

Date: 5th October 2020

NOTICE ONLINE - QGIS Training Report – VAT-78

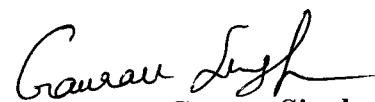
Career Development Centre in association with Department of Mechanical Engineering provides an opportunity to our students to learn QGIS Software.

Details as follows:

Branch/Year	CE 3rd Year
Organizer Department	Career Development Centre & Department of Civil Engineering
Date	13th October-2nd November 2020
Course Duration	40 Hours
Timings	4:00 PM – 6:00 P.M.
Course Coordinator	Mr. Vibhor Sharma & Ms. Mansha Swami
Venue	Online on MS TEAM

Note:

1. The training will run in online mode (till further notice) on MS Team. Students will be assigned batch (as per the schedule) and will be added to their respective MS Teams.
2. It is suggested to all the above-mentioned students to attend the training (detailed schedule will be shared in your respective batch on MS Team).
3. The Department concerned shall notify the details about timings and MS Team batch of the training sessions. In case of any query please contact the Career Development Centre, DIT University.



Gaurav Singh
Head- Career Development Centre

To :

All Dean / Director / Head of Department

Chairman

Chancellor

Vice Chancellor

Pro Vice Chancellor

Manager Admin / HR Department

Head -CDC
Career Development Cell
DIT University, Dehradun

For information please



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DIT University, Dehradun

VAT 78- Technical Training-QGIS for B.Tech-Civil Engineering Students (Online)

Course: -B. Tech.CE-3rd Year

Venue:- Vishveshwarya-101

Conducted By- Cetpa Infotech Pvt. Ltd.

Date:-13th October – 2nd November 2020

Duration:-40 Hrs.

Timings:- 4:00 PM-6:00 PM

Description

Do you need to use GIS and spatial analysis in your work but don't know how to apply these analyses and don't know software to use for GIS-related work?

Do you find GIS books and QGIS manuals not practical and looking for a course that takes you by hand, teach you all the concepts, and get you started on a real-life GIS project?

Quantum GIS (QGIS) is an **open-source Geographic Information System** that supports most geospatial vector and raster file types and database formats. The program offers wide GIS functionality, with a variety of mapping features and data editing. This enables cutting-edge, global-scale analysis and visualization.

The course provides you with all the necessary theoretical knowledge and practical skills to implement **PRACTICAL GIS analysis** in QGIS software starting with the basics concepts of GIS and Remote Sensing and equipping you with all necessary knowledge and skills to implement your own independent **GIS and Remote Sensing analysis in great QGIS open-source software!**


Requirements

- Students need no prior knowledge of GIS or QGIS
- Computer using basics (if You know where is right mouse button You're good to go)

This fundamental course is designed to equip you with the theoretical and practical knowledge of applied GIS analysis.

By the end of the course, you will:

- Learn how to install QGIS and work with QGIS and its plug-ins: Semi-Automatic Classification Plug-in (SCP), TrendsEarth, Google Earth Engine plug-in, SAGA and OTB processing toolboxes etc
- Feel confident and completely understand the basics of GIS and Remote Sensing and its main components,
- Learn all basics and core GIS data operations (vector and raster data as well as satellite imagery) and learn how to conduct GIS projects.


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CETPA INFOTECH PVT. LTD. DEHRADUN

ISO 9001:2015 CERTIFIED

1. Course Introduction

1.1. Foreword

1.2. Preparing Exercise Data

2. Module: The Interface

2.1. Lesson: A Brief Introduction

2.2. Lesson: Adding your first layer

2.3. Lesson: An Overview of the Interface

3. Module: Creating a Basic Map

3.1. Lesson: Working with Vector Data

3.2. Lesson: Symbolology

4. Module: Classifying Vector Data

4.1. Lesson: Attribute Data

4.2. Lesson: The Label Tool

4.3. Lesson: Classification

5. Module: Creating Maps

5.1. Lesson: Using Map Composer

5.2. Assignment 1

6. Module: Creating Vector Data

6.1. Lesson: Creating a New Vector Dataset


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14.2. Analyze the data

14.3. Final Map

15. Module: Forestry Application

15.1. Lesson: Forestry Module Presentation

15.2. Lesson: Georeferencing a Map

15.3. Lesson: Digitizing Forest Stands

15.4. Lesson: Updating Forest Stands

15.5. Lesson: Systematic Sampling Design

15.6. Lesson: Creating Detailed Maps with the Atlas Tool

15.7. Lesson: Calculating the Forest Parameters

15.8. Lesson: DEM from LiDAR Data

15.9. Lesson: Map Presentation

16. The QGIS processing guide

16.1. Introduction

16.2. An important warning before starting

16.3. Setting-up the processing framework

16.4. Running our first algorithm. The toolbox

16.5. More algorithms and data types

16.6. CRSs. Reprojecting

16.7. Selection

16.8. Running an external algorithm

16.9. The processing log

16.10. The raster calculator. No-data values

16.11. Vector calculator

16.12. Defining extents

17. Module: Using Spatial Databases in QGIS

17.1. Lesson: Working with Databases in the QGIS Browser

17.2. Lesson: Using DB Manager to work with Spatial Databases in QGIS

17.3. Lesson: Working with spatialite databases in QGIS


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Annexure - II

Value added course Details (Academic Year: 2020-21)

VAT Course Name: Q-GIS Training

VAT Code: VAT 78

Duration in Hours: 40

Number of Students Enrolled: 69

Number of Students Completed: 65


Verdict
Head of Institute
Career Development Cell
University, Dehradun

Grades: G= GOOD ; S = Satisfactory ; P = Poor ; W = Withdrawn

Student ID	Student Name	Program/Course	Year	Passing Grade
190101906	GAURAV DUBEY	BTCE	3rd Year	S
190101931	BANI CHAUHAN	BTCE	3rd Year	G
190101927	VISHAL RAWAT	BTCE	3rd Year	S
190101929	MOHD AMAAN AZEEM	BTCE	3rd Year	S
180101015	ALI ABID	BTCE	3rd Year	G
190101908	MD SAYED FARHAN	BTCE	3rd Year	G
190101924	PRAVESH UNIYAL	BTCE	3rd Year	S
190101923	SAIF MALIK	BTCE	3rd Year	S
180101022	SPARSH PARMAR	BTCE	3rd Year	S
190101925	SACHIN NEGI	BTCE	3rd Year	P
190101933	SHUBHAM RAWAT	BTCE	3rd Year	G
180101031	SURYA PRATAP	BTCE	3rd Year	S
190101932	MUKUL NEPANE	BTCE	3rd Year	S
180101008	JAIKRIT SHARMA	BTCE	3rd Year	G
190101926	LALIT GAUR	BTCE	3rd Year	G
180101034	VIKUL .	BTCE	3rd Year	S
190101903	DIKSHANT BISHT	BTCE	3rd Year	S
190101907	GAURAV KATHAIT	BTCE	3rd Year	G
190101904	ARYAN KUMAR RAJ	BTCE	3rd Year	S
190101922	ABHISHEK SHARMA	BTCE	3rd Year	S
170101024	NALINESH KUMAR	BTCE	3rd Year	G
190101930	JITENDRA SINGH NEGI	BTCE	3rd Year	S
190101920	RAJAT PUROHIT	BTCE	3rd Year	S
190101928	SUMIT SINGH PUNDIR	BTCE	3rd Year	G
180101041	NEETLAKSH MANOHAR ARUN	BTCE	3rd Year	P
190101921	AYUSH BISHT	BTCE	3rd Year	S
190101910	KANISHK PUNDIR	BTCE	3rd Year	S
180101050	VIJAYANT SRI MAHIKA	BTCE	3rd Year	S
190101909	ABDUL AZIZ	BTCE	3rd Year	G
180101004	ANURAG KUMAR	BTCE	3rd Year	G
180101021	SIDDHARTH SRIVASTAVA	BTCE	3rd Year	S
180101035	AKSHAT BISHT	BTCE	3rd Year	S
190101902	SUMIT SINGH SINWAL	BTCE	3rd Year	P
180101033	SHOEB MALIK	BTCE	3rd Year	G
180106025	HARSHIT SAHNI	BTCE	3rd Year	S
190101905	RAVISHANKAR SINGH RAWAT	BTCE	3rd Year	S
190101911	AKANKSHA RAWAT	BTCE	3rd Year	G
190101900	H YUVAN SUHATH	BTCE	3rd Year	S
180101044	SIDDHANT KATHAYAT	BTCE	3rd Year	P

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180101047	ABHISHEK KUMAR	BTCE	3rd Year	G
180101027	MRIDUL JAIN	BTCE	3rd Year	S
180101002	AKSHAY BHATIA	BTCE	3rd Year	S
180101032	PAWAN TIWARI	BTCE	3rd Year	G
180101010	LAKSHAY DAYAL	BTCE	3rd Year	G
180101026	ANUJ KOTWAL	BTCE	3rd Year	S
180101036	MANAV RENU	BTCE	3rd Year	S
180101016	LAKSHAY SHARMA	BTCE	3rd Year	S
180101001	MAYANK DHIMAN	BTCE	3rd Year	G
190102905	KM. PRATIBHA	BTCE	3rd Year	G
180101017	NITIN BHATT	BTCE	3rd Year	S
180101043	HIMANSHU SINGH	BTCE	3rd Year	S
180101029	ARJUN DEV SINGH	BTCE	3rd Year	G
180101006	ASHUTOSH NAUTIYAL	BTCE	3rd Year	G
180101042	HIMANSHU RAI	BTCE	3rd Year	S
180101030	PRINCE SAINI	BTCE	3rd Year	S
180101019	ARPAN AGRAWAL	BTCE	3rd Year	G
180101023	ANIRUDDHA REANG	BTCE	3rd Year	S
180101014	AMIT SINGH RAWAT	BTCE	3rd Year	S
180101007	ATUL LOHANI	BTCE	3rd Year	G
180101046	ROHIT S BISHT	BTCE	3rd Year	S
180101024	ASMIT KUMAR SINGH	BTCE	3rd Year	S
180113033	SACHIN GANDASH	BTCE	3rd Year	G
180101018	HEMANT CHAURASIA	BTCE	3rd Year	G
180111038	SARITA BISHT	BTCE	3rd Year	S
180101028	MEGHA KUKRETI	BTCE	3rd Year	S
180101009	RIYA MITTAL	BTCE	3rd Year	S
180101048	VIKASH DEVLAL	BTCE	3rd Year	G
180101012	RAMANDEEP PHARSWAN	BTCE	3rd Year	G
180101037	DIVYANSHU RAWAT	BTCE	3rd Year	S


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