

## **ABSTRACT**

*Furniture today has undergone rapid development towards sustainability by prioritizing modular concepts accompanied by the use of environmentally friendly materials such as bamboo. Unfortunately, the bamboo handicraft industry in Indonesia, namely in Sleman, still maintains its traditional design when the trend is now towards minimization. The good thing is, there is one Small and Medium Industry called Rosse Bambu that produces bamboo laminated furniture, although there is still a lot of development that needs to be done from the design field because the laminated products are still fairly basic. This research aims to develop modular laminated bamboo furniture with a focus on developing furniture case connections in order to create a furniture system that can be easily produced by Rosse Bambu. This research uses design thinking which focuses on the aspects of desirability, feasibility, and viability to create innovation. The result of this research is the design of a connection system resulting from the combination of a slip-on wedge system and hub connectors because it turns out that in desirability users prefer a simple system without the help of tools. In terms of feasibility, the company was only able to produce rigid laminates so the design used a universal-for-completion system with a perpendicular grid system with uniform modules to facilitate the production of bamboo laminate panels in large quantities.*

**Keywords:** *Joints, Shelving, Modular, Ready-to-Assembly, Bamboo Laminate*