



Project Completion Report

Project for Capacity Development of

Faculty of Engineering, Science and Technology

National University of Timor-Lorosa'e, Phase 2

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I. Basic Information of the Project

1. Country

The Democratic Republic of Timor-Leste

2. Title of the Project

The Project for Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e(UNTL) Phase 2

3. Duration of the Project (Planned and Actual)

August 2016 to August 2021 (Planned) August 2016 to March 2023 (Actual)

4. Background (from Record of Discussions(R/D))

The National University of Timor-Lorosa'e is the only national public higher education institution in Timor-Leste, which was established in November 2000. The Faculty of Engineering was established, based on the former Dili Polytechnic, for the development of technology-based human resources who play a major role in nation-building. The capacity of lecturers, however, was not enough. In addition, more than 70% of the infrastructure in the country, including educational institutions facility, was destroyed on the aftermath of the referendum for the independence in 1999, which paralyzed education system including higher education.

JICA started its cooperation with the Faculty of Engineering, UNTL, by dispatching experts, procurement of equipment and long-term training in response to the request from the government of Timor-Leste. In April 2006, the technical cooperation project "Capacity Development for Teaching Staff in Faculty of Engineering, National University of Timor-Lorosa'e (CADETES)" was launched for the purpose of capacity building of lecturers of the Faculty of Engineering. Between February 2011, and March 2016, another technical cooperation project "the Project for Capacity Development of the Faculty of Engineering, Science and Technology the National University of Timor-Lorosa'e (CADEFEST)" was implemented in order to improve the education and research capacity of the Faculty of Engineering, Science and Technology, in the fields of Mechanical Engineering, Civil Engineering, and Electrical & Electronic

Engineering. In the project, in addition to the improvement of the research capacity of the lecturers and development of the curriculum, JICA supported transition from a 3-year program to 4-year "licenciatura" undergraduate program. Meanwhile, the faculty of engineering, science and technology, UNTL needs to strengthen their research and education capacity more to fulfill social needs in the country, Timor-Leste. Under such circumstances, the Government of Timor-Leste requested to the Government of Japan for further cooperation to the faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e (hereinafter, referred to as "FoEST-UNTL").

5. Overall Goal and Project Purpose (from Record of Discussions(R/D))

Overall Goal:

The Faculty of Engineering, Science and Technology, UNTL (UNTL-FEST) produces high-skilled human resources who can contribute to the society.

Project Purpose:

The faculty provides excellent education under appropriate management and operation.

6. Implementing Agency

Ministry of Higher Education, Science and Culture

Faculty of Engineering, Science and Technology (FoEST), National University of Timor-Lorosa'e (UNTL)

Japan International Cooperation Agency (JICA)

II. Results of the Project

1. Results of the Project

1-1 Input by the Japanese side

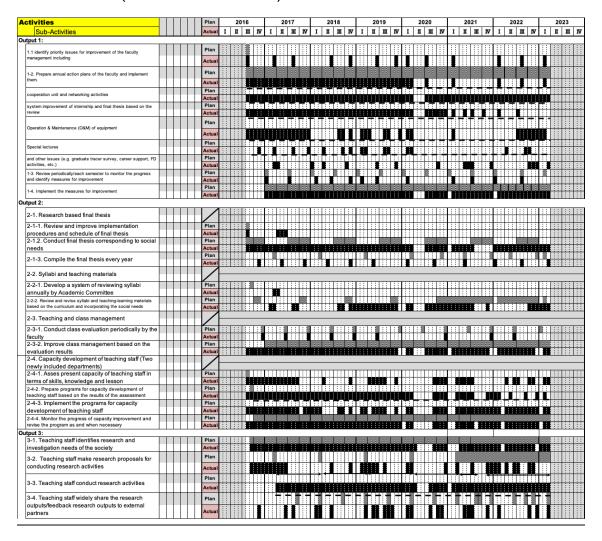
It is shown as ANNEX 1.

1-2 Input by the Timor-Leste side

The following items were provided as stated in R/D

- 1. Assignment of C/P (Dean and Academic/ Administration staff)
- 2. Provision of office spaces and furniture for experts
- 3. Necessary local expenses of the project implementation

1-3 Activities (Planned and Actual)



2. Achievements of the Project

2-1 Outputs and indicators

Output 1: Mechanism of faculty management to address priority issues is enhanced (<u>Achieved</u>)

| PDM Indicator | June. 2019 (Mid. Rev) | Mar. 2023 |
|---|--|--|
| 1.1 List of external partners (present and potential) is prepared and updated regularly | Prepared and Updated | Prepared and Updated (Achieved) |
| 1.2 Number of activities for networking with external partners (such as Industries, governments, communities, universities in the region) (**to be defined) : 30/Year | 24 activities in 2019 | 45 activities / Project 6 th year (Achieved) |
| 1.3 Syllabi for internship and final thesis are prepared. | Guidelines for internship and final thesis were prepared. | *Guidelines for internship and final thesis were prepared and available FoEST web site. (*Guidelines contains the contents of syllabi, thus, the guidelines are substantially equivalent to syllabi.) (Achieved) |
| 1.4 Guidelines and manuals of Operation & Maintenance (O&M) of equipment are developed | Initial Operation training for new equipment has done | Planed operational & maintenance training has been done (Especially ,Mechanical, Electrical, Geology and Petroleum) (Achieved) |

1.5 Responsible personnel and procedures for requesting updates /repair of facilities and equipment are clearly defined.

Contract
Technicians are
allocated and
expected to
become
permanent.

Technicians are employed as fixed term contract and assigned each department. to One technician will become permanent in 2023. Permanent status expected for all technicians. (Achieved)

- 1.1 List of external partners (present and potential) is prepared at the beginning of the project and updated every half a year. The list of external partners is attached as Annex 2.
- 1.2 Number of activities for networking with external partners
 The target number of activities with external partners is 30 per year and the
 number of activities, which the project conducted in its sixth year, was 45 (15
 activities over the target) (Fig.1). With the situation of COVID-19 returning to
 normal, the faculty was able to catch up and accelerate the activities with
 external partners.

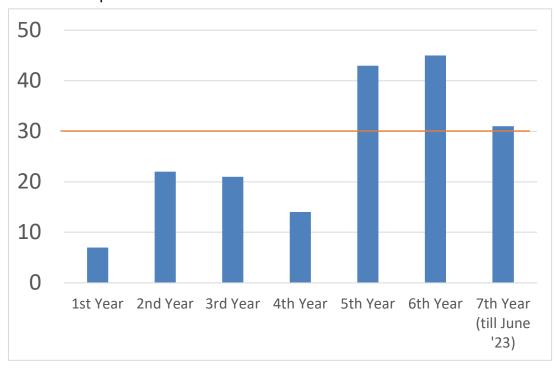


Fig. 1 Number of activities with external partners

1.3 Syllabi for internship and final thesis are prepared.

The final thesis and internship guidelines, which are substantially equal to Syllabi, have been prepared and are available on the FoEST website below: http://fect.untl.edu.tl/st-7-tp.html

1.4 Guidelines and manuals of Operation & Maintenance (O&M) of equipment are developed.

Training has been conducted as planned and are mainly the following topics:

- Mechanical Engineering (CAD/CAM)
- Water level sensor and rain gauge
- Students' Electrical Experiments
- Equipment for petroleum analysis in Geology and Petroleum Field
- 1.5 Responsible personnel and procedures for requesting updates /repair of facilities and equipment are clearly defined.

When this project started, the best performance alumni were newly employed as contract laboratory assistants in each department. Although the two young laboratory assistants in the civil department moved to the institution of polytechnic Betano, there is still one senior permanent staff member for equipment maintenance in the civil department. All laboratory assistants are expected to become permanent but only one laboratory assistant had gained a permanent position in the mechanical engineering department as of the end of the project. FoEST will continue to request UNTL HQ to provide more employment opportunities.

Output 2: Education Corresponding to Social Needs is Improved at FoEST-UNTL (Mostly Achieved)

| PDM Indicator | June. 2019 (Mid. Rev) | Mar. 2023 |
|---|---|--|
| 2.1 More than 80% of final thesis pass the examination based on the agreed criteria | 4 years program's first batch students graduated. | 90% Intake 2012 90% Intake 2013 85% Intake 2014 79% Intake 2015 |

| | 86% (as of June 2019 Graduation Ceremony) | (Mostly Achieved) |
|--|---|---|
| 2.2 More than 90 % of students are satisfied with the education provided by the faculty. | | 100% Satisfied (Survey at graduation in 2023) (Achieved) |
| 2.3 Class evaluation results get more than 4 averaged points. | Average 3.8 points | Average 4.4 points in 2022 (Achieved) |

2.1 More than 80% of final thesis pass the examination based on the agreed criteria.

More than 80% students who admitted the faculty from 2012 to 2014 have passed final theses. According to the UNTL Academic regulations, students have to complete their final thesis within 6 years. However, most students could not finish within this timeframe (Fig.2).

Although the COVID-19 pandemic negatively affected their final thesis preparation in this project period, the students should be encouraged to finish their final thesis finish within the 6-year timeframe.

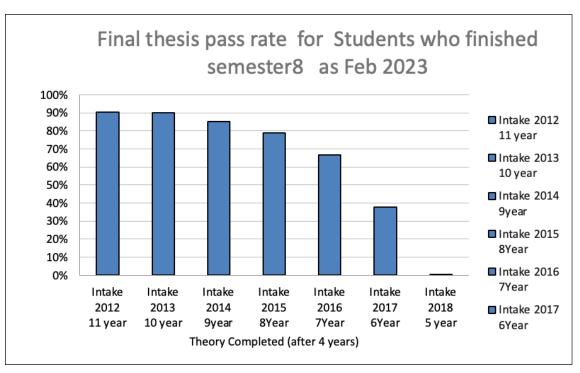


Fig. 2 Final Thesis Pass Rate for Students who finished semester8 (as of Feb 2023)

2.2 More than 90 % of students are satisfied with the education provided by the faculty.

According to the questionnaire survey which was completed at the registration for the 2022 graduation ceremony, 18% said they were satisfied and 82% were very satisfied. This meets our goal for student satisfaction (Fig.3).

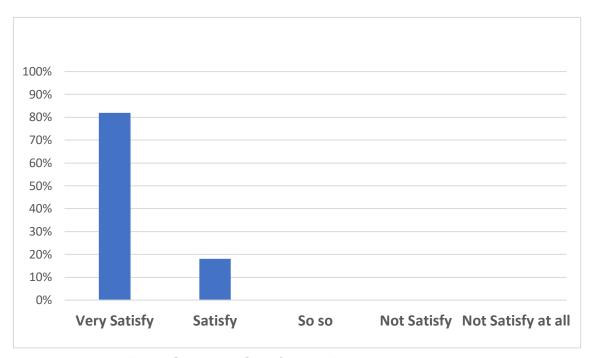
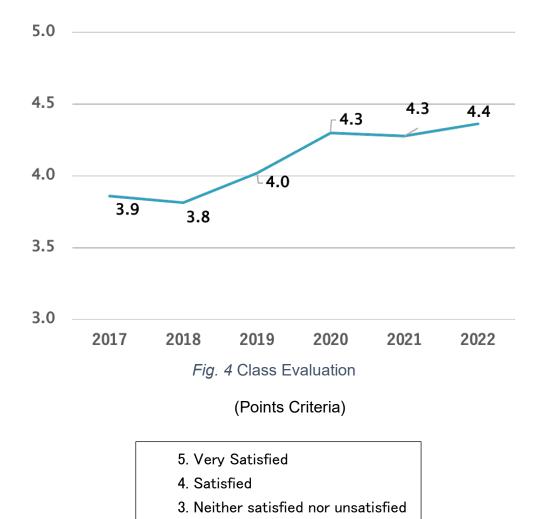


Fig. 3 Student's Satisfaction Rate in 2022

2.3 Class evaluation results get more than 4 averaged points.
Online students' Class Evaluation reached <u>4.4</u> in Even Semester 2022.



When students register for classes through the online system, they are asked to complete an evaluation for the classes they took in the previous semester. Thus, all students participate in this evaluation. Thanks to improve class contents through lectures' short/long term training and the improved classroom environment in the faculty new building, the evaluation results gradually improved and achieved our target (Fig.4).

1. Needs serious improvement

2. Could be improved

Output 3: Research corresponding to social needs are conducted by teaching staff of FoEST-UNTL (by Cooperation unit) (All achieved)

| PDM Indicator | June. 2019 | Mar. 2023 |
|---------------|------------|-----------|
| | (Mid. Rev) | |

| 3.1 Percentage of faculty staff who submitted research proposals corresponding to social needs: 70 % | Average. 40 % | 78 % (Including lecturers pursued in Ph.D Portugal and Japan) (Achieved) |
|--|------------------|--|
| 3.2 Number of research corresponding to social needs conducted: <u>50</u> | 18 | 167 (Achieved) |
| 3.3 Number of research papers published: 10 Publication/year | 14/year | 29/year (Achieved) |
| 3.4 Number of research presentations for sharing research outputs: | 16/year | 23/year (Achieved) |

3.1 Percentage of faculty staff who submitted research proposals corresponding to social needs: $\underline{70~\%}$

Finally, 78% of lecturers have some experience of compiling a research proposal. This includes those who currently study in Portugal and Japan (Table1).

Table 1 Percentage of faculty staff who submitted research proposals.

| Department | Number of Ad Lecturers | Lectures who have experience for Research Proposals | % |
|------------|---------------------------|---|-----|
| Mechanical | 25 | 18 | 72 |
| Civil | 18 | 13 | 72 |
| Electrical | 17 | 13 | 76 |
| IT | 11 | 9 | 82 |
| GP | 11 | 11 | 100 |
| Total | 82 | 64 | 78 |

3.2 Number of research corresponding to social needs conducted: <u>50</u>

The number of conducted research projects was 167, which includes the research conducted during long-term training. The number of research projects went far beyond our target.

Table 2 The number of conducted research

| Department | Number of Conducted Research |
|------------------------|---------------------------------|
| Mechanical | 47 |
| Civil | 33 |
| Electrical | 41 |
| IT | 32 |
| Geology / Petroreum | 14 |
| Total | 167 |

3.3 Number of research papers published: 10 Publications / Year.

The 29 research papers that were submitted in the project's final year went beyond our yearly target (ANNEX 2). The papers were published mostly in the Timorese Academic Journal of Science and Technology (TAJST). Although 14 papers were submitted to international journals, we would like this number to increase (Table 3).

Table 3 Number of Papers by Publications

| Publication | 1 st year | 2 nd year | 3 rd year | 4 th year | 5 th year | 6 th Year | 7 th Year | Number of Papers |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| TAJST | 4 | 9 | 30 | 21 | 24 | 21 | 29 | 94 |
| International Journals submitted from the FoEST | 2 | 0 | 0 | 1 | 3 | 4 | 4 | 14 |
| Conference Proceedings | 2 | 7 | 4 | 4 | 1 | 0 | 0 | 18 |
| Papers with peer review submitted during Training in Japan | 0 | 0 | 8 | 2 | 2 | 0 | 0 | 12 |
| Total | 4 | 9 | 30 | 21 | 24 | 21 | 29 | 138 |

3.4 Number of research presentations for sharing research outputs: 20/year Although there were restrictions to hold face-to-face seminars due to COVID-19, ultimately, 23 research presentations were conducted in the project's sixth year (ANNEX 2).

Table 4 Number of Presentation

| Year | 1 st | 2 nd | 3 rd | 4 th | 5 th | 6 th | 7 th | Total |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|
| real | year | Number |
| Number of | 4 | 10 | 1.1 | 2 | 16 | 22 | 16 | 0.4 |
| Presentations | 4 | 18 | 14 | 3 | 16 | 23 | 16 | 94 |

2-2 Project Purpose and indicators

Project Purpose: Education and research functions corresponding to social needs are enhanced at FoEST-UNTL. (Mostly achieved)

| PDM Indicator | June. 2019 | Mar. 2023 |
|---------------|------------|-----------|
| | (Mid. Rev) | |

| Graduation rates of students within fixed duration are improved from 50 % to 80% | 67%Intake2012 60%Intake2013 18%Intake2014 | 71% Intake 2012 70% Intake 2013 68% Intake 2014 66% Intake 2015 (Not achieved yet) |
|--|---|--|
| 2. Number of collaborative activities with external partners (*): 130 (after 5 years) | 50 | 178 (Achieved) |
| 3. 70 % of graduation theses obtain score 8.0 or more. | This indicator was added during Mid-Term Rev in 2019. Base line is 69% in 2019. | 88% in 2022 (Achieved) |
| 4.Number of research papers published: 50 (after 5 years) | 43 in 2019 | 138 papers (Achieved) |

1. Graduation rates of students within fixed duration are improved from 50 % to 80%

Fig. 5 shows the graduation rate for the number of students who enrolled in semester one by each intake. Although the academic regulations state that students have to graduate within six years (allowed to register up to semester 12), UNTL does not strictly impose this regulation and still accepts students. As fig. 4 shows, the graduation rate is approaching 70%. However, there is still room for improvement in order to reach our target. In addition, the faculty needs to encourage students to graduate within the 6-year timeframe.

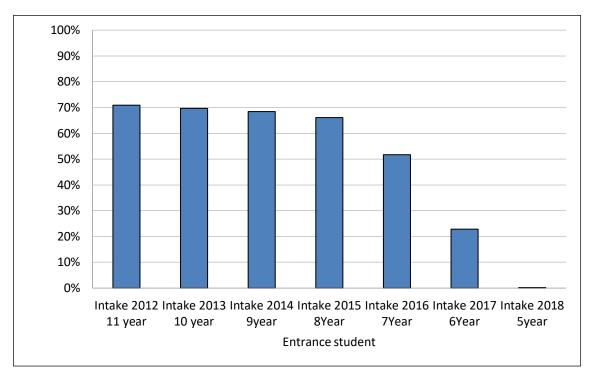


Fig. 5 Graduation rate for Students who enrol in semester1 (as of Feb 2023)

The first batch of students for the 4-year bachelor program enrolled in 2012. Fig. 6 shows the number of intakes of first batch students in each semester for 2012. As fig. 6 shows, about 60 students (approx. 20%) left the program or postponed their studies between semester one and semester eight. Other batches also have the similar trends. According to the interviews with both lecturers and students, most students left the faculty in semester one or two in order to study abroad with a scholarship or self-funding. This should be investigated more and take necessary countermeasures to keep high students' registration rate.

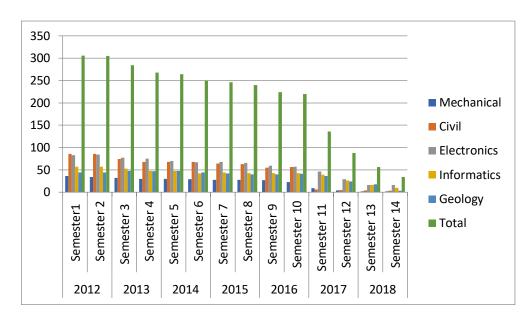


Fig. 6 Number of students (intake 2012) in each semester

2. Number of collaborative activities with external partners: 130 (after 5 years)

The total accumulated number of activities is 178 as of March 2023, which was beyond our target (130) at the completion of the project. These activities promoted enhanced relationships with external partners.

3. 70% of graduation thesis obtains score 8.0 or more.

This indicator was newly introduced at the mid-term review in 2019 to maintain the quality of final theses. In 2022, 90 final students out of 104 gained a score of 8.0 or higher. Thus, 87% of graduation theses met the target.

| i abie | 5 | Graduatioi | n tneses | grades |
|--------|---|------------|----------|--------|
| | | | | |

| Score Range | Number of Students |
|------------------|--------------------|
| More 9 - Less 10 | 19 |
| More 8 - Less 9 | 72 |
| More 7 - Less 8 | 13 |
| More 6 - Less 7 | 1 |
| More 5 - Less 6 | 0 |
| Total | 104 |

4. Number of research papers published: 50 (after 5 years)

138 papers were published; thus going beyond the target. However, most of the publications were published in TAJST. There should be an increase in the number of papers published in international journals.

3. History of PDM Modification

On the occasion of the 4th JCC (12th September 2019), the revised points in the PDM, based on the mid-term review mission recommendations and the current situation were suggested as follows:

- Objectively Verifiable Indicators for output 1 (1-2. Number of activities for networking). The target number of activities should be set at 30 per year without categorizations in accordance with the current socio-economic circumstances in Timor-Leste.
- 2) Objectively Verifiable Indicators for output 2 (2-4. Evaluation results of the capacity of teaching staff). These should be deleted since there is no additional input to these two departments and hence no reason to expect additional output.
- 3) Objectively Verifiable Indicators for output 3 (3-2. Number of research corresponding to social needs conducted). It is difficult to count the number of research by year, therefore, the target number of research will be set at 50 as an accumulated target number during the project period.
- 4) Objectively Verifiable Indicators for output 3 (3-4. Number of research presentations). The sharing of knowledge among faculty members should be included. Therefore, "for sharing research outputs" will be added to the description.
- 5) Objectively Verifiable Indicators for project purpose (1. Graduation rates of students within fixed duration). Since UNTL is to execute the regulation that the enrolment period should not be more than 6 years, "6 years" should be added to the description.
- 6) Objectively Verifiable Indicators for project purpose (2. Number of collaborative activities with external partners). This should change from 280 to 130, based on the socio-economic circumstances in Timor-Leste. However, a deepening of collaborative activities should be expected, as well as an increase in the number of meetings.
- 7) New objectively verifiable indicator for project purpose should introduce that "70% of graduation theses obtain a score of 8.0 or more". This is

- because the indicator for improvement of education corresponding to social needs should be added.
- 8) Objectively Verifiable Indicators for overall goal (3. Number of collaborative activities with external partners). The target number of activities should change from 450 to 200 due to the socio-economic circumstances in Timor-Leste.
- 9) Due to the delay of inputs from the Japanese side caused by JICA's Inevitable circumstances relating to resource mobilization, FoEST and the Team suggested extending the project period for up to 8 months till March 2022.
- 10)After confirmation from both the rector of UNTL and the chief representative of JICA Timor-Leste office, M/M for Modification of Project Design Matrix (PDM) was signed on 6th February 2020.
- 11) The project period again extended for one year to catch up on the activities since some activities were suspended due to COVID-19 and M/M for modification of Record of Discussion was signed on 23rd August 2021.

III. Results of Joint Review

1.Results of Review based on DAC Evaluation Criteria

(Rating scales (High, Relatively high, Moderate, Relatively low, Low) were applied to evaluate each criterion.)

Relevance (High)

| Aspect | June. 2019 (Mid. Rev) (High) | Mar. 2023 (High) |
|----------|---|---------------------|
| Policies | The Project is consistent with policies of the Government of Timor-Leste. | Same as left |
| Needs | The UNTL Strategic Plan 2011-2020 defines UNTL's mission as achieving excellence through academic, research and community services; long term strategies for 2016-2020 include preparing highly qualified academic staff. Following UNTL's strategic plan, FoEST has published its development plan | Same as left |

| | for 2015-2020, which states that FoEST aims to become the center of excellence in science and technology in Timor-Leste | |
|---------------------|--|--------------|
| Approach/ Design | UNTL is the only state university in Timor-L4este and aims to become the center of excellence for higher education in the country. The Project puts in Japanese academia, targeting the FoEST that should be a major resource institution for industrial human resources development in Timor-Leste. | Same as left |

As for the relevance to the government policies, the Timor-Leste strategic development plan (SDP) 2011-2030(2011, P32) stated that "University education will focus on investigating and creating knowledge, which provides a broad scientific, technical, and cultural preparation for further study and research, or entry to the labour market." The project is complying with this strategy since the project outputs are including the capacity building for research activities and also support the students' employment. The SDP also mentioned that "To support the critical area of training in engineering, a modern Faculty of Engineering complex will be built at Hera(P23)". It has been realized though Japanese grant aid to build new campus building at Hera in 2019.

The project also aims at fostering human resources who have the advanced skills and knowledge for engineering fields to contribute to country's infrastructure development. This is also aligned with long term goal (2030) in the national education strategic plan (2011-2030), which stated that "Graduates of the higher education system will have the advanced skills and knowledge to analyses, design, build and maintain the social and economic infrastructure of Timor-Leste (P105)"

To corresponding to social needs as one of the main elements for the project is also follows the UNTL academic affair strategic plan. It says that "Prepare and improve community services systems for serving the society needs" in broad objectives (UNTL strategic plan 2011-2020, P31). Therefore, it could be concluded that the project is still relevant to policies in higher education in Timorleste.

Coherence (High)

| Aspect | June. 2019 (Mid. Rev) (N/A) | Mar. 2023 (High) |
|--|---|---|
| ODA Policy | | JICA Timor-Leste focus on three priority area, which are relevant for this project, such as Development and improvement of socioeconomic infrastructure Promotion of Industry Diversification Improvement and Expansion of Social Service Delivery |
| Relation with Other JICA Project | (Coherence is newly introduced in 2020) | The project had collaborations (research & education activities, internship) with other JICA projects, namely, The Capacity Development of Road Services in Timor-Leste Urgent relocation of Ferry Terminal in Dili port Construction of upriver Comoro bridge |
| Relation with other international activities | | The research activities in cooperation unit contributes international issues such as SDGs. (Renewable energy for forest conservation, pet-asphalt, cooking oil recycle, solar pump feasibility study with UNDP project) |

According to Japan's Country Assistance Policy for Timor-Leste (May 2017) https://www.mofa.go.jp/files/000328282.pdf, There are three priorities as bellows:

- (1) Development and Improvement of Socioeconomic Infrastructure
- (2) Promotion of Industry Diversification
- (3) Improvement and Expansion of Social Service Delivery

The faculty produces the quality graduates who can serve infrastructure fields and also encourages students to become entrepreneurs to promote industry diversification. Therefore, three priorities above are covered by the project.

As for the relation with other JICA projects in Timor-Leste, the collaboration activities with other JICA technical Cooperation and their outcomes are as follows:

The Project for the Capacity Building of Road Maintenance in the Democratic Republic of Timor-Leste

The Informatics Engineering Department and civil engineering department jointly conducted the research for road condition monitoring system with support of JICA experts. Through the collaboration research activities, nine peer reviewed papers are published.

The Project of Urgent Shift of Ferry Terminal in Dili Port Lectures in Civil engineering department did the site visits with JICA experts and organized students site visit activities. The construction company staff gave the special lecture for the civil engineering students.

The Project for Construction of Upriver Comoro Bridge Lectures in civil engineering department and JICA experts visited the site and discuss with the consultants to study bridge construction. The faculty also organized the students' internship for one and half months.

Regarding to the SDGs related activities, the faculty conducted the following activities.

Renewable energy for forest conservation

Mechanical department developed prototype small hydropower system which the local communities can utilize in the river. The Department also developed the cocking stove which can reuse the used oil. Other than those, they develop the palm wine brewery system which can reduce the CO2 emission and preserve the wood materials in rural area. Those activities shared through research publication such as Timorese Academic Journal of Science and Technology (TAJST) and also AUN-SEED Net regional conference.

Pet-asphalt (Re-use pet-bottles)

Civil Engineering department did the research with collaboration of international NGOs to re-use the used pet-bottles or plastic for mixing asphalt aggregate. The outcomes are shared as one published paper in Timorese Academic Journal of Technology (TAJST).

Solar pump feasibility study / flood damaged house survey with UNDP project The faculty, including all five departments, joined the UNDP project which is feasibility study for installation of water pump with solar panel. The lecturers and students visited the target area and do the study with local communities and reported to UNDP. In addition, UNDP requested to the faculty to do the damaged house survey, which affected by the Tropical Cyclone Seroja hit the Timor-Leste on 4th April 2021.

