

SIMULATED SELECTIVE LASER
SINTERING OF KCRP FOR
STUDENTS' CREATIVITY

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An effort was attempted to understand if the densification and production of the composite can be simulated by Ansys composite analysis option. This study presents the simulation of composite production in the layer by layer way in thickness of 0.1 mm as the Selective Laser Sintering (SLS) does. The simulation is excluding thermal special condition of SLS. This simulation can be considered as valid if obtained results show good agreement with properties founded via experiment. The same procedure was performed upon

the studied designed construction component parts to evaluate stress and strain distribution of the composite over the selected construction. By performing this stage, the functionality and workability of material for constructional usage and also the process of production were validly illustrated.. The results from the study showed that computational simulation can be employed to understand the full digital production process of KCRP for construction purposes.