

**FABRICATION AND PERFORMANCE ANALYSIS OF NATURAL
EXTRACT (SOLANUM PROCUMBENS, SOLANUM TORVUM,
ARTABOTRYS HEXAPETALUS, GALINSOGA PARVIFLORA AND
JASMINUM GRANDIFLORUM L) BASED DYE SENSITIZED SOLAR
CELLS USING GRAPHENE OXIDE/ METAL OXIDE (NiO, Y₂O₃, SnO₂)
NANOCOMPOSITES AS COUNTER ELECTRODES**

THESIS

Submitted to the Bharathiar University in partial fulfillment of the
requirements for the award of degree of

DOCTOR OF PHILOSOPHY IN PHYSICS

Submitted by

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PSGR Krishnammal College for Women



**DEPARTMENT OF PHYSICS
PSGR KRISHNAMMAL COLLEGE FOR WOMEN
College of Excellence**

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