Through the summaries of our activities and ODA policies above, we evaluated the coherence is high.

Effectiveness (High)

| Aspect | June. 2019 (Mid. Rev) (Relatively high) | Mar. 2023 (High) |
|--------------------------------|---|---|
| Achievement of Project Purpose | The Project has effectively supported the capacity development of FoEST. It should be possible to increase the numbers of collaborative activities and publications, supposing that the project activities should be further accelerated based on the achievement in the former half of the Project and the strong motivation of FoEST to enhance education and research. | Although some issues are remaining, (such as graduation and employment rates, research publication quality), most objectively verifiable Indicators in PDM achieved their target. |

The most objectively verifiable indicators in PDM have been achieved except graduation rates. The lecturers actively participated in project activities and produced expected deliverables, such as research papers, reviewed syllabus and teaching materials with JICA experts. Due to the close relationship between lecturers and Japanese professors, their online communications were effectively conducted. Although the graduation rates could not achieve the target in this project phase, some improvement showed from 4-year bachelor program

students (4year bachelor program started intake from 2012), if we see the graduation rates from 2002 to 2015 (Fig.7)

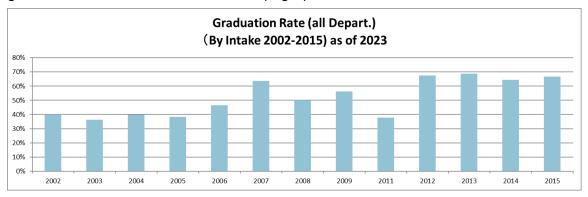


Fig. 7 Graduation Rates by Intake 2002-2015 in 2023

To sum up, the lecturers and JICA experts effectively conducted the project activities and produce good outcomes, we concluded ,therefore, Effectiveness of the project is high.

Efficiency (Moderate)

| Efficiency (Wo | | |
|--------------------------------|--|---|
| Aspect | June. 2019 (Mid. Rev) (Moderate) | Mar. 2023 (Moderate) |
| Level of achievement by Output | Ccollaborative activities with external partners need acceleration (Output1). Registration for the final project (Output2) is yet to be strategically promoted. Research that corresponds to social needs (output 3) has been implemented; however, the upgrading the quality is challenging. Delay of equipment delivery and short-term experts dispatch should have affected the enhancement of equipment maintenance system. | The number of collaboration activities have been reached the target (output1) Yet, most students still need to graduate more than 6 years (output2) Need more qualified research to be accepted by high impact factor international journals. (output3) The provision of equipment has been recovered, while planned short-term training still affected by Covid-19. (output2) |

Some more qualitative improvement is required specially for the research activities while quantitative targets have been achieved. Since five lecturers are now pursuing their Ph.D degrees abroad, more contributions for publishing international journals are expected once they return to the faculty with their degrees.

According to the academic guideline in UNTL, students have to complete their study within semester 12 (6 Years). As figure 6 shows ,however, some still need more years to complete the program. This may imply that more close consultation to students is required to improve the situation.

As for equipment delivery, experts dispatch and short-term training, COVID-19 negatively affected specially for short term training due to the restriction of international travels, though the provision of equipment were progressed after the mid-term review mission.

Considering all these, there is still room for improvement for efficiency. It is, therefore, concluded that the efficiency of the project is moderate.

Impact (High)

| Aspect | June. 2019 (Mid. Rev) (Uncertain) | Mar. 2023 (High) |
|------------------------------------|--|---|
| Prospect of achieving Overall Goal | Impact may be achieved, depending on the progress of the latter half of the Project. It is too early to evaluate the impact at this time. | Project activities widely contribute social issues such as research survey on natural disaster due to the Ceylon "Seroja". In addition, six lecturers are assigned as top decision maker in government institutions in Timor Leste. Furthermore, Agência Nacional para a Avaliação e Acreditação Académica (ANAAA) *evaluation shows huge improvement of CE, IE. |

^{* (}ANAAA is an autonomous agency. It is under the supervision of the Minister of Higher Education, Science, and Culture (MESCC), with the principal aim of promoting the quality

assessment and accreditation of higher education institutions and study cycles in Timor-Leste.)

One of the noticeable impacts is the flood research collaboration between the faculty and Yamaguchi university. On 4th April 2021, cyclone seroja hit the Timor-Leste and a part of Indonesia and the flood caused 44 fatalities and critical infrastructures were damaged. Immediately after this disaster, the lecturers and students from civil engineering department and geology and petroleum department built the survey teams with support from professors from Yamaguchi University. They collected the data and made hazard maps and flood inundation maps in Dili City. The results were directly presented to both prime minister and vice prime minister who is in charge of infrastructure. One of the lecturers in civil engineering department, who just completed his Ph.D in Yamaguchi university was nominated as a coordinator of technical working group for infrastructure identification and collective public equipment to represent the government of Timor-Leste. They also organized the online seminar with Yamaguchi University to share the outcomes of their flood research survey among Japanese researchers in the field of disaster prevention. The faculty also held the flood seminar to share their research to the public in Timor-Leste.

Another impact is that lectures who participated in JICA long-term /short term training were assigned as top management posts in government institutions as follows.

- Dr. Victor da C. Soares, Minister of Petroleum and Mineral Re-sources.
 He obtained his Master's degree from Nagaoka University of Technology,
 Japan in 2004.
- Mr. Mariano Renato M. da Cruz, Executive Director of the National Development Agency (ADN). He gained his master's degree from Hiroshima University, Japan in 2004.
- Dr. Paulo da Silva, President of the Electricity of Timor-Leste (EDTL).
 He obtained his Doctoral degree from Nagaoka University of Technology,
 Japan in 2020.
- Dr. Ruben Jeronimo Freitas, President of the National Authority for the Electricity (ANE). He gained his Doctoral degree(Ron-paku) from Gifu University, Japan in 2017.
- Dr. Benjamim Hopffer O. Martins, Coordinator of Technical Working Group for infrastructure identification and collective public

- **equipment**. He graduated from Yamaguchi University, Japan and gained his Ph.D in 2020.
- Mr. Gabriel Gaspar Aparício de Oliveira, President of Instituto do Petréleo e Geologia (IPG). He participated in short-term training in Kyushu University in 2019.

As for the quality assurance for the faculty, as mentioned in Chapter IV, the great progress of the results of evaluation made(Table 8). Accordingly, we concluded that the impact of the project is high.

Sustainability:(Moderate)

| Bustainability:(Moderate) | | | |
|---------------------------|---|---|--|
| Aspect | June. 2019 (Mid. Rev) (High with several conditions) | Mar. 2023 (Moderate) | |
| Policy | The project is sustainable in terms of the policies of Timor-Leste and UNTL unless external conditions are changed. | Same as left | |
| Organizational | Organizational sustainability of the project should depend on the stable human resources assignment to certain positions such as those related to equipment maintenance and collaboration with external partners. | UNTL allocated five permanent employment quotas for the FoEST in 2023. One of them allocated to technician in mechanical engineering department. Other departments still seeking the opportunities. | |
| Financial | Research grants are indispensable for promoting research that address social needs and sustaining the Project activities. Securing internal and external research funds that could be used for actual research activities including 8th semester students' final projects is indispensable for FoEST to | Although some budget for research equipment was allocate to the FoEST in 2022, it is still not enough to cover the research activities and equipment maintenance. | |

| | continue capacity development and correspond to social needs. | |
|-----------|---|--|
| Technical | Partnership with Japanese universities nurtured through the Project should be constantly maintained in order to continuously update the quality of education and research of FoEST. The considerable number of co-authored papers is positive evidence of sustainability. | The relationship between Japanese professors and lecturers of FoEST is strengthened due to online research discussion. To maintain this situation, internet connection should be improved and need more budget allocation for online communications. |

Regarding the sustainability, the budget allocation of the faculty is the crucial issue. Although there are some additional allocations of the budget such as journal printing costs and laboratory equipment, the total budget still not enough to purchase equipment and consumable for continuing research activities.

As for the faculty staff employment, more permanent staff are required since most laboratory technicians are fixed-term contract. Laboratory technicians are essential to maintain laboratory facility and equipment for education and research activities. In order to secure the sustainability, the faculty will continue to propose the authorities concerned to take countermeasures. It concluded, therefore, that sustainability is moderate.

2. Key Factors Affecting Implementation and Outcomes

The global COVID-19 pandemic affected the project inputs and activities. All Japanese experts returned to Japan and did their best to communicate with lecturers through online. Since lecturers and Japanese professors had close relationship, the online communications are effectively worked to proceed research and education activities. Consequently, it showed good outcomes, such as the flood survey research with Yamaguchi University and the publication of the faculty journal (TAJST vols. 4 and 5). Furthermore, one mechanical lecturers gained Ph.D (Ronpaku) through the online instruction and defense from Nagaoka University of Technology in Japan.

As for the outcomes for long term trainees, two long-term training participants who gained their Ph.D in Japanese universities and one shot-term training participant were assigned the top management of Government institutions.

3. Lessons Learnt

- The selection of candidates for long-term training needs to be discussed carefully well in advance between the faculty and the project. Although the examinations, written tests and interviews, were conducted fairly, the results could not be accepted by the faculty due to the following reasons;
 - Some candidates did not meet the UNTL's regulation to study abroad (UNTL Lecturers have to serve in UNTL for three years at least, after the completion of the previous scholarship).
 - Some candidates' research fields are similar with other lecturers who already gained their degree in the department and not priority research fields in the department.

To avoid this situation, JICA and the faculty should discuss more about the priority of the candidates in each department before conducting the selection test and carefully confirm the eligible applicants for the scholarship program.

Japanese experts need to develop teaching and learning methods to Timorese lecturers carefully, some lecturers and students need to study more basic mathematics and science subjects since they could not study under the sufficient learning environment due to the post-conflict confused situation in the county. Japanese experts, therefore, should instruct step by step and make sure their understanding, especially for mathematics related topics.

IV. For the Achievement of Overall Goals after the Project Completion

1.Prospects to achieve Overall Goal

FoEST-UNTL contributes to solving social problems through its education and research activities corresponding to social needs.

| Indicator | June. 2019 (Mid. | Mar. 2023 |
|-----------|------------------|-----------|
| | Rev) | |

| 1. Number (or employment rates) of graduates working in related fields: 50% | 60 % for alumni who graduated in May 2018, which is over the target | 76% for alumni who graduated in January 2022, while 7% is for fresh graduate in April 2023 |
|---|---|--|
| 2. Employers' satisfaction rates are increased from 85% to 90% | N/A | 93% (n=35) (Reference of ANAAA evaluation) |
| 3. Number of collaborative activities with external partners (*): 200(after 8 years) | 45 activities | 178 activities, which suggests high possibility of achieving the target |
| 4. Number of research papers published: 80 (after 8years of the project completion) | 24 papers | 138 papers Yet, need more international journals. |

^{*} Overall Goal is expected to be achieved in about 3 years after completion of the project.

1. Number (or employment rates) of graduates working in related fields.

Since there is no periodical job recruitment for fresh graduates in Timor-Leste, it takes some time for the graduates to find their job. Considering these circumstances, the mid-term review mission has decided to take the employment rate for one year later of their graduation ceremony as objectively verifiable Indicators. The employment rate for engineering field in graduation group in January 2022 achieved 76% at the time of the survey in December 2022 (almost one year after their graduation) (Table6). Some alumni became entrepreneurs and developed their own businesses. Since there are few industries in Timor-Leste except for the oil industry, these entrepreneurships should be encouraged, and consideration should be given on how to promote them.

Table 6 Graduate Tracer Survey (conducted in Dec 2022)

| Graduate Year/Month | After Graduation | Graduates | Response (A) | No Response | Employed (B) (excluded non- Engineering Field) | Employed (Non- Engineering Field) | Unemployment | Employment rate ((B)/(A) |
|------------------------|---------------------|-----------|--------------|----------------|--|--|--------------|--------------------------|
| 2016 Nov | 6 Year 2M | 101 | 16 | 85 | 15 | 1 | 1 | 94% |
| 2017 May | 5 Year 7M | 67 | 24 | 43 | 19 | 2 | 3 | 79% |
| 2017 Nov | 5 Year 2M | 94 | 42 | 52 | 31 | 4 | 7 | 74% |
| 2018 May | 4 Year 7M | 87 | 46 | 41 | 37 | 4 | 5 | 80% |
| 2018 Dec | 4 Year | 80 | 48 | 32 | 31 | 11 | 6 | 65% |
| 2019 Jun | 3 Year 11M | 92 | 61 | 31 | 49 | 6 | 6 | 80% |
| 2019 Dec | 3 Year 1 M | 87 | 66 | 21 | 54 | 6 | 6 | 82% |
| 2020 Sep | 2 Year 3 M | 61 | 38 | 23 | 21 | 7 | 9 | 55% |
| 2021 May | 1Year 7 M | 33 | 20 | 13 | 20 | 0 | 0 | 100% |
| 2021 Sep | 1Year 3 M | 26 | 18 | 8 | 14 | 1 | 2 | 78% |
| 2022 January | 11 Month | 93 | 49 | 44 | 37 | 0 | 12 | 76% |
| 2022 August | 4 Month | 91 | 69 | 22 | 19 | 1 | 50 | 28% |
| 2023 February | - | 137 | 133 | 4 | 9 | 4 | 124 | 7% |

2. Employers' satisfaction rates are increased from 85% to 90%

Agência Nacional para a Avaliação e Acreditação Académica (ANAAA) has conducted the evaluation for IT department and Civil Department in 2022. The employers' satisfaction survey conducted by both departments through this evaluation process and the results show 93% of 35 stakeholders are satisfied with the alumni from the FoEST. This evaluation should be conducted every five years. The Table 7 shows the rating.

Table 7 ANAAA Accreditation Rating

| ACCREDITATION RATING | POINT RANGE | REMARKS |
|----------------------|-------------|----------------|
| Α | 361-400 | Excellent |
| В | 301-360 | Good |
| С | 200-300 | Sufficient |
| Not Accredited | >200 | Not Accredited |

(Source: ANAAA)

The previous results of evolution were both C for IT and Civil Departments, while Civil department is evaluated as "A" and IT Department has gained "B" (Table 8). Other three departments will be evaluated in latter half of 2023.

Table 8 ANAAA Evaluation Results

| Department | 2016-2017 | 2022-2023 |
|----------------------------|-----------|-----------------|
| Mechanical | В | To be evaluated |
| Civil | С | A |
| Electrical and Electronics | В | To be evaluated |
| Informatics | С | <u>B</u> |
| Geology and Petroleum | С | To be evaluated |

3. Number of collaborative activities with external partners: 200 (after 8 years from project completion)

The accumulated number of collaborative activities with external partners is 178. Since the number of activities is 45 in project 5th year, the target number likely be achieved if this trend continues.

4. Number of research papers published: 80 (after 8years)

The accumulated number of papers 138 papers (including the TAJST papers). Thus, the target number has already been achieved.

Table 9 Number of research papers published

| | Mechanical | Civil | Electrical | IT | Geology / Petroreum | Total | |
|----------------------|------------|-------|------------|----|------------------------|-------|-----|
| Project | 0 | 0 | 4 | 0 | 0 | 4 | |
| 1 st Year | O | U | 7 | U | U | 4 | |
| Project | 3 | 0 | 3 | 3 | 0 | 0 | |
| 2 nd Year | 5 | U | 3 | 3 | U | 9 | |
| Project | 8 | 3 | 9 | 10 | 0 | 20 | |
| 3 rd Year | 0 | 3 | 9 | 10 | U | 30 | |
| Project | 0 | 9 | 5 | 5 | 2 | 0 | 0.1 |
| 4 th Year | 9 | 5 | 5 | 2 | U | 21 | |
| Project | 6 | 6 | 5 | 4 | 3 | 0.4 | |
| 5 th Year | O | O | 3 | 4 | 3 | 24 | |
| Project | 6 | 2 | 8 | 2 | 3 | 0.1 | |
| 6 th Year | O | 2 | 0 | 2 | 3 | 21 | |
| Project | 5 | 10 | 5 | 6 | 3 | 00 | |
| 7 th Year | S | 10 | J | U | 3 | 29 | |
| Total | 37 | 26 | 39 | 27 | 9 | 138 | |

2.Plan of Operation and Implementation Structure of the Timor-Leste side to achieve Overall Goal

- Through the alumni association and final thesis presentation seminar, the faculty will continue to promote to get more job opportunities in the field of engineering.
- The faculty periodically conducts the seminar and vising interviews with stakeholders to report to ANAAA. Based on these activities and discussions, curriculum and syllabus are reviewed to fulfill the social needs.
- The Cooperation Unit continues to promote the collaborative activities with external partners. The activities could create research collaboration and connecting the student's internship and employment.
- The faculty Journal (TAJST) will continue to publish once a year so that lecturers will have experience their science writing skills and gain experience for their publish. The following this, lecturers aim at submitting internal journal with high impact factors.

3. Recommendations for the Timor-Leste side

- Keep encouraging prospective final year students to expedite the final research project and complete the Licenciadu program within the timeframe.
- Enhance collaboration with industries and communities to improve the employment rate, utilizing various opportunities including students' internships.
- Try to apply more external research fund to do the research activity and secure the publication fee budget for international journals.
- Maintaining and upgrading the daily class teaching are keys to become the center of excellence in Timor- leste to access international academic society.
- Overall, the faculty pay more attention to improve class education quality to support development of the next generation in Timor-Leste.

4. Monitoring Plan from the end of the Project to Ex-post Evaluation

The JICA HQ mission was dispatched in February 2022. The mission had a series of discussions with the Timor-Leste authorities concerned. As a result of the discussions, the mission and the Timor-Leste authorities concerned agreed on preparing the master's degree program in the faculty of engineering, science and technology, UNTL. JICA will support the establishment of the master's degree program from October

2023 to 2025 through the expert's dispatch and by providing country-focused training. Ex-post evaluation will be conducted in three years after the project completion. Thus, JICA and FoEST will continue to monitor and follow up on faculty management, education, and research activities to ex-post evaluation

ANNEX 1: Results of the Project

ANNEX 2: List of Products Produced by the Project

ANNEX 3: PDM (All versions of PDM)

ANNEX 4: R/D, M/M, Minutes of JCC (copy) (*)

ANNEX 5: Monitoring Sheet (copy) (*)

(Remarks: ANNEX4 and ANNEX5 are for internal reference only.)



Inputs from JFY2016-JFY2023

1. Experts/Mission Dispatch

| <u>' ' '</u> | | LO/WIIOOIOII DIOP | | | | | |
|--------------|-------------------------------|-----------------------------|--|--|-----------|-----------|----------------|
| No | Department | Experts | Institutions | Support Fields | Arrival | Departure | Man / Month |
| 1 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Production Engineering | 27-Aug-16 | 6-Sep-16 | 0.33 |
| 2 | Mechanical | Mr. Saotshi Takahashi | Nagaoka University of Technology | Machinery Engineering | 20-Aug-16 | 30-Aug-16 | 0.33 |
| 3 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Production Engineering | 25-Mar-17 | 1-Apr-17 | 0.23 |
| 4 | Mechanical | Mr. Saotshi Takahashi | Nagaoka University of Technology | Machinery Engineering | 21-Mar-17 | 1-Apr-17 | 0.37 |
| 5 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Production Engineering | 26-Aug-17 | 2-Sep-17 | 0.23 |
| 6 | Mechanical | Mr. Hideo Hoshino | Nagaoka University of Technology | Machinery Engineering | 8-Aug-17 | 15-Aug-17 | 0.23 |
| 7 | Mechanical | Mr. Kazuo Yoshii | Nagaoka University of Technology | Machinery Engineering | 29-Nov-17 | 6-Dec-17 | 0.23 |
| 8 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Machinery Engineering | 18-Aug-18 | 25-Aug-18 | 0.23 |
| 9 | Mechanical | Prof. Tomonao Kobayashi | Gifu University | Wind Power | 22-Sep-18 | 29-Sep-18 | 0.23 |
| 10 | Mechanical | Mr. Hideo Hoshino | Nagaoka University of Technology | Machinery Engineering | 30-Mar-19 | 13-Apr-19 | 0.47 |
| 11 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Production Engineering | 30-Mar-19 | 6-Apr-19 | 0.23 |
| 12 | Mechanical | Prof. Tomonao Kobayashi | Gifu University | Wind Power | 16-Mar-19 | 6-Apr-19 | 0.70 |
| 13 | Mechanical | Prof. Ikuo Tanabe | Nagaoka University of Technology | Production Engineering | 25-Aug-19 | 30-Aug-19 | 0.17 |
| 14 | Mechanical | Prof. Yamashita Minoru | Gifu University | Impact Deformation | 1-Sep-19 | 7-Sep-19 | 0.20 |
| 15 | Mechanical | Prof. Tomonao Kobayashi | Gifu University | Wind Power | 22-Sep-19 | 1-Oct-19 | 0.30 |
| 16 | Mechanical | Prof. Ikuo Tanabe | Sanjyo City University | Production Engineering | 1-Sep-22 | 7-Sep-22 | 0.20 |
| 17 | Mechanical | Prof. Hideo Hoshino | Sanjyo City University | Machinery Engineering | 7-Sep-22 | 22-Sep-22 | 0.50 |
| 18 | Mechanical | Prof. Tomonao Kobayashi | Gifu University | Wind Power | 7-Sep-22 | 22-Sep-22 | 0.50 |
| 19 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 10-Sep-16 | 24-Sep-16 | 0.47 |
| 20 | Civil | Prof. Watanabe Gakuho | Yamaguchi University | Structure Engineering | 8-Nov-16 | 12-Nov-16 | 0.13 |
| 21 | Civil | Prof. Hiroyuki Sakakibara | Yamaguchi University | Project Management | 8-Nov-16 | 12-Nov-16 | 0.13 |
| 22 | Civil | Prof. Shiniichiro Nakashima | Yamaguchi University | Road Engineering | 10-Nov-16 | 19-Nov-16 | 0.30 |
| 23 | Civil | Prof. Koiji Asai | Yamaguchi University | Hydric Engineering | 19-Nov-16 | 26-Nov-16 | 0.23 |
| 24 | Civil | Dr. Yoshinori Fukubayashi | Community Road Empowerment | Technical Support | 11-Feb-17 | 18-Feb-17 | 0.23 |
| 25 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 4-Mar-17 | 18-Mar-17 | 0.47 |
| 26 | Civil | Prof. Koiji Asai | Yamaguchi University | Hydric Engineering | 4-Mar-17 | 11-Mar-17 | 0.23 |
| 27 | Civil | Prof. Shiniichiro Nakashima | Yamaguchi University | Road Engineering | 14-Mar-17 | 25-Mar-17 | 0.37 |
| 28 | Civil | Prof. Shinichiro Nakashima | Yamaguchi Univiversity | Road Engineering | 29-Jul-17 | 5-Aug-17 | 0.23 |
| 29 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 12-Aug-17 | 26-Aug-17 | 0.47 |
| 30 | Civil | Prof. Watanabe Gakuho | Yamaguchi University | Structure Engineering | 22-Aug-17 | 29-Aug-17 | 0.23 |
| 31 | Civil | Prof. Hidehiko Kazama | Saitama University | Soil Engineering | 9-Sep-17 | 30-Sep-17 | 0.70 |
| 32 | Civil | Prof. Koji Asai | Yamaguchi University | Hydric Engineering | 17-Nov-17 | 26-Nov-17 | 0.30 |
| 33 | Civil | Prof. Katsuhiko Takami | Yamaguchi University | Concrete Engineering | 17-Nov-17 | 26-Nov-17 | 0.30 |
| 34 | Civil | Prof. Shinichiro Nakashima | Yamaguchi University | Road Engineering | 18-Aug-17 | 25-Aug-17 | 0.23 |
| 35 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 15-Sep-17 | 22-Sep-17 | 0.23 |
| 36 | Civil | Prof. Shinichiro Nakashima | Yamaguchi University | Road Engineering | 18-Aug-18 | 25-Aug-18 | 0.23 |
| 37 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 15-Sep-18 | 22-Sep-18 | 0.23 |
| 38 | Civil | Prof. Hidehiko Kazama | Saitama University | Soil Engineering | 13-Oct-18 | 27-Oct-18 | 0.47 |
| 39 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 24-Nov-18 | 1-Dec-18 | 0.23 |
| 40 | Civil | Prof. Koji Asai | Yamaguchi University | Hydric Engineering | 2-Feb-19 | 9-Feb-19 | 0.23 |
| 41 | Civil | Prof. Shinichiro Nakashima | Yamaguchi University | Road Engineering | 23-Feb-19 | 2-Mar-19 | 0.23 |
| 42 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 23-Mar-19 | 30-Mar-19 | 0.23 |
| 43 | Civil | Prof. Shinichiro Nakashima | Yamaguchi University | Road Engineering | 4-Aug-19 | 10-Aug-19 | 0.20 |
| 44 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 18-Aug-19 | 24-Aug-19 | 0.20 |
| 45 | Civil | Prof.Hisao Emoto | National Institute of Technology, Fukushima College | Structural Engineering, | 16-Sep-19 | 21-Sep-19 | 0.17 |
| 46 | Civil | Prof. Hidehiko Kazama | Saitama University | Soil Engineering | 1-Oct-19 | 22-Oct-19 | 0.70 |
| 47 | Civil | Prof.Sakakibara Hiroyuki | Yamaguchi University | Traffic Engineering | 29-Sep-19 | 2-Oct-19 | 0.10 |
| 48 | Civil | Prof. Hidehiko Kazama | Saitama University | Soil Engineering | 22-Feb-20 | 20-Mar-20 | 0.90 |
| 49 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 23-Feb-20 | 8-Mar-20 | 0.47 |
| 50 | Civil | Prof. Masahiko Sekine | Yamaguchi University | Sanitary Engineering | 27-Oct-22 | 6-Nov-22 | 0.33 |
| 51 | Electronics and Electrical | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 27-Aug-16 | 30-Aug-16 | 0.10 |
| 52 | Electronics and Electrical | Prof. Yauhiro Takahashi | Gifu University | Electronic Engineering | 30-Aug-16 | 3-Sep-16 | 0.13 |
| 53 | Electronics and Electrical | Dr.Norikazu Kameyama | Gifu University | Laser Engineering | 30-Aug-16 | 24-Sep-16 | 0.83 |
| 54 | Electronics and Electrical | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 21-Mar-17 | 28-Mar-17 | 0.23 |
| 55 | Electronics and Electrical | Prof. YUN Kyyoul | Gifu University | Signal Electric | 4-Mar-17 | 11-Mar-17 | 0.23 |
| 56 | Electronics and Electrical | Prof. Yauhiro Takahashi | Gifu University | Electronic Engineering | 19-Aug-17 | 29-Aug-17 | 0.33 |
| 57 | Electronics and Electrical | Prof. YUN Kyyoul | Gifu University | Magnetic property | 19-Aug-17 | 29-Aug-17 | 0.33 |
| 58 | Electronics and Electrical | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 12-Aug-17 | 19-Aug-17 | 0.23 |
| 59 | Electronics and Electrical | Prof. Mitsuo Yamaga | Gifu University | Solid State Laser | 12-Aug-17 | 30-Aug-17 | 0.60 |
| 60 | Electronics and Electrical | Prof. Yauhiro Takahashi | Gifu University | Electronic Engineering | 1-Sep-18 | 8-Sep-18 | 0.23 |
| | Electrical | l . | <u> </u> | | <u> </u> | | |

