### Project Report on

# Energy Efficient Routing



## By

**Amit Kumar (Reg 20201144)**

**Bijay Sharma (Reg 20201145)**

*In partial fulfillment of requirements for the award of degree in*

Bachelor of Technology in Computer Science and Engineering

(2016)



##### Under the Project Guidance of

**Dr K L Rajan,**

**Chief Technical Officer, NIC Bangalore**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

## (A constituent college of Sikkim Manipal University)

MAJITAR, RANGPO, EAST SIKKIM – 737136

**Project Completion Certificate**

This is to certify that the below mentioned students of Sikkim Manipal Institute of Technology have worked under my supervision and guidance from **01 Jan 2016 to 01 Jun 2016** and have successfully completed the project entitled **“Energy Efficient Routing”** in partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering.

|  |  |  |
| --- | --- | --- |
| University Registration No | Name of Student(s) | Course |
| 20201144 | AMIT KUMAR | B.Tech (CSE) |
| 20201145 | BIJAY SHARMA | B.Tech (CSE) |

Dr K L Rajan

Chief Technical Officer

NIC Bangalore

203 / 45 XYZ Street, Bangalore – 25

**Project Review Certificate**

This is to certify that the work recorded in this project report entitled **“Energy Efficient Routing”** has been jointly carried out by **Mr Amit Kumar (Reg 20201144) and Mr Bijay Sharma (Reg 20201145)** of Computer Science & Engineering Department of Sikkim Manipal Institute of Technology in partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering. This report has been duly reviewed by the undersigned and recommended for final submission for Major Project Viva Examination.

Mr S K Misra

Associate Professor

Department of Computer Science & Engineering

Sikkim Manipal Institute of Technology

Majitar, East Sikkim – 737136.

**Certificate of Acceptance**

This is to certify that the below mentioned students of Computer Science & Engineering Department of Sikkim Manipal Institute of Technology (SMIT) have worked under the supervision of **Dr K L Rajan** of **NIC Bangalore** from **01 Jan 2016 to 01 Jun 2016** on the project entitled **“Energy Efficient Routing”.**

The project is hereby accepted by the Department of Computer Science & Engineering, SMIT in partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering.

|  |  |  |
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| University Registration No | Name of Student(s) | Project Venue |
| 20201144 | AMIT KUMAR | NIC Bangalore |
| 20201145 | BIJAY SHARMA | NIC Bangalore |

Dr Kalpana Sharma

Professor & HOD

Computer Science & Engineering Department

Sikkim Manipal Institute of Technology

Majhitar, Sikkim – 737136

**Declaration**

We the undersigned, hereby declare that the work recorded in this project report entitled **“Energy Efficient Routing”** in partial fulfillment for the requirements of award of B.Tech in Computer Science & Engineering from Sikkim Manipal Institute of Technology (A constituent college of Sikkim Manipal University) is a faithful and bonafide project work carried out at **NIC Bangalore** under the supervision and guidance of **Dr K L Rajan** of NIC Bangalore.

The results of this investigation reported in this project have so far not been reported for any other Degree / Diploma or any other Technical forum.

The assistance and help received during the course of the investigation have been duly acknowledged.

**Mr Amit Kumar (Reg 20201144) …………………………..**

**Mr Bijay Sharma (Reg 20201145) …………………………**

**Acknowledgement**

Write in your own language.

The **order of acknowledgement** is mentioned below -

* External Guide along with the name of the host organization (if any)
* Internal Reviewer
* HOD, CSE – SMIT
* Project Coordinators, CSE
* CSE Department of SMIT
* Any other person if you want to include

Name of the student (Reg No) …………Signature

Name of the student (Reg No) …………Signature

**DOCUMENT CONTROL SHEET**

|  |  |  |
| --- | --- | --- |
| 1 | Report No | CSE/Major Project/B.Tech/External/95/2016 |
| 2 | Title of the Report | Energy Efficient Routing |
| 3 | Type of Report | Technical |
| 4 | Author(s) | Mr Amit Kumar (Reg 20201144)  Mr Bijay Sharma (Reg 20201145) |
| 5 | Organizing Unit | NIC Bangalore, India |
| 6 | Language of the Document | English |
| 7 | Abstract | Routing is perhaps the biggest challenge in Wireless network due to the fact that the participating nodes are dependent on battery power. |
| 8 | Security Classification | General |
| 9 | Distribution Statement | General |

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