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Considering the group algebra $\mathbb{C}[A_n]$ of n -step iterated wreath product of S_2 , we describe the category of (A_m, A_n) -bimodules, by explicitly describing the natural transformations between induction and restriction functors on the representations of the iterated wreath product tower. This is joint work in progress with Can Ozan Oğuz. (Received August 23, 2020)