| 61 | Electronics and Electrical | Prof. Mitsuo Yamaga | Gifu University | Solid State Laser | 12-Sep-18 | 29-Sep-18 | 0.57 |
|-----|-------------------------------|-------------------------|-----------------------|--|-----------|-----------|------|
| 62 | Electronics and Electrical | Prof. Mitsuo Yamaga | Gifu University | Solid State Laser | 23-Feb-19 | 16-Mar-19 | 0.70 |
| 63 | Electronics and Electrical | Prof. Yauhiro Takahashi | Gifu University | Electronic Engineering | 23-Mar-19 | 30-Mar-19 | 0.23 |
| 64 | Electronics and Electrical | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 16-Mar-19 | 30-Mar-19 | 0.47 |
| 65 | Electrical and Electronics | Prof. Mitsuo Yamaga | Gifu University | Solid State Laser | 8-Sep-19 | 28-Sep-19 | 0.67 |
| 66 | Electrical and Electronics | Prof. Yauhiro Takahashi | Gifu University | Electronic Engineering | 22-Sep-19 | 28-Sep-19 | 0.20 |
| 67 | Electrical and Electronics | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 23-Sep-19 | 5-Oct-19 | 0.40 |
| 68 | Electrical and Electronics | Prof. Mitsuo Yamaga | Gifu University | Solid State Laser | 1-Feb-20 | 20-Mar-20 | 1.60 |
| 69 | Electrical and Electronics | Prof. Hiroki Yoshida | Gifu University | Generation and Control of Electric Energy | 27-Feb-20 | 7-Mar-20 | 0.30 |
| 70 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 11-Aug-16 | 20-Aug-16 | 0.30 |
| 71 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 11-Aug-16 | 20-Aug-16 | 0.30 |
| 72 | Informatics | Ms.Mayumi Kawase | Gifu University | System Design | 11-Aug-16 | 20-Aug-16 | 0.30 |
| 73 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 1-Dec-16 | 10-Dec-16 | 0.30 |
| 74 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 14-Mar-17 | 25-Mar-17 | 0.37 |
| 75 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 14-Mar-17 | 25-Mar-17 | 0.37 |
| 76 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 9-Sep-17 | 19-Sep-17 | 0.33 |
| 77 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 9-Sep-17 | 19-Sep-17 | 0.33 |
| 78 | Informatics | Prof. Akira ITO | Gifu University | Artificial intelligence | 9-Sep-17 | 19-Sep-17 | 0.33 |
| 79 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 3-Nov-17 | 12-Nov-17 | 0.30 |
| 80 | Informatics | Prof. Akira ITO | Gifu University | Artificial intelligence | 3-Nov-17 | 12-Nov-17 | 0.30 |
| 81 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 4-Aug-18 | 11-Aug-18 | 0.23 |
| 82 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 6-Aug-18 | 11-Aug-18 | 0.17 |
| 83 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 24-Nov-18 | 1-Dec-18 | 0.23 |
| 84 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 23-Feb-19 | 9-Mar-19 | 0.47 |
| 85 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 16-Mar-19 | 23-Mar-19 | 0.23 |
| 86 | Informatics | Prof. Shan Lu | Gifu University | Coding Theory | 16-Mar-19 | 23-Mar-19 | 0.23 |
| 87 | Informatics | Prof. Hidekazu Fukai | Gifu University | Multivariate Analysis | 1-Aug-19 | 10-Aug-19 | 0.30 |
| 88 | Informatics | Prof. Satoshi Tamura | Gifu University | Information Processing of Perception | 25-Sep-19 | 5-Oct-19 | 0.33 |
| 89 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 17-Sep-16 | 20-Sep-16 | 0.10 |
| 90 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 25-Mar-17 | 1-Apr-17 | 0.23 |
| 91 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 26-Aug-17 | 6-Sep-17 | 0.37 |
| 92 | Geology and Petroleum | Prof. Haruyoshi Maeda | Kyushu Univ. | Paleontology | 26-Aug-17 | 2-Sep-17 | 0.23 |
| 93 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 28-Apr-17 | 10-May-17 | 0.40 |
| 94 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 28-Apr-18 | 10-May-18 | 0.40 |
| 95 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Kyushu Univ. | Geology | 16-Mar-19 | 30-Mar-19 | 0.47 |
| 96 | Geology and Petroleum | Prof.Atsuko Yamazaki | Kyushu Univ. | Geology (Coral) | 16-Mar-19 | 30-Mar-19 | 0.47 |
| 97 | Geology and Petroleum | Prof. Kiichiro Kawamura | Yamaguchi University | Marine Geology | 16-Jun-19 | 20-Jun-19 | 0.13 |
| 98 | Geology and Petroleum | Prof. Yuichi Sugai | Kyushu University | Petroleum Engineering | 4-Aug-19 | 9-Aug-19 | 0.17 |
| 99 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Geology and Petroleum | Geology | 1-Dec-19 | 18-Dec-19 | 0.57 |
| 100 | Petroleum | Prof. Atsuko Yamazaki | Kyushu University | Geology (Coral) | 8-Dec-19 | 18-Dec-19 | 0.33 |
| 101 | Geology and Petroleum | Prof. Shoichi Kiyokawa | Geology and Petroleum | Geology | 7-Apr-22 | 27-Apr-22 | 0.67 |
| 102 | Geology and Petroleum | Prof. Atsuko Yamazaki | Kyushu University | Geology (Coral) | 7-Apr-22 | 27-Apr-22 | 0.67 |
| 103 | Geology and Petroleum | Prof. Tsuyoshi Watanabe | Hokkaido University | Geology (Coral) | 7-Apr-22 | 27-Apr-22 | 0.67 |
| 104 | Geology and Petroleum | Prof. Kiichiro Kawamura | Yamaguchi University | Marine Geology | 7-Sep-22 | 22-Sep-22 | 0.50 |

2. Chief Advisor Dispatch

| No | Name | Arrival | Departure | Man / Month |
|----|----------------|---------------------|----------------------|-------------|
| 1 | | 11 August 2016 | 27 September 2016 | 1.57 |
| 2 | | 1 November 2016 | 17 December 2016 | 1.53 |
| 3 | | 31 January 2017 | 8 April 2017 | 2.23 |
| 4 | | 23 May 2017 | 1 August 2017 | 2.33 |
| 5 | | 22 August 2017 | 30 September 2017 | 1.30 |
| 6 | | 24 October 2017 | 25 November 2017 | 1.07 |
| 7 | Prof.Dr.Koichi | 2 June 2018 | 3 July 2018 | 1.03 |
| 8 | Shimakawa | 25 August 2018 | 29 September 2018 | 1.17 |
| 9 | | 10 November 2018 | 15 December 2018 | 1.17 |
| 10 | | 2 February 2019 | 30 March 2019 | 1.87 |
| 11 | | 2 June 2019 | 20 July 2019 | 1.60 |
| 12 | | 20 August 2019 | 31 October 2019 | 2.40 |
| 13 | | 13 November 2019 | 18 December 2019 | 1.17 |
| 14 | | 12 January 2020 | 19 March 2020 | 2.23 |
| 15 | | 18 August 2022 | 1 September 2022 | 0.47 |
| 16 | | 12 February 2023 | 12 March 2023 | 0.93 |

24.07

3. Project Coordinator Dispatch

| No | Name | Arrival | Doporturo | Man / |
|-----|-------------|-----------|-----------|-------|
| INO | Name | Amvai | Departure | Month |
| 1 | | 11-Aug-16 | 23-Aug-16 | 0.4 |
| 2 | Mr. Atsushi | 13-Sep-16 | 27-Sep-16 | 0.5 |
| 3 | Takahashi | 1-Nov-16 | 29-Mar-20 | 41 |
| 4 | | 20-Jan-21 | 31-Mar-23 | 27 |
| , | | | | 69 |

4. Short Term Training

Short Term Training in JFY2016

| Depaertment | Lecturers | Japanese University | Supervisor | Start | End | Man/ Month |
|-------------|---------------------------------|----------------------------------|-------------------------|------------|------------|---------------|
| Mechanical | Joviano Antonio da Costa | Nagaoka University of Technology | Prof.Koguchi Hideo | 07/12/2016 | 27/01/2017 | 1.7 |
| Electrical | Jaime Godinho Soares | Gifu University | Prof.YUN Kyyoul | 11/01/2017 | 10/02/2017 | 1.0 |
| Electrical | Celestino Correia | Gifu University | Prof.Yasuhiro Takahashi | 11/01/2017 | 10/02/2017 | 1.0 |
| Informatics | Carlito Pinto | Gifu University | Prof. Hidekazu Fukai | 11/01/2017 | 30/06/2017 | 5.7 |
| imormatics | Borja Loedace Cauthe Petrocinio | Gifu University | Prof.Satoshi Tamura | 11/01/2017 | 30/06/2017 | 5.7 |

5.0

Short Term Training in JFY2017

| Mecahnical | rio Maria dos Santos | Nagaoka University of Technology | | | | |
|----------------------------|-------------------------|-----------------------------------|-----------------------|------------|------------|-----|
| | | Nagaoka Offiversity of Technology | Prof.Ikuo Tanabe | 04/06/2017 | 14/07/2017 | 1.3 |
| Novian | no Gusmao Robbinso | Nagaoka University of Technology | Prof.Ikuo Tanabe | 04/06/2017 | 14/07/2017 | 1.3 |
| Civil Justin | no da Costa Soares | Yamaguchi University | Prof.Masahiko Sekine | 24/05/2017 | 30/06/2017 | 1.2 |
| Franci | isco Guterres O.Ximenes | Yamaguchi University | Prof.Motoyasu Suzuki | 24/05/2017 | 30/06/2017 | 1.2 |
| Electronics and Olga M | Maria de Sousa | Gifu University | Prot.Hiroki Yoshida | 12/11/2017 | 22/12/2017 | 1.3 |
| Electrical Joel d | de Sousa | Gifu University | Prof.YUN Kyyoul | 04/06/2017 | 14/07/2017 | 1.3 |
| Information Aristid | dis de Jesus Ornai | Gifu University | Prof.Satoshi Tamura | 04/06/2017 | 24/08/2017 | 2.7 |
| Mateu | us Pinto | Gifu University | Prof. Hidekazu Fukai | 04/06/2017 | 24/08/2017 | 2.7 |
| Geology& Petroleum Aquile: | s Tomás Freitas | Kyushu University | Prof.Shoichi Kiyokawa | 04/06/2017 | 14/07/2017 | 1.3 |
| Agosti | inho Andy | Kyushu University | Prof.Shoichi Kiyokawa | 04/06/2017 | 14/07/2017 | 1.3 |

15.9

Short Term Training in JFY2018

| Depaertment | Lecturers | Japanese University | Supervisor | Start | End | Man/ Month |
|-------------------------------|---------------------------|----------------------|-------------------------|------------------|------------------|---------------|
| | Domingos de Sousa Freitas | Gifu University | Prof. Minoru Yamashita | 03 November 2018 | 22 December 2018 | 1.63 |
| Mecahnical | Evangelino Cândido Gaio | Gifu University | Prof. Minoru Yamashita | 03 November 2018 | 22 December 2018 | 1.63 |
| Mecaninical | António Pedro Belo | Gifu University | Prof.Tonoao Kobayashi | 03 November 2018 | 22 December 2018 | 1.63 |
| | Victor da C. Soares | Gifu University | Prof.Tonoao Kobayashi | 03 November 2018 | 22 December 2018 | 1.63 |
| Civil | Raimundo Pereira | Yamaguchi University | Prof.Gakuho Watanabe | 03 November 2018 | 22 December 2018 | 1.63 |
| Electronics and Electrical | Câncio Monteiro | Gifu University | Prof.Yasuhiro Takahashi | 03 November 2018 | 22 December 2018 | 1.63 |
| Informatics | Marcelino Caetano Noronha | Gifu University | Prof.Satoshi Tamura | 03 November 2018 | 02 February 2019 | 3.03 |
| Informatics | José Soares Pinto | Gifu University | Prof.Hidekazu Fukai | 03 November 2018 | 02 February 2019 | 3.03 |
| Cl D-+l | Aniceta de Araujo | Kyushu University | Prof.Shoichi Kiyokawa | 09 February 2019 | 16 March 2019 | 1.17 |
| Geology& Petroleum | Maria Elias | Kyushu University | Prof.Shoichi Kiyokawa | 09 February 2019 | 16 March 2019 | 1.17 |
| | | | | | | 18.2 |

Short Term Training in JFY2019

| Department | Participants | Japanese University | Supervisor | Depart from Dili | Arrive at Dili | Man/ Month |
|-----------------|---------------------------------|----------------------|----------------------------|------------------|-------------------|---------------|
| | Marfim Guimaraes | Gifu University | Prof. Minoru Yamashita | 15 June 2019 | 04 August 2019 | 1.67 |
| Mechanical | Mario Marques Cabral | Gifu University | Prof. Minoru Yamashita | 15 June 2019 | 04 August 2019 | 1.67 |
| Wechanical | Gabriel António de Sá | Gifu University | Prof. Minoru Yamashita | 09 November 2019 | 22 December 2019 | 1.43 |
| | José Maria Xavier | Gifu University | Prof. Minoru Yamashita | 09 November 2019 | 22 December 2019 | 1.43 |
| | Mariano Renato Monteiro da Cruz | Yamaguchi University | Prof. Shinichiro Nakashima | 15 June 2019 | 04 August 2019 | 1.67 |
| 0: " | Marcelo Marques | Yamaguchi University | Prof. Gakuho Watanabe | 15 June 2019 | 04 August 2019 | 1.67 |
| Civil | Alfredo Ferreira | Yamaguchi University | Prof. Masaiko Sekine | 09 November 2019 | 22 December 2019 | 1.43 |
| | Tomás Soares Xavier | Yamaguchi University | Prof. Sakakibara | 09 November 2019 | 22 December 2019 | 1.43 |
| Electronics and | Reinaldo Guterres da Cruz | Gifu University | Prof. Yasuhiro Takahashi | 15 June 2019 | 04 August 2019 | 1.67 |
| Electrical | Adias Pires | Gifu University | Prof. Yasuhiro Takahashi | 15 June 2019 | 04 August 2019 | 1.67 |
| | Zulmira Ximenes da Costa | Gifu University | Prof. Hidekazu Fukai | 15 June 2019 | 08 September 2019 | 2.83 |
| Informatics | Kristiayani Ambarwati | Gifu University | Prof. Satoshi Tamura | 15 June 2019 | 15 September 2019 | 3.07 |
| | Abreu Andre Boavida | Gifu University | Prof. Shan LU | 09 November 2019 | 09 February 2020 | 3.07 |
| | Nene Soares V. Cristovão | Kyushu University | Prof.Yuichi Sugai | 09 November 2019 | 22 December 2019 | 1.43 |
| Geology and | Gabriel Gaspar A. de Oliveira | Kyushu University | Prof.Yuichi Sugai | 09 November 2019 | 22 December 2019 | 1.43 |
| Petroleum | Osvaldo da Cruz | Kyushu University | Prof.Atsuko Yamazaki | 08 February 2020 | 14 March 2020 | 1.17 |
| | Bhencao N. G. Morgado Monteiro | Kyushu University | Prof.Atsuko Yamazaki | 08 February 2020 | 14 March 2020 | 1.17 |
| | | • | | | | 29.9 |

Short Term Training in JFY2022

| Department | Participants | Japanese University | Supervisor | Depart from Dili | Retuern to Dili | Man/ Month |
|-----------------------|------------------------------|----------------------|---------------------------|------------------|------------------|---------------|
| | Mr.Marfim Guimarães | Gifu University | Prof.Minoru Yamashita | 05 October 2022 | 22 November 2022 | 1.60 |
| Mechnical | Mr.Domingos de Jesus | Gifu University | Prof.Minoru Yamashita | 05 October 2022 | 22 November 2022 | 1.60 |
| | Mr.Noviano G. Robbinson | Gifu University | Prof.Minoru Yamashita | 05 October 2022 | 22 November 2022 | 1.60 |
| Civil | Ms.Humbelina Maia S. Viegas | Yamaguchi University | Prof.Shinichiro Nakashima | 04 June 2022 | 26 July 2022 | 1.73 |
| GIVII | Mr.José Gomes Mali Sura | Yamaguchi University | Prof.Masahiko Sekine | 04 June 2022 | 26 July 2022 | 1.73 |
| | Mr.Abelito Filipe Belo | Gifu University | Prof. Tomonao Kobayashi | 05 October 2022 | 22 November 2022 | 1.60 |
| Electronics and | Mr.Vital de Jesus Ximenes | Gifu University | Prof.Yasuhiro Takahashi | 05 October 2022 | 22 November 2022 | 1.60 |
| Electrical | Mr.João Guterres | Gifu University | Prof.Hiroki Yoshida | 05 October 2022 | 22 November 2022 | 1.60 |
| | Mr.Benedito Freitas Ribeiro, | Gifu University | Prof.Yasuhiro Takahashi | 05 October 2022 | 22 November 2022 | 1.60 |
| Informatics | Mr.Vosco Pereira | Gifu University | Prof. Hidekazu Fukai | 04 June 2022 | 15 August 2022 | 2.40 |
| Informatios | Mr.Ferdinando da C. Soares | Gifu University | Prof. Satoshi Tamura | 04 June 2022 | 15 August 2022 | 2.40 |
| Geology and Petroleum | Mr.Aquiles Tomás Freitas | Kyushu University | Prof.Yuichi Sugai | 05 February 2023 | 19 March 2023 | 1.40 |
| Geology and Fetroleum | Mr.Cornelio C. Moniz | Kyushu University | Prof.Yuichi Sugai | 05 February 2023 | 05 March 2023 | 0.93 |

21.8

5. Long Term Training

| Department | Lecturers | Degree | Host Institutions | Supervisors | Enroll | Completion |
|-------------------------------|------------------------------|--------|----------------------------------|-------------------------|--------|------------|
| Mechanical | Paulo Da Silva | Ph.D | Nagaoka University of Technology | Prof. Ikuo Tanabe | Mar-17 | Sep-20 |
| Civil | Benjamin De O. Hopfeer | Ph.D | Yamaguchi University | Prof.Motoyasu Suzuki | Mar-17 | Sep-20 |
| Civil | Aleixo Sarmento | Master | Yamaguchi University | Prof.Gakuho Watanabe | Mar-17 | Sep-19 |
| Electronics and Electrical | Bonifacio Da Costa | Master | Gifu University | Prof.Yasuhiro Takahashi | Mar-17 | Mar-19 |
| Informatics | Frederico Soares Cabral | Master | Gifu University | Prof.Hidezu Fukai | Mar-17 | Mar-19 |
| Informatics | Vosco Perira | Master | Gifu University | Prof.Satoshi Tamura | Mar-17 | Mar-19 |
| Geology and Petroleum | Jovita Elisa Fatima da Costa | Master | Kyushu University | Prof.Kiyokawa Shoichi | Mar-17 | Sep-19 |

6. Local Activity Expense

Operational Costs borne by the Japanese side

CADEFEST Project Phase 2 JFY2016-2023

| Category | 2016(JFY) | 2017(JFY) | 2018(JFY) | 2019(JFY) | 2020(JFY) | 2021(JFY) | 2022(JFY) |
|--------------------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| Overseas Activities Cost | \$25,126.28 | \$64,456.08 | \$43,764.13 | \$51,864.31 | \$19,756.94 | \$60,446.13 | \$45,271.90 |
| Detail | | | | | | | |
| Air Fare | \$0.00 | \$3,392.00 | \$0.00 | \$2,981.00 | \$0.00 | \$0.00 | \$0.00 |
| Travel Allowance (Excl. Air Fare) | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Contract with Local Based Consultant | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Miscellaneous | \$25,126.28 | \$61,064.08 | \$43,764.13 | \$48,883.31 | \$19,756.94 | \$60,446.13 | \$45,271.90 |
| Grand Toal from JFY2016-JFY2023 | | | | \$310,685.77 | | • | • |

7. Equipment List

Attachment 1 : JICA CADEFEST 2 EQUIPMENT

| Atta | chment 1 : JICA CADEFEST 2 EQ | UIPMENT | | |
|--|--|---|---|--|
| No. | Equipment | JICA Numner | Model | Price |
| 1 | Air Conditioner | 16-1-001167 | Daikin 2 PK | \$550.00 |
| 2 | Air Conditioner | 16-1-001168 | Daikin 2 PK | \$550.00 |
| 3 | Printer | 16-1-001169 | CANNON IP110 Puma | \$565.00 |
| 4 | Server | 16-1-001476 | HP ML10 E31225 V5 | \$1,050.00 |
| 5 | Camera | 16-1-001477 | Canon 750 D | \$725.00 |
| 6 | Projector | 16-1-001478 | Acer(1183G)/61500041559 | \$405.00 |
| 7 | Projector | 16-1-001479 | Acer(1183G)/ 60800357959 | \$405.00 |
| 8 | Projector | 16-1-001480 | Acer(1183G)/ 61300253359 | \$405.00 |
| 9 | Projector | 16-1-001481 | Acer(1183G)/ 61300233859 | \$405.00 |
| 10 | Projector | 16-1-001482 | Acer(1183G)/ 64200317159 | \$405.00 |
| 11 | Air Meter | 16-1-001495 | MIC-138-0-02 | ¥ 167,205 |
| 12 | Science Camera | 16-1-001788 | IR500mi | ¥ 76,680 |
| 13 | ADOBE ACROBAT | 16-1-002294 | STANDARD | \$600.00 |
| 14 | Photocopy Machine | 16-1-002295 | Cannon IR2004N | \$2,748.00 |
| 15 | Graphics Card | 16-1-002296 | GTX 1070 | \$750.00 |
| 16 | Desktop Computer | 17-1-000005 | HP280i7 | \$1,185.00 |
| 17 | Mobile | 17-1-000409 | Samsumg S8 | \$765.00 |
| 18 | Microscope | 17-1-000564 | Stemi305 Stm3T-EDU | ¥ 189,000 |
| 19 | Machine Cutter | 17-1-000565 | MC-110 | ¥ 411,480 |
| 20 | Grinders | 17-1-000566 | BP (2) 0702-101 | ¥31,644 |
| 21 | Grinders | 17-1-000567 | RP-5U(300rpm) | ¥ 606,960 |
| 22 | PC Server | 18-1-000026 | Lenovo Tink Station | \$2,680.00 |
| 23 | PC Server | 18-1-000027 | Lenovo Tink Station | \$2,680.00 |
| 24 | Drone | 18-1-000123 | DJ I MARVERIC Pro COMBO | \$1,200.00 |
| 25 | IPAD MINI 4 | 18-1-000124 | 128G Wifi | \$510.00 |
| 26 | Electronic Balance | 18-1-000176 | Weighing: 300g Sensibility: 0,0 1g | ¥65,550 |
| 27 | Universal Trimer | 18-1-000177 | Maruto seisaku S26-5A φ35,50,60mm | ¥153,410 |
| 28 | Min/Max Densimeter Container | 18-1-000178 | Maruto seisaku SF-78 | ¥60,361 |
| 30 | Sharing Mechine | 18-1-000833 | SF-PR(1.5 K 4P) | ¥54,648 |
| 31 | Clear Pipe | 18-1-000834 | TVP2H4 | ¥77,706 |
| 32 | Vibration Analizer | 18-1-000837 | RION VA12 | ¥481,950 |
| | | | | |
| 33 | Flow Meter | 18-1-000838 | FM3101-PD-XP-K | ¥110,854 |
| 33 29 | Printer | 18-1-000838 18-3-000864 | FM3101-PD-XP-K Pixma P110 | ¥110,854 \$565.00 |
| | Printer Projector | | | |
| 29 | Printer Projector Pyranometer | 18-3-000864 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL | \$565.00 |
| 29 34 35 36 | Printer Projector Pyranometer Automatic Weather Station | 18-3-000864 18-3-001711 | Pixma P110 Acer X1185 | \$565.00 \$488.00 |
| 29 34 35 36 37 | Printer Projector Pyranometer Automatic Weather Station Tripot | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 |
| 29 34 35 36 37 38 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 | \$565.00 \$488.00 ¥87,500 ¥614,400 |
| 29 34 35 36 37 38 39 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 ¥53,800 ¥86,200 |
| 29 34 35 36 37 38 39 40 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 ¥53,800 |
| 29 34 35 36 37 38 39 40 41 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 ¥53,800 ¥86,200 ¥63,700 ¥409,800 |
| 29 34 35 36 37 38 39 40 41 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P | \$565.00 \$488.00 \$487,500 \$614,400 \$166,600 \$53,800 \$462,00 \$463,700 \$409,800 \$119,100 |
| 29 34 35 36 37 38 39 40 41 42 43 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 ¥53,800 ¥86,200 ¥63,700 ¥409,800 ¥119,100 |
| 29 34 35 36 37 38 39 40 41 42 43 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 19-1-000347 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH | \$565.00 \$488.00 ¥87,500 ¥614,400 ¥166,600 ¥53,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 |
| 29 34 35 36 37 38 39 40 41 42 43 44 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 19-1-000347 19-1-000348 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥53,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 ¥154,330 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 19-1-000347 19-1-000348 19-1-000349 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥53,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 19-1-000347 19-1-000349 19-1-000349 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥53,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 ¥95,040 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-0000404 19-3-000015 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥53,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 ¥95,040 \$1,000.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000167 19-1-000346 19-1-000347 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥33,800 ¥86,200 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 \$1,000.00 \$1,100.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000346 19-1-000347 19-1-000348 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 | \$565.00 \$488.00 ¥87,500 ¥164,400 ¥33,800 ¥86,200 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 \$1,000.00 \$1,100.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000106 19-1-000166 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 20-3-002437 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) | \$565.00 \$488.00 ¥87,500 ¥166,600 ¥33,800 ¥63,700 ¥409,800 ¥119,100 ¥216,600 ¥154,330 ¥75,600 \$1,000.00 \$1,100.00 \$1,335.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000346 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 20-3-002437 20-3-002438 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) | \$565.00 \$488.00 \$488.00 \$487,500 \$614,400 \$166,600 \$3,800 \$463,700 \$409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,000.00 \$1,100.00 \$1,335.00 \$1,335.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Desktop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000346 19-1-000349 19-1-000349 19-1-000349 19-1-000349 19-3-00015 20-3-001770 20-3-001771 20-3-002438 20-3-002439 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) | \$565.00 \$488.00 \$488.00 \$487,500 \$4614,400 \$166,600 \$453,800 \$463,700 \$409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$95,040 \$1,000.00 \$550.00 \$1,335.00 \$1,335.00 \$1,900.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC Laptop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000106 19-1-000166 19-1-000346 19-1-000349 19-1-000349 19-1-000349 19-1-000349 19-1-000349 20-3-001771 20-3-002437 20-3-002438 20-3-002439 21-3-002127 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 | \$565.00 \$488.00 \$488.00 \$487,500 \$4614,400 \$166,600 \$453,800 \$463,700 \$409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,000.00 \$1,100.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,3435.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000346 19-1-000347 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 20-3-002438 20-3-002438 20-3-002439 21-3-002127 21-3-002128 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 | \$565.00 \$488.00 \$488.00 \$487,500 \$4164,400 \$166,600 \$453,800 \$463,700 \$4409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,000.00 \$1,100.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,3435.00 \$1,435.00 \$1,435.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 19-1-000166 19-1-000346 19-1-000347 19-1-000347 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 20-3-002438 20-3-002438 21-3-002127 21-3-002128 21-3-002129 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DDF-N-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 | \$565.00 \$488.00 \$488.00 \$487,500 \$414,400 \$166,600 \$53,800 \$463,700 \$409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,00.00 \$1,100.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,349.00 \$1,349.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 57 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Laptop PC Desktop PC Desktop PC Desktop PC Desktop PC Desktop PC Desktop PC Laptop PC Laptop PC Laptop PC Desktop PC Desktop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 19-1-000166 19-1-000346 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-000404 19-3-00015 20-3-001770 20-3-001771 20-3-002438 20-3-002438 21-3-002127 21-3-002128 21-3-002129 21-3-002130 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 HP 14S-DQ2556TU HP PC 280 G3 PCI MT (i7-4C) | \$565.00 \$488.00 \$488.00 \$487,500 \$414,400 \$166,600 \$53,800 \$463,700 \$4409,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,000.00 \$1,000.00 \$1,335.00 \$1,335.00 \$1,335.00 \$1,345.00 \$1,338.00 \$1,338.00 \$1,338.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 57 58 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Laptop PC Laptop PC Laptop PC Laptop PC Laptop PC Leptop PC Lep | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 19-1-000166 19-1-000346 19-1-000347 19-1-000348 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-001771 20-3-002438 20-3-002438 21-3-002127 21-3-002128 21-3-002129 21-3-002130 21-3-002131 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-DQ2556TU HP PC 280 G3 PCI MT (i7-4C) HP 14S-DQ2556TU | \$565.00 \$488.00 \$488.00 \$487,500 \$4166,600 \$53,800 \$463,700 \$449,800 \$119,100 \$424,000 \$154,330 \$75,600 \$1,335.00 \$1,335.00 \$1,335.00 \$1,435.00 \$1,435.00 \$1,435.00 \$1,435.00 \$1,435.00 \$1,335.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 57 58 56 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 19-1-000166 19-1-000167 19-1-000346 19-1-000349 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001771 20-3-002438 20-3-002438 20-3-002439 21-3-002127 21-3-002128 21-3-002130 21-3-002131 21-3-002132 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 HP 14S-DQ2556TU HP PC 280 G3 PCI MT (i7-4C) HP 14S-DQ2556TU HP P Pavilion 14-ce3088TX i5 2GB | \$565.00 \$488.00 \$488.00 \$487,500 \$1614,400 \$166,600 \$53,800 \$463,700 \$409,800 \$419,100 \$216,600 \$154,330 \$75,600 \$1,000.00 \$1,100.00 \$550.00 \$1,335.00 \$1,335.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 57 58 56 61 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC Leptop PC Lepto | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000100 19-1-000101 19-1-000102 19-1-000166 19-1-000347 19-1-000347 19-1-000348 19-1-000348 19-1-000349 19-1-000404 19-3-000015 20-3-001770 20-3-002437 20-3-002438 20-3-002439 21-3-002128 21-3-002129 21-3-002130 21-3-002131 21-3-002132 21-3-002132 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CP2506TU HP PC 280 G3 PCI MT (i7-4C) HP PAVILION 14-ce3088TX i5 2GB HP 27-dp1006p AIO i7 | \$565.00 \$488.00 \$488.00 \$487,500 \$414,400 \$166,600 \$53,800 \$463,700 \$409,800 \$419,100 \$216,600 \$154,330 \$75,600 \$1,000.00 \$1,000.00 \$1,335.00 \$1,335.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$2,250.00 |
| 29 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 59 57 58 56 | Printer Projector Pyranometer Automatic Weather Station Tripot Piezoeletric accelerometer Piezoeletric accelerometer Piezoeletric accelerometer Charger Combater Stamp mill Stainless Mortar Sealer Plus Desk Top Balance Load cell Displacement Gauge Coating Thickness Gauge Laptop Smart Glass Printer Desktop PC Desktop PC Desktop PC Laptop PC | 18-3-000864 18-3-001711 19-1-000046 19-1-000047 19-1-000048 19-1-000100 19-1-000101 19-1-000166 19-1-000167 19-1-000346 19-1-000349 19-1-000349 19-1-000349 19-1-000404 19-3-000015 20-3-001771 20-3-002438 20-3-002438 20-3-002439 21-3-002127 21-3-002128 21-3-002130 21-3-002131 21-3-002132 | Pixma P110 Acer X1185 CHF-SR05-A-TMBL CPK-AWS-10 CO-CM6 PV-85 PV-90B VP-40 ANS-143PS AS-143P IDEXX 98-0002570-00 BX32KH TCLP-05KNB DDP-50A DCFN-3000EZ-E HP 14-CK0003TX Epson MOVEIRO (BT-30C) HP OfficeJet Pro 7740 HP AIO24 (SNLN) HP AIO24 (SNLN) HP AIO XA0187 (i7-9700) HP 14S-CF2502TX Core i7 HP 14S-CF2502TX Core i7 HP 14S-DQ2556TU HP PC 280 G3 PCI MT (i7-4C) HP 14S-DQ2556TU HP P Pavilion 14-ce3088TX i5 2GB | \$565.00 \$488.00 \$488.00 \$487,500 \$414,400 \$166,600 \$453,800 \$463,700 \$409,800 \$419,100 \$216,600 \$154,330 \$75,600 \$1,000.00 \$1,100.00 \$550.00 \$1,335.00 \$1,335.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 \$1,349.00 |

