



# CADEFEST News

*The Project for Capacity Development of the Faculty of Engineering Science Technology, the National University Timor Lorosa'e (CADEFEST Project Phase II)*



Newsletter

Issue 8



*Hera, February 2022*

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## Message from CADEFEST Project Manager

Welcome to the eighth edition of our project newsletter!

Although we still have some COVID-19 restrictions, our activities are getting back to normal. The project is now going into its final year, so we need to expedite some activities in order to catch up on the delay of the project due to the pandemic. To achieve our targets, I would like to focus on improving the education and research environment in the faculty, so that our lecturers and students are able to perform their activities to the best of their abilities.

Our mission is to produce quality human resources and contribute to the field of engineering and the country's development. Our responsibility is a heavy one, but I believe we can take it on together. I wish this cooperative project to continue to support our future plans such as the creation of a master's course and the establishment of a new department which will enable us to develop quality human resources for the country.

There is always something we need to improve. Therefore, by reading this newsletter, please let me know your ideas for any improvement in our work and studies.



I am keen to discuss any matter related to the development of the faculty. Through the CADEFEST Project Phase II, let us achieve our goals together!

Adalfredo G. da S. Ximenes, M. Eng

Project Manager, CADEFEST Project Phase II

Dean, Faculty of Engineering Science and Technology-UNTIL

## Message From Chief Advisor of CADEFEST Project Phase II

We will soon have the final annual budget year for the CADEFEST II project. While we had a tough time for almost two years (due to COVID-19), I believe that our activities through JICA's support were not badly affected, and some programs had very satisfactory results in their research and education.

For example, Timorese Academic Journal of Science and Technology (TAJST) should be one of the successful outputs of CADEFEST II. Research activities have been further enhanced by Renewable Energy and Environmental Research Group (REERG) and the Road Infrastructure Monitoring Research Group (RIMRG), which have published some international journals.

Progress has also been very positive in our education activities. One example is the preparation of new lecture notes by some lecturers, which are very helpful to the students. These examples of our progress are a result of the collaboration between UNTL and Japanese supporting universities through JICA's support. I expect to see further such excellent success results in the remaining one year. "Gambari-mashou!"



Prof. Dr. Koichi Shimakawa  
Chief Advisor  
CADEFEST Project Phase II

## Message From Chief of Cooperation Unit

The Cooperation Unit (CU) was established when the CADEFEST Project Phase II started in 2016, so is now reaching six years old. I am happy to lead this important unit in the faculty. I believe now CU is a very reliable unit in the faculty which is contributing to social needs, such as Sustainable Development Goals (SDGs).

I am pleased to inform you that the fourth volume of Timorese Academic Journal of Science and Technology (TAJST) is ready to be published. In addition, we have been collaborating with external partners to provide technical advice.



Domingos de Sousa Freitas M. Eng  
Chief of Cooperation Unit, Vice Dean  
Cooperation and Research Affairs-  
FoEST

As the new chairman of CU, I am trying my best to increase activities, not only in terms of quantity but also to improve quality. I would like to encourage my fellow lecturers to submit their recent research findings to the upcoming TAJST Volume 5 which is now calling for papers. For more details about the previous and current TAJST please email the faculty at: [ucp.fect@untl.edu.tl](mailto:ucp.fect@untl.edu.tl) or visit the website at: <http://fect.untl.edu.tl/CU-tp.html>. After reading this newsletter, if you have any thoughts and ideas that you would like to share, let's discuss and realize them together! Obrigado barak!

## New Structure has meeting with CR of JICA



New Structures and CR of JICA Timor-Leste

New faculty structures made a courtesy call to Mr. Ko Goto, Chief Representative of JICA Timor-Leste Office in Dili on 27th October.

After introducing new faculty structure members, the dean expressed his sincere appreciation to the long history of JICA's technical cooperation with the Faculty of Engineering, Science and Technology. The vice deans explained their responsibilities and raised some current issues which exist within the faculty's management. Mr Goto

appreciated the visit and the kind cooperation of the faculty. He also explained the position of JICA's support for each issue. Finally, both agreed to continue to work together in order to make CADEFEST Phase II a success.

