



Regn. No. :1681001012

SIKSHA 'O' ANUSANDHAN

(Deemed to be University)

Bhubaneswar, Odisha, India.

Accredited by NAAC with 'A' Grade

upon recommendation of the Academic Council
hereby confers the degree of

Doctor of Philosophy

on

Girija Shankar Sahoo

who has fulfilled the requirement for the degree as prescribed under
the regulations and successfully defended in July, 2020
the thesis entitled :

**"GaSb: An Approach to Boost the Efficiency of
Third Generation Solar Cells"**

for the research conducted under the

Faculty of Engineering and Technology

(Department of Electronics and Communication Engineering)

Given on this day, under the seal of the University at
Bhubaneswar, Odisha, India.



S. M.
PRINCIPAL
Aditya Engineering College
SURAMPALEM

Date : 28th December, 2020

[Signature]
Vice Chancellor