Attachment 2 : JICA CADEFEST 2 EQUIPMENT

| Item No. | Product Name | Model | Fabricant | Country of Origin | Quantity | Unit Price | CIP Amount (JPY) |
|----------|---|---|--------------------------------|----------------------|----------|------------|---------------------|
| 1-1 | Folder | MWLNR 2020K 06 | SANDVIK | INDIA | 6 | 13,500 | 81,000 |
| 1-2 | Cut Folder | RF123G22-2020D | SANDVIK | SWEDEN | 6 | 203,500 | 1,221,000 |
| 2-1 | Shankbite | PTFNR1616H 16 | SANDVIK | SWEDEN | 4 | 12,100 | 48,400 |
| 2-2 | Shankbite | PTFNR2020K 16 | SANDVIK | SWEDEN | 4 | 13,500 | 54,000 |
| 2-3 | Shankbite | PTFNR2525M16 | SAVDVIK | SWEDEN | 4 | 14,300 | 57,200 |
| 2-4 | Shankbite | DCENR 2020K 12 | SANDVIK | SWEDEN | 6 | 13,500 | 81,000 |
| 3-1 | Tip for thread cutting | R166.0L-11MM01-050 1020 | SANDVIK | SWEDEN | 50 | 2,600 | 130,000 |
| 3-2 | CoroCut 1-2 Tip for parting | N123G2-0300-0001-CF 1125 | SANDVIK | JAPAN | 50 | 3,200 | 160,000 |
| 3-3 | Tip for turning | TNMG 16 04 08-PF 4315 | SANDVIK | JAPAN | 50 | 1,200 | 60,000 |
| 4 | Front milling cutter | ONGU0507ANEN-MJ T3225 (10pcs/box) | TUNGALOY | JAPAN | 5 | 16,200 | 81,000 |
| 5 | Machine saw blade | TSUNE MACHINE SAW No.2 size:350(12pcs/box) | TSUNE SEIKI CO.,LTD. | JAPAN | 3 | 3,800 | 11,400 |
| 6 | Lubricant | Chemicool SR-5 (20L/can) | CHEMIC | JAPAN | 10 | 15,100 | 151,000 |
| 7 | Spot welder | ART7902 | TECNA | ITALY | 4 | 372,200 | 1,488,800 |
| | Special accessories | | | | | | |
| | Air cooling arm Art.7402 L=250mm | | | | 4 | 15,600 | 62,400 |
| | Air cooling arm Art. 7506 L=250mm | | | | 4 | 22,900 | 91,600 |
| 8 | Oil hydraulics vise | VH-150 | Tsudakoma Corp. | JAPAN | 1 | 246,600 | 246,600 |
| 9 | Power vise | VE125N-15 | Kitagawa Corporation. | JAPAN | 1 | 251,000 | 251,000 |
| 10 | Vise | YV-65S | TRUSCO Nakayama Corporation | TAIWAN | 2 | 8,100 | 16,200 |
| 11 | Test piece molder | MIC-117-0-10 type | MARUI & Co.,LTD. | JAPAN | 30 | 20,800 | 624,000 |
| 12 | Marshal molder | A-343 | Nishinihonshikenki. | JAPAN | 24 | 19,000 | 456,000 |
| 13 | Sieve | MIC-114-0-51 | MARUI & Co.,LTD. | JAPAN | 1 | 119,600 | 119,600 |
| 14 | Digital caliper | DT-200 | Niigata seiki Co.,Ltd. | CHINA | 1 | 11,700 | 11,700 |
| 15 | Dial gauge | Dial gauge for TS-461 | Freesia Macross Co.,Ltd. | JAPAN | 2 | 21,700 | 43,400 |
| 16 | Maximum density measuring device | A-308 | Nishinihonshikenki. | JAPAN | 1 | 233,700 | 233,700 |
| | Special accessory | | | | | | |
| | 220V-100V down transformer with Adaptor | PAL1000EP | SWALLOW Electric Co.,Ltd. | | 1 | 21,700 | 21,700 |
| 17 | Electromagnetic sleve shaker | 15-D0407 | Controls | ITALY | 1 | 127,200 | 127,200 |
| 18-1 | Elongation tester | DUCTIMETER 81-PV10B02 | Controls | ITALY | 1 | 1,059,700 | 1,059,700 |
| 18-2 | Mold plate for sample | 81-B0141 | Controls | ITALY | 4 | 14,100 | 56,400 |
| 18-3 | Mold plate | 81-80142 | Controls | ITALY | 4 | 10,500 | 42,000 |
| 18-4 | Cooling chiller | 81-PV1002 | Controls | ITALY | 1 | 247,200 | 247,200 |
| 18-5 | Support stand | 81-PV10010 | Controls | ITALY | 1 | 141,300 | 141,300 |
| 18-6 | Load cell | 81-PV10020 | Controls | ITALY | 4 | 42,400 | 169,600 |
| | | I | | | | | |

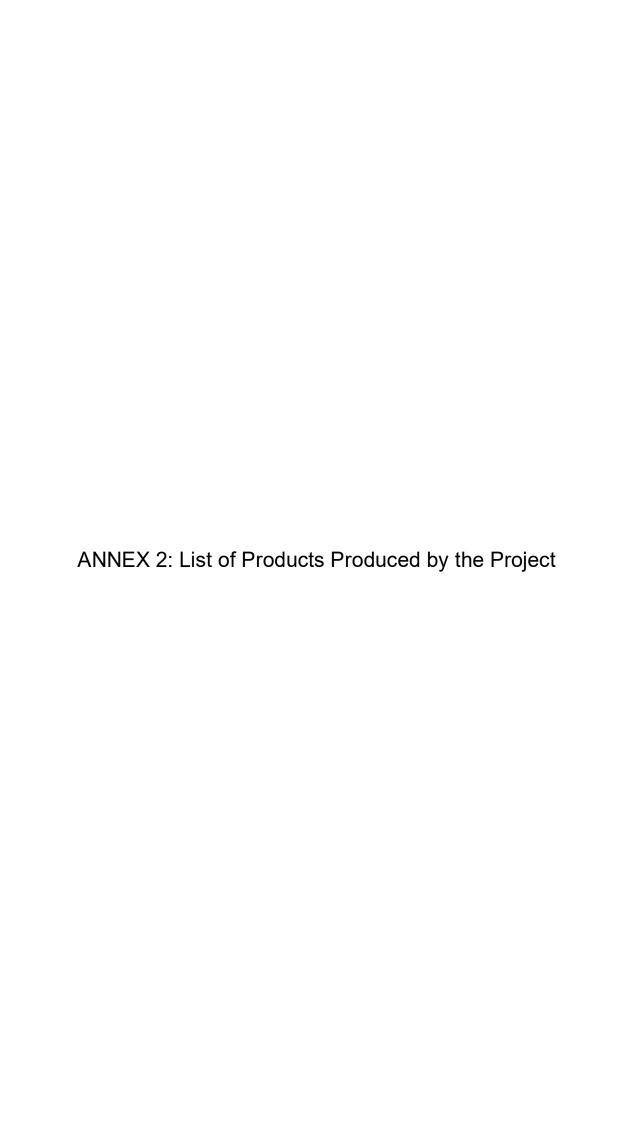
| 19-1 | Total station | iM103 | Sokkia Topcon Co., Ltd. | JAPAN | 2 | 1,236,400 | 2,472,80 |
|------|--|---|--|----------|---|-----------|----------|
| | Special accessory | | | | | | |
| | Pin pole prism set[A set] | STS-5 type unit 【A set】 | STS Corporation. | | 2 | 46,200 | 92,40 |
| | Adaptor | T-HPASEWH(SE type) | ELECOM CO.,LTD. | | 2 | 500 | 1,00 |
| 19-2 | Stand for Total station | TP-210S | Sokkia Topcon Co., Ltd. | JAPAN | 2 | 16,300 | 32,60 |
| 20 | USB cable | HQK45000 | NIKON-TRIMBLE CO., LTD. | JAPAN | 1 | 24,500 | 24,50 |
| 21-1 | Digital viscometer | LVDV1M XDV1MLVT100U00 | | USA | 1 | 509,700 | 509,70 |
| 21-2 | Thermal cell set | HT-110 230 220A DP with Spindle SC4-18 | Brookfield | USA | 1 | 722,800 | 722,80 |
| 21-3 | Silicon standard viscosity liquid | 5 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 21-4 | Silicon standard viscosity liquid | 10 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 21-5 | Silicon standard viscosity liquid | 100 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 22 | Marshal automatic tamping device | A-351 | Nishinihonshikenki. | JAPAN | 1 | 566,000 | 566,00 |
| | Special accessory | | **** | | | | |
| | 220V-100V down transformer with adaptor(SE type) | PAL1000EP | SWALLOW Electric Co.,Ltd. | | 1 | 21,700 | 21,70 |
| 23 | Visara rain gauge / thermometer | SESAMEII-05d | Midori Engineering Laboratory Co., Ltd. | JAPAN | 8 | 756,000 | 6,048,00 |
| | Special accessories | | Ladoratory co., Etc. | | | | |
| | Steel pipe or stainless pipe for construction | | | | 8 | 108,000 | 864,00 |
| | Steel pipe anchor concrete and | | | | 8 | 32,000 | 256,00 |
| 24 | other fixing parts for construction Ultrasonic water level gauge | SESAMEII-02d (less than 10m) | Midori Engineering Laboratory Co., Ltd. | JAPAN | 6 | 562,000 | 3,372,00 |
| | Special accessories | | according con stor | | | | |
| | Mounting base for construction | | | | 6 | 160,000 | 960,00 |
| 25 | Ultrasonic water level gauge | SESAMEII-02đ | Midori Engineering Laboratory Co., Ltd. | JAPAN | 1 | 611,600 | 611,60 |
| | Special accessories | | Laboratory co., etc. | | | | |
| | Mounting base for construction | | | | 1 | 160,000 | 160,00 |
| 26 | Simple river monitoring camera | SESAME CAMERA | Midori Engineering Laboratory Co., Ltd. | JAPAN | 7 | 461,400 | 3,229,80 |
| * | Special accessories | | Laboratory Co., Eta. | | | | |
| - | Steel pipe or stainless pipe for construction | | | | 7 | 108,000 | 756,00 |
| | Steel pipe anchor concrete and other fixing parts for construction | | | | 7 | 32,000 | 224,00 |
| 28 | Data logger for rain gauge | UA-003-64 | Onset | USA | 8 | 12,800 | 102,40 |
| 29 | Digital microscope | AR-DMZ205 | ARMSSYSTEM Co., Ltd. | CHINA | 1 | 148,000 | 148,00 |
| | Special accessories | | | | | | |
| | Auxiliary objective lense 2.0X WD:30mm | DMZ-2.0X | | | 1 | 18,000 | 18,00 |
| 1141 | Adaptor (SE type) | | | | 1 | 2,100 | 2,10 |
| 30-1 | Motor 200W motor for Nichika Bench saws | Motor for Nichika 8L(s) 100V 200W | Nichika Inc. | THAILAND | 2 | 17,600 | 35,20 |
| | Special accessories | | | | | | |
| | 220V-100V down transformer with adaptor(SE type) | PAL1000EP | SWALLOW Electric Co.,Ltd. | | 2 | 21,700 | 43,40 |

| 30-2 | Motor 300W motor for Nichika Bench saws | Motor for Nichika UC8 100V 300W | Nichika Inc. | THAILAND | 2 | 25,000 | 50,000 |
|------|--|---|--|----------|---|-----------|----------|
| | Special accessories | | | | | Si Si | |
| | 220V-100V down transformer with adaptor(SE type) | PAL1000EP | SWALLOW Electric Co.,Ltd. | | 2 | 21,700 | 43,40 |
| 31 | Sodium Hydroxide | 198-18863 5kg | FUJIFILM Wako Pure Chemical Corporation | JAPAN | 2 | 11,800 | 23,60 |
| 32-1 | Digital viscometer | LVDV1M XDV1MLVTJ00U00 | Brookfield | USA | 1 | 509,000 | 509,00 |
| 32-2 | Thermal cell set with transformer | HT-110 115 ADP with Spindle SC4-18 | Brookfield | USA | 1 | 722,000 | 722,00 |
| 32-3 | Silicon standard viscosity liquid | 5 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 32-4 | Silicon standard viscosity liquid | 10 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 32-5 | Silicon standard viscosity liquid | 100 CPS | Brookfield | USA | 1 | 19,700 | 19,70 |
| 33 | Handheld density meter | DMA35 Standard | Anton Paar Japan K.K. | Austria | 1 | 425,000 | 425,00 |
| | Special accessories | | | | | | 900 |
| | Calibration Certificate | 31.3 | | | 1 | 65,200 | 65,20 |
| | Filling tube 180 mm | | | | 1 | 4,300 | 4,30 |
| | BENT FILLING TUBE 70 mm / 180 mm | | 20 | | 1 | 15,200 | 15,20 |
| | Filling tube 600 mm | | | | 1 | 7,600 | 7,60 |
| 34-1 | Contact angle meter | DMs-401 | Kyowa Interface Science Co., Ltd | JAPAN | 1 | 1,515,200 | 1,515,20 |
| | Special accessories | | | | | | |
| | Laptop for analysis | | | * | 1 | 222,800 | 222,80 |
| 34-2 | Three-state kit for contact angle meter | Three-state kit for contact angle meter 145 ml | Kyowa Interface Science Co., Ltd | JAPAN | 1 | 156,500 | 156,50 |
| 34-3 | Three-state cell | Three-state cell 145ml | Kyowa Interface Science Co., Ltd | JAPAN | 1 | 105,000 | 106,00 |
| 34-4 | Reverse needle for three-state system | Reverse needle for three-state system 145ml 28G 2pcs/set | Kyowa Interface Science Co., Ltd | JAPAN | 2 | 13,500 | 27,00 |
| 34-5 | Glass cell | Glass cell (quartz) 2pcs/set | Kyowa Interface Science Co., Ltd | JAPAN | 5 | 16,100 | 80,50 |
| 34-6 | Syringe set | Syringe set 22G 5pcs/set | Kyowa Interface Science Co., Ltd | JAPAN | 1 | 12,400 | 12,40 |
| 34-7 | PD reverse needle | PD reverse needle 28G 2pcs/set | Kyowa Interface Science Co., Ltd | JAPAN | 5 | 6,600 | 33,00 |
| | Packing & delivery | | | | 1 | 1,900,000 | 1,900,00 |
| *** | Insurance | | | | 1 | 108,424 | 108,42 |

Total 35,065,424

Attachment 3: JICA CADEFEST 2 EQUIPMENT

| | MANUAL PULSE GENERATOR | MANUAL PULSE GENERATOR (TEPA) | YILB | 28,400 | 1 PQ(5) | JPY | 28,40 |
|----|--|---|--------------|------------------|---------------------------|------------|-------------|
| | LINUXCNC SOFTWARE INSTALLED PC | PC OPTION LINUX CNC BUILT-IN | ØJPY | 49,500 | 1 PC(S) | JPY | 49,50 |
| | MACHINE VISE | MACHINE VISE 100mm | @JPY | 15,200 | 1 PO(5) | JPY | 15,20 |
| | COMBINED WEATHER SENSOR | CPK-AWS-10 | @JPY | 850,000 | 1 PC(5) | JPY | 850,0 |
| | PYRANOMETER | CHF-SR05-A | eury | 87,500 | 1 PC(5) | JPY | 87,5 8.8 |
| | SR05 OPTION BALL LEVELING BL01(CHF-SR05-BL01) | CHF 5R05 BL01 CHF-5R05-TM01 | OJPY OJPY | 8,800 4 500 | 1 PC(S) | JPY | 8,8 |
| | SR05 CPTION PIPE ASSEMBLE TM01(CHF-SR05-TM01) | | | | | JPY | |
| | SR30/15/05 CONNECTOR CABLE 10n(CHF-Cable10-SR301505) OPTIONAL ORTHOGONAL CLAMP SET FOR PYRANOMETER | CHF-Cable10-SR301505 | ØJPY | 24,500 | 1 PC(5) 1 PC(5) | JPY | 24,51 |
| | PROGRAM CUSTOMIZATION AND OPERATION CHECK FEE | CHF-PIPE-60 C-SV31 | gJPY gJPY | 15,500 | 1 PC(5) 1 PC(5) | JPY | 15,51 |
| - | DATA STORAGE SERVER | PowerEdge T140 SERVER | gary gary | 132,000 | 1 PC(5) | JPY | 132.0 |
| | AUTOMATIC LEVEL | B4CA | eJPY | 31,600 | 2 PO(S) | JPY | 63.6 |
| | METAL TRIPOD (SPHERICAL)TP-2103D | TP-210SD | 9,17 | 10,000 | 2 PC(5) | JPY | 20.0 |
| | TURNING PLATE | | | | | | 8,0 |
| - | BOOK | STP430 ISBN 10: 0442041985 | QJPY QJPY | 2,000 | 4 PC(5) 1 PC(5) | JPY | 2,9 |
| - | BOOK | ISBN 10: 0442041969 | ØJPY | 10,000 | 1 PC(5) | JPY | 10.0 |
| | BOOK | ISBN 10.0442041993 | e,PY | 63,000 | 1 PC(5) | JPY | 63.0 |
| - | TEST SIEVE | TEST SIEVE 200MM DIAMETER STAINLESS STEEL OPENING 425µm | OJFY | 7,500 | 2 PC(5) | JPY | 15,0 |
| | BUCKET FOR AUTOCLAVE | VN2121 | gJPY gJPY | 15,000 | 1 PC(S) | JPY | 15,0 |
| - | HYDRAZINIUM SULFATE | 081-00952 | ØJPY | 2,100 | 1 PC(S) | JPY | 2.1 |
| _ | TURBIDITY SENSOR | TURBIDITY SENSOR 7800 PART'S NO. 3200172803 | QJPY QJPY | 57.800 | 1 PC(5) | JPY | 57.8 |
| | IDEXX REAGENT COLLERTIS | 99-19152 | O.PY | 32,300 | 1 PCD) | JPY | 32,3 |
| | OPTICAL COMMUNICATION EXPERIMENT KIT | IF-E-10 | @JPY | 900 | 50 PC(5) | JPY | 45,0 |
| | TIE CLIP MICROPHONE WITH DETACHABLE POWER MODULE | NZ-M863 | ØJPY | 4,900 | 20 PC(5) | JPY | 98,0 |
| | COIN BATTERY(LR44) | LR44 | (BJPY | 500 | 20 PC(S) | JPY | 10.0 |
| | AUDIO CABLE SPLITTER | 1MTo2F-30 | @JPY | 900 | 10 PCD) | JPY | 9.0 |
| | INTERNAL MAGNET SPEAKER | a15080600ux0275 | ØJPY | 500 | 10 PC(S) | JPY | 5,0 |
| | CANAL TYPE EARPHONE | RP-HJE150-W | ØJPY ØJPY | 900 | 20 PC(S) | JPY | 18.0 |
| - | ELECTRIC BUZZER | 8883 | @JPY | 200 | 100 PC(S) | JPY | 20,0 |
| | CDS CELL PHOTORESISTOR | GL5528 | @JPY | 300 | 20 PC(S) | JPY | 6.0 |
| | DIDDE | 1N400281 G | BJPY | 100 | 1000 PC(S) | JPY JPY | 100.0 |
| | GERMANIUM DIODE | 1860 | eJPY | 150 | 50 PC(S) | JPY | 7,5 |
| - | ZENER DIODE | BZX55CSV1 R0 | BJPY BJPY | 3,500 | 50 PC(5) 5 PC(5) | JPY | 17,5 |
| _ | LIGHT EMITTING DIODE | BOS1WSHBLV | ØJPY | 600 | 20 PC(S) | JPY | 12,0 |
| - | SILICON TRANSISTOR | 2SA1162-GR(F) | @JPY | 700 | 20 PC(S) 50 PC(S) | JPY | 35.0 |
| | SILICON TRANSISTOR SILICON TRANSISTOR | 25A1162-GR(P) 25C2712-BL(F) | ØJPY ØJPY | 650 | SO PC(S) | JPY | 32,5 |
| - | OPERATIONAL AMPLIFIER | LM324AM/NOPB | ØJPY ØJPY | 100 | 50 PC(S) | py | 55.0 |
| - | MINI POWER RELAY | MY2 DC24 | ØJPY ØJPY | 750 | 30 PC(5) | JPY | 22.5 |
| - | CERAMIC FUSE | F1200 | BJPY BJPY | 650 | 100 PC(5) | JPY | 65.0 |
| | INDUCTOR | Wal frontu6gthmr05w | BJPY BJPY | 2,000 | 20 PCIS) | JPY | 40.0 |
| | STEP-DOWN TRANSFORMER | R2-121 | 8JPY | 1,200 | 20 PC(S) | JPY | 24,0 |
| - | SINGLE BOARD COMPUTER STARTER KIT | Raspberry Pi 4 48-64G8 | @JPY | 18,100 | 1 PC(S) | JPY | 18,1 |
| - | FLECTRONIC PARTS KIT FOR SINGLE BOARD COMPUTER | Raspherry PI 4 B 3 B+ 400 | ØJPY | 4.500 | 1 PC(5) | JPY | 45 |
| - | TOUCH MONITOR FOR SINGLE BOARD COMPUTER | 7inch Raspberry Pi Touch Monitor | Ø.PY | 7,000 | 1 POS) | JPY | 7.0 |
| | MICROSCOPE | SZ61-C-SET | Ø.PY | 136,800 | 10 PC(S) | JPY | 1,368.0 |
| | LED RING LIGHT | \$Z-LW61 | 0.PY | 43.700 | 10 PC(S) | ,py | 437,0 |
| - | PLUG CONVERSION ADAPTER WP-5 | WP-5 | @JPY | 200 | 10 PC(S) | JPY | 2.0 |
| - | LCD MONITOR | GR-12TV | 6354 | 52,200 | 1 PC(S) | 39Y | 52.2 |
| | | GR-121V W0.6 | 0.PY | 32,200 | 1 PC(S) | JPY JPY | 32,2 |
| | PLUG CONVERSION ADAPTER WP-6 | WP-S HDCE-3083T | @JPY @JPY | 30.500 | 1 PC(S) | JPY JPY | 30.5 |
| | | | | | 1 PC(S) | JPY | 112,0 |
| _ | TABLETOP DRAFT DOWN TRANSFORMER PE-35CE | 3-4060-01 | өлү | 112,000 | 1 PC(S) | JPY | 12,0 |
| _ | PLUG CONVERSION ADAPTER WP-6 | PE-350E WP-5 | Adr@ | 160 | 1 PC(S) | JPY | 12,0 |
| | DRUG PACKING PAPER DRUG PACKING PAPER | 1.4560.00 | 9.PY | 300 | 10 PC(S) | PY | 3.0 |
| _ | SAMPLE BAG | 1-4560 02 G-8 | epy | 1,000 | 10 PC(S) | JPY | 10,0 |
| | SAMPLE TUBE | No.7 | 02Y | 120 | 100 PC(S) | JPY | 12,0 |
| | SAMPLE TUDE | No.3 | QJPY | 50 | 500 PC(S) | JPY | 25.0 |
| | GPOON . | 6-522-02 | өрү | 100 | 10 PC(S) | JPY | 1.0 |
| | TWEEZERS | TSP-25 | @JPY | 150 | 10 PC(S) | py | 1.5 |
| - | PETRI DISH | 2-9169-04 80/15 | @PY | 250 | 50 PC(S) | JPY | 12,5 |
| - | PETROGRAPHIC POLISHER | RP-SU | @JPY | 639,000 | 1 PC(S) | JPY . | 639,0 |
| | PAPER CAVITY SLIDE | FS-1 | @JPY | 3,600 | 1 PC(S) | JPY | 3.6 |
| | ALLMANA PROTECTION CASE FOR MOROFOSSUS NO PCS WITH QUASS FISC | PS-C | @JPY | 14,000 | 1 PC(S) | JPY . | 14.8 |
| - | PAPER CAVITY SLIDE | 8-2 | @JPY | 3,600 | 1 POS) | PY | 3,6 |
| - | PAPER CAVITY SLIDE ALLMANA PROTECTION CASE FOR MICROPOSSILS 160 FCS WITH GLASS FS C | FS-2 FS-C | Ø.PY Ø.PY | 14,800 | 1 PC(S) | JPY JPY | 14,0 |
| - | WRITING BRUSH | 60977217 | QJPY QJPY | 14,800 | 1 PC(5) | JPY | 1,2 |
| | | 60977217 20552936 | QJPY QJPY | 300 | 10 PC(5) 2 PC(5) | JPY JPY | 1,0 |
| - | BRUSH SET GRINDING MATERIALS | 20352996 NC-F80 | O.PY | 9,600 | 2 PC(S) | JPY | 19.2 |
| - | GRINDING MATERIALS GRINDING MATERIALS | NC-F80 NC-F120 | O.PY | 9,600 | 2 PC(5) | JPY | 9,6 |
| _ | GRINDING MATERIALS GRINDING MATERIALS | NC-F120 NC-F220 | QJPY QJPY | 9,600 | 1 PC(S) | JPY | 9,6 |
| _ | | | | 9,600 | 1 PC(S) 2 PC(S) | JPY JPY | 9,0 |
| _ | GRINDING MATERIALS GRINDING MATERIALS | NC-#800 NC-#1000 | O.PY O.PY | 22,000 | 2 PC(5) 1 PC(5) | JPY | 24,0 |
| | | | Ø,PY Ø,PY | 24,000 28,000 | 1 PC(S) 1 PC(S) | | 24,0 |
| _ | GRINDING MATERIALS SLIDE GLASS | NC-#3000 SLIDE GLASS FOR MINERALS | Ø.PY Ø.PY | 28,000 | 1 PC(5) | JPY JPY | 8.0 |
| - | COVER GLASS | SUDE GLASS FOR MINERALS C015001 | ØJPY ØJPY | 950 | 10 PC(S) | JPY JPY | 9,5 |
| _ | | | | 950 1,200 | 10 PC(S) 10 PC(S) | JPY JPY | 12.0 |
| | SLIDE BOX ELECTRONIC MICROSCOPE | 23-7871-03 CM-7000 | @.PY @.PY | 1,200 | 10 PC(S) | JPY JPY | 10.663.6 |
| _ | ELECTRONIC MICROSCOPE ANTI-VIBRATION TABLE | CM-7000 TAP-56 | Q,PY Q,PY | 750,000 | 1 PGS) 1 PGS) | JPY JPY | 750,0 |
| - | ANTI-VIBRATION TABLE STAGE NAVIGATION SYSTEM | TAP-56 MP-013405NS | OPY | 750,000 | 1 PC(S) | JPY | 360.0 |
| - | STAGE NAVIGATION SYSTEM ENERGY DISPERSIVE X-RAY SPECTROMETER | EDS Standard Unit | e.PY | 3,500,000 | 1 PC(S) | JPY | 3,500,0 |
| | PARTICLE ANALYSIS SOFTWARE | EDS Standard Unit EX-36320PA3 | Ø.PY Ø.PY | 1,150,000 | 1 PC(S) | JPY | 1,150,0 |
| | COATER COATER | EX-36320PA3 DII-29030SCTR | 6.PY | 430,000 | 1 PGSI | 394 | 430.0 |
| - | OIL MIST TRAP | OMT-050A | 6.PY | 10,000 | 1 PGSI | JPY | 10.0 |
| _ | LABORATORY TABLE | HTO-1575SG | Ø.PY | 115,000 | 1 PC(S) | JPT JPY | 115/ |
| | | | 971 | . capacit | 444 | | -100 |
| - | | | | | FOB YOKOHAMA, JAPAN TOTAL | ,IPY | 22,135,5 |
| OI | RATORY EQUIPMENTS FOR THE NATIONAL | | - | | 1.05(5) | | 2,50 |
| | HEXAMETHYLENETETRAMINE | UN1328 | @JPY | 2,500 | 1 PC(S) | JPY | 2,50 |
| | ASETONE | UN1090 | @JPY | 7,000 | 2 PC(S) | JPY | 14,00 |
| _ | The state of the s | | | | | | |
| | ETHANOL | UN1170 | @JPY | 10,500 | 18 PC(S) | JPY | 189,00 |
| - | | CONTRACTOR OF THE PARTY OF THE | | | | 1004 | |
| | ACETIC ADID | UN2789 | @JPY | 1,000 | 10 PC(S) | JPY | 10,00 |
| | HYDROCHLORIC ACID | UN1789 | @JPY | 1,800 | 48 PC(S) | JPY | 86,40 |
| | er art van en om det gemeente te de terme det gemeente te te van en om de gemeente de te te van en om de gemee | | | | | | |
| | PETROPOXY | UN3082/ 1760 | @JPY | 29,800 | 3 PC(S) | JPY | 89,40 |
| _ | | | | | (-) | | |
| _ | | | | | | | |
| - | BOND | UN3082/2735 | @JPY | 6,000 | 2 PC(S) | JPY | 12,00 |



