations for Academic Success to carry all assignments. As with the Student Readiness orientation, this non-credit bearing module prepares you for online study. Students will receive advice on how to structure academic papers, the philosophy and usage of citation & referencing, use of the online platform as well as general guidance for successful study.

The students will have a Consultation Forum in each module where they will be able to raise their concerns and consultations, both with teachers in academic terms and with the Study Coordinator in relation to technical or administrative issues..



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Professors and Tutoring

The Staff of professors of the University of Pan American Center for Higher Education - UNICEPES includes prominent professors and researchers with proven professional background from many countries around the world. Together with the central academic team in Mexico, provides a unique opportunity for the students to share knowledge and experience within a multicultural and multilingual educational environment that helps the student to create and increase their professional and social networks. Participants will also have the opportunity to attend international conferences with top-level professionals from the most important companies and organizations that are involved in the different areas of specializations covered in this Program.



Most of the staff of professors to the program come from countries like Mexico, Spain, England, South Africa, Chile, Colombia, Venezuela, Costa Rica, Peru, and Argentina. Integrating more and more professionals from different specializations which greatly enriches the skills and competences with a multicultural vision giving the students the foundation and all required tools to be ready for the most competitive job market nowadays.

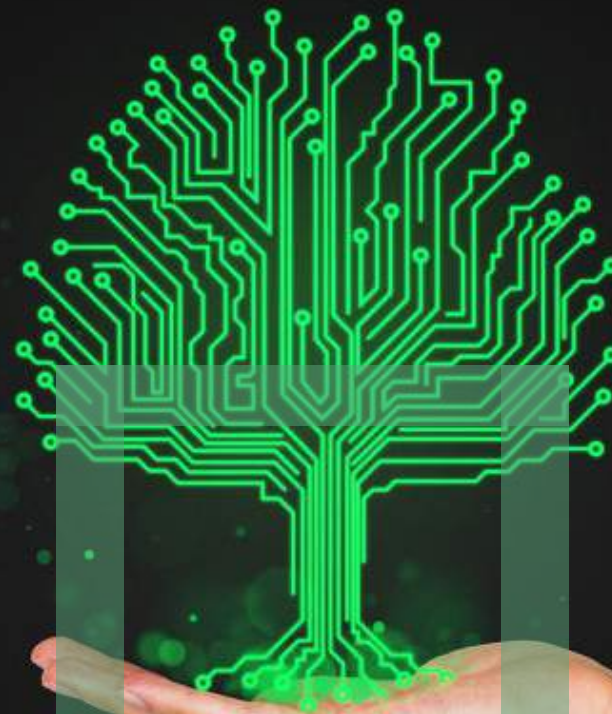
Online Campus

www.campuscepes.net

The University Online Campus is one of the most innovative and easy to use learning systems. We developed each part ourselves and strive for simplicity without ever losing the functionality that our students need. Students do not require special ability or previous training to use the online campus, however, we have a dedicated team ready to provide opportune technical support and guidance to the students throughout the program.

With lessons, materials, quizzes, and much more available in each course, our students benefit from an in-depth look into their subject with plenty of information to improve their skills. Students can work through assignments in their own time and at their own pace- allowing you to work at a speed that is comfortable. Once you have completed an assignment this can be submitted to your tutor for marking from your account and intensive feedback is provided to help you improve your answers for next time.

All materials and contents will be available at the given time of the course schedule. One of the main requirements is to have an internet connection and make sure the computer that you will be using get access to the online course and to complete work. Doing this now means that you'll be able to spend precious study time on learning and not on dealing with computer problems. Once you are registered to the program and before starting the course module you will receive a user and password to access the online campus.





ASSURE LEARNING MODEL

The learning model of the Universidad Centro Panamericano de Estudios Superiores is based on the ASSURE model for the easy design, flexibility and useful in any learning environment. It contributes to improving the planning and development of the courses, in addition The ASSURE model is an instructional system or guideline that teachers can use to develop lesson plans which integrate the use of technology and media.

The ASSURE applied in a distance Learning is considered to represent an opportunity for innovation for a teacher when designing his course following the stages of this model, since it will allow him to effectively develop a distance course. The ASSURE Model places the focus on the learner and the overall outcome of accomplishing learning objectives.

Benítez (2010) stated that the ASSURE Instructional Design Model applied to Distance Education is a methodology involves six steps for its application: analyze the characteristics of learners, establish standards and learning objectives, the selection of media and materials, use of media and materials, student participation, and evaluation and review of implementation and learning outcomes applied to distance education.

