

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**BELAGAVI, KARNATAKA - 590 014.**



**A PROJECT REPORT ON**

**“AIR DRIVEN ENGINE WITH SELF-COMPRESSION  
ARRANGEMENT SYSTEM”**

*(Approved and Sponsored by KSCST)*

*Submitted by*

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**BACHELOR OF ENGINEERING IN  
MECHANICAL ENGINEERING**

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## **ABSTRACT**

In the present energy scenario the fossil fuel sources are the fast depleting and their combustion products are causing global environmental problems. So it is inevitable to shift towards use of renewable energy resources which intern will reduce pollution. In this project compressed air which is pollution free and it will be used to run the engine. Existing two stroke engine is used for the project and some modifications are made to convert it to the air driven engine. For Controlling valve actuating mechanism an electronic circuit is used and a solenoid valve is used for supplying compressed air from air tank to engine. Dc power is supplied to the circuit to control the solenoid valve. Its effect on engine performance characteristics is analyzed without compression system and with compression system and making this compression system as self-compression to compress the air and send it to the compressed air supply tank.