ANNEX 2: List of Products (Report, Manuals, Handbooks, etc.) Produced by the Project

- List of External Partners
- Guidelines for final thesis
- Online Class Evaluation System
- Tracer Survey Records
- Research Proposals/ Research Papers
- Timorese Academic Journal of Science and Technology (TAJST) Vol.1-5
- Syllabus (4 years Bachelor Course) (Jointly Reviewed by Project and Lectures)
- Teaching Materials
- M/M of Steering Committee Meeting(SCM)
- Needs Survey for establishment of FECT Master's Degree Program
- Syllabus draft for New Master's Degree Program
- Proposal for Establishing Master's Degree Program
- Project Newsletters

External Partners for Network Activity

| Department | External Partners | Category | |
|------------|---|-------------|--|
| ME | Heineken | Industry | |
| | Conoco Philips (SANTOS) | Industry | |
| | National Petroleum Agency | Industry | |
| | Toyota Auto | Industry | |
| | Pabrica Cement | Industry | |
| | NCBA Company | Industry | |
| | Timor Global Company | Industry | |
| | Auto Tilosa Company | Industry | |
| | EDTL | Government | |
| | Power Plant | Government | |
| | ITB | University | |
| | Nagaoka University of Technology | University | |
| | Water Aid | Community | |
| | Lospalos Munisipaliy | Community | |
| | Timor Cement | Industry | |
| | Teri (the energy and resource institute) Indo | Institution | |
| CE | Pires Architecture | Industry | |
| | Geneno Unipessoal.Lda | Industry | |
| | Ensul | Industry | |
| | Carya Timor Leste | Industry | |
| | Jonize Construction | Industry | |
| | Surik Mas | Industry | |
| | Salvador Architecture | Industry | |
| | Public Works | Government | |
| | PMU for disaster | Government | |
| | Ministry of Ambient | Government | |
| | ADN | Government | |
| | Udayana University | University | |
| | Yamaguchi University | University | |
| | Water Aid | Community | |
| | Engineers Without Borders | Others | |
| | APORITL | Government | |
| EE | Telemor | Industry | |

| | Timo Telecom | Industry | | |
|----|---|------------------|--|--|
| | Telkmcel | Industry | | |
| | EDTL | Government | | |
| | A D N | Government | | |
| | ANC | Government | | |
| | DNSAS | Government | | |
| | RTTL | Government | | |
| | National Airport Authority | Government | | |
| | Gifu University | University | | |
| IT | Quidgest | Industry | | |
| | English Language Center | Industry | | |
| | ANC | Government | | |
| | Naiotnal Police | Government | | |
| | Secretary of State for Youth and Sports | Government | | |
| | Ministry of Agriculture | Government | | |
| | Universidade do Porto | University | | |
| | Veteran University | University | | |
| | Gifu University | University | | |
| | Timor Leste Open Source Community | Community | | |
| | UNESCO Timor Satellite office | Int.Organization | | |
| GP | SSI | Industry | | |
| | Shlumberger Company | Industry | | |
| | Florentino | Industry | | |
| | Kyushu University | University | | |
| | Hokkaido University | University | | |
| | KIKAI college for coral reef sciences | Institution | | |
| | University of the Western Australia | University | | |
| | ITB | University | | |
| | Padjadjaran University | University | | |
| | University of Philippines | University | | |
| | Sabbah University | University | | |
| | Department of Energy (the Philippines) | Others | | |

| No. | Conducted R No.by | esearch Department | Research Member | Research Theme | | Collaborator/External |
|-----|----------------------|--------------------------|--|--|--------------------------------------|---|
| No. | Department | • | ***** | ***** | Supervisor | Resources/Conference |
| 1 | 1 | Mechanical | Gabriel Antonio de Sa | Maintenance of Future of Climate in Timor-Leste from World database | Prof.Tomonao Kobayashi | |
| 3 | 3 | Mechanical Mechanical | Junior Raimundo da Cruz, Domingos de Sousa Freitas and Chris Mares Paulo Da SILVA | A Design of Pelton Turbine with Head 4m for Remote Area in Timor-Leste A review on Electricity sector development in Timor Leste | Prof.Ikuo Tanabe | |
| 3 | | | Domingos de Sousa Freits, Junior Raimundo da Cruz, Domingos de Regulau | An Optimization of Cross-Flow Turbine Vanes in Enhancing Efficiency of | | |
| 4 | 4 | Mechanical | dos Santos, Octavio da Costa and Miguel da Costa Soares | Generating Voltage | Prof.Tomonao Kobayashi | |
| 5 | 5 | Mechanical | Domingos de Sousa Freits, Junior Raimundo da Cruz, Domingos de Regulau dos Santos, Octavio da Costa and Miguel da Costa Soares | An Optimization of Cross-Flow Turbine Vanes in Enhancing Efficiency of Generating Voltage | | |
| 6 | 6 | Mechanical | Paulo Da SILVA | Analytical models for machine tool motion behavior assessment bench mark subjected to great earthquake | Prof.Ikuo Tanabe | |
| 7 | 7 | Mechanical | Marfim Guimarães and Mario Marques Cabral | Assessment of Traffic Noise Pollution in Dili, Capital of Timor-Leste | | |
| 8 | 8 | Mechanical | Marfim Guimaraes, Noviano Gusmao Robbinson , and Minoru Yamashita | Axial Compression of Square Steel Tubes | | |
| 9 | 9 | Mechanical | Marfim Guimaraes, Noviano Gusmao Robinson and Minoru Yamashita | Collapse Behavior of Square steel Tubes in three-Point Bending | Prof.Minoru Yamashita | |
| 10 | 10 | Mechanical | Domingos de Sousa Freitas, Junior Raimundo da Cruz and Chris Mares | Design and Analyze Pelton Turbine with Head 4m for the Remote Area in Timor-Leste | | |
| 11 | 11 | Mechanical | Valerio de Sousa, Hideo Hoshino, Hiroshi Kawanishib, Ikuo Tanabeb and Lucas da Costa | Design and Fabricate New Top Slide for Making Ball and Radius Shape in Conventional Lathe Machine | | |
| 12 | 12 | Mechanical | Valerio DE SOUSA GAMA , Yoshifumi ISE, Satoshi Hiromi ISOBE. | Development of a High Speed Mirror Like Finish Polishing Technology for Minute Parts Based on a Linear Motor | | |
| 13 | 13 | Mechanical | Paulo Da SILVA | Development of cooling fluid with lower friction coefficient for environmentally | Prof.lkuo Tanabe | |
| _ | | | | friendly DEVELOPMENT OF ENVIRONMENTALLY-FRIENDLY TECHNOLOGIES | | |
| 14 | 14 | Mechanical | Paulo Da SILVA | BASED ON THE DOUBLE-ECO MODEL – AN EVALUATION PLATFORM | Prof.lkuo Tanabe | |
| 15 | 15 | Mechanical | Valerio de Sousa Gama, M.Eng (JICA Long-Term, Nagaoka Univ.) | Development of High Speed Polishing System Using Polymer a Minute Part | Prof.Ikuo Tanabe (Nagaoka) | Presented in AUN/SEED-Net Regional Conference in November |
| 16 | 16 17 | Mechanical Mechanical | Paulo Da SILVA Paulo Da SILVA | DEVELOPMENT OF MATERIAL OPTIMIZATION TECHNOLOGY FOR INNOVATION Development of material optimization technology for small structure | Prof.Ikuo Tanabe Prof.Ikuo Tanabe | |
| 18 | 18 | Mechanical | Valerio de Sousa Gama and Adelson Lopes | Development of New Top Slide for Ball and Radius Shape | Prof.lkuo Tanabe | |
| 19 | 19 | Mechanical | Marfim Guimaraes | Cutting on Conventional Lathe Machine Effects of Transmission Errors on Noise and Vibration of Gears | | |
| 20 | 20 | Mechanical | Domingos de Sousa Freitas and Junior Raimundo da Cruz | Efficiency Improvement of Hydram Pump with Head 12m for Rural Area in | | |
| 21 | 21 | Mechanical | Valerio de Sousa GAMA, Junior Raimundo da CRUZ, Paulo da SILVA, | Timor-Leste Evaluation of Mechanical Properties of Hollow Steel in Timor-Leste Market | | |
| 22 | 22 | Mechanical | Leandro Madeira BRANCO , and Diego José Elisabeth RIBEIRO Domingos de Sousa Freitas, Jose María Xavier, Evangelino Candido Gaio, Adallfedo Guterres da Silva Ximenes , José Elias Pereira Tilman and Tomonao | Evaluation of Rainfall for Generating of Micro Hydro Power in Seiçal River Basin | | |
| 23 | 23 | Mechanical | Kobayashi Marfim Guimaraes | Experimental Study on Noise of Gear System | | |
| 24 | 24 | Mechanical | Jose Maria Xavier | Fesibility Study on Solar PV Potencial of Island of Atauro | | |
| 25 | 25 | Mechanical | Valerio de Sousa Gama, Agostinho Soares Madeira | Improvement of Surface Roughness of Ball and Radius Shape Workpiece by Using New Grinding Tools | Prof.Ikuo Tanabe | |
| 26 | 26 | Mechanical | Paulo Da SILVA | MACHINE TOOL DISTORTION ESTIMATION DUE TO ENVIRONMENTAL THERMAL FLUCTUATIONS – A FOCUS ON HEAT TRANSFER COEFFICIENT | Prof.Ikuo Tanabe | |
| 27 | 27 | Mechanical | Gabriel Antonio de Sa, Victor C. Soares, Antonio Pedro Belo and Tomonao KOBAYASHI | Maintenance of Future of Climate in Timor-Leste from World database | Prof.Tomonao Kobayashi | |
| 28 | 28 | Mechanical | Francisco Xavier Ximenes , and Antonio Torres Marques | Mechanical Testing of Fibre Reinforced Pipes Manufactured under Two Different Orientations | | |
| 29 | 29 | Mechanical | Francisco Xavier Ximenes | Miling Process of Silica Oxide (SiO2) Powder in Timor-Leste | | |
| 30 | 30 | Mechanical | Valerio de Sousa GAMA, Ikuo TANABE, Estevão Daniel SOARES | Mirror Like Surface Of The Workpiece By Using Diamond And Polymer Slurry As A Polishing Agent | | |
| 31 | 31 | Mechanical | Domingos de Sousa Freitas, Junior Raimundo da Cruz and Chris Mares | Multiple-Household Fuel Use in Timor-Leste: A Balanced Choices Between Firewood and Waste-Oil Cookstove | | |
| 32 | 32 | Mechanical | Marfim Guimaraes | Natural Frequency of the Rotaton System of the Discs | | |
| 33 | 33 | Mechanical | Jose Maria Xavier | Performance Analysis of a PV System at the Universidade Nasional Timor Lorosa'e | Prof.Tomonao Kobayashi | |
| 34 | 34 | Mechanical | Paulo DA SILVA, Jose Maria XAVIER and Antonio Pedro BELO | Power Options for Timor-Leste by Analytical Hierarchy Process (AHP) | | |
| 35 | 35 | Mechanical | Valerio de Sousa Gama , Leandro Madeira Branco and Fabricius da Cruz Correira | Quality of Reinforcing Bar in Timor-Leste Market | Prof.Ikuo Tanabe | |
| 36 | 36 | Mechanical | Gabriel António de Sá and Tomonao Kobayashi | Rainfall Analysis in Little Rain Years at Dill Under Future Climate Classification and Kinematic Analysis | | |
| 37 | 37 | Mechanical | Paulo Da SILVA | RISK ASSESSMENT CRITERIA FOR MACHINE TOOLS SUBJECTED TO LARGE | Prof.lkuo Tanabe | |
| 38 | 38 | Mechanical | Domingos de Sousa Freitas, M.Eng (Principal Imestigator) Victor Soares, Dr.Eng (IICA Long-Term , Nagaoka Univ.) Junior Raimundo da Cruz, Dr.Eng (MEXT Scholarship, Nagaoka Univ.) Evangelino Caldido Gailo | EARTHQUAKE HAZARDS: A PROPOSAL Study and Analysis the Production Process of Local Beverage (Pone Wine to Tua Sabu) with Traditional Method for Improvement Livelihood; a Case Study in Sub-District Laclubar. | Prof.lkuo Tanabe | Japan-ASEAN Science, Technology and Innovation Platform (Kyoto University) Presented AUN/SEED-Net Regional Conference in 2017 |
| 39 | 39 | Mechanical | Junior Raimundo da Cruz , Domingos de Sousa Freitas and Sabino Freitas | Study on Comparison Among CO2 Emission Level of Firewood and Waste Oil Cook Stoves | | |
| 40 | 40 | Mechanical | Junior Raimundo da Cruz, Domingos de Sousa Freitas, Bendito M. dos Reis Carvalho and Ze Marisco Piedade | Study on Different Penstock Slope for Improvment of Pelton Turbine Efficiency | | |
| 41 | 41 | Mechanical | Lelis Gonzaga Fraga , José Carlos F. Teixeira , and Manuel Eduardo C. Ferreira | Study the Thermal Equilibrium of The Materials and the Decomposition of Wood Pellets at Low Temperature | | |
| 42 | 42 | Mechanical | Lelis Gonzaga Fraga, Jose Carlos F. Texeira and Manuel Eduardo C. Ferreira | Technical Review on Biomass Resource for Wood Pellets in Timor-Leste | | _ |
| 43 | 43 | Mechanical | Paulo Da SILVA | THE ANALYSIS OF ENVIRONMENTAL AND HUMAN IMPACTS OF USING STRONG ALKALINE WATER FOR COOLING DURING MACHINING | Prof.lkuo Tanabe | |
| 44 | 44 | Mechanical | Victor Soares, Dr.Eng (JICA Long-Term, Nagaoka Univ.) | The Characterization of Wind Flow in Timor Leste | Prof.Tomonao Kobayashi | |
| 45 | 45 | Mechanical | António Pedro Belo Lelis Gonzaga Fraga | The Influence of Various Parameters on Wood Pellets Combustion: A Review | | |
| 45 | 46 | Mechanical | Lelis Gonzaga Fraga José Maria Xavier, Victor da Conceição Soares, António Pedro Belo and | The Influence of Various Parameters on Wood Pellets Combustion: A Review Weather Observation at Hera for Installing Renewable Energies | | |
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| 47 | 47 | Mechanical | Jose Maria Xavier, Victor C. Soares, Domingos de Sousa Freitas, Jose Elias Pereira Tilman, and Tomonao Kobayashi | Weatner with Tropical Cyclone Seroja Simulated with Numerical Meteorological Model | | |

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| 49 | 2 | GvII | Aleiyn Sarmento and Inan F. Snares | Avaliasaun kondisaun infra-estruturas iha mota Moloa husi impaktu sikione tropikal no | | |
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| 64 | 17 | Civil | Benjamnin de Oliveira Hopffer MARTINS | Geo-disasters consciousness and preparedness of the people in Timor-Leste | Prof.Motoyuki Suzuki | |
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| 77 | | Civil | Marinano Renato Monteiro da Cruz (JICA Long Term , Hiroshima Univ.) | Utilization of GIS program to Create Database System for Road Network in Timor Leste | Prof. Shinichiro Nakashima | Road and Transportation lab. Ministry of Public Works, Prof. Hidekazu Fukai (Gifu University) and Frederico Soares Cabral in Informatics Engineering |
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| 83 84 85 | 3 4 5 | Electronics and Electrical Electronics and Electrical Electronics and Electrical | Bonifacioda Costa and Talahashi Yasuhino Bendisi Freita Riberio and Talahashi Yubawa Ruben Jeronimo Freitas, Dr. Éng Canco Monteiro and Yasuhino Talahashi Abello Fige Belo and Adolfo da Costa Riberio Abello Fige Belo and Adolfo da Costa Riberio Abello Fige Belo and Adolfo da Costa Riberio | A design of trans-impediance amplifier using negative impediance converter A highriff Recommendation System For Hotel Room Reservation A study on resistance drift phenomena in phase alvarge materials Adabatic FinFETs Logic Design For Low Power and DPA Resistant Inf Devices Adabatic FinFETs Logic Design For Low Power and DPA Resistant Inf Devices Adapatic FinFETs Logic Design For Low Power and DPA Resistant Inf Devices Adapatic FinFETs Logic Design For Low Power and DPA Resistant Inf Devices Adapatic FinFETs Logic Design For Low Power and DPA Resistant Inf Devices Adapatic FinFETs Response For Low Low Power Filter in Nature Adapatic FinFET Response For Low Low Power Filter in Nature Adapatic FinFET Response For Low Low Low Power Filter in Nature Adapatic FinFET Response For Low Low Low Low Power Filter in Nature Adapatic FinFET Response For Low | Prof.Koichi Shimakawa | Presented in 2018 International Symposium on Intelligent Signal Processing and Communication Systems, |
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| 165 12 Geology and Petroleum SAPALENT SAPALEN | H | | 3,7 | Apolinário ALVES, Jovita COSTA, C. CARDOSO, L. Branco, A. SOARES, | | | |
| 165 12 Geology and Petroleum Gomeou Largoso, Usivasio Sammento, Nazarro Boavoa and Nucniro Masar Classification and Kinematic Analysis 166 13 Geology and Petroleum Gabriel G. A. de Oliveira (Principal Investigator) Tectonic Setting Reconstruction by Major and Trace Element Analysis of Basaltic Rocks in Timor Island 167 14 Geology and Petroleum Jovita Costa, Shoichi KIYOKAWA, Takashi ITO, Yukiyashu U-Pi Detributal Zircon Age Dating of Central Portion of East Timor. 168 199 199 199 199 199 199 199 199 199 19 | | | Geology and Petroleum | SARMENTO | Beheda Area of Timor-Leste for ornamental Uses | | |
| 160 IS Secting and Pertineum Maria Elias Sasahtic Rocks in Timor Island Portion of East Timor. 167 IA Geology and Pertineum Jovita Costa, Shoichi KIYOKAWA, Takashi ITO, Yukiyashu U-Pb Detributi Ziroon Age Dating of Central Portion and Pennsitional Anse and | 165 | 12 | Geology and Petroleum | | Mass | | |
| JOVITA COSIA, SHOICHI KITOKAWA, TAKASHI ITO, YUKIYASHU Februate Stratigraphy of the Aileu Formation and Denocitional Ages and | 166 | 13 | Geology and Petroleum | | | Prof.Shoichi Kiyokawa (Kyushu) | |
| 107 4 Source of Sediments Susing Jany Outlet Article Command and Depositional Registration and Deposition and D | 167 | 14 | Geology and Petroleum | | Estimate Stratigraphy of the Aileu Formation and Depositional Ages and | | |

| List of I | resentati | ons | |
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| | | | |

