



Sri Dharmasthala Manjunatheshwara College
(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State



SRINIVAS UNIVERSITY

(PRIVATE UNIVERSITY ESTABLISHED UNDER KARNATAKA STATE ACT NO 42 OF 2013)

City Office : G.H.S. Road, MANGALURU - 575 001, Karnataka State, INDIA.

Phone No.: 0824-2425966, 2444891, Fax : 0824 - 2442766

E-mail: info@srinivasuniversity.edu.in website: www.srinivasuniversity.edu.in

DEPARTMENT: RESEARCH AND INNOVATION COUNCIL



CERTIFICATE

Mukka
15.09.2023

This is to certify that Miss **HASHMITHA K. R.**, second year M. Sc. (Chemistry) Student of S.D.M. College (Autonomous), Ujire - 574240, INDIA, has carried out research work in the Department of Chemistry, Institute of Engineering and Technology, Srinivas University Mangalore, Mukka Campus, during 16.08.2023 to 15.09.2023.

She has worked on the synthesis of high-conductivity carbon, under different conditions of preparation, using different types of naturally available biomaterials (agricultural bio-wastes) through a simple synthesis procedure, under the guidance of Prof. Vasudeva Bhat of our Institute.

She has been successful in converting dried green leaves from Money plants which are low cost, locally available bio-mass, into porous, graphene-like carbon - a highly useful nanomaterial - using a simple pyrolysis technique. The oven-dried raw material, which shows resistances in the range of mega ohms, gets converted into high-conductivity carbon, exhibiting resistances comparable to that of a reference sample (commercial graphite powder), under similar geometries for sample and the references during measurements. These porous carbons have potential use as electrode materials in supercapacitors which are expected to be high-performance, energy storage devices.

She is excellent in carrying out research work individually as well as collectively in a group.

We wish Miss Hashmitha K. R. all the best in her future education and carrier.

(Prof. Dr. B.M. Praveen)

Research Director of Srinivas University and

HOD, Dept. of Chemistry, Institute of Engineering and Technology, Srinivas University Mangalore, Mukka Campus, 574146.

Director

Research and Innovation Council

Srinivas University

Mukka, Mangaluru - 574 146

Registered Office : Srinivas Campus, Srinivas Nagar, Mukka, Surathkal, MANGALURU - 574 146
Karnataka State, INDIA. Website: www.srinivasuniversity.edu.in, E-mail: info@srinivasuniversity.edu.in