**CERTIFICATE**

This is to certify that Subrat Swain a student of MCA 3rd Semester, bearing Registration no. 2105107097, has successfully presented a seminar on the topic “Human Area Network” and submitted the report for the same under the guidance of Mr. S.S.G Mishra for the session of 2023.

Mrs. Rajalaxmi Mishra

HeHead of the Department MCA

Head of the Department MCA

**ACKNOWLEDGEMENT**

First of all, I am indebted to the GOD ALMIGHTY for giving me an opportunity to excel in my efforts to complete this seminar on time.

I am extremely grateful to College Principal, COLLEGE OF IT AND MANAGEMENT EDUCATION, BHUBANESWAR and HOD, Department of MCA for providing all the required resources for the successful completion of my seminar. My heartfelt gratitude to my seminar guide Mr. S.S.G Mishra, of MCA Dept., for his valuable suggestions and guidance in the preparation of the seminar topic. I express my thanks to all the faculty members of MCA Dept. for their persistent and selfless help during the preparation of my seminar presentation and report. I am thankful to all my friends for their constant support in bringing out this seminar successfully in time. I will be failing in duty if I do not acknowledge with grateful thanks to the authors of the references and other literatures referred to in this seminar. Last but not the least; I am very much thankful to my parents who guided me in every step which I took.

Student Name:- Subrat Swain

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**DECLARATION**

I hereby declare that the work, which is being presented in the seminar report on Topic “HUMAN AREA NETWORK” in partial fulfillment for the award of MCA Degree and submitted to the Department of MCA, College of IT and Management Education, Biju Pattanaik University Of Technology is a record of my own investigations carried under the Guidance of Mr. S.S.G Mishra, Department of MCA, CIME. I have not submitted the matter presented in this report anywhere for the award of any other Degree.

Student Name:-Subrat Swain

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**ABSTRACT**

This project is a new human area networking technology that uses the surface of the human body as a safe and network transmission path. For this communication uses the minute electric field emitted on the surface of the human body. Technically, it is completely distinct from wireless and infrared. A transmission path is formed at the moment a part of the human body comes in contact with a transceiver. Physically separating ends the contact and thus ends communication. This communication starts when terminals carried by the user or embedded in devices are linked in various combination according to the user’s natural, physical movements. Communication is possible using any body surface, such as the hands, fingers, arms, feet, face or legs. This block is to generate the data which is to be transmitted; the transmitting data is generated and displayed through LCD by microcontroller. The generated data is given to the ac signal generator which converts the signal which the human body can transmit as a medium. The human body is connected to the gadget through the electrode which can be fixed anywhere in the human body. On the other side another electrode is used to receive the data through human body and coverted to digital signal. The converted digital signal is transmitted through IR to the HAN RX. This block receives the transmitted signal through IR receiver and data is given to the ac signal generator which converts the signal which the human body can transmit as a medium.

Guided By: Submitted By:

Mr. S.S.G Mishra Subrat Swain

MCA 3rd Semester

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