| List of I | Presentat By Project | Date Date | Presenter | Department | Venue | Seminar/Conference | Торіс |
|----------------|----------------------------|---|--|--|---|--|--|
| 1 | Year 1 | 9-Nov-16 | Hugo Ximenes | Civil | | 4th Joint Seminar Civil Engineering and It's application for Development in Timor-Leste | Road Maintenance Method |
| 3 | 3 | 9-Nov-16 9-Nov-16 29-May-17 | Sergio Miguel Freitas Francisco Guterres Junior Raimundo da Silva | Civil Civil Mechanical | Tower Conference Room Tower Conference Room Auditorium Liceu | 4th Joint Seminar Civil Engineering and It's application for Development in Timor-Leste 4th Joint Seminar Civil Engineering and It's application for Development in Timor-Leste Seminar in UNTL | Water Quillry Analysis in Dill Geotechnical Descending on Estudy Performane Multifluoran Fuzzum Dil-Foer tha Timer-Leste |
| 5 | 1 | 16-Aug-2017 | Carlito Pinto | Informatics | Denpasar, Indonesia | Interntional Conferenc on Advanced Informatics in Denpasar, Indonesia | Classification of Green Coffee Beans by Convolutional Neural Network and its Implementation on Rasberry PI and Camera |
| 6 | 2 | 1 till 3 - Nov - 2017 | Borja L. C. Patrocino Antonino | Informatics | Seoul, Korea | 2017 Conference of the Oriental Chapter of International committee for Cordination and Standadization of Speech Databasse and Assesment Technique (Oriental-COCOSDA 2017) | Towar Building Speech Databases in Timor-Leste |
| 7 8 | 4 | 9 till 10-Nov-2017 16-Feb-18 | Domingos de Sousa Freitas Hugo Ximenes | Mechanical Civil | Myanmar JL Vila Hotel | The 10th AUN/SEED-NET Regional Conference on Energy Engineering 5th Joint Seminar on Civil Engineering and it's Appropriate Technology for Development in Timor - Leste | Design and Analyze Pelton Turbine with Head 4m for the Remote Area in Timor-Leste Road Maintenance Method |
| 9 | 5 | 16-Feb-18 | Leonel Madeira | Civil | JL Vila Hotel | Lessee Sth Joint Seminar on Civil Engineering and it's Appropriate Technology for Development in Timor - Lesse | The Efficiency and effectivity of a composit steel deck'slab on aplication to a reinforced concrete frame |
| 10 | 6 | 7 till 9-Mar-2018 | Bonifacio da Costa | Electronics | Hitachi, Yokohama | Technical Meeting of Electrical Circuits | A Design of Trans-Impedance Converter |
| 11 12 | 7 | 23-Mar-2018 23-Mar-2018 | Frederico Soares Cabral Carmelita Afonso | Informatics Informatics | Fundasaun Oriente Fundasaun Oriente | Seminar for ICT Development and its Implementation in Timor Leste | Road Anomaly Detection Using Smartphone Sensor Classification of Coffee Bean Images Based on Defect Types using SVM |
| 13 14 | 9 10 | 19-Jun-2018 19-Jun-2018 | Nicolau Roberto da Costa, ST., M. Eng. Abelito Filipe Belo | Electronics Electronics | JL Vila Hotel JL Vila Hotel | | Papel de Engenharia Electrica e Electrica para o Desenvolvimento Nacional Domestic Wind - Power System with Low - Cost BLDC Motor/Generator |
| 15 | 11 | 19-Jun-2018 | Cancio Monteiro and Apolinario Maria (DEEE Alumni) | Electronics | JL Vila Hotel | Electrical and Electronic Engineering Role for National Development | Low - Power LSI Design Using Adiabatic Switching Technique |
| 16 17 | 12 13 | | | Electronics Mechanical | JL Vila Hotel JL Vila Hotel | Electrical and Electronic Engineering Role for National Development Electrical and Electronic Engineering Role for National Development | Research Activities on Photovoltaic at PV Laboratory of EEED The Sustainability of Uing Wind Energy in TL |
| 18 19 | 14 15 | 19-Jun-2018 19-Jun-2018 | Olga Maria de Sousa Bendito Freitas Ribeiro | Electronics Electronics | JL Vila Hotel JL Vila Hotel | Electrical and Electronic Engineering Role for National Development Electrical and Electronic Engineering Role for National Development | Pothole Size Estimation Based on Image Processing A Hybrid Recomedation System For Hotel Room Reservation |
| 20 | 16 17 | 31-Jul till 2-Aug-2018 2-Aug-2018 | Frederico Soares Cabral Vosco Pereira | Informatics | Furuma River Front, Singapore Furuma River Front, Singapore | 2018, IEEE International Conference on Service Operations and Logistics IEEE International Conference on Service Operations and Logistics and Informatic | An Automatic Survey System for Paved and Unpaved Road and Anormaly Detection Using Smartphone Sensor. A Deep Learning - Based Approach for Road Pothole Detection in Timor - Leste |
| 22 | 18 | 6-Aug-2018 | Vosco Pereira | Informatics | Beyond Resort, Krabi, Thailand | Sth International Conference on Advanced Informatics Concepts, Theory and Applications | K Deep Learning* Based Approach for Road Pointine Detection in Timor* Lessee Classification of Paved and Unpaved Road Image Using Convolutional neural network for Road Condition Inspectio Sistem |
| 23 | 1 | | | Geology | Hokaido | Geological Society of Japan | Tricon Age Dating of meta-sandstone from the Alleu Formation, Timor-Leste An Automatic Survey System for Paved and Unpaved Road Classification and Road Anormaly Detection |
| 24 25 | 2 | 8-Oct-2018 8-Oct-2018 | Frederico Soares Cabral Vosco Pereira | Informatics Informatics | Informatics Dep. | Long Term Training Progress Seminar Long Term Training Progress Seminar | Using Smartphone Sencor A Deep Learning - Based Approach for Road Pothole Detection in Timor - Leste |
| 26 27 | 4 | 31-Oct till 2-Nov-2018 4 till 7 March 2019 | Bonifacio da Costa Aniceta de Araujo | Electronics Geology | Chiang Mai, Thailand Okayama | 2018 International Conference on Analog VLSI Circuits Project A in Okayama | B GHz Trans-Impedance Amplifier Using Floating Active Inductor Geological Mapping and Petrological Caracterization of Magmatic Sequence the Aileu Formation in Dill: |
| 28 | 6 | | Abelito Filipe Belo | Electronics | APORTIL | Joint Reserch Popsal Presentation | Implication for Industrial Using. Measurement and Analysis of Fluctuation of Tide Level |
| 29 | 7 | 11 till 13 -Apr-2019 | Benjamnin de Oliveira Hopffer Rego Silveira Martins | Civil | Karst, Karl Terzaghi, Croatia | 8th Conference of Croatian Geotechnical Society Geotechnical Challenges | Ground Subsidence Inducted by Shallow Earthquake in Timor-Leste |
| 30 | 8 | 30-May-2019 | Jovita Elisa Fatima da Costa | Geology | Chiba | Japan Geoclene Union Meeting | U-Pb detrital zircon age dating from the Aileu Formation of Timor-Leste; Estimate depositional age and provenance of the sediment |
| 31 32 | 9 10 | 11-Jun-2019 11-Jun-2019 | Frederico Soares Cabral Vosco Pereira | Informatics Informatics | Informatics Dep. Informatics Dep. | Seminar in IT Department (Sharing Results of JICA Long Term Training) Seminar in IT Department (Sharing Results of JICA Long Term Training) | A Machine Learning based System for Road Condition Monitoring Using Smartphone Sensors Road Condition Inspection by Classification and Segmentation of Road Surface Usig Deep Learning |
| 33 34 | 11 12 | 11-Jun-2019 8-Aug-2019 | Bonifacio da Costa Mariano Renato M. da Cruz | Electronics Civil | Informatics Dep. Faculty | Seminar in IT Department (Sharing Results of JICA Long Term Training) Smartphone application for Road Maintaince | A Design of Trans-Impedance Amplifier Using Floating Active Inductor Smartphone application for Road Maintaince |
| 35 36 | 13 14 | 8-Aug-2019 8-Aug-2019 | Frederico Soares Cabral Vosco Pereira | Informatics Informatics | Faculty Faculty | Smartphone application for Road Maintaince Smartphone application for Road Maintaince | Smartphone application for Road Maintaince Smartphone application for Road Maintaince |
| 37 38 | 2 | | Reinaldo Guterres da Cruz Adias Pires | Electronics Electronics | Electronics Dept. Electronics Dept. | Report on Short Term Training Report on Short Term Training | Report on Short Term Training Report on Short Term Training |
| 39 40 41 | 1 | 13-Sep-2019 14-Sep-20 14-Sep-20 | Vosco Pereira Domingos de Sousa Freitas Abelito Filipe Belo | Informatics Mechanical Electronics | Informatics Dep. JICA Dili JICA Dili | IOT Seminar REER Meetings REER Meetings | The way of IOT Implementation in Timor Lorosa'e Study and Optimization of Water Cross Flow Turbine in Enhancing Power Generating Voltage Measurement and Analysis of Fluctuation of Tide Level |
| 42 | 3 | 14-Sep-20 17-Nov-20 | Marfim Guimaraes | Mechanical | Faculty | NELEX Meetings UNTL Aniversary Cientific Conference: International Conference: Reinforce the role of UNTL in the process of | Measurement and vinuitysis of Fluctuation or Tipe Level Avial Compression of Square Steel Tubes An Automatic Survey System for Paved and Unpaved Road Classification and Road Anormaly Detection |
| 43 | 4 | 15-Sep-20 | Frederico Soares Cabral | Informatics | Faculty | Lientitic Conference: international Conference: Neimbre the role of UNIL in the process of wealth creation and well-being in Timor-Leste Cleritific Conference: international Conference: Reinforce the role of UNIL in the process of | Using Smartphone Sencor |
| 44 | 5 | 16-Sep-20 | Jose Maria Xavier | Mechanical | Faculty | wealth creation and well-being in Timor-Leste Cientific Conference: International Conference: Reinforce the role of UNTL in the process of | Feasibility Study on Solar PV Potential of Island of Atauro |
| 45 46 | 7 | 17-Sep-20 4-Mar-21 | Osvaldo da Cruz Sarmento Dr. Bemjamim H. de O. Martins | Geology | Faculty Web Conference | wealth creation and well-being in Timor-Leste The 1st International Alumni Online Seminar on Disaster Prevention and Environment | Effect of Diagnesis on Microstructure of Fossil Coral Skeletons from Atauro Island Local disaster problems to be solved |
| 47 | 8 | 30-Mar-21 29-May-21 | Dr.Victor da C. Soares Mr. Aleixo Sarmento | Mechanical Civil | Web Conference FoEST new Building, Web | Gifu Renewable Energy System Research Center (G-RESRC), Gifu University, Japan. Yamaguchi University Seminar, Japan | Wind Characterization of Baucau High Land in The Period of Six Months: May - October 2019 River Infrastructure Dameges Survey The Dill City of Dill Caused by Tropical Cyclone Seroja |
| 49 | 10 | 29-May-21 | Dr. Benjamim H. de O. Martins | Civil | Conference FoEST new Building, Web | Yamaguchi University Seminar, Japan | Dill City Inundation extantion Assessment and Causes Identification |
| 50 | 11 | 24-Jun-21 | Ms. Jovita Eliza F. da Costa | Geology and Petroleum | Conference MOP | Flood research result presenttaion to MoP | Flood Risk Assesment In Dill: An Integrated GIS-Based Multi-Criteria Analisys Approaches |
| 51 52 53 | 12 13 | 20-Jul-21 29-Jul-21 29-Jul-21 | Ms. Jovita Eliza F. da Costa Dr. Bemjamim H. de O. Martins Mr. Aleixo Sarmento | Geology and Petroleum Civil | Minister of Urban Planing Auditorium FoEST Auditorium FoEST | National Flood Symposium | Flood Risk Assesment In Dill: An Integrated GIS-Based Multi-Criteria Analisys Approaches identifikasaun Kaura Sira No Avaliasaun Extensaun Inundasaun Iha Sidade Dill Danus Ba Infrastruturas Mota liha Sidade Dill Kaura Husi Tropikal Siklone Seroja |
| 54 | 15 | 29-Jul-21 | Mr. Alfredo Ferreira | Civil | Auditorium FoEST | National Flood Symposium | Daniss da miras ununas vioca ma siguide cen Radza Husi. Propinal sixuone seroja Introdusaun Hidrolojia no Hidraulika Mota Ba Prevensaun No Mitigasaun Dezastre Inundasaun Iha Futuru |
| 55 | 16 | 29-Jul-21 | Mr. Apolinario Eusebio Alves | Geology and Petroleum | Auditorium FoEST | National Flood Symposium | Hamutuk Rona No Hare Hodi Fo Solusaun Ba Prevensaun Dezastre Inundasaun Iha Futuru Hare Husi Aspektu Geolojiku |
| 56 57 | 2 | 11-Nov-21 | João Bosco Fernandes Cabral, M.Eng., Mr.Gabriel G Aparicio de Oliverira | Electronics Geology and Petroleum | Auditorium FoEST | Seminsar for TAIST | Current-Mode Control of High Gain Non-Isolated DC/DC Boost Converter. Estudo Qualidade de Água e estratigrafia Nomenclatura de e Riscos Geológicos Timor-Leste |
| 58 59 | 4 | 11-Nov-21 11-Nov-21 | Mariano Renato Monteiro da Cruz, Humbelina Viegas, M.Eng. | Civil | Auditorium FoEST Auditorium FoEST | Seminsar for TAIST Seminsar for TAIST | Quality Certification Standards in Timor Leste Comparison Study of AASHTO and Bina Marga Standards in Design Road Construction in Timor-Leste |
| 60 | 5 | | Hugo Ximenes, M.Eng. | Civil | Auditorium FoEST | Seminsar for TAIST | Fundamental Properties of PET-Phalt using Shredded PET Bottles as Binder |
| 61 62 63 | 7 | | Mr.Abelito Filipe Belo Dr.Ruben Jeronimo Freitas Dr.Paulo da Silva | Electronics Electronics Mechanical | Auditorium FoEST Auditorium FoEST Auditorium FoEST | Seminar for TAIST Seminar for TAIST Seminar for TAIST | Analysis of Air Temperature Fluctuation in DIII Airport: Low Pass Filter in Nature Energy for Alt: "Hamessing the Renewable Energy and its Policy in Responding to Social Needs. Power Options for Timor-Leste by Analytical Hierarchy Process (AHP) |
| 64 | 9 | 12-Nov-21 | Ms. Jovita Eliza F. da Costa | Geology and Petroleum | Auditorium FoEST | Seminar for TAIST | U-Pb detrital zircon age dating of the Aileu Formation of East Timor: Estimate depositional age and source of sediments. |
| 65 | 10 | 12-Nov-21 | Mr. Aleixo Sarmento | Cvil | Auditorium FoEST | Seminsar for TAJST | The Influence of Torsional Deformation on Seismic Performance of Middle-Rise Building Structures by Utilizing Advance Engineering Tools |
| 66 | 11 | 12-Nov-21 12-Nov-21 | Dr. Benjamim H. de O. Martins Mr Vosco Pereira | Cvil | Auditorium FoEST Auditorium FoEST | Seminsar for TAIST Seminsar for TAIST | Doctorate Dissertation Implementation of U-Net Deep Learning Framework for Road Surface and Road Line Semantic |
| 68 | 13 | 12-Nov-21 | Mr.Frederico Soares Cabral | Informatics | Auditorium FoEST | Seminsar for TAIST | Segmentation. Image Segmentation for Road and Retaining Wall Using U-Net Architecture |
| 69 70 | 14 15 | | Jose Maria Xavier Dr. Bemjamim H. de O. Martins | Mechanical Cvil | Auditorium FoEST Hotel Timor | Seminsar for TAIST DIII Flood Early Warning System | Weather Observation at Hera for Installing Renewable Energies. Update on DIII River Monitoring |
| 71 | 16 | 12-Oct-21 | Mr.Abelito Filipe Belo | Electronics | reciniology Cunter | 1st joint meeting; UNTL-Neutron Science & Technology-project | Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides |
| 72 | 17 | 24-Nov-21 | Mr.Abelito Filipe Belo | Electronics | (Online) Neutron Science and Technology Center (Online) Neutron Science and | 2nd joint meeting; UNTL-Neutron Science & Technology-project | Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides |
| 73 | 18 | 22-Dec-21 | Mr.Abelito Filipe Belo | Electronics | (Online) Neutron Science and Technology Center (Online) Neutron Science and | 3rd joint meeting; UNTL-Neutron Science & Technology-project | Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides |
| 74 75 | 19 20 | 25-Feb-22 7-Mar-22 | Mr.Abelito Filipe Belo Mr.Hugo Ximenes | Electronics | Technology Center | 4th joint meeting; UNTL-Neutron Science & Technology-project Yamaguchi University Seminar, Japan | Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides *Flood damage in the middle reach of the Manleuana river in Dili, Timort este* |
| 76 | 21 | 16-Mar-22 | Dr. Bemjamim H. de O. Martins | Civil | Auditorium FoEST | Constitution workshop on Feasibility study of Joint contractors classification in Timor-Leste | Natural Dister in Timor-Leste |
| 77 | 22 | 25-Jul-22 | Ms.Humbelina and Mr.Marisara | Civil | (Online) Yamaguhi University | The training report for country focused training | Comparison Study of AASHTO and Bina Marga Standards in Design Road Construction in Timor-Leste |
| 78 79 80 | 23 1 2 | 13-Sep-22 | Dr. Benjamim H. de O. Martins Mr.Abelito Filipe Belo José Maria Xavier | Civil Electronics Mechanical | Hotel Timor Project Office Auditorium FoEST | Presentation on Draft Final Report Output of the flood Analysis and Studies Research Presentation Seminsar for TAIST | Comments on draft final report output of the flood analysis and studies Analysis of Dynamic Response of Fast Optical Memory in Amorphous and Liquid Chalcogenides "Weather with Tropical Cyclines Seroja Simulated with Numerical Meteorological Model" |
| 81 82 | 3 | 27-Oct-22 27-Oct-22 | Joviano Antônio da Costa, Dr.Eng. Lelis Fraga, Dr.Eng. | Mechanical Mechanical | Auditorium FoEST Auditorium FoEST | Seminar for TAIST Seminar for TAIST | Effects of Ageing Levels on Mode 1 Fatigues 1 He of Adhesives "The study on Using of Fuel for Cooking in a Household in Dill" |
| 83 84 | 5 | 27-Oct-22 27-Oct-22 | Domingos de Sousa Freitas, Francisco Xavier Ximenes | Mechanical Mechanical | Auditorium FoEST Auditorium FoEST | Seminsar for TAIST Seminsar for TAIST | Evaluation of Rainfall for Generating of Micro Hydro Power in Seiçal River Basin The Process of Silica Oxide (SiO 2) Powder in Timor-Leste |
| 85 86 | 7 | 27-Oct-22 | Hugo Ximenes José M. Ximenes | Civil Civil | Auditorium FoEST Auditorium FoEST | Seminsar for TAIST Seminsar for TAIST | "Estimating queuing time of the heavy vehicles at Dili PortGate" "Characteristics of Solid Cement Block and Mortars for Masonry" |
| 87 | 9 | 27-Oct-22 | Câncio Monteiro, Dr.Eng. | Electronics | Auditorium FoEST | Seminsar for TAIST | "Design of Trapezoidal Power Clock Signal Generator Circuit for Dual-Rail Adiabatic Logic Power Supply" |
| 88 89 | 10 | 27-Oct-22 | Olga Maria de Sousa, M.Eng. Carlito Pinto | Electronics Informatics | Auditorium FoEST Auditorium FoEST | | "Reading Four Band Resistor Value Based on Image Processing Technique" The Importance of Geographic Information System for Rice Field Management in Timor-Leste |
| 90 | 12 | 27-Oct-22 27-Oct-22 | Jose Soares Pinto Marcelino Ceatano | Informatics | Auditorium FoEST Auditorium FoEST | Seminsar for TAIST Seminsar for TAIST | "Sentiment Analysis for Tourism Site in Timor Leste" "Data Mining Informatics Engineering Student Graduation with the Naïve Bayes Classifier Algorithm" |
| 92 | 14 | 27-Oct-22 | Apolinário ALVES | Geology and Petroleum | Auditorium FoEST | Seminant for TAIST | Physical Assessment of Calcilutite and Crinoidal Limestone of Cribas and Beheda Area of Timor-Leste |
| 93 | 15 | 27-Oct-22 | António de Jesus Lira | Geology and Petroleum | Auditorium FoEST | Seminsar for TAIST | for ornamental Uses A New Insight for Sustainable Future of Timor Leste and Suggestions for its Management: Geodiversity. Geotheritage Conservation and Potential Geopark |
| 94 | 16 | 27-Oct-22 | Jovita Costa, M.Sc. | Geology and Petroleum | Auditorium FoEST | Seminsar for TAIST | Geotheritage Conservation and Potential Geopark Geochemical and Physical Assessment of Limestone of Altuto and Maubise Formations for Industries Uses |
| | | | | · | | <u> </u> | l |

