**MINUTES OF THE PRE-DEPLOYMENT DEFENSE**

**Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Time Started:** \_\_\_\_\_\_\_\_\_\_\_\_ **Time Ended:** \_\_\_\_\_\_\_\_\_\_

**Title of the Study:** WQMSys:Smart Water Quality Monitoring System with IoT for Santo Tomas Davao del Norte Water District

**Proponents:**

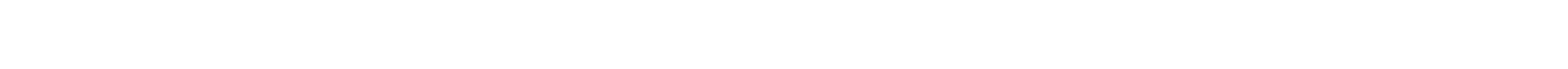
1. Kent Jun K. Gil 2. Macky Mar B. Layao

3.Mhel Jhon D. Leones 4. Alexandra May T. Pis-ing

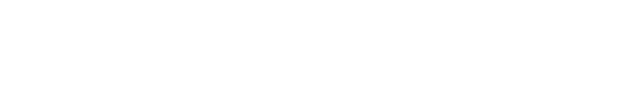
**Panelists:**

Chairman: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: Members:

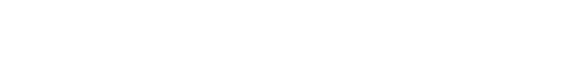
1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature:
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature:



***Institute of Computing***



**DAVAO DEL NORTE**



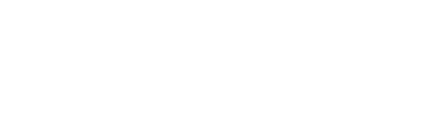
STATE COLLEGE



New Visayas, Panabo City

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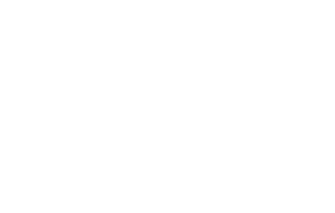
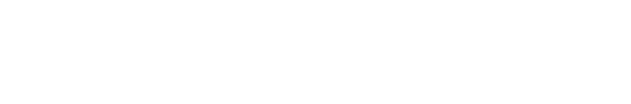
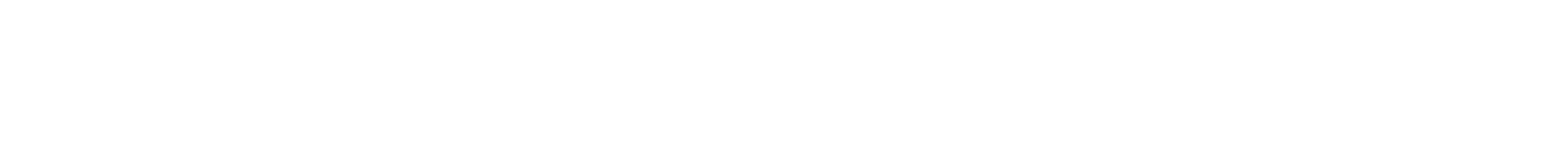
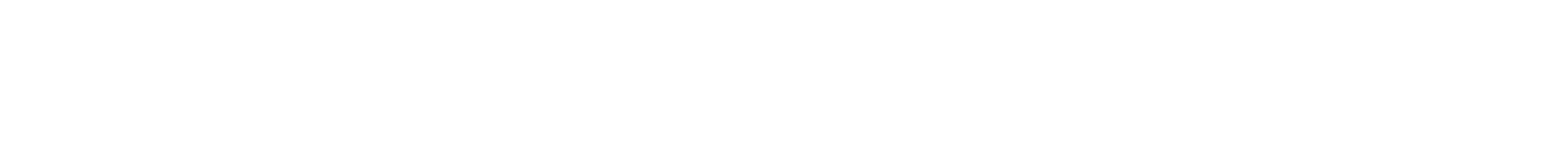
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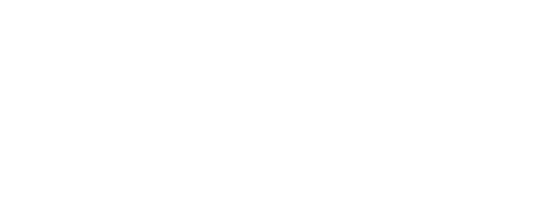
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*Fisheries and Socio*

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*cultural Development in*

*the ASEAN Region.*



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*DNSC strives to produce competent human*