## Flood Survey Consultant Team Meeting

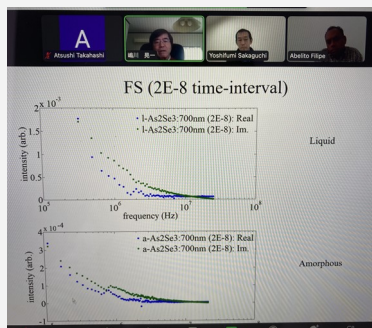


On September 21st, 2021, the JICA Flood Survey Consultant Team visited the faculty of Engineering, Science and Technology to collect data and exchange opinions for the plan on how to improve reconstruction following a natural disaster such as April 4th, 2021 flood.

The survey report will be submitted to JICA and utilized to develop the cooperation project in the future. The faculty has contributed to natural disaster prevention activities by utilizing their knowledge and experience.

## UNTL-Neutron Science & Technology Project

Mr. Abelito Filipe Belo, lecturer of Electronics and Electrical Department began conducting joint research with Dr. Yoshifumi Sakaguchi from the Comprehensive Research Organization for Science (CROSS) Neutron Science and Technology Center in Japan. They had a series of research discussions and joint research meeting.



The Research theme is “Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides”. His research is being conducted as one of the research activities in the renewable energy group under the Cooperation Unit. The research results are expected to be published in an international journal and it will also tighten the relationship between the faculty and the Neutron Science and Technology Center in Japan.

Joint Research Project with Neutron Science and Technology Center

## JDRAC and IGE Opening Ceremony for the Training



JDRAC and IGE Opening Ceremony for the Training

and maintenance for heavy machines the IGE staff.

Mr. Domingos de Sousa Freitas, Vice Dean for Research and Cooperation participated in the ceremony and made a speech to encourage the trainees. This training program is being carried out by the lecturers from the faculty of science and technology.

Due to COVID-19, JDRAC could not dispatch a trainer from Japan but now the faculty staff can take over this task to support other institutions. This is a good opportunity for the faculty to contribute to human resources development in the field of engineering in Timor-Leste.

On October 14th, 2021, the opening ceremony for the training program took place in IGE. The program is collaborating with the faculty of Engineering, Science and Technology, UNTL and JDRAC to provide the training for operation



## Opening Ceremony for Training Course of Advanced Welding

On January 22nd, 2022, the opening ceremony for the advanced welding training course was held at the Ministry of Tourism and Commerce and Industry (MTCI). The dean of the Faculty of Engineering and Science and Technology, UNTL and Chief Representative of JICA Timor-Leste office also attended the ceremony.

Mr. Noviano, mechanical engineering lecturer, will supervise the program. He is an alumna from the mechanical engineering department and also participated in the JICA short-term training in Nagaoka University of Technology in 2017. This is a good example of the contribution to the social needs by the Faculty of Engineering, Science and Technology, UNTL.

The faculty is taking full responsibility for upgrading the workers' skills in the industry sector.



Mr. Noviano is instructing a trainee

## Seminar For TAJST



On November 11th, 2021, the faculty of Engineering, Science and Technology organized a seminar for the Timorese Academic Journal of Science and Technology (TAJST).

The 25 invited speakers discussed the research outcomes in the field of engineering. There were more than 200 participants over a two-day seminar.

The participants were involved in many discussions and Q & A sessions. The journal Volume four will officially launch in February, 2022.

## Flood Early Warning Working Group



On 16<sup>th</sup> November 2021, Benjamim Hopffer O. Martins participated in seminar for Flood Early Warning Working Group Meeting at Hotel Timor. He introduced geoscience and disaster mitigation research group activity to share the installation plan for flood monitoring system composed by rain gauges, ultra sonic water level, monitoring cameras, which are supported by the CADFEST Project. Since some other institutions also installing similar system, it is important to share the information and discuss and coordinate to avoid redundancy and make research activities more effective. His research will contribute the government plan for natural disaster mitigation.

## Online Meeting with KIKAI Institute for Coral Reef Sciences



KIKAI Institute for Coral Reef Science, Japan  
(Photo KIKAI Inst. Official Website)

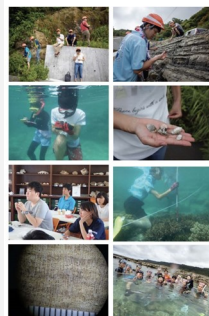


Lectures of Geology and Petroleum Department  
had online meeting with KIKAI Institute

Geology and Petroleum department had discussion with KIKAI Institute for Coral Reef Science, Japan. KIKAI Institute is the Research Institution, which provides the environment education program and foster students and young promising science researchers.