Degree award



The University of Pan American Center for Higher Education – UNICEPES, is one of the top-ranked universities in Mexico and Latin America, which is committed to academic excellence in study programs, quality teaching, research, and social and human action. UNICEPES, as an Institution of Higher Education, has academic programs incorporated into the National Autonomous University of Mexico and programs with Recognition of Official Validity of Studies of the Ministry of Education, as well as agreements with Universities of Iberoamerica for double degree programs; All its study programs are officially recognized as being part of the national educational system. Likewise, we are associate members of the Mexican Council for Postgraduate Studies (COMEPO), which groups higher education institutions and research centers with the highest quality graduate programs in Mexico.

The online degrees have international validity and are recognized by educational authorities in Mexico accredited by RVOE: MAES080804, Code: D.G.P.120570.



Grants and Scholarships

Each year we distribute a limited number of scholarships among the accepted fellows. UNICEPES through the Center for Innovation and sustainability have established a Scholarship Program that covers different percentages of the cost of the program, and they are offered to all students of any nationality from the moment they are admitted to one of the Doctoral programs.

To have access to the Cinnova Financial aid / Scholarship, you must send us your request, which must contain the following documentation:

- A curriculum vitae/ résumé with full information about present study and/or job.
- Certified copies of certificates and grades and an explanation of the grading system
- Proof of English proficiency
- A motivation letter of 400-500 words
- Fill the Registration Form
- Request for Financial aid/scholarship
- Start the admission process



Send All documents to :

IMPORTANT NOTICE: All request for financial aid and scholarship will assessed on case by case basis. Selected Candidates that meet all requirements for financial aid /scholarship will be notified by email. Any candidate can verify the status of his application by contacting admission support office programs@cinnova.org. If you like to know more about our grants and scholarships you can fill the contact form in the program´s website and one of our staff will contact you shortly.

Admission requirements

Mexican nationals

- CURP
- Acta de Nacimiento (copia legible)
- Copia Certificada ante notario público de Grado de Maestría
- Copia Certificada ante notario público de Cédula Profesional
- Copia Certificada ante notario público de Certificado de Estudios de Licenciatura o Ingeniería
- C.V. actualizado
- Carta de Exposición de Motivos de ingreso firmada
- Propuesta de Investigación
- Solicitud de inscripción
- Solicitud de beca
- Fotografía Digital en formato .jpg (vestimenta formal, sobre un fondo blanco liso y con el rostro despejado).



International students

- Citizenship card
- Birth Registration (legible copy)
- Certified copies of your Bachelor's Degree or Engineering
- Certified Copy or Apostilled of Professional Card (if issued in the country of origin).
- Updated Resume
- Motivation letter
- Research proposal
- Enrollment Request
- Scholarship Application (only to those who meet scholarship criteria)
- Digital Photography in .jpg format (formal dress, on a plain white background and with a clear face)



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Payment methods

Country: United States

Bank Account: 400047144

Beneficiary Bank: Banco Santander, S.A.

City: Zitácuaro, Michoacán, México.

Code (ABA / IBAN / OTRO): BMSXMM

DETAILS OF BENEFICIARY INSTITUTION

Beneficiary account: 9200176293-2

Interbank key: 014537920017629327

Bank Address: Lerdo de Tejada Poniente # 24

INTERMEDIARY BANK

Correspondent Bank: JP MORGAN CHASE

Swift Code: 021000021

FUNDACIÓN MEXICANA DE EDUCACIÓN A DISTANCIA, S.C.

Bank ID: RFC FME040207R27

Bank of Beneficiary:

By bank transfer to UNICEPES Bank Account

City: New York.

Important Notice: All payment methods will be sent to the candidate along with Confirmation of registration when complete the payment.

(2) Vía Portal “Paga la Escuela”:

Through our online platform "Paga La Escuela" using Credit cards

www.pagalaescuela.santander.com.mx (This portal is from Mexico and the currency conversion are made from dollars to Mexican pounds according to the Exchange rate of the)

Invoicing:

Once all information have been sent, the International Finance and Administration Division (administracionyfinanzas@unicepes.edu.mx) will send you a copy of your invoice via email, only as long as the entire course has been paid.

Invoices are generated in a maximum of 3 days after your payment is registered in our system. Our invoices are tax receipts authorized by the competent tax entities, so you can print them on your printer and attach them to your accounting.

Contact

The Center for Innovation and Sustainability

International programs

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Ghana

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Email: programs@cinnova.org

Office Lima – Peru

The Center for Innovation and Sustainability

Admissions Office for Online education

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