



GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA, 671123

www.gck.ac.in



NAAC 3RD CYCLE ACCREDITATION

**ADD ON COURSE ON
BASIC GEOINFORMATICS AND Q-GIS**



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VIDYANAGAR, KASARAGOD, KERALA 671123

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Add on Course on

BASIC GEOINFORMATICS AND Q-GIS

(2021-22)

Name of the add on course

- Certificate course on Basic Geoinformatics and QGIS.
- Geoinformatics
- Duration: 30 hours
- Number of participant: 30

List of the students enrolled

SI NSo	Name of the student	Department
1	SHARATHRAJ	1 st M Sc Geology
2	ARCHANA KRISHNAN	1 st M Sc Geology
3	SHRUTHI MAYYA	1 st M Sc Geology
4	DIYA RAJEEV	1 st M Sc Geology
5	P V DHANYA UNNNI	1 st M Sc Geology
6	NEETHU N	1 st M Sc Geology
7	VYSHNAVI P	1 st M Sc Geology
8	MINNA SHAW	1 st M Sc Geology
9	KIRAN RAMAKRISHNAN	1 st M Sc Geology
10	VINAY V R	1 st M Sc Geology
11	NIVEDITHA P	1 st M Sc Geology
12	AKSHA JOSHVA	1 st M Sc Geology
13	SONU B R	1 st M Sc Geology
14	JAFNA MINNATH	1 st M Sc Geology



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

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Curriculum

Objective

The add on course in Geoinformatics will be offered to the final year B.Sc. and M.Sc. Geology students to equip them to acquire a technical skill in using various spatial data analysis tools. Geoinformatics is an edge cutting technology in the field of spatial data analysis which has ample job opportunities in different sectors. At the end of the course an examination will be conducted. Marks obtained by the candidates in both practical and theory examination will be considered for the final result. To pass the examination the candidate must secure at least 40% of aggregate marks both in theory and practical examinations. Certificate will be issued by the Department to the candidate who has been declared at the examination.

Course outcome

- Enhance the employability in the field of geo informatics
- Skill development for the online GIS service

Geoinformatics

Module I

GIS – Basic concept and terminology. Spatial and non- spatial data. Vector and raster data. Concept of Datum and Different coordinate systems. Components of GIS – hardware and software. Proprietary and open source GIS

(5 hrs)

Module II

Vector data collection and creating vector data files. Geo referencing. Attribute table creation and editing. Symbolology and labeling. Spatial data input and editing.

(4 hrs)

Module - III

Spatial Analysis – Geo-statistical analysis - Proximity analysis (buffering) - Overlay analysis – density analysis -

Network analysis - Multi-criteria analysis - Site suitability analysis - Nearest neighbor analysis - Thiessen polygons - Surface mapping - Interpolation (including TIN) - Digital elevation model



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(DEM) - Terrain reclassification – Slope, aspect, angle of incidence. - Visibility (view shed) analysis. (8 hrs)

Module IV

Hands on training on use of various spatial analysis tools in Open source and commercial GIS software. Case studies.

(7hrs)




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**DEPARTMENT OF GEOLOGY
GOVERNMENT COLLEGE KASARAGOD**

This is to certify that Mr/Miss

NAME

is successfully completed the certificate course on Basic
Geoinformatics and open GIS

HEAD OF THE DEPARTMENT

HEAD OF THE INSTITUTE



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

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