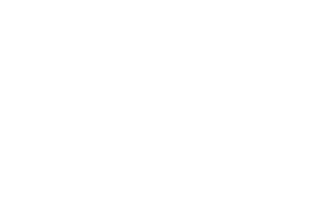
*resource, generate, and utilize knowledge and*

*technology,*

*uphold good governance and*

*quality management system for sustainable*

*resources and resilient communities.*



***CORE VALUES***

*Excellence*

*Integrity*

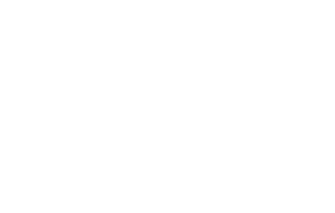
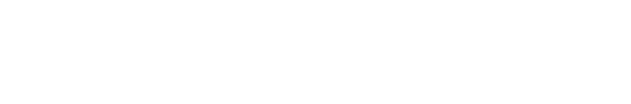
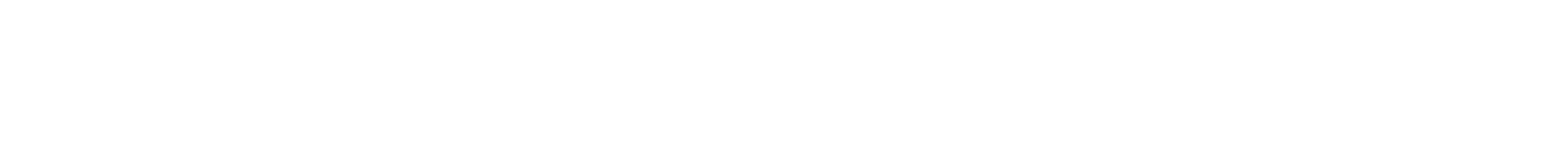
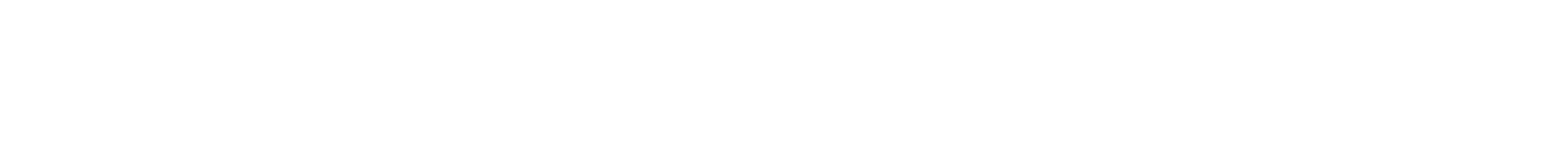
*Innovativeness*

*Stewardship*

*Love of God and Country*

**DOCUMENT COMMENTS:**

* Avoid using "potable water" term; replace with "water quality monitoring system."
* Focus on water quality parameters like pH, TDS, turbidity, and temperature.
* Collect and define standard ranges for water quality parameters (e.g., TDS < 500 for acceptable quality).
* System Features & Functionality
* Achieved real-time data collection every 2 minutes.
* Parameters include pH, turbidity, TDS, and temperature but focus is on identification, not prediction.
* Suggest creating a daily or monthly report for data visualization.
* Prediction and Algorithm Application
* Current system classifies water quality but lacks true prediction capabilities.
* To implement predictions:
* Use historical data trends to forecast future water quality levels.
* Represent predictions via broken-line graphs for clarity.
* Algorithms should enhance predictive analysis, not merely range classification.
* Visualization and Reporting
* Include line graphs for actual data and forecasts.
* Provide weekly or monthly summaries of water quality trends.
* Recommendations and Considerations
* Ensure alignment with agreed system functionalities to avoid deviations.
* Standardize sample collection procedures (e.g., specify sample volume).
* Incorporate actionable insights, such as alerts for deteriorating water quality near tank cleaning schedules.



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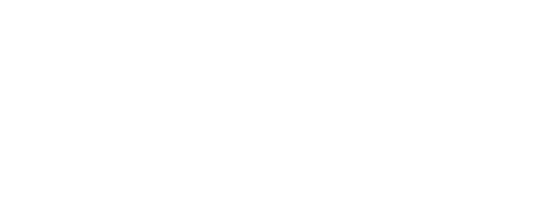
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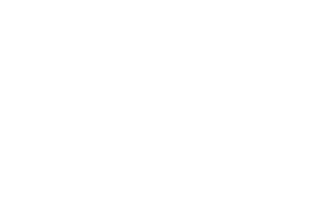
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