



# GOA UNIVERSITY



*This is to certify that*

*Elaine T. Dias*

*daughter of*

*Shri Guy Salvador Lourenco De Jesus Dias*

*and*

*Smt. Maria Socorra Zena Pereira*

*from Department of Physics*

*has been conferred the degree of*

# *Doctor of Philosophy*

*in Physics*

*having passed the qualifying examination held in January, 2018*

*Given under the seal of the University.*

*Declaration of Result : 24th January, 2018  
Taleigao Plateau - Goa*

2017 - 07448 /200503152



*Marcus Salvi*  
*Vice - Chancellor*