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SUSTAINABLE DEVELOPMENT AND ARCHITECTURE: A CONCEPTUAL BASED ON RELIGIOUS PERSPECTIVES

Aulia Fikriarini Muchlis, Dewi Larasati and Sugeng Triyadi S.

Bandung Institute of Technology, Jl. Ganesha 10 Bandung, 40132 Indonesia

ABSTRACT

This paper discusses the values related to the concept of sustainable development that focuses on green architecture from an Islamic point of view. The Quranic verses will guide how green building in Islam is carried out. This review chose to identify values from thematic Quranic as the focus of observation and at the same time, become a novelty. By interpreting religious values can produce religious values as a lesson and as wisdom. In the end, it is hoped to be used as a fundamental principle of reference in realizing green building.

Keywords: sustainable development; green architecture; Islamic values

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1. INTRODUCTION

Climate change and all the consequences that are seen today stimulate a transformation towards sustainable development by increasing economic efficiency, improving protection, restoring the ecological system and increasing human welfare (Sinha, Gupta, & Kutnar, 2013). Sustainable development goals (SDGs) cover the stability of economic development, human development, and environmental sustainability in the long run. Sustainable development is a pattern of development that prioritizes equity by focusing on the wise use of resources to meet human needs and minimize the impact on the environment (Mila Ardiani, 2015; Samudro et al., 2011; Mangkoedihardjo, 2010).

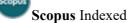
Sustainable development focused on sustainable architecture will see development as part of cooperation with nature, and pay attention to local characters and conditions, both environment and culture. This paper examines aspects of sustainable architecture with Islamic values, which will form the basis of further research in Indonesia.

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MODIFICATION OF 30 GT FISHING VESSELS USING HULL VANE NACA 2408 TYPE FOR REDUCING SHIP RESISTANCE

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Department of Naval Architecture, Engineering Faculty, Diponegoro University, Indonesia.

ABSTRACT

With the territory of Indonesia which is mostly waters, fishing vessels are an important transportation tool in Indonesia to support the economic needs of the community, especially in coastal areas. When a ship sails, ship resistance will occur, and to achieve high effectiveness, the goal of all ship design processes is to obtain as little obstacles as possible. Modifications to the ship by adding Hull Vane mounted under the hull of the ship is done so that at high speed, Hull Vane can produce lift that can reduce obstacles that occur on the ship. This study uses a computer program based on Computational Fluid Dynamic (CFD). Based on this study shows that fishing vessel with the addition of hullvane with a variation of NACA 2408 on 2° angle of attack with Fn 0.527 can reduce resistance about 51.53% from the ship without hullvane.

Key words: Hullvane, Fishing Vessel, and Ship Resistance.

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1. INTRODUCTION

Ships are an important means of transportation to support the needs of community registration. In the application of fishing technology, the ship is used as a fishing gear. In Indonesia, the use of fishing vessels is very important for fishermen because it is used as a transportation tool which is very important for fishing activities. According to KKP data (Ministry of Maritime Affairs and Fisheries) in 2017 ships will be made with a total of 1068 units with the provisions of 449 units under 5 GT, 498 units of 5 GT, 92 units of 10 GT, 3 units of 20 GT, 20 units of ships measuring 30 GT, and 3 units of vessels measuring 100 GT, and 3 units of vessels measuring 120 GT [1]. Although in modern times there are still many fishermen who use traditional boats because the manufacturing procedures are cheaper than steel vessels. In the development of an increasingly modern era many needs to be achieved, in terms of function,

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QUALITY ENHANCEMENT OF CURRICULA OF B.E/B. TECH DEGREE IN MECHANICAL ENGINEERING CONSIDERING THE INDUSTRIAL NEEDS AND DEMANDS

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ABSTRACT

Innovation is the key of survival in cut-throat competitive and flatter world. Innovation of new products / process can be produced only with the help of a good design engineer. To sustain global technological leadership, the need for globalizing engineering education has been widely recognized by academic institutions, industry and government for several decades. This paper discusses about the need for globalizing the mechanical engineering curricula, present trends in the automotive industry, the curricula of mechanical engineering in global and Indian context and a list of recommendations to improve the existing curricula to meet the global needs.

Keywords: Automotive Industry, Manufacturing Industries, Mechanical Engineering

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https://iaeme.com/Home/issue/IJARET?Volume=11&Issue=4

1. INTRODUCTION

Manufacturing Industries are the backbone for any country in building the country's economy. Growing competition, shorter product life cycle and demanding customer needs smarter way of designing the new products. Product design and R&D constitute a significant part for the success of the new product. This infers that engineering design is one of the most important and essential requirement in the study of any engineering disciplines. Innovation of new products / process can be produced only with the help of a good design engineer.