

Certificate

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The thesis entitled "GEODETIC AND DETOUR CONCEPTS IN GRAPHS" submitted to Manomaniam Sundaranar University, Tirunelveli, by Mr. S. V. ULLAS CHANDRAN (Reg.No. 2811) for the award of the Degree of Doctor of Philosophy in Mathematics, is a record of *bonafide* research work done by him under my guidance. This thesis has not been submitted for the award of any degree or diploma or associateship or fellowship of any other University or Institution.

Palayamkottai

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(Dr. A. P. SANTHAKUMARAN)