



GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA, 671123

www.gck.ac.in



NAAC 3RD CYCLE ACCREDITATION

**ADD ON COURSE IN REMOTE SENSING
AND
GEOLOGICAL MAPPING**



GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA 671123

04994 256027

principalgcksd@gmail.com

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Add on Course on

BASIC COURSE ON REMOTE SENSING AND GEOLOGICAL MAPPING

(2019-20)

Duration: 30 hours

Number of participant: 15

List of the students enrolled

<u>SI No</u>	<u>Name of the student</u>	<u>Department</u>
1	AISWARYA K NAIR	1 st M Sc Geology
2	ANUPRIYA	1 st M Sc Geology
3	FATHIMATH SUHRA	1 st M Sc Geology
4	REVATHI V	1 st M Sc Geology
5	SAJINA V	1 st M Sc Geology
6	SAYANA C	1 st M Sc Geology
7	SNEHA A V	1 st M Sc Geology
8	ATHUL P S	1 st M Sc Geology
9	NILA ASOKAN	1 st M Sc Geology
10	GOPIKA GOPI	1 st M Sc Geology
11	SAJITHA	1 st M Sc Geology




Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

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Curriculum

Course outcomes (CO)

- Develop scientific knowledge the basics of Remote sensing
- Understand fundamentals of systematic mapping.
- Develop skill development capabilities in Remote sensing and mapping

Remote Sensing and Basic Geological Mapping

Module I

Remote Sensing and its components. Passive and active remote sensing. Electromagnetic Radiation and Spectrum. Black body radiation. Planck's law and Stefan Boltzmann law. Scattering of EMR. Reighleigh, Mie, Non Selective and Raman scattering.

(6 hrs)

Module II

Interaction of EMR with atmosphere. Energy interaction with earth's atmosphere. Concept of atmospheric window. Reflectance of soil, vegetation and water. Ideal remote sensing system.

(7 hrs)

Module III

Passive and active sensing remote sensing. Areal and space remote sensing. Sun synchronous and Geosynchronous systems. Types of sensors. – Spectral, Spatial, Thermal and Radiometric sensor. Multi spectral scanners. Remote sensing satellites – IRS, IKONOS and Quickbird

(7 hrs)

Module – IV

Basics of mapping. Concept of scale. Tools for mapping. Bronton and clinometer. Toposheets, Aerial photographs and Satellite imageries. Surface and subsurface geological mapping. Identification and mapping of Geological units.

(6 hrs)




Name and Signature of the Principal
Dr. Ananthapadmanabha A.I.




Model Certificate:

DEPARTMENT OF GEOLOGY
GOVERNMENT COLLEGE KASARAGOD

This certificate is awarded to

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for successfully completing of certificate course on
REMOTE SENSING AND GEOLOGICAL MAPPING
during the academic year 2019-20

HEAD OF THE DEPARTMENT

HEAD OF THE INSTITUTION




Name and Signature of the Principal
Dr. Ananthapadmanabha A.I.

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