SGTU/FEAT/CE-151
Dated: 10 September 2022

To

The Registrar
SGT University, Gurugram

Subject: Permission to organize a **Hand-on-Workshop Session-II (SDP)** on **"Advance Features of QGIS Software"**, on **14 September 2022**.

Respected Sir,

On behalf of the Department of Civil Engineering, SGT University, we would like to request you permit us for organizing a **Hand-on-Workshop Session-II (SDP)** on **"Advance Features of QGIS Software"**, under the aegis of **Torque Club, on 14 September 2022, at Room No. G12 (Geospatial Research Laboratory), E-Block, SGTU,** for the students of the Faculty of Engineering & Technology, SGTU. This SDP will advance the knowledge of students in the domain of QGIS software. Kindly consider the request and give valuable permission for the same.

No financial commitments are involved in this session.

Date: 14 September 2022
Timing: 02.00-04.00 PM
Hand-on-Workshop Session-II (SDP) Speaker: Dr. Aditya Kapoor

With Best Regards

10/09/22

Dr. Aditya Kapoor (AP-CE)

10/9/22

Dr. Neeraj Saini (HOD CE)

DEAN (FEAT)

Approved

Dean FEAT

Registrar
SGT University,
Budhera, Gurugram

SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved University)   GURGAON, Delhi-NCR

Department of Civil Engineering,

Faculty of Engineering & Technology

"Advanced Features of QGIS Software"

Type of event: Hands-on-Workshop

Date: 14/09/2022

Time: 02:00 PM to 04:00 PM

Geospatial Research Laboratory, Ground floor, E-Block

HOD & Assistant Professor, Department of Civil Engineering, FEAT.

or, Assistant Professor, Department of Civil Engineering, FEAT.

Monika Deshwal (Assistant Professor, Department of Mechanical

AT).

Kaushal Sharma (Assistant Professor, Department of Civil Engineering,

isor: Mr. Asad Habeeb (Assistant Professor, Mechanical Engineering

T).

Information System (GIS) is a system that helps to capture, manage,

ze spatial data. This system has been used for the last 200 years to solve

such as efficient telecom network design, hotspot analysis, algorithm

However, with the advent of computers, GIS is being implemented

digitally with the use of sophisticated software. Such software broadly falls under two categories— commercial and open source. In the present era, the open-source software [...] is gaining traction on the account of its customizability and community-driven approach. The most commonly used open-source software in the domain of GIS is QGIS (commonly known as Quantum GIS). Its knowledge can greatly enhance the skills of the students which will greatly enhance their employability of students.

In light of this discussion, the Department of Civil Engineering, FEAT under the aegis of the [...] club, organized a **hands-on-workshop** titled **'Advanced Features of QGIS software'** for students of FEAT and FASC on 14th September 2022 from 2 PM to 4 PM [...] al research laboratory, Ground floor of E-block. The session started with a re[...] previous session in which they were familiarized with historical application [...] IS, basic functionalities of QGIS software such the tabs, icons, setting the d[...] and some advanced capabilities of QGIS such as vector and raster files. Previ[...] were also instructed about the procedure to add base maps from online repos[...] download the topographical maps from the online repository of US Army [...]

In thi[...] the students were familiarized with the procedure of obtaining updated raster [...] google earth pro software. Then, they were instructed to add three types of vec[...] to the raster image- points, vector, and polygon. Subsequently, they were taugh[...] procedure of editing the properties of these layers.

About [...] er/Guest:

Dr. A[...] oor is an Assistant Professor at the Department of Civil Engineering, FEAT [...] ed his Ph.D. degree from IIT Ropar. During his Ph.D. and bachelor's, he extens[...] ked with GIS software such as QGIS and ArcGIS. Additionally, he under[...] nonth QGIS certificated training course organized by GIS Vision India Pvt. L[...] 2022.

Audi[...]

38 stud... ...merated at the end of this document) from FEAT and FASC were present in this ...

Brief ...

Geogra... ...ormation systems, or GIS, are computer systems for managing, analyzing, and di... ...geographic information and data. GIS can show many different kinds of data o... ...ap. This enables users to more easily see, analyze, and understand geogr... ...terns and relationships. An open-source software named QGIS is being extensi... ...ed by research and academic community to capture, store, manipulate, analyz... ...e. and present all types of geographical data. Its knowledge can greatly enhan... ...ll set and employability of students. With this viewpoint, the **Department of C:...** ...eering, **Faculty of Engineering & Technology, SGTU,** organized a **Hand...** ...kshop titled '**Advanced features of QGIS Software**' on **14**[th] **Septe...** ...2 from **02 pm to 04 pm** at the **Geospatial Research Laboratory, Grou...** ...**E Block** for the students of FEAT and FASC. The speaker for the session **was P...** ...**Kapoor, Assistant Professor, CE-FEAT, SGTU.** The speaker initiated the s... ...h a recap of the previous session (5th September 2022) and later demo... ...e method for downloading the latest raster file from google earth pro and 'its ge... ...g. Further, in the session, adding the three types of vector layers (shape files)- ...e. and polygon were deciphered. The speaker concluded the session with a dem... ...of altering the properties of vector layers.

