

Science and technology

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Ministry of Science, Technology and Environment

Science and technique Jagüey Grande



REPRESENTATIVES THAT MANAGE THE CTI IN THE MUNICIPALITY.

- Municipal University Center.
- Félix Duque Basic Technical Scientific Unit
- ANAP Municipal
- National Association of Innovators and Rationalizers (ANIR)
- CTC official (forum)
- Official who attends the Forum in the Government.
- Agri-food companies.
- Other entities

How is Science, Technology and Innovation Managed?

The UCTB of Jagüey Grande, CUM, The ANAP Municipal, DMEP carry out:

- Training
- CTI courses to tables and reservations
- Scientific Events

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- Forum events
- Days for science day
- They develop research projects
- They coordinate international collaboration projects that contribute new technologies and good practices
- They elaborate annual science plan

AS A RESULT:

UCTB of Jagüey Grande:

- 17 business projects
- 1 institutional projects of international collaboration.

CUM

- 4 national events
- 4 internationals with 8 research papers
- 2 book publications
- 25 monographs
- 1 doctor of science
- various master's theses in development
- 2 national projects associated with the program
- 2 DL
- 1 Institutional.
- 32 student works in the Scientific Conference
- 339 trained cadres and reserves
- University 2020, total 17 jobs at Municipal level and 16 at Provincial level and [CIT@tenas](#)

The ANAP Municipal

- Implementation of scientific advances and good practices by farmers on their farms. 20 works in the forum event related to the rational use of natural resources, renewable energy, climate change, organic fertilizers and producer innovations.

DMEP

- Advice to companies and entities on the implementation of the plan and the inclusion of science and environment plans in the government-led economy plan.

The Local Development Strategy formulated and approved by the Municipal Assembly of People's Power on October 30, 2010 by agreement 18 of the Municipal Assembly of People's Power with agreement number 120/10 of the CAM has as Strategic Lines:

- Food production.
- Habitat transformation.
- Capacity building.
- Sociocultural
- Energetic

CITMA AND DMEP COORDINATION

- Processes of elaboration, presentation and control of the Plan of the Economy with the prioritized entities of the territory.
- Seminars were given by the DEP at the municipal level for the preparation of the 2020 Plan through Resolution 145/2019
- The MEP methodology was explained to the entities and companies present the importance of planning the incorporation of science and technology and innovation projects in the economy plan.

As a result (investment)

- Natural Medicine Laboratory: continuity work that is being rehabilitated for the production of natural medicines. Due to the importance of this link for the country, it was allocated in the plan for 2020 \$ 179.0 thousand pesos.
- UEB La Estancia: the refurbishment that has been carried out during 2019 where it is proposed to improve technology, the floor in the processing plant has been improved, the one with anti-acid slabs was changed, the TBA 3 line was replaced by a A 3LFLEX with a value of 1.8 million pesos, due to technological obsolescence allows the improvement of the quality of the products.
- UEB Combinado Industrial: it has planned for 2020 the repair of the Refrigerator so it has a plan of \$ 3000.00 MCUC.
- The Generator Set has assigned \$ 252.9 MCUC and \$ 357.8MCUP for the reconstruction of the Grease Trap, with 98% of execution.
- Meteorological Station also has a construction maintenance plan of 44.1m pesos which is being executed.
- Local Initiative Project: PRODUCTION OF FLOUR DERIVATIVES IN THE UEB ALIMENTOS JAGÜEY which will implement a new technology for the production of cookies and other assortments, a project that is proposed for 2019 and that due to lack of financing from the importing company was presented again in the 2020 plan.
- **All these investments are approved by the CAM**

Management and control of the Document Management activity in the

municipality.

- The work of document management at the municipal level is affected by the instability of the staff in the entities, the secretaries in some cases and in others the people who attend to the task, lack training. Most entities do not have a location for filing but in the same offices or in unconditional spaces.
- The archives have been organized but not by the resolution used for Document Management at the territory level, therefore, training will be being proposed for the year 2020 at the municipal level at the request of the entities of the territory.
- Management and control of the rational use of natural resources and the conservation of ecosystems, as the basis for development sustainability and as a way to improve environmental quality.
- Increased fertility of 65 ha in soils dedicated to agricultural production from the production of beneficial microorganisms.
- 60 ha of land benefited from the application of anti-erosion measures such as planting trees.
- Recovered 60 hectares of idle or poorly exploited land and deforested areas
- Training for producers on the use of efficient microorganisms.
- Biodigesters workshop.
- Agroecological practices on farms that constitute demonstration areas with the aim of expanding and disseminating knowledge among producers on this subject.
- The energy efficiency indicators in the productive systems are improved in a total of 40 ha based on the good practices used in the use of residuals obtained in the productive processes; through the commissioning of 2 windmills, 3 biodigesters, 9 sprinkler irrigation systems, more efficient than flood irrigation practices.
- Use of bio-fertilizers.
- Technology dissemination of efficient microorganisms in plants and animals
- Use of urea in cattle farming
- Planting mixed crops and rotating them
- Silvopastoral systems exploitation
- Monthly control in conjunction with the civil defense of the Hazardous Waste Management Plans and compliance with their action plans.
- Control of the execution of the action plans defined by the polluting sources to the water, the atmosphere and the soil.
- State controls to detect problems, monitor natural resources.

Actions of adaptation and mitigation to climate change

- Meetings of directors and cadres on the theme of TASK LIFE. June 5 presentation of materials on climate change.
- Environment, workshops for producers where the topic is addressed, conferences "The task Life and the role of the University".
- Environmental Bases for Local Food Sustainability Project (BASAL).
- ECOVALOR, The polygons for soil improvement and conservation. PIAL and UNDP projects have offered training on the subject.
- The CUM addressed the issue with teachers and students, in the ARCA of science (scientific space), with Sports workers

Advanced professional

- Courses: "Territorial management in low carbon rural municipalities", at the V AGRODESARROLLO International Convention 2019.
- IV Provincial Workshop on Local Development, University management project for the local development of Matanzas municipalities.
- Workshop: Environmental Management Model of the Martí municipality, Matanzas. Characterization and Diagnosis. (BASAL)
- Diploma in sustainable management of local development in municipalities of the Matanzas province: for a participatory and innovative approach at EEPF Indio Hatuey.
- Postgraduate courses: "The practice of good reading, writing, good saying and acting"
- Postgraduate courses: "Population, demography and social networks (associativity)"
- Postgraduate courses: "Public administration, social participation and social equity approach in local territorial development"
- Postgraduate courses: "Good practices in the sustainable management of production systems and energy".
- Postgraduate courses: "Group work tools for people who are blind to development and comprehensive management of programs and projects"
- Postgraduate courses: "Methodological tools for intervention in territorial and local settings. EI SIAL and SLI "
- Postgraduate courses: "Legal regulatory notions for the sustainable management of local development"
- Postgraduate courses: "Knowledge, science and innovation

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management for local development. Innovation System Theories”

- UNIVERSITY 2020.
- National Workshop of the PRODEL project.
- LATIN AMERICAN CONGRESS of local authorities ”, a new agenda for Latin America and the Caribbean, in Santiago de Chile.
- Workshop on systematization and localization of the SDGs with PRODEL.
- X Workshop on Science, Technology and Innovation CIT @ tenas post-event course on project development.
- Postgraduate courses: "Key concepts and notions for the sustainable management of local development"

Work projections

- Plan workshops in the year: Science, Technology and Environment. Local development. Location of the SDGs. Document management among others.
- Comply with the guidelines of the Delegation, the Party and the Government.
- Continue with the overlay.