They are seeking for the collaboration with Geology and Petroleum department to implement their science camp for coral study in Atauro Island.

**CORAL REEF  
SCIENCE CAMP  
IN KIKAI-JIMA**



## JICA Mission from HQ

JICA mission from HQ, visited the Faculty of Engineering, Science and Technology, UNTL from 14-17th February 2022. They visited each department to observe the situation of the education and research environment in the faculty. The mission also had discussion with JICA long-term trainee alumni who are working in government institutions to exchange their views on the future strategic plan of the faculty.



JICA Mission and Lecturers



Meeting with Minister of Petroleum and Mineral Resources

## The 5th Joint Coordinating Committee Meeting

On February 15th, 2022, the 5th Joint Coordinating Committee Meeting was held in the auditorium of the Faculty of Engineering, Science and Technology, Hera Campus.

The review of project activities was presented by Mr. Domingos, vice dean of research and cooperation affair. The Director General of Higher Education, Science and Culture and the Rector of UNTL, JICA chief representative and mission from JICA HQ participated in this meeting and discussed the progress report and project final year plan and exchanged the views on the development of the faculty of science and technology, UNTL. Now it is ready for the project final year to achieve our objectives!



The Presentation of Project Review



JCC Members of CADEFEST Project II



## Launching the TAJST Volume 4

Timorese Academic Journal of Science and Technology (TAJST) volume four is launched on 15th February, 2022 during the 5th JCC meeting. In this TAJST Volume four, 19 papers are submitted from lecturers of the faculty of science and technology, UNTL. Currently, total academic journal papers which produced by the lecturers of the faculty have been reached 112 papers from 2016 to date.



TAJST Volume 4 Launching Ceremony

The call for paper of next volume \* (TAJST Vol. 5), is now open. The deadline of the submission will be the end of June 2022. The more research outcomes are expected to submitted for the next volume of TAJST.

## Equipment Handover

The ceremonial handing over of engineering equipment took place within the framework of JICA CADEFST project Phase II.

Total amount of the 22,539,260JPY (Aprox.200,000USD) .

The equipment including the scanning electron microscope (SEM) for geology and petroleum Department which is the first installation in the country ,Timor-Leste.



Handover Signing Ceremony



The provision of equipment

We expect more outcomes from the utilization of these equipment in the faculty and the society in Timor-Leste.



# Graduate Tracer Survey

On Dec 2021, the graduate tracer survey has been conducted and the result is shown as the table below

Graduate Year/ Month	After Graduation	Graduates	Response (A)	No Response	Employed (B)	Unemployment	Employment rate ((B)/(A))
2016 Nov	5 Year 2M	101	27	74	21	6	78%
2017 May	4 Year 6M	67	31	36	28	3	90%
2017 Nov	4 Year 2M	94	40	54	30	10	75%
2018 May	3 Year 8M	87	39	48	34	5	87%
2018 Dec	3 Year 4 M	80	45	35	35	10	78%
2019 Jun	2 Year 7M	92	67	25	53	14	79%
2019 Dec	2 Year 1 M	87	56	31	48	8	86%
2020 Sep	1 Year 4 M	61	31	30	17	14	55%
2021 May	8 Month	33	17	16	12	5	71%
2021 Sep	4 Month	26	9	17	5	4	56%
2022 Jan	-	93	39	54	9	30	23%

***The employment rates for those who graduated before 2021, they all could achieve more than 50% , while fresh graduates are still remaining low rate 23 %.***

***The current students are expected to prepare well to get job after the graduation to improve this situation.***

***We here express our appreciation towards to the graduates who responded this tracer survey.***

# Osaka Gas Scholarship



Ms. Fatima Riansani dos Santos is newly assigned as a project assistant in JICA CADEFEST Project Phase II from December 2021.

## JICA CADEFEST PROJECT PHASE II

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## Up Coming Event

- ◆ Call for paper for TAJST Vol.5
- ◆ Several Research Seminar to be planned
- ◆ The provision of Equipment



JICA held a scholarship presentation ceremony at Hera Campus on 21st January 2022. Thirty (30) students with high Grade Points Average from the Faculty of Engineering, Science and Technology were selected to be supported US\$ 15,000.



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TAJST Vol.4 has been published.

Free download now available from our website below.

<http://fect.untl.edu.tl/tajst-tp.html>

*Editor are happy to receive suggestion and comments to improve this news.*