| List (| of Re | esearch Public | ations | | | | |
|-------------------|----------|------------------------------|--|---|--|----------------------------------|--|
| No. | 1 | Date Aug-16 | Author Ruben Jeronimo Freitas, Koichi Shimakawa andTomas Wagner | Department Electronics | Publication Philosophical Magazine Letters, | Type Int.journal | Title Kinetics of the persistent photocurrent in semiconductors: a case example for amorphous Calcogenides |
| 2 | 2 | Mar-17 | Hiroki Yoshida, Takuya Shichi, Ruben Jerónimo Freitas,Yukiko Hara , Atsushi Masuda, Shuichi Nonomura | Electronics | The 64th JSAP Spring meeting 2017, Pacifico YOKOHAMA, Japan | Proceedings | Optical pinpoint of PID affected location of solar cell |
| 3 | 3 | Mar-17 | Yoshiki Mizuno, Fumitaka Ohashi, Hiroki Yoshida, Hiroya Kosuga, Taishi Furuya , Ruben Jeró nimo Freitas Yukiko Hara, Atsushi Masuda , Shuichi Nonomura | Electronics | The 64th ISAP Spring meeting 2017, Pacifico YOKOHAMA, Japan | Proceedings | Distributions of Na and Na Compounds on Solar Cell migrated by Recovery Test of Potential Induced Degradation |
| 4 | 4 | May-17 | nimo Freitas, Yunko Hara, Atsusni Masuda , Shuichi Nonomura Ruben Jeronimo Freitas and Koichi Shimakawa | Electronics | Philosophical Magazine Letters, 97:7, 257-264, | Intjournal | Kinetics of persistent photoconductivity in crystalline III–V semiconductors |
| 5 | 1 | Oct-17 | Carlito Pinto, Junya Furukawa, Hidekazu Fukai, Satoshi Tamura | Informatics | Proceedings - 2017 International Conference on Advanced Informatics: Concepts, Theory and Applications, ICAICTA | Proceedings | Classification of Green coffee bean images basec on defect types using convolutional neural network (CNN) |
| 6 | 2 | Oct-17 | Borja L.C, Patrocinio Antonino, Satochi Tamura, Hidekazu Fukai, Satoru Hayamizu | Informatics | The 20th Conference of the Oriental Chapter of the International Coordinating Committee on Speech Databases and Speech I/O Systems and Assessment | Proceedings | Toward Building Speech Databases in Timor Leste |
| 7 | 3 | Nov-17 | Hiroki Yoshida, Takuya Shichi, Fumitaka Ohashi, Ruben Jerónimo Freitas, Yukiko Hara, | Electronics | The 27th International Photovoltaic Science and Engineering | Proceedings | Observation of Reverse Blased Electroluminecence From Local Shunt of P-Type C-SI Solar Cell |
| 8 | 4 | Nov-17 | Atsushi Masuda, and Shuichi Nonomura Fumitaka Ohashi, Yoshiki Mizuno, Hiroki Yoshida, Hiroya Kosuga, Taishi Furuya,Ruben Jeró | Electronics | Conference The 27th International Photovoltaic Science and Engineering | Proceedings | Sodium Distribuions at the Surface of Silicon Nitride Film After Potential Induced Degradation Test and Recovery Test of |
| | | | nimo Freitas, Yukiko Hara, Atsushi Masuda, and Shuichi Nonomura | | Conference The 10th AUN/SEED-NET Regional Conference on Energy Engineering | | PV Modules |
| 9 | 5 | Nov-17 | Domingos de Sousa Freitas, Junior Raimundo da Cruz and Chris Mares | Mechanical | Proceeding 2017 Conference of the Oriental Chapter of International committee for | Proceedings | Design and Analyze Pelton Turbine with Head 4m for the Remote Area in Timor-Leste |
| 10 | 6 | 1-Nov-17 | Borja L. C. Patrocino Antonino, Satoshi Tamura, Hidekazu Fukai and Satoru Hayamizu | Informatics | Cordination and Standadization of Speech Databasse and Assesment Technique (Oriental-COCOSDA 2017), Proceeding | Proceedings | Towar Building Speech Databases in Timor-Leste |
| 11 12 | | Mar-18 Mar-18 | Junior Raimundo da Cruz, Domingos de Sousa Freitas and Chris Mares Domingos de Sousa Freitas, Junior Raimundo da Cruz and Chris Mares | Mechanical Mechanical | Multidisciplinary Scientific Journal of Timorese Society Vol 3. nº 1 Multidisciplinary Scientific Journal of Timorese Society Vol 3. nº 1 | TAIST | A Design of Petron Turbine with Head 4m for Remote Area in Timor-Leste Multiple-Hoosehold Fuel Use in Timor-Leste: A Balanced Choices Between Firewood and Waste-Oil Cookstove |
| 13 | 9 | Mar-18 | DA COSTA Bonifacio,TAKAHASHI Yasuhiro | Electronics | The papers of technical meeting on electronic circuits, IEE Japan 2018(10-42), 49-52 | Proceedings | A Design of Trans-impedance Amplifier Using Negative Impedance Converter |
| | 1 | Nov-18 | B DA COSTA, Y TAKAHASHI Furnitaka Ohashi, Yoshiki Mizuno, Hiroki Yoshida, Hiroya Kosuga, Taishi Furuya, Ryo Fuseya, Ruben Seró | Electronics | Proceedings IEE3 AVIC 2018, 53 - 56 | Proceedings | 8 GHz Trans-impedance Amplifier Using Floating Active Inductor |
| 15 | 2 | Jul-18 | nimo Freitas, Yukiko Hara, Atsushi Masuda, and Shuichi Nonomura | Electronics | Japanese Journal of Applied Physics 57, 08KG05 (2018) 2018 IEEE International Conference on Service Operations and Logistics, and | Training in Japan | Sodium distribution at the surface of silicon nitride film after potential-induced degradation test and recovery test of photovoltaic modules |
| 16 | 3 | Jul-18 | Vosco Pereira, Satoshi Tamura, Satoru Hayamizu, Hidekazu Fukai | Informatics | Informatics (SOLI) 2018 5th International Conference on Advanced Informatics: Concept Theory | Training in Japan | A deep learning-based approach for road pothole detection in timor leste |
| 17 | _ | Aug-18 Oct-18 | Vosco Pereira, Satoshi Tamura, Satoru Hayamizu, Hidekazu Fukai Hidekazu Fukai, Satoshi Tamura, Frederico Soares Cabral, Vosco Pereira | Informatics | and Applications (ICAICTA) 8th Biennial Workshop on DSP for In-Vehicle and Mobile Systems | Training in Japan | Classification of paved and unpaved road image using convolutional neural network for road condition inspection system Development of automatic road condition monitoring system using smartphone sensors in vehicles |
| 18 | 5 | | | | Proceedings Book, The 4th International Conference Geological and | Training in Japan | |
| 19 | 6 | Sep-18 | Benjamnin de Oliveira Hopffer MARTINS | Civil | Geothecnical Engineering in Response to Climate Change and Sustainable Development of Infraestructure | Proceedings | Factors Triggering landslides in Timor Leste |
| 20 | 7 | 6-Sep-2018 | Valerio de Sousa, Hideo Hoshino, Hiroshi Kawanishib, Ikuo Tanabeb and Lucas da Costa | Mechanical | Timorense Journal of Science and Technology (TAJST) | TAIST | Design and Fabricate New Top Slide for Making Ball and Radius Shape in Conventional Lathe Machine |
| 21 | 8 | 6-Sep-2018 6-Sep-2018 | Junior Raimundo da Cruz , Domingos de Sousa Freitas and Sabino Freitas Valerio de Sousa Gama and Adelson Lopes | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | Study on Comparison Among CO2 Emission Level of Firewood and Waste Oil Cook Stoves Development of New Top Slide for Ball and Radius Shape |
| | 10 | | Domingos de Sousa Freitas and Junior Raimundo da Cruz | | Timorense Journal of Science and Technology (TAUST) Timorense Journal of Science and Technology (TAUST) | TAIST | Cutting on Conventional Lathe Machine Efficiency Improvement of Hydram Pump with Head 12m for Rural Area in Timor-Leste |
| 24 | 11 | 6-Sep-2018 | Junior Raimundo da Cruz, Domingos de Sousa Freitas, Bendito M. dos Reis Carvalho and Ze Marisco Piedade | Mechanical | Timorense Journal of Science and Technology (TAIST) | TAIST | Study on Different Penstock Slope for Improvment of Pelton Turbine Efficiency |
| 26 | | 6-Sep-2018 | Alfredo Ferreira, C. Santos and P. Rosa-Santos Hago da Costa Ximenes | Civil | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | Water Elevation using the Flow Energy) Comprehensive Evaluation of Video Data by using the Analytic Hierarchy Process (AHP) Method |
| 27 28 | | 6-Sep-2018 | Câncio Monteiro and Yasuhiro Takahashi Ruben Jeronimo Freitas , Eurico Mateus da Costa | Electronics Electronics | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | Measurement Verification of CSSAL AES S-box LSI Implemented using 0.18 µm CMOS Technology Tilted Angle of a PV Panel and its Direction of Installation for Optimum Output Performance |
| 29 | 16 | 6-Sep-2018 | Constantino Pires Pereira and IBR. Fernandes Cabral Bendito Freitas Ribeiro and Takashi Yukawa | Electronics Electronics | Timorense Journal of Science and Yechnology (TAIST) Timorense Journal of Science and Yechnology (TAIST) | TAIST | The Load Analysis of TIP147 Power Transistor versus IRF250X Power MOSFET Applied to Buck Boost DC-DC Converter A Hybrid Recommendation System For Hotel Room Reservation |
| 31 | 18 | | Oliga Maria de Sousa and Leonito Alito Barros Abelito Filipe Belo | Electronics Electronics | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | A regular obscurrentation of species of the mount observed and observed on the species of the sp |
| 33 | 20 | 6-Sep-2018 | Jaime G. Soares and S. H. L Cabral | Electronics | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | Contingencies Study for New Transmission Network in Timor-Leste |
| 35 | 22 | 6-Sep-2018 | Zulmira Ximenes da Costa a) and Bia Bile Hitu Carvalho de Jesusb) José Soares Pinto and Doutora Dora Maria de Oliveira Simões Ribeiro Pereira | Informatics | Timprense Invinal of Science and Technology (TAIST) | TAIST TAIST | Urban Solid Waste Management in Dill Community ICT: Virtual Learning Environment to Support Education Process of High Institution in Timor-Leste Data Base Implementation for F-FOTI, New Component in Hara |
| 36 37 | 24 | 6-Sep-2018 | Marcelino Caetano Noronha, Kristiyani Ambarwati, and Hugo António da Costa Ximenes Carmelita Afonso and Hidekazu FUKAI | Informatics | Timorense Journal of Science and Technology (TAIST) Timorense Journal of Science and Technology (TAIST) | TAIST | Classification of Coffee Bean Images Based on Defect Types using SVM |
| | 25 | 6-Sep-2018 | Paulo Da Silva Jikuo TANABE, Da Cruz R. JUNIOR, Satoshi TAKAHASHI | Mechanical | Journal of Machine Engineering, 2015, Vol. 15, No. 1, 32-44 | Training in Japan | THE ANALYSIS OF ENVIRONMENTAL AND HUMAN IMPACTS OF USING STRONG ALKALINE WATER FOR COOLING DURING MACHINING |
| 39 | _ | 6-Sep-2018 | Paulo Da SILVA, Luis Edoardo PENA-GONZALEZ, Ikuo TANABE, Satoshi TAKANASHI | Mechanical | Journal of Machine Engineering, 2018, Vol. 18, No. 2, 17-30 | Training in Japan | MACHINE TOOL DISTORTION ESTIMATION DUE TO ENVIRONMENTAL THERMAL FLUCTUATIONS —A FOCUS ON HEAT TRANSFER COEFFICIENT |
| | 27 | 6-Sep-2018 | PAULO DA SILVA & IEUO TANABE | Mechanical | Structures Under Shock and Impact XV 193 | Training in Japan | RISK ASSESSMENT CRITERIA FOR MACHINE TOOLS SUBJECTED TO LARGE EARTHQUAKE HAZARDS: A PROPIOSAL |
| 41 | _ | 1-Dec-2018 | Junya Furukawa, Hiroki Katsuragawa, Carlito Pinto, Carmelita Monso, Hidekasu Fukai | Informatics | IEEE Technological Innovations in ICT for Agriculture and Rural Development, International Conference on 2018 IEEE International Conference on Service Operations and Logistics, and Informatics, | Proceedings | Classification of Green Coffee Beans Using Convolutional Neural Network and its implementation on Rappberry Pi An Automatic Survey System for Payed and Una used Road Classification and Road Anomaly Detection using Smartphone Sensor |
| 42 43 | 29 30 | 1-Dec-2018 11-Jul-2019 | Prederico Soanes Cabral, Hidekaou Fukat, Saboshi Tamura Prederico Soanes Cabral, Hidekaou Fukat, Saboshi Tamura | Informatics | EEE SOLI 2018 sonsors 19(16) 3481-3501 | Proceedings Training in Japan | An Automatic Survey System for Pawed and Unpawed Road Classification and Road Anomaly Detection using Smartphone Sensor Feature Extraction Methods Proposed for Speech Recognition Are Effective on Road Condition Monitoring Using Smartphone Inertial Sensors |
| | 1 | 6-Sep-2019 | Paulo da Silva & Ikuo TAMABE Benjamnin de Oliveira Hopffer MARTINS, Motoyuki SUZUKI, Eguchi TSUYOSHI, Nopphawan TAMKUAN, | Mechanical | Int. J. of Safety and Security Eng., Vol. 9, No. 2 (2019) 121–136 | Training in Japan | Analytical models for machine tool motion behavior assessment bench mark subjected to great EARTHQUAKE |
| 45 | 2 | 13 Apr2019 | Masahiko NAGAI | Civil | Proceedings Book,8th Conference of Croatian Geotechnical Society Proceedings of Technical Forum on Mitigation of Geo-disasters in Asia, 13th –15th | Proceedings | Ground Subsidence Inducted by Shallow Earthquake in Timor-Leste |
| 46 47 | 3 | 15th Nov 2019 12-Sep-2019 | Benjamnin de Oliveira Hopffer MARTINS, Motoyaki SUZUKI Ruben Jeronimo Freitas and Koichi Shimakawa | Civil | November 2019, Kumamoto, Japan. 2019, pp19-22. Timorense Journal of Science and Technology (TAIST) V2 | Proceedings TAIST | Geo-disasters consciousness and preparedness of the people in Timor-Leste Current-Voltage Characteristics of Si-Based Solar Cells: Effects of Potential Induced Degradation |
| 48 | 5 | | Abelito Filipe Belo, Kenji Sasa, Jose Madeira Marques and Koichi Shimakawa Jose Maria Xavier | Electronics Mechanical | Timorense Journal of Science and Technology (TAIST) V2 Timorense Journal of Science and Technology (TAIST) V2 | TAIST | Analysis of Tide Level in Frequency Domain at DII Port: Origin of 1/f Fluctuations. Performance Analysis of a PV System at the Universidade National Timor Lorosa'e |
| 50 | | | Lelis Gonzaga Fraga, Jose Carlos F. Texeira and Manuel Eduardo C. Ferreira Domingos de Sousa Freits, Junior Raimundo da Cruz, Domingos de Reguláu dos Santos, Octavio da Costa | Mechanical | Timorense Journal of Science and Technology (TAIST) V2 | TAIST | Technical Review on Biomass Resource for Wood Pellets in Timor-Leste |
| 51 52 | 8 | 12-Sep-2019 12-Sep-2019 | ard Miguel da Costa Soaries Valerio de Sousa Gama, Agostinho Soares Madeira | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) V2 Timorense Journal of Science and Technology (TAIST) V2 | TAIST | An Optimization of Cross-Flow Turbine Varies in Enhancing Efficiency of Generating Voltage Improvement of Surface Roughness of Ball and Radius Shape Workpiece by Using New Grinding Tools |
| 53 | 10 | 12-Sep-2019 | Vallerio DE SOUSA GAMA, Yoshifumi ISE, Satoshi Hiromi ISOBE. | Mechanical | Journal of machine engineering, Vol.19, No.1, pp.7185, | Training in Japan | Development of a High Speed Mirror Like Finish Polishing Technology for Minute Parts Based on a Linear Motor |
| 54 | 11 | | Valerio de Sousa GAMA, Ikuo TANABE, Estevilo Daniel SCIARES | Mechanical | Proceeding THE 10TH AUN/SEED NET REGIONAL CONFERENCE ON MECHANICAL AND MANUFACTURING ENGINEERING | Proceedings | Mirror Like Surface Of the Workpiece By Using Diamond And Polymer Sturry As A Polishing Agent |
| 56 | 12 13 | 12-Sep-2019 | Marfim Guimaraes Marfim Guimaraes | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) V2 Timorense Journal of Science and Technology (TAIST) V2 | TAIST | Effects of Transmission Errors on Noise and Vibration of Gears Experimental Study on Noise of Gear System |
| 57 58 | 15 | 12-Sep-2019 | Viegas, H.M.S and Nakishima S. Hago da Costa Ximenes | Civil | Timorense Journal of Science and Technology (TAIST) V2 Timorense Journal of Science and Technology (TAIST) V2 | TAIST | Case Study of Asphalt Pavement Desing in Consideration of Temperature in Timor-Leste Simple Numerical Analysis on Road Pavement Condition Assessment (RPCA) as Maintenance Strategy |
| 59 60 | | 12-Sep-2019 12-Sep-2019 | Leonardo Madeira Branco Olga Maria de Sousa | Civil Electronics | Timorense Journal of Science and Technology (TAIST) V2 Timorense Journal of Science and Technology (TAIST) V2 | TAIST | Initial Studies of Physical Properties of Fine Aggregates and its Aplication to Concrete in Timor Leste Pothole Size Calculation System Using Reference Object Based on Image Processing |
| 61 | 18 | 12-Sep-2019 | Jose Elias P. Tilman, Quintino Scares, Lucia Jorge Pereira, Ferdinando da Conceicao, Nicolau Castro Ximenes, Abreu Andre Boa Vida and Frederico Soares Cabral Cando Monteliro and Yasshiro Takahashi | Informatics Electronics | Timorense Journal of Science and Technology (TAJST) V2 Timorense Journal of Science and Technology (TAJST) V2 | TAIST | Machine Learning Based System for Motorbike Mode Detection Using a Smartphone Sensor Low Power SBSAL \$45-bits Multiplier LSI Measurement |
| 62 63 | 20 | 20-Sep-2019 | Vosco Pereira, Satoshi Tamura, Satoru Hayamizu, Hidekazu Fukai | Informatics | Timoremae ocurnal or science and Technology (TADST) V.Z. 2019 International Conference of Advanced Informatics: Concepts, Theory and Applications (ICAICTA) | TAIST Proceedings | Semantic segmentation of paved road and pothole image using U-net architecture |
| 64 | 21 | 1-Dec-2019 | Ruben Jeronimo Freitas , Koichi Shi makawa | Electronics | Optical Properties of Materials and Their Applications, 2nd Edition, Chapter 20 | Int.journal | Kinetics of the Pensistent Photoconductivity in Crystalline III-V Semiconductors |
| 65 | | 17-Nov-2020 | Ruben Jeronimo Freitas Jose Maria Xavier, Victor da Conceicao Soares, Antonio Pedro Belo, Gabriel Antonio de Saa and Tomonao | Electronics | Timorense Journal of Science and Technology (TAIST) V3 | TAIST | Presistent Photocurrent in Photosensitive Semiconductors |
| 66 | 2 | 17-Nov-2020 | Jose Maria Xavier, Victor da Concencao Soares, Antonio Pedro Belo, Gabriel Aritonio de Saa and Tomonao KDBAYASHI | Mechanical | Timprense Journal of Science and Technology (TAIST) V3 Geosciences | TAIST | Fesibility Study on Solar PV Potencial of Island of Atauro |
| 67 | 3 | 17-Nov-2020 | Benjamim Hopffer Martins, Motoyuki Suzuki, Putu Edi Yaslika, Norikazu Shimizu | Civil | Volume, Insue and Pages: 2020,10(6),245. Special Issue "Scientific Assessment of Recent Natural Hazard Events" | Training in Japan | Ground Surface Deformation Detection in Complex Landblide Area – Bobonaro, Timor-Leate – Using SBAS DinSAR, UAV Photogrammetry and Field Claservations |
| | | | Abelito Filipe Belo, Reinaldo Guterres, Adias Pires and Koichi Shimakawa | Electronics | Timorense Journal of Science and Technology (TAIST) V3 | TAIST | Satical and Spectral Analysia of Wind Power in Hera Campus |
| | 6 | | Gabriel Antonio de Sa, Victor C. Soares, Antonio Pedro Belo and Tomonao KOBAYASHI Lelis Gonzaga Fraga, Jose Carlos F. Texeira and Manuel Eduardo C. Ferreira | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 | TAIST | Maintenance of Future of Climate in Timor-Leste from World database The Influence of Various Parameters on Wood Pellets Combustion: A Review |
| 71 72 | 7 | 17-Nov-2020 | Abreu Andre Boavida and Shan Lu Frederico Soares Cabral, Hidekazu Fukai and Satosi Tamura | Informatics Informatics | Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 | TAIST | The Research and Implementation on the Waste Bin Real-Time Monitoring System Road Rougness Estimation Using Smartphone Sensor |
| 73 | 9 | 17-Nov-2020 | Mariano Renato Monteiro da Cruz, Fernao Antonio Lopes Nobre Mouzinho, Hidekazu Fukai and Shinichiro Nakashima | Civil | Timorense Journal of Science and Technology (TAIST) V3 | TAIST | Field Performance Test of the Smatphone Android Aplication for Inspection of Roads |
| | 10 | | Osvaldo da Cruz Sarmento, Aquilis Tomas Freitas, Bhencao Natalia M. Monterio, Vital Cruz M. Vilanova, Elizario Moniz, Aniceta Araujo, Cornelio Cardoso Moniz ans Atsuko Yamazaki | Geology | Timorense Journal of Science and Technology (TAIST) V3 | TAIST | Effect of Diagenesis on the Microstructure of Fosil Coral Skeletons from Atauro Island, Timor-Leste |
| 76 | 12 | 17-Nov-2020 | Jointa Costa, Shoichi KNOKAWA, Takakhi ITO, Yudiyashu TSUTSUMI and Visal VILANOVA MATRI Guirnaries, Noviano Gusmao Robinson and Minoru Yamashita Valerio de Sousa Gama, Leandro Madeira Branco and Fabricius da Cruz Cerreira | Geology Mechanical | Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 | TAIST | U-Pb Detrital Zircon Age Dating of Central Portion of East Timor: Estimate Stratigraphy of the Alieu Formation and Depositional Ages and Collapse Behavior of Square steel Tubus in three-Point Bending |
| 77 78 79 | 13 14 | 17-Nov-2020 | Martin Grimanae and Girtonae Councillana | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 | TAIST TAIST TAIST | Quality of Reinforcing Bar in Timor-Laste Market Natural Frequency of the Rotaton System of the Discs The affair Italias Outline of the Obsthedane Yeroshholata (IPFT) Retie as Charse Appropriate for Reinforced Concrete (IRF): Initial Shufu The affair Italias Outline of Obsthedane Yeroshholata (IPFT) Retie as Charse Appropriate for Reinforced Concrete (IRF): Initial Shufu |
| 80 81 | 16 17 | 17-Nov-2020 | Learnfor Modern Service Controlled Control | Civil | Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 Timorense Journal of Science and Technology (TAIST) V3 | TAIST | The effect Utilizes Cutting of Polyphylene Terephthalate (PET) Botle as Coarse Aggregate for Reinforced Concrete (RC): Initial Study Fundamental Properties of Procus Concrete using Merble Waste as Coarse Aggregate Gootechnical Issue with Road Construction in Ballion Lendina Area, Timor Construction and Constr |
| 82 83 | 18 19 | 17-Nov-2020 17-Nov-2020 | Aleixo Sarmento and Galuho WATANABE Jose Soares Pinto, Aristidis de Jesus Ornai and Satoshi Tamura | Civil | l'imprense Journal of Science and Technology (TAJST) V3 l'imprense Journal of Science and Technology (TAJST) V3 | TAIST | The Influence of Torsional Deformation on Sesmic Performance of Midle-Rise Building Structures by Utilizing Advance Egineering Tools Student Performance Evaluation for Basic Math Score of FoEST |
| 84 85 | 20 | | Abelto Filipe Belo, Reinaldo Guterres, Adias Pires and Koichi Shimakawa Takumi Maekawa, Shoichi Kiyokawa, Haruyoshi Maeda, Gengo Tanaka, Jovita E. F. Costa, Aquiles T. Freitas | Electronics Geology | Physics of Complex Systems Vol. 2 No. 1 (2021) Paleontological Research | Int Journal Training in Japan | Tide level in time and frequency domains at DII port: Characteristic feature of a Lorentz oscilator First Report of Early Permian Albailfellarian Radiolarians from East Timor. |
| 86 | 22 | 29-Apr-2021 | Hidekazu Fukai, Frederico Soares Cabral, Fernac Al. Nobre Mouzinho, Vosco Pereira, Satoshi Tamura Cancio Monteiro, Yasubiro Takahashi | Informatics Electronics | 6th International Conference on Road and Rail Infrastructure MDPI Electronics Journal, Vol. 10, 1258. | Proceedings Int Journal | The development of integrated road condition monitoring system for developing countries using smartphone sensors and dashcam in Low-Power Two-Phase Clocking Adabatic PUT-Circuit |
| 88 | 24 | 1-Jun-21 9-Day-21 | K. Shimakawa and Roben Jeronimo Freitas Cancio Monteiro; Yasuhiro Takahashi | Electronics Electronics | Physics of Complex System, Vol.2 No.2 (2021) MDPI Sensors Journal, (ISSN 1424-8220) | Int.journal Int.journal | Comments on the electronic transport mechanisms in the crystalline state of Ge-Sb-Te phase-change materials Ultra-Low Power FinfETs-Based TPCA-PUF Circuit for Secure IoT Devices |
| 90 91 | 2 | 20-Oct-2021 30-Dec-2021 | Ruben Jeronimo Freitas and Kolchi Shimakawa Abelito Filipe Belo, Kolchi Shimakawa | Electronics Electronics | Physica status solidi (RRL) Rapid Research Letters Physics of Complex SystemsVol. 2 No. 4 (2021) | Intjournal | Temporal Resistance Drift in the Amorphous States of GST Phase Change Semiconductors: An Intrinsic Phenomeron in Nonequilibrium Systems Statistical and spectral analysis of wind power: Fractional oscillation dynamics |
| 92 | 4 | 15-Feb-2022 | Abelito Tilget Bide, Kolchi Mirmalawa Apolindino AVEZ, Jorita COSTA, Nazirio BOAVIDA, Agostinho ANDY, Ovolédo SARMENTO, Cornélio CARDOSO, Maria ILIAS and Riichiro FAWAMURA | Geology | Timorense Journal of Science and Technology (TAJST) V4 | TAIST | Flood Risk Assessment in Dill: An integrated GIS-Based Multi-Criteria Analysis Approaches |
| 93 94 | 5 | | Cornélio Cardoso, Osvaldo Sarmento, Nazário Bosvida and Kilchiro Kawamura Gabriel Antório de Sá and Tornonao Kobaysahi | Geology | Timorense Journal of Science and Technology (TAIST) V4 Timorense Journal of Science and Technology (TAIST) V4 | TAIST | Stability Assessment of Rock Slopes along Becore-Metinaro Roadway. Rock Mass Classification and Greenatic Analysis Constitution and Greenatic Analysis Constitution Constitution Constitution Constitution Constitution Cons |
| | | | Gabriel Antorio de Să and Temonao Kobayashi José Maria Kavin, Victor da Concejão Soarea, Antônio Pedro Belo and Tomonao Kobayashi Paulo DA SILVA, Jose Maria XAVIER and Antonio Pedro BELO | Mechanical Mechanical Mechanical | Timorense Journal of Science and Technology (TAJST) V4 | TAIST TAIST TAIST | Weather Charvation at Hera for Installing Renewable Energies Power Options for Thron-Leate by Analytical His areaty Process (ANP) Assumented of English Polish Polish Polish (10) (C. Catal of Directed to The Charter of Control Control Control Control Control Control Control Control Con |
| | 9 10 | 15-Feb-2022 | Martim Guimardies and Miario Marques Cabral Olga Maria de Sousa | Mechanical Mechanical Electronics | Timorense Journal of Science and Technology (TAIST) V4 Timorense Journal of Science and Technology (TAIST) V4 Timorense Journal of Science and Technology (TAIST) V4 | TAIST | ES Cell Segmentation Based on Level Set Method and Watershed Segmentation Using Phase Contrast and Fluorescent Images |
| 99 100 101 | 11 | 15-Feb-2022 15-Feb-2022 | Câncio Morteiro, Bertantino de Castro, Celestino Correia and Yasahino Takahashi IBR, Fernandes Cabral and Yales Rômulo de Novaes | Electronics Electronics | Timorense Journal of Science and Technology (TAIST) V4 Timorense Journal of Science and Technology (TAIST) V4 | TAIST | Low-Power Secure 4-bits AES 5-Box Circuit Design Using Adiabatic Logic Current-Mode Control of High Gain Non-Isolated DC/DC Boost Converter |
| 102 | 14 | 15-Feb-2022 15-Feb-2022 | Abelito Filipe Belo and Adolfo da Costa Ribetro Frederico Soures Cabral, Visco Prentra, Natalino Guterres, Meriano Renato M. da Cruz, and Ridekasu Fukai Visco Pereira, Frederico Soures Cabral, Lourenpo A. L. Pereira, Mariano Renato M. da Cruz, and Ridekasu Fukai | Electronics Informatics | Timorense Journal of Science and Technology (TAJST) V4 | TAIST TAIST | Anal yais of Air Temperature Plactuation in Citi. Airport: Low Pass Riter in Nature Israges Segmentation for Road and Retaining Wall Using U-Net Architecture Incolementation of U-Net Devo. Lourning Framework for Road and Road ultim Semmentation |
| 103 104 105 | 17 | 15-Feb-2022 | Viscos Pentra, Frederico Soares Cabral, Lourenço A. L. Pentra, Mariano Renato M. da Cruz , and Hidekaza Fukal Wagas, H.M.S., 2004 Actório Dian, and Schnishro Makkabiran, S. Hugas Ximanes, Teobaldo Filipo Ximenes, and Schrischiro Nakashima. | Civil Civil | Timorense Journal of Science and Technology (TAJST) V4 Timorense Journal of Science and Technology (TAJST) V4 Timorense Journal of Science and Technology (TAJST) V4 | TAIST | Comparison Study of AASHTD and Bins Marga Standards in Design Road Construction in Timor-Leste Fundamental properties of PET-Phalt Using Shredded PET Bottles as Binder |
| 106 107 | 18 19 | 15-Feb-2022 15-Feb-2022 | Francisco Xivier Xirmens, and Antonio Torres Marques | Mechanical Mechanical | Timorense Journal of Science and Technology (TAIST) V4 Timorense Journal of Science and Technology (TAIST) V4 | TAIST | Evaluation of Mechanical Properties of Hollow Steel in Timor-Leate Market Mechanical Testing of Fibre Reinforced Pipes Manufactured under Two Different Orientations |
| 108 | | 15-Feb-2022 17-Jun-2022 | Robert J. Fretter, Kolchi Shirnakawa | Geology Electronics | Timorense Journal of Science and Technology (TAJST) V4 photoconductivity and Photoconductive Materials: Fundamentals, Techniques | TAIST Int.journal | Goodi versity Assessment of Atsuro Volcanic Island, Timor Leste: A New Method Approach Based on GIS Analysis Chapter 13: Persistent Photocurrents and Defects |
| | | | | | | | |

| | _ | 15-Sep-2022 | Carlito Pinto and Koichi Shimakawa | Informatics | Phys. Biol. 19 (2022) | Int.journal | конфизионую приде возменення возм |
|-----|----|-------------|---|-------------|---|-------------|--|
| 110 | 2 | | Cancio Monteiro | | Phys. Biol. 19 (2022) DOI: 10 5272/interhonen 107151 | Intjournal | Low-Power CMCS/FinTETs Circuit Using Adjubatic Switching Principle |
| 111 | 2 | 7-Oct-2022 | Cancio Monteiro | Electronics | | inc.journal | Low-Young CAUCA/HITE IS CITED TO USE ASSESSMENT OF THE CONTROL OF |
| 112 | 3 | 9-Sep-2022 | Abelito F. Belo, K. Shimakawa & Y. Sakaguchi | Electronics | Journal of Materials Science: Materials in Electronics volume 33, pages 22541–22548 | Int.journal | Transient photodarkening induced by a nanosecond pulsed laser in amorphous and liquid As25e3: fractal characteristics in relaxation dynamics |
| _ | _ | | - | | (2022) | | |
| 113 | 4 | 31-Jan-2023 | Carlito Pinto and Koichi Shimakawa | | AIP Advances 13, 025126 (2023) | Intjournal | Glassy dynamics in bacterial growth rate temperature dependence |
| 114 | 5 | 1-Mar-2023 | Frederico Soares Cabral, Carlito Pinto | Informatics | Timorense Journal of Science and Technology (TAIST) V5 | TAIST | The Importance of Geographic Information System for Rice Field Management in Timor-Leste |
| 115 | 6 | 1-Mar-2023 | Cancio Monteiro, Fatima R. dos Santos, and Celestion Correla | Electronics | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Design and Analysis of 2M-6T-SRAM Memory Cell |
| 116 | 7 | 1-Mar-2023 | Cancio Monteiro, Sérgio J.S. da Costa , and Celestion Correla | Electronics | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Design of Trapezoidal Power Clock Signal Generator Circuit for Dual-Rail Adiabatic Logic Power Supply |
| 117 | 8 | 1-Mar-2023 | José Maria Xavier, Victor C. Soares, Domingos de Sousa Freitas, José Elias Pereira Tilman, and Tomonao Kobayashi | Mechanical | Timorense Journal of Science and Technology (TAJST) VS | TAIST | Weather with Tropical Cyclone Seroja Simulated with Numerical Meteorological Model |
| 118 | 9 | 1-Mar-2023 | Domingos de Sousa Freitas, Jose Maria Xavier, Evangelino Candido Gaio, Adalfredo Guterres da Silva Ximenes , José Ellas Pereira Tilma | Mechanical | Timorense Journal of Science and Technology (TAJST) VS | TAIST | Evaluation of Rainfall for Generating of Micro Hydro Power in Seiçal River Basin |
| 119 | 10 | 1-Mar-2023 | Francisco Xavier Ximenes | Mechanical | Timorense Journal of Science and Technology (TAJST) VS | TAIST | Milling Process of Silics Oxide (SiO2) Powder in Timor-Leste |
| 120 | 11 | 1-Mar-2023 | Marfim Guimaraes, Noviano Gusmao Robbinson , and Minoru Yamashita | Mechanical | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Axial Compression of Square Steel Tubes |
| 121 | 12 | 1-Mar-2023 | Lelis Gonzaga Fraga , José Carlos F. Teixeira , and Manuel Eduardo C. Ferreira | Mechanical | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Study the Thermal Equilibrium of The Materials and the Decomposition of Wood Pellets at Low Temperature |
| 122 | 13 | 1-Mar-2023 | Lelis Gonzaga Fraga | Civil | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | The Study on the Use of Fuel for Cooking in a Household in Dili |
| 123 | 14 | 1-Mar-2023 | José M. Ximenes , and José B. Aguiar | Civil | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Characteristics of Solid Cement Block and Mortars for Masonry |
| 124 | 15 | 1-Mar-2023 | Elfrido Elias Tita, Shao Pellun , and Gakuho Watanabe | Civil | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Secretarian orders and a service of the control of |
| 125 | 16 | 1-Mar-2023 | Hugo Ximenes, Diamentino Denilson Leite , and Hiroyuki Sakakibara | Civil | Timorense Journal of Science and Technology (TAJST) VS | TAIST | Estimating Queuing Time of the Heavy Vehicles at Dili Port Gate |
| 126 | 17 | 1-Mar-2023 | Partia Count, Apolitica Metro, C. Condodo, Celebra de Selo, A. Scores, Alicela Mondro, Aquillet No Inc., Here | Geology | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Geochemical and Physical Assessment of Limestone of the Altuto and Maubise Formations for Industrial Uses |
| 127 | 18 | 1-Mar-2023 | жиний ж. кіз, линасоли, с. симозо, с. шако, к. зонко, кискажило, карингисти, инт | Geology | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Physical Assessment of Calcillutite and Crinoidal Limestone of Cribas and Beheda Area of Timor-Leste for ornamental Uses |
| 128 | 19 | 1-Mar-2023 | Cornélio Cardoso Moniz, Kilchiro Kawamura, Maria Elias, Gabriel G. Aparicio de Oliveira , and Apolinário E. Alves | Geology | Timprense Journal of Science and Technology (TAJST) V5 | TAIST | Comments of Decimal Company and Carlo-Communication Comments and September 2019 Communication Commun |
| 129 | 20 | 1-Mar-2023 | Olga Maria de Sousa, and Emerson M. D. de Sousa | Electronics | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Reading Four Band Resistor Value Based on Image Processing Technique |
| 130 | 21 | 1-Mar-2023 | Abreu Andre Boavida , and Shan Lu | Informatics | Timorense Journal of Science and Technology (TAJST) VS | TAIST | Classifying Images of Multi-Class Mikrolet Vehicles Using Convolutional Neural Network Models |
| 131 | 22 | 1-Mar-2023 | Jose Soares Pinto, Frederico Soares Cabral, Marcelino C. Noronha , and Milania Isabel Assunção Nunes | Informatics | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Sentiment Analysis for Tourism Sites in Timor Leste |
| 132 | 23 | 1-Mar-2023 | Marcelino Cestano Noronha, Jose Saores Pinto , and Quintino Soares | Informatics | Timorense Journal of Science and Technology (TAIST) VS | TAIST | Data Mining Informatics Engineering Student Graduation with the Naive Sayes Classifier Algorithm |
| 133 | 24 | 1-Mar-2023 | Hugo Ximenes and Shinichiro Nakashima | Civil | Timorese Academic Journal of Science and Technology (TAJST) Special Volume | TAIST | Flood damage in the middle reach of the Manleuana river in Dill, Timor-Leste |
| 134 | 25 | 1-Mar-2023 | Aleixo Sarmento and Joao F. Soares | Civil | Timorese Academic Journal of Science and Technology (TAJST) Special Volume | TAIST | Availasaun kondisaun infra-estruturas iha mota Moloa husi impaktu siklone tropikal noinundasaun 4 de Abril 2021 |
| 135 | 26 | 1-Mar-2023 | Fernando Moniz Guterres and Benjamim Hopffer Martins | Civil | Timorese Academic Journal of Science and Technology (TAJST) Special Volume | TAIST | Viabilidade Ponte Becussi ho Tipo 6 Box Culvert |
| | | | Oktoviano V. T. de Jesus, Benjamim Hooffer Martins, Felix J. G. Jones, Abilio Fernandes, and Hamude | | | | |
| 136 | 27 | 1-Mar-2023 | Alkatiri | Civil | Timorese Academic Journal of Science and Technology (TAJST) Special Volume | TAIST | Proposed of sedimentation removal along Comoro River Field Report |
| - | | | | | Timprese Academic Journal of Science and Technology (TAJST) Special Volume | | |
| 137 | 28 | 1-Mar-2023 | Masahiko Sekine, Alfredo Ferreira, and Aleixo Sarmento | Civil | | TAIST | Drawing inundation map based on remote collaborative works among Japan and Timor Lorosa'e |
| 138 | 29 | 1-Mar-2023 | Kolchi Yamamoto and Motoyuki Suzuki | Civil | Timorese Academic Journal of Science and Technology (TAJST) Special Volume | TAIST | Report on the online debriefing on the April 2021 floods in Timor-Leste |



