

INFORMATION ON DOCTORAL THESIS

1. Full name : 2. Sex:

3. Date of birth: 4. Place of birth:

5. Admission decision number: Dated

6. Changes in academic process:

(List the forms of change and corresponding times)

7. Official thesis title:

8. Major: 9. Code:

10. Supervisors:

(Full name, academic title and degree)

11. Summary of the **new findings** of the thesis: The aim of this thesis is to conduct research on recent Marine Data Transmission Systems to evaluate the advantages and disadvantages of each system. Thereby, the idea of building a new Marine Data Transmission System is proposed. The new system can transmit modulated signal containing location information, and status of vessel with many advantages such as flexible frequency conversion, high efficiency transmitting power combination; the receiver at Central Station on land is capable of receiving and demodulating signal to retrieve location, and status information of vessels. Besides that, the proposed system can store itinerary of vessel in order to improve the management capability and navigation support for marine vessel. In the framework of the thesis, many technical solutions have been proposed, studied, designed, and tested. Specifically, the power combination solution using a high-frequency splitter /combiner DGS-based coupler is focused on research and optimized in design. Finally, an S-band information system model is developed to validate and evaluate the proposed engineering solutions.

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12. Practical applicability, if any:

13. Further research directions, if any:

14. Thesis-related publications:

(List them in chronological order)

Date:

Date:

Signature:
Full name:

Signature:
Full name:

*Note: “**Information on Doctoral Thesis**” must be processed on Microsoft Word, font Unicode Times New Roman, letter size 13. “ Summary of the new findings of the thesis” should be one-A4 page long.*