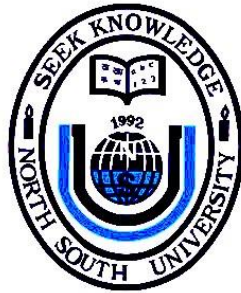


Department of Electrical and Computer Engineering  
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## Senior Design Project

# Electricity generation using gravity and buoyancy force

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# Declaration

This is to declare that no part of this report or the project has been previously submitted elsewhere for the fulfilment of any other degree or program. Proper acknowledgement has been provided for any material that has been taken from previously published sources in the bibliography section of this report.

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# Approval

The Senior Design Project entitled “**Electricity Generation Using Gravity and Buoyancy force**” by Amena Akter Sumona (1510209043), Abdullah Al Noman (1513174043), Shah Sadad Ahmed Nabil (1220793643), Anisur Rahman (1510652043) has been accepted as satisfactory and approved for partial fulfillment of the requirement of BS in EEE degree program.

## Supervisor’s Signature

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# **Abstract**

The consumer of electricity is increasing day by day due to many domestic and convenient electric devices like TV, fridge, lift etc. As a result, production of electricity has also increased over the years. Petrol, gas, coal etc are used to produce electricity, which causes environmental pollutions and global warming. If that goes on for too long, there will be a time when the earth may need to face the scarcity of all those resources in the near future. Consequently, there is a huge need for producing power from renewable sources. The reason for choosing gravity is that it is available everywhere on Earth and it does not diminish.

In this project we present an electrical generator, which will be powered by gravitational and buoyancy force. The generator is divided in two parts, the mechanical domain and the electrical domain.