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TOPIC: THE RESTORATION AND DEVELOPMENT OF SYMBIOSIS THEORY IN DESIGN AND PLANNING OF BELUM RAINFOREST RESORT.

Lecturer: Mr. Koh Jing Hao

Research Question(s):

- 1. What is the significance of the Symbiosis Theory in Architecture?**
- 2. How is the Symbiosis Theory developed in Belum Rainforest Resort?**
- 3. How is the Symbiosis Theory restored in Belum Rainforest Resort?**
- 4. How does the Symbiosis Theory affect sustainability in Belum Rainforest Resort?**
- 5. How does the value of Symbiosis Design Influence human perception in Belum Rainforest Resort?**

Summary of the topic:

The symbiosis theory in architecture is mutually beneficial between the environment and building structure to achieve harmonic development in high quality human space with environment. Therefore, the design strategies of symbiosis development in planning and restoration in design of Belum Rainforest Resort will be discussed. In order to understand the symbiosis theory in design and planning of Belum Rainforest Resort, are referred to the case studies of Kisho Kurokawa's Philosophy of Symbiosis.

In the design and planning of Belum Rainforest Resort, the restoration of symbiosis theory has been applied in most of the buildings. In case of using on-site natural material apply to new proposed building and use of recycled material from old demolished building apply to new proposed building. This method give a new life for reused material and achieve symbiosis relationship with the site environment. In the development of the resort, minimize the impact of Belum Rainforest and bring the community to the nature forest area to increase the nature awareness of people.

Furthermore, the symbiosis theory is also create the sustainability interaction between environment and building development by using on-site material, it create the relationship with the environment and utilize the features of the site by provide mutually beneficial with building. Therefore, the symbiosis relationship between environment and building create a strong human perception and influence the nature awareness of people.

Annotated Bibliography

Kurokawa, K. (1997). *Each one a hero* (1st ed.). Tokyo: Kodansha International.

- This book outlines the core thinking and discussion of the philosophy of symbiosis.

Kurokawa, K., & Whyte, A. (2000). *Kisho Kurokawa, architect and associates* (1st ed.). Mulgrave, Vic.: Images Pub. Group.

- Explore from the Age of Machine to Age of Life in Architecture, the process and thinking from Metabolism to Symbiosis with diagram and plan in case studies of Kisho Kurokawa's works