

National Institute of Technology Puducherry, Karaikal

An Institution of National Importance under the Ministry of Education, Government of India Thiruvettakudy, Karaikal, Union Territory of Puducherry, 609 609, India

2nd National Conference on Communication Systems (NCOCS-2020)

in association with



Indian Society for Technical Education Under the Societies Registration Act XXI of 1860 New Delhi, India

The Institution of Engineers (India) Established 1920, Incorporated by Royal Charter 1935 Puducherry State Centre, Puducherry

Certificate

This is to certify that Ch. Manohar Kumar has authored and presented a research paper entitled Study of Patch Antenna Performance by Varying Structure and Positions of Metamaterials in its Ground Plane, in the 2nd National Conference on Communication Systems (NCOCS-2020), organized by the Department of Electronics and Communication Engineering, National Institute of Technology Puducherry, Karaikal, on November 21, 2020.

Dr. R. Boopathi Rani Secretary

Dr. V. P. Harigovindan Dr. G. Lakshmi Sutha Secretary

Chairperson

Prof. K. Sankaranarayanasamy Director, NIT Puducherry, Karaikal



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This is to certify that **Phaneendra Kumar Chebrolu** has authored and presented a research paper entitled **Collision Probability and Throughput Examination of DSME-based Internet of Things Networks**, in the 2nd National Conference on Communication Systems (NCOCS-2020), organized by the Department of Electronics and Communication Engineering, National Institute of Technology Puducherry, Karaikal, on November 21, 2020.

Dr. R. Boopathi Rani Secretary

Dr. V. P. Harigovindan Secretary

Dr. G. Lakshmi Sutha Chairperson **Prof. K. Sankaranarayanasamy** Director, NIT Puducherry, Karaikal