

CERTIFICATE



भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान
(वि. अ. आयोग अधिनियम 1956 की धारा 3 के अधीन मानित विश्वविद्यालय स्वीकृत)
भारत सरकार, अंतरिक्ष विभाग, वलियमला पोस्ट, तिरुवनंतपुरम 695 547 भारत



www.iist.ac.in

INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY

(A Deemed to be University u/s 3 of the UGC Act, 1956)
Government of India, Department of Space
Valiamala P. O., Thiruvananthapuram 695 547 India

Certificate

This is to certify the project work *Improving the classification accuracy of coastal mangroves using Sentinel 2 data fused with Google Earth Images* is a bonafide work carried out by Mr. Adithy R. under my supervision and guidance from the Indian Institute of Space science and Technology (IIST) during March-May 2021. The work has not formed or a part of any thesis or project nor has been published before.

Samir Mandal
23/08/2021

Dr. Samir Mandal

Head of the Department
Department of Earth and Space Sciences
भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान
Indian Institute of Space Science and Technology
अंतरिक्ष विभाग, भारत सरकार
Dept. of Space, Govt. of India
तिरुवनंतपुरम / Thiruvananthapuram

Department of Earth and Space Science

L. Gnanapazham
22/06/2021

Dr. L Gnanapazham

Associate Professor

Associate Professor
Department of Earth and Space Sciences
भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान
Indian Institute of Space Science and Technology
अंतरिक्ष विभाग, भारत सरकार
Dept. of Space, Govt. of India
तिरुवनंतपुरम / Thiruvananthapuram



Indian Institute of Space Science and Technology

Department of Space, Government of India
(A Deemed to be University u/s 3 of the UGC Act 1956)
Valiamala P.O., Thiruvananthapuram - 695 547, KERALA
Tel: 0471-2568519
Email: rao@iist.ac.in

CERTIFICATE

This is to certify that the project work "**exploring the impact of flood on the riparian vegetation using remote sensing: a case study on Bharathapuzha**" is a bonafide work carried out by Ms. Angel P A (Reg. No. 190220002), St. Albers College, Ernakulam, Kerala under my supervision and guidance during February-April 2021, in partial fulfilment for the award of the degree of Master of Science in Space Science and Technology. The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.

A handwritten signature in blue ink, reading "Rama Rao Nidamanuri", with a horizontal line underneath.

Dr. Rama Rao Nidamanuri

Professor (Remote Sensing & Image Processing)
Department of Earth and Space Sciences

Dated

Place: Thiruvananthapuram

CERTIFICATE

This is to certify that the project "Morphological Analysis of Necho crater on the Far side of the Moon" embodies the work done by Anjana R, student of the Department of Space science and Technology, St. Albert's College (Autonomous), Ernakulam for a period during 2019-2021 under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Science in Space science and Technology.

Rajc/VJ
11/08/2021

Dr. V J Rajesh

Associate Professor,

Department of Earth and Space Sciences

Indian Institute of Space science and Technology,

Thiruvananthapuram



CERTIFICATE



Indian Institute of Space Science and Technology

Department of Space, Government of India
(A Deemed to be University u/s 3 of the UGC Act 1956)
Valiamala P.O., Thiruvananthapuram - 695 547, KERALA
Tel: 0471-2568519 Fax: 0471 2568462
Email: rao@iist.ac.in

CERTIFICATE

This is to certify that the project work "forest fragmentation analysis using remote sensing & GIS technique: a case study of Pathanamthitta district" is a bonafide work carried out by Ms. Anna Rincy. St. Albers College, Ernakulam, Kerala under my supervision and guidance during February-April 2021, in partial fulfilment for the award of the degree of Master of Science in Space Science and Technology. The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.

A handwritten signature in black ink, appearing to read "Rama Rao", with a horizontal line underneath.

Dr. Rama Rao Nidamanuri

Professor (Remote Sensing & Image Processing)
Department of Earth and Space Sciences

Date: 18-06-2021

Place: Thiruvananthapuram



Indian Institute of Space Science and Technology

Department of Space, Government of India
(A Deemed to be University u/s 3 of the UGC Act 1956)
Valiamala P.O., Thiruvananthapuram - 695 547, KERALA
Tel: 0471-2568519 Fax: 0471 2568462
Email: rao@iist.ac.in

CERTIFICATE

This is to certify that the project work "WATER QUALITY ESTIMATION IN VEMBANADU LAKE USING HYPERSPECTRAL REMOTESENSING" is a bonafide work carried out by Ms.GEETHU D (Reg. No: 1902200006), St. Albers College, Ernakulam, Kerala under my supervision and guidance during February-April 2021, in partial fulfilment for the award of the degree of Master of Science in Space Science and Technology. The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.

Dr. Rama Rao Nidamanuri

Professor (Remote Sensing & Image Processing)
Department of Earth and Space Sciences

Dated

Place: Thiruvananthapuram



भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान

(वि.अ.आयोग अधिनियम 1956 की धारा-3 के अधीन मानित विश्वविद्यालय घोषित)

भारत सरकार, अंतरिक्ष विभाग, वलियमला पोस्ट, तिरुवनंतपुरम 695 547 भारत



www.iist.ac.in

INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY

(A Deemed to be University u/s 3 of the UGC Act, 1956)

Government of India, Department of Space

Vallamala P. O, Thiruvananthapuram 695 547 India

Certificate

This is to certify the project work *A Study on Coastal Mangroves Along the West Coast of India* is a bonafide work carried out by Ms. Kavitha K under my supervision and guidance from the Indian Institute of Space science and Technology (IIST) during March-May 2021. The work has not formed or a part of any thesis or project nor has been published before.

Samir Mandal
23/06/2021
Dr. Samir Mandal

Head of the Department
मुख्य अंतरिक्ष विज्ञान विभाग
Department of Earth and Space Sciences
भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान
Indian Institute of Space Science and Technology
अंतरिक्ष विभाग, भारत सरकार
Dept. of Space, Govt. of India
तिरुवनंतपुरम / Thiruvananthapuram - 695 547
Department of Earth and Space Science

L. Gnanappazham
23/06/2021
Dr. L Gnanappazham

Associate Professor

Associate Professor
Department of Earth and Space Sciences
Indian Institute of Space Science and Technology
Vallamala P. O, Thiruvananthapuram - 695 547 India



Indian Institute of Space Science and Technology

Department of Space, Government of India
(A Deemed to be University u/s 3 of the UGC Act 1956)
Valiamala P.O., Thiruvananthapuram - 695 547, KERALA
Tel: 0471-2568519 Fax: 0471 2568462
Email: rao@iist.ac.in

CERTIFICATE

This is to certify that the project work "Estimation of land surface temperature and analysis of urban heat island using remote sensing images in Ernakulum, Kerala" is a bonafide work carried out by Ms.Mithula T M (Reg. No: 1902200008), St. Albers College, Ernakulam, Kerala under my supervision and guidance during February-April 2021, in partial fulfilment for the award of the degree of Master of Science in Space Science and Technology. The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.

Dr. Rama Rao Nidamanuri

Professor (Remote Sensing & Image Processing)
Department of Earth and Space Sciences

Dated

Place: Thiruvananthapuram