

GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA, 671123www.gck.ac.in



NAAC 3RD CYCLE ACCREDITATION

ADD ON COURSE ON BASIC GEOINFORMATICS AND Q-GIS



GOVERNMENT COLLEGE KASARAGOD

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



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

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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

Geoinformtics

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. Symbology 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 - Thiesser 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

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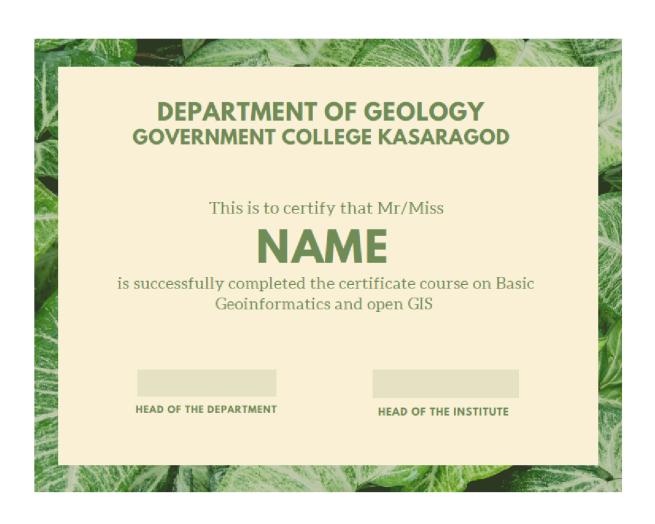
Hands on training on use of various spatial analysis tools in Open source and commercial GIS software. Case studies.

(7hrs)

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