ANNEX

Project Design Matrix

<u>Project Title</u>: Project for Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e Phase 2 (CADEFEST Phase 2)

Version

Implementing Agency: National University of Timor-Lorosa'e (UNTL), Ministry of Education

Dated 18 March 2016

<u>Target Group (Direct)</u>: Faculty Staff of 5 Departments (Mechanical Engineering, Civil Engineering, Electrical & Electronics Engineering, Informatics Engineering, Geology & Petroleum) of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

Target Group (Indirect): Students of 4-year "Licenciatura" Undergraduate Program of the 5 Departments of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

Period of Project: August 2016 - August 2021 (5 years)

Project Site: Hera Campus, FoEST-UNTL

| Narrative Summary | Objectively Verifiable Indicators | Means of Verification | Important Assumption | Achievement | Remarks |
|--|--|--|--|-------------|---------|
| Overall Goal FoEST-UNTL contribute to solving social problems through its education and research | Number (or employment rates) of graduates working in related fields: XX | Employment data for graduates | | | |
| activities corresponding to social needs. | Employers' satisfaction rates are increased from XX (baseline to be decided) to XX | Employers' satisfaction survey results | | | |
| | o. Hambor of conducting a manner | Records of collaborative activities | | | |
| | Number of research papers published: XX | Research paper publications | | | |
| Project Purpose Education and research functions corresponding to social needs are enhanced at FoEST-UNTL. | Graduation rates of students within fixed duration are improved from XX (baseline to be defined) to XX | | Economic situation including job market does not drastically deteriorate. | | |
| | Number of collaborative activities with external partners (*): XX | Records of collaborative activities | Duration of licensure undergraduate program does not drastically change. | | |
| | 3. Number of research papers published: | 3. Research paper publications | | | |



| | | | F | | 1 |
|--|--|--|---------------------------|----------|-----|
| Outputs | | | | | . [|
| Output 1 | Cooperation function | | | | • |
| Mechanism of faculty management to address | 1-1. List of external partners (present and | List of external partners | Curriculum framework does | | |
| priority issues is enhanced. | potential) is prepared and updated | | not drastically change. | | |
| | regularly | | | | ļ. |
| | 1-2. Number of activities for networking | 2. List of networking activities | | | , |
| | (**to be defined): | Z. Elot of Notworking doubles | | | |
| | - with Industries: XX | | | | |
| | - with governments: XX | • • | | | |
| | - with communities: XX | | | | |
| | - with universities in the region: XX | | | | |
| | - with others: XX | | | | |
| | System improvement of internship and | Syllahi for internship and final | | | |
| | final thesis | thesis | | | |
| | 1-3. Syllabi for internship and final thesis | | | | |
| | are prepared. | · | | 1 | |
| | | | | \ | |
| | O & M for Equipment | 4. Guidelines and manuals of O&M | | | . [|
| | 1-4. Guidelines and manuals of Operation | for equipment | | | |
| | & Maintenance (O&M) of equipment are | | | 1 | |
| | developed | 5 D | | 1 | l |
| | 1-5. Responsible personnel and | 5. Documents to define personnel el and procedures of O& M for | | | |
| | procedures for requesting updates/repair | equipment | | | |
| | of facilities and equipment are clearly defined. | equipment | | | |
| | defined. | | | | |
| | Additional indicators to be decided when | | | | |
| | other priority issues/activities are selected | i i | | | : . |
| | | | _ | | |
| Output 2 | Common for the 5 departments | 4 F FOT 4 data | · | · I | 1 |
| Education corresponding to social needs is | 2-1. More than XX% of final thesis (or | 1. FoEST student data | | | 1 |
| provided at FoEST-UNTL. | registered students for the final year or | | | | |
| | registered students for final thesis) pass | | | | |
| | the examination based on the agreed criteria | | | | |
| | | O Desults of students agricfaction | | | |
| | 2-2. More than XX % of students are | 2. Results of students satisfaction | | | |
| | satisfied with the education provided by the | program | 1 | | |
| | faculty. | | | | |
| | 2-3. Class evaluation results get XX | (3. Results of class evaluation | | | |
| | averaged points. | | | | . |
| *In | ı | 1 | | | |

| • | 7 | • |
|---|---|---|
| | 1 | |
| | | |

| | | Specific for the 2 newly included | | |
|---|--|--|---|---------------------------------|
| | · · · · · · · · · · · · · · · · · · · | <u>departments</u> | | |
| | | 2-4. Evaluation results of the capacity of | Evaluation results of capacity of | |
| | | teaching staff is improved from the | teaching staff | * |
| | | baseline to XX in terms of knowledge and | | 1 |
| 1 | | skills of teaching/class management (| | * |
| _ | | evaluation methods to be defined) | | |
| | | | | |
| | Outnut 2 | 3-1. Percentage of faculty staff who | 1. FoEST research activity reports | |
| | | submitted research proposals | | |
| | 14C3Cd1011C3 bo11Copoliding to cooldi illocation and | corresponding to social needs: XX % | | |
| | | | | |
| | | 3-2. Number of researches corresponding | 2. FoEST research activity reports | |
| | | to social needs conducted : XX | | · · |
| | | | | · I |
| | | 3-3. Number of research papers published: | 3. FoEST research activity reports | |
| | | XX | | |
| | | | | |
| | | 3-4. Number of research presentations: XX | 4. FoEST research activity reports | |
| | | o i. Hamber of research preserving | · · · | |
| | | Innute | | Important Assumption |
| | Activities | Inputs | The Timor-Lest (UNTL) Side | |
| | Output 1: | The Japanese Side | Counterpart personnel | |
| | 1-1. Identify priority issues for improvement of | Dispatch of Experts | 1) Rector of UNTL (Project | |
| | the faculty management including | 1) Long-term experts | | |
| | - cooperation unit and networking activities(**) | - Chief Advisor | Director) | |
| | - system improvement of internship and final | - Project Coordinator/Partnership | 2) Dean of FoEST (Project | 1 |
| | thesis based on the review | Building | Manager) | Number of students admitted |
| | - Operation &Maintenance (O&M) of equipment | 2) Short-term experts | 3) Faculty teaching staff | does not drastically exceed the |
| | - special lectures | - Mechanical Engineering | 4) Faculty administration staff | capacity of FoEST-UNTL. |
| | and other issues (e.g. graduate tracer survey, | - Civil Engineering | | |
| | career support, FD activities, etc.) | - Electrical & Electronic Engineering | 2. Facility and equipment | |
| | 1-2. Prepare annual action plans of the faculty | - Informatics Engineering | 1) Project office space for Project | |
| | and implement them. | - Geology & Petroleum | experts | |
| | 1-3. Review periodically/each semester to | - Faculty management | 2) Office equipment | , |
| | monitor the progress and identify measures for | - other necessary fields | 3) Education and research | |
| | improvement | , | equipment | |
| | 1-4. Implement the measures for improvement | 2. Training | | |
| | 1-4. Implement the measures for improvement | | 3. Project Implementation costs | |
| | A Section 1 | 3. Equipment | and operational budget for FoEST | · |
| | | o. Equipment | (including operational and | |
| | Output 2 | 4. Project implementation costs | maintenance costs for | |
| | Output 2: | | leguipments) | |
| | 2-1. Research based final thesis | | oquip.nonc) | 1 |
| | 2-1-1. Review and improve implementation | | | |
| | procedures and schedule of final thesis | | | |
| | 2-1.2. Conduct final thesis corresponding to | | | |
| | social needs | | | · |
| | 2-1-3. Compile the final thesis every year | | I | ' |
| | | | | |



2-2. Syllabi and teaching materials

2-2-1. Develop a system of reviewing syllabi annually by Academic Committee 2-2-2. Review and revise syllabi and teachinglearning materials based on the curriculum and incorporating the social needs by Academic

2-3. Teaching and class management

- 2-3-1. Conduct class evaluation periodically by the faculty
- 2-3-2. Improve class management based on the evaluation results

2-4. Capacity development of teaching staff (Two newly included departments)

2-4-1. Asses present capacity of teaching staff in terms of skills, knowledge and lesson conduct to identify areas for development 2-4-2. Prepare programs for capacity development of teaching staff based on the results of the assessment 2-4-3. Implement the programs for capacity development of teaching staff 2-4-4. Monitor the progress of capacity improvement and revise the program as and

Output 3

when necessary

Committee

- 3-1. Teaching staff identifies research and investigation needs of the society
- 3-2. Teaching staff make research proposals for conducting research activities
- 3-3. Teaching staff conduct research activities
- 3-4. Teaching staff widely share the research outputs/feedback research outputs to external partners

Pre-Conditions

- FoEST-UNTL define
 function of Cooperation Unit
- 2. FoEST-UNTL appoint faculty staff in Cooperation Unit
- 3. FoEST-UNTL conduct a comprehensive assessment and submit a report on the ongoing 4-year "licenciatura" undergraduate program with concrete measures for improvement and revisions including syllabi and implementation plan of the internship program and final



<lssues and
countermeasures>

Note: Definitions and target figures XX of all indicators to be decided at the beginning of the project and/or when baseline data being available.

^{* &}quot;collaborative activities with external partners" may include funded research, joint research, advisory, special lectures, funded lectures, industrial visits, academic exchanges, testing service using faculty equipments, etc.

^{**} Networking activities may include needs surveys, needs investigation visits and discussions with external partners, seminars, journals, brochures, academic exchange for academic networking, tracer survey for graduates, employers' survey, Career Day etc.

Project Monitoring Sheet I (Revision of Project Design Matrix)

4

Project Title: Project for Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e Phase 2 (CADEFEST Phase 2)

Version 1

Implementing Agency: National University of Timor-Lorosa'e (UNTL), Ministry of Education

Dated 15 Septemeber 2017

<u>Target Group (Direct)</u>: Faculty Staff of 5 Departments (Mechanical Engineering, Civil Engineering, Electrical & Electronics Engineering, Informatics Engineering, Geology & Petroleum) of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

Target Group (Indirect): Students of 4-year "Licenciatura" Undergraduate Program of the 5 Departments of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

Period of Project: August 2016 - August 2021 (5 years)

Project Site: Hera Campus, FoEST-UNTL

| Narrative Summary | Objectively Verifiable Indicators | Means of Verification | Important Assumption | Achievement |
|--|---|---|---|-------------|
| Overall Goal FoEST-UNTL contribute to solving social problems through its education and research activities corresponding to social needs. | Number (or employment rates) of graduates working in related fields: 50% | Employment data for graduates | | Achievement |
| | Employers' satisfaction rates are increased from 85% (baseline to be decided) to 90% | 2. Employers' satisfaction survey results | | |
| | Number of collaborative activities with external partners (*): 450 (after 8 years) | | | |
| | Number of research papers published: 80 (after 8years) | 4. Research paper publications | | |
| Project Purpose Education and research functions corresponding to social needs are enhanced at FoEST-UNTL. | Graduation rates of students within fixed duration are improved from 50 % (baseline to be defined) to 80% | | Economic situation including job market does not drastically deteriorate. | |
| | Number of collaborative activities with external partners (*): 280 (after 5 years) | activities | Duration of licensure undergraduate program does not drastically | |
| | Number of research papers published: 50 (after 5 years) | 3. Research paper publications | change. | |



| Outputs | | <u> </u> | i | *** |
|---------|---|--|---|-----|
| | Cooperation function 1-1. List of external partners (present and potential) is prepared and updated regularly | List of external partners | Curriculum framework does not drastically change. | |
| | 1-2. Number of activities for networking (**to be defined): - with Industries: 10 / year - with governments: 15 / year - with communities: 10 / year - with universities in the region: 15/year - with others: 5 / year | 2. List of networking activities | | |
| | System improvement of internship and final thesis 1-3. Syllabi for internship and final thesis are prepared. | thesis | | |
| ; - | | 4. Guidelines and manuals of O&M for equipment | | |
| | procedures for requesting | 5. Documents to define personnel et and procedures of O& M for equipment | | |
| | Additional indicators to be decided when other priority issues/activities are selected | • | | |



| _ | | ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
|-----|---|--|------------------------------------|--|
| \ E | <u>atput 2</u> ducation corresponding to social needs is be by a social needs is | Common for the 5 departments 2-1. More than 80% of final thesis (or registered students for the final year or registered students for final thesis) pass the examination based on the agreed criteria | 1. FoEST student data | |
| | | 2-2. More than 90 % of students are satisfied with the education provided by the faculty. | | |
| | | 2-3. Class evaluation results get 4 averaged points. | 3. Results of class evaluation | |
| | | Specific for the 2 newly included departments | | |
| | | 2-4. Evaluation results of the capacity of teaching staff is improved from the baseline to 4 points out of 5 in terms of knowledge and skills of teaching/class management (evaluation methods to be defined) | teaching staff | |
| Re | <u>searches corresponding</u> to social needs are searches corresponding to social needs are nducted by teaching staff of FoEST-UNTL. | 3-1. Percentage of faculty staff who submitted research proposals corresponding to social needs: 70 % | FoEST research activity reports | |
| | | 3-2. Number of researches corresponding to social needs conducted : 20 /year | 2. FoEST research activity reports | |
| | | 3-3. Number of research papers published: 10 / year | 3. FoEST research activity reports | |
| | | 3-4. Number of research presentations: 20 / year | 4. FoEST research activity reports | |



| Output 1: 1-1. Identify priority issues for improvement of the faculty management including - cooperation unit and networking activities(**) Important Assumpt The Japanese Side The Timor-Lest (UNTL) Side 1. Counterpart personnel 1) Long-term experts 1) Rector of UNTL (Project Director) |
|---|
| 1-1. Identify priority issues for improvement of the faculty management including 1) Long-term experts 1. Counterpart personnel 1) Rector of UNTL (Project cooperation unit and networking activities(**) - Chief Advisor Director) |
| - cooperation unit and networking activities(**) - Chief Advisor Director) |
| - cooperation unit and networking activities(**) Chief Advisor Director) |
| |
| - system improvement of internship and final - Project Coordinator/Partnership 2) Dean of FoEST (Project |
| (thesis based on the review Building Manager) Number of students |
| - Operation & Maintenance (O&M) of 2) Short-term experts 3) Faculty teaching staff admitted does not |
| equipment - Mechanical Engineering 4) Faculty administration staff |
| - special lectures - Civil Engineering capacity of FoEST- |
| and other issues (e.g. graduate tracer survey, - Electrical & Electronic Engineering 2. Facility and equipment UNTL. |
| career support, FD activities, etc.) - Informatics Engineering 1) Project office space for Project |
| 1-2. Prepare annual action plans of the faculty - Geology & Petroleum experts |
| and implement them Faculty management 2) Office equipment |
| 1-3. Review periodically/each semester to |
| monitor the progress and identify measures for equipment |
| improvement 2. Training |
| 1-4. Implement the measures for improvement |
| 3. Equipment and operational budget for FoEST |
| Output 2: (including operational and |
| 2-1 Research based final thesis |
| 2-1-1. Review and improve implementation equipments) |
| procedures and schedule of final thesis |
| 2-1,2. Conduct final thesis corresponding to |
| social needs |
| 2-1-3. Compile the final thesis every year |





2-2. Syllabi and teaching materials

2-2-1. Develop a system of reviewing syllabi annually by Academic Committee
2-2-2. Review and revise syllabi and teaching-learning materials based on the curriculum and incorporating the social needs by Academic Committee

2-3. Teaching and class management

- 2-3-1. Conduct class evaluation periodically by the faculty
- 2-3-2. Improve class management based on the evaluation results

2-4. Capacity development of teaching staff (Two newly included departments)

- 2-4-1. Asses present capacity of teaching staff in terms of skills, knowledge and lesson conduct to identify areas for development 2-4-2. Prepare programs for capacity development of teaching staff based on the results of the assessment 2-4-3. Implement the programs for capacity
- 2-4-3. Implement the programs for capacity development of teaching staff
- 2-4-4. Monitor the progress of capacity improvement and revise the program as and when necessary

Output 3

3-1. Teaching staff identifies research and investigation needs of the society 3-2. Teaching staff make research proposals for conducting research activities 3-3. Teaching staff conduct research activities 3-4. Teaching staff widely share the research outputs/feedback research outputs to external partners

Pre-Conditions

- FoEST-UNTL define function of Cooperation Unit
- 2. FoEST-UNTL appoint faculty staff in Cooperation Unit
- 3. FoEST-UNTL conduct a comprehensive assessment and submit a report on the on-going 4-year "licenciatura" undergraduate program with concrete measures for improvement and revisions including syllabi and implementation plan



<lssues and countermesures>

Activities of Cooperation unit should be encouraged and reflect peronnel assesment of lecturers

4-year "Licenciatura" program contunite to be assessed to improve oraduation rates

Note: Definitions and target figures XX of all indicators to be decided at the beginning of the project and/or when baseline data being available.



^{* &}quot;collaborative activities with external partners" may include funded research, joint research, advisory, special lectures, funded lectures, industrial visits, academic exchanges, testing service using faculty equipment, etc.

^{**} Networking activities may include needs surveys, needs investigation visits and discussions with external partners, seminars, journals, brochures, academic exchange for academic networking, tracer survey for graduates, employers' survey, Career Day etc.

Version 2

Dated 12 September 2019

Project Monitoring Sheet I (Revision of Project Design Matrix)

4

<u>Project Title</u>: Project for Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e Phase 2 (CADEFEST Phase 2)

Implementing Agency: National University of Timor-Lorosa'e (UNTL), Ministry of Education

<u>Target Group (Direct)</u>: Faculty Staff of 5 Departments (Mechanical Engineering, Civil Engineering, Electrical & Electronics Engineering, Informatics Engineering, Geology & Petroleum) of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

<u>Target Group (Indirect)</u>: Students of 4-year "Licenciatura" Undergraduate Program of the 5 Departments of the Faculty of Engineering, Science and Technology (FoEST) of UNTL

Period of Project: August 2016 - March 2022 (5 years and 8months)

Project Site: Hera Campus, FoEST-UNTL

| Narrative Summary | Objectively Verifiable Indicators | Means of Verification | Important Assumption |
|---|---|--|--|
| Overali Goal | | | - Individual individua |
| FoEST-UNTL contribute to solving social problems through its education and research activities corresponding to social needs. | 1. Number (or employment rates) of graduates working in related fields :50% | Employment data for graduates | |
| | Employers' satisfaction rates are increased from 85% (baseline to be decided) to 90% | Employers' satisfaction survey results | |
| | 3. Number of collaborative activities with external partners (*): 200(after 8 years) | 3. Records of collaborative activities | |
| | Number of research papers published: <u>80 (after 8years)</u> | 4. Research paper publications | |
| Project Purpose | | | |
| Education and research functions corresponding to social needs are enhanced at FoEST-UNTL. | Graduation rates of students within fixed duration (6years) are improved from 50 % (baseline to be defined) to 80% Number of collaborative activities with external partners (*): 130 (after 5 years) | | Economic situation including job market does not drastically deteriorate. Duration of licensure undergraduate program does |
| | 3. 70 % of graduation theses obtain a score of 8.0 or more. | | not drastically change. |
| | Number of research papers published: 50 (after 5 years) | 3. Research paper publications | |





| Outputs | | | |
|---|---|--|---|
| Output 1 Mechanism of faculty management to address priority issues is enhanced. | Cooperation function 1-1. List of external partners (present and potential) is prepared and updated regularly | | Curriculum framework does not drastically change. |
| | 1-2. Number of activities for networking with external partners(such as Industries, goverments, communities, uviversities in the region) (**to be defined): 30/year | . | |
| | System improvement of internship and final thesis 1-3. Syllabi for internship and final thesis are prepared. | thesis | |
| | O & M for Equipment 1-4. Guidelines and manuals of Operation & Maintenance (O&M) of equipment are developed | 4. Guidelines and manuals of O&N for equipment | |
| | procedures for requesting updates/repair | 5. Documents to define personnel el and procedures of O& M for equipment | |





| P-MM-2 | | | |
|--|--|------------------------------------|--|
| Output 2 Education corresponding to social needs is provided at FoEST-UNTL. | 2-1. More than 80% of final thesis (or registered students for the final year or registered students for final thesis) pass the examination based on the agreed criteria | 1. FoEST student data | |
| | 2-2. More than <u>90%</u> of students are satisfied with the education provided by the faculty. | | |
| | 2-3. Class evaluation results get <u>4</u> averaged points. | 3. Results of class evaluation | |
| Output 3 Researches corresponding to social needs are conducted by teaching staff of FoEST-UNTL. | 3-1. Percentage of faculty staff who submitted research proposals corresponding to social needs: 70 % | | |
| | 3-2. Number of researches corresponding to social needs conducted : 50 | 2. FoEST research activity reports | |
| | 3-3. Number of research papers published: <u>10 / year</u> | 3. FoEST research activity reports | |
| | 3-4. Number of research presentations for sharing research outputs 20 / year | 4. FoEST research activity reports | |





| Activities | Inputs | | Important Assumption |
|---|---|--|----------------------|
| utput 1: | The Japanese Side | The Timor-Lest (UNTL) Side | |
| Operation &Maintenance (O&M) of equipment special lectures and other issues (e.g. graduate tracer survey, career support, FD activities, etc.) 1-2. Prepare annual action plans of the faculty and implement them. 1-3. Review periodically/each semester to monitor the progress and identify measures for improvement 1-4. Implement the measures for improvement | 1. Dispatch of Experts 1) Long-term experts - Chief Advisor - Project Coordinator/Partnership Building 2) Short-term experts - Mechanical Engineering - Civil Engineering - Electrical & Electronic Engineering - Informatics Engineering - Geology & Petroleum - Faculty management - other necessary fields | 1. Counterpart personnel 1) Rector of UNTL (Project Director) 2) Dean of FoEST (Project Manager) 3) Faculty teaching staff 4) Faculty administration staff 2. Facility and equipment 1) Project office space for Project experts 2) Office equipment 3) Education and research equipment 3. Project Implementation costs and operational budget for FoEST (including operational and maintenance costs for equipments) | |
| Output 2: 2-1. Research based final thesis 2-1-1. Review and improve implementation procedures and schedule of final thesis 2-1.2. Conduct final thesis corresponding to social needs 2-1-3. Compile the final thesis every year | | | |





| 2-2. Syllabi and teaching materials 2-2-1. Develop a system of reviewing syllabi annually by Academic Committee 2-2-2. Review and revise syllabi and teaching- learning materials based on the curriculum and incorporating the social needs by Academic Committee | |
|---|--|
| 2-3. Teaching and class management 2-3-1. Conduct class evaluation periodically by the faculty 2-3-2. Improve class management based on the evaluation results | Pre-Conditions 1. FoEST-UNTL define function of Cooperation Unit |
| 2-4. Capacity development of teaching staff (Two newly included departments) 2-4-1. Asses present capacity of teaching staff in terms of skills, knowledge and lesson conduct to identify areas for development 2-4-2. Prepare programs for capacity development of teaching staff based on the results of the assessment 2-4-3. Implement the programs for capacity development of teaching staff 2-4-4. Monitor the progress of capacity improvement and revise the program as and when necessary | 2. FoEST-UNTL appoint faculty staff in Cooperation Unit 3. FoEST-UNTL conduct a comprehensive assessment and submit a report on the on-going 4-year "licenciatura" undergraduate program with concrete measures for improvement and revisions including syllabi and implementation plan of the internship program and final thesis. |
| Output 3 3-1. Teaching staff identifies research and investigation needs of the society 3-2. Teaching staff make research proposals for conducting research activities 3-3. Teaching staff conduct research activities 3-4. Teaching staff widely share the research outputs/feedback research outputs to external partners | <issues and="" countermesures=""> Activities of Cooperation unit should be encouraged and reflect peronnel assesment of lecturers 4-year "Licenciatura" program contunite to be assessed to improve graduation rates</issues> |

^{* &}quot;collaborative activities with external partners" may include funded research, joint research, advisory, special lectures, funded lectures, industrial visits, academic exchanges, testing service using faculty equipment, etc.

^{**} Networking activities may include needs surveys, needs investigation visits and discussions with external partners, seminars, journals, brochures, academic exchange for academic networking, tracer survey for graduates, employers' survey, Career Day etc.

