



# National Institute of Technology Tiruchirappalli

hereby confers the degree of

*Doctor of Philosophy*

*of the institute*

*on*

**ANOOP M S**

*for successfully completing the prescribed programme  
of study and presenting the thesis entitled*

**Investigation on Static and Dynamic Characteristics of  
Fused Deposition Modelling 3D Printed Components  
using Representative Volume Element Numerical Analysis**



*Given this day the Twenty Fifth of September 2021  
Under the seal of the Institute*



TIRUCHIRAPPALLI - 620 015, INDIA

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