**CANDIDATE’S DECLARATION**

I, VARUN U the student of Diploma in Computer Science and Engineering Department bearing Register Number 139CS17060 of Government Polytechnic, Sorab hereby declare that, I owe full responsibility for the information, results and conclusions provided in this project work titled **“LAB AUTOMATION USING IOT”** submitted to **Board of Technical Examinations, Government of Karnataka** for the award of ***Diploma in Computer Science and Engineering***. To the best of my knowledge, this project work has not been submitted in part or full elsewhere in any other institution/organization for the award of any certificate/diploma/degree. I have completely taken care in acknowledging the contribution of others in this academic work. I further declare that in case of any violation of intellectual property rights and particulars declared, found at any stage, I, as the candidate will be solely responsible for the same.

**Date:**

**Place: Soraba**

**Signature of candidate**

**Name: VARUN U**

**Reg No: 139CS17060**

**Government Polytechnic, Sorab-577 429**

**Department of Computer Science & Engineering**

**BONAFIDE CERTIFICATE**

Certified that this project report **“LAB AUTOMATION USING IOT”** is the bonafide work of “**BHARATH M, SURENDRA R.G, VARUN, ZUBAIR”** bearing Register Nos **“139CS17016, 139CS17058, 139CS17060, 139CS18302”** of this institution who carried out the project work under my supervision.

(**NANDAN N B.E., M. TECH., LMISTE,. IAENG**) (**S.A.AJMAL B.E., M.TECH., LMISTE)**

**Guide Head of Department**

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Shivamogga Dist. Karnataka State

Department Of Technical Education

GOVERNMENT POLYTECHNIC SORAB-577 429



Department of Computer Science and Engineering



2019-20

CERTIFICATE

Certified that this project report entitled **“LAB AUTOMATION USING IOT”**which is being submitted by Mr./Ms.VARUN, Reg. No139CS17060, a bonafide student of GOVERNMENT POLYTECHNIC SORABA partial fulfilment for the award of Diploma in Computer Science and Engineering during the year 2019-20 is record of student’s own work carried out under my/our guidance. It is certified that all corrections/suggestions indicated for internal Assessment have been incorporated in the Report and one copy of it being deposited in the polytechnic library.

The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said diploma.

It is further understood that by this certificate the undersigned do not endorse or approve any statement made, opinion expressed or conclusion drawn there in but approve the project only for the purpose for which it is submitted.

Sri. NANDAN NB.E., M. Tech. MISTE., IAENG Sri.S.A. Ajmal B.E., M. Tech., MISTE Sri. H.Jayappa M. Tech (Mech.)

Guide Head of Department Principal

Name and signature of Examiner

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ACKNOWLEDGMENTS**

I hereby take this opportunity to express my gratitude and indebtedness to all concerned in helping out in the successful completion of Inplant training internship.

My inplant training has become successful with the assistance of several people, so I’m pleased to acknowledge them heartily for their assistance and support in carrying out this internship..

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**Abstract**

In this paper we presented the a Lab Automation System (LAS) using Nodemcu esp8266 that employs the integration of cloud networking, wireless communication, which provide the user with remote control of lights, fans, and appliances within their lab and storing the data in the cloud. The system will automatically change on the basis of sensors’ data. This system is designed with low cost and expanded in lab to control variety of devices.

Keywords: IOT- internet of things, WLASwireless lab automation system.