Lear... ...mes:

In thi... ...he students of FEAT and FASC were enlightened about the procedure of **addin...** ...updated raster layer. Then they were instructed about the types of vector **layers** ...lines, and polygons) followed by the procedure to add them to the **work...** ...ly. the participants were familiarized with the method of editing the **prop...** ...e layers.

Bein... ...tandard software, such sessions enhance the employability of the **stude...**

Students attending Workshop on Advance Features of QGIS Software

Students implementing QGIS Software
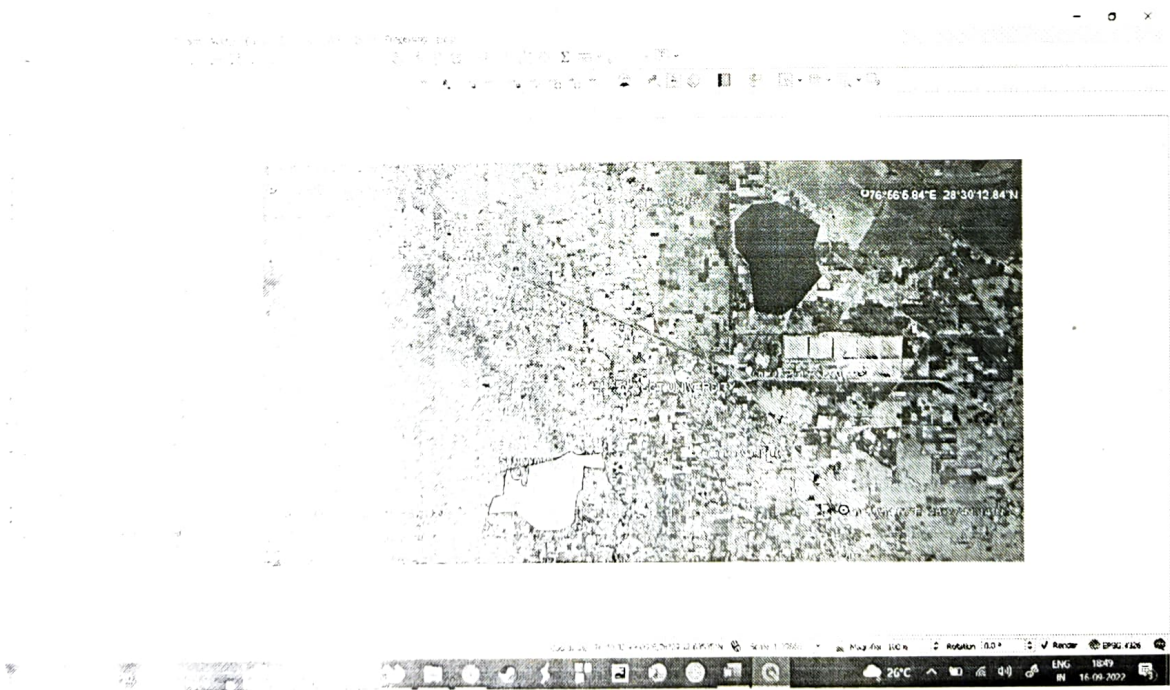
Results derived through Software

QGIS Software showing different Scenarios

List .... :

Sl. No.	....ation	Student's Name	Program
1	.2	SARA SHEORAN	B.Sc. (Hons.) Agriculture
2	.3	SHUBHAM SHARMA	B.Sc. (Hons.) Agriculture
3		ABHISHEK SHARMA	B.Sc. (Hons.) Agriculture
4		SHIKA	B.Sc. (Hons.) Agriculture
5		MRITYUNJAYA SHARMA	B.Sc. (Hons.) Agriculture
6		YASHWANI	B.Sc. (Hons.) Agriculture
7		MUSKAN	B.Sc. (Hons.) Agriculture
8		KANIKA	B.Sc. (Hons.) Agriculture
9		ANJALI SHARMA	B.Sc. (Hons.) Agriculture
		REENKI	B.Sc. (Hons.) Agriculture
		JYOTI SAINI	B.Sc. (Hons.) Agriculture

Faculty of Engineering & Technology

12	16	RUCHIKA CHHILLAR	B.Sc. (Hons.) Agriculture
		SUHAIL KHAN	B.Sc. (Hons.) Agriculture
14	20	SUCHETA	B.Sc. (Hons.) Agriculture
		SEJAL	B.Sc. (Hons.) Agriculture
		VARNIKA ARYA	B.Sc. (Hons.) Agriculture
		RAVEENA YADAV	B.Sc. (Hons.) Agriculture
		MAYANK	B.Sc. (Hons.) Agriculture
		PAYAL KATARIA	B.Sc. (Hons.) Agriculture
		POOJA	B.Sc. (Hons.) Agriculture
		NAMITA	B.Sc. (Hons.) Agriculture
		HIMANSHU YADAV	B.Sc. (Hons.) Agriculture
		SUBHAM	B.Sc. (Hons.) Agriculture
		PALLAVI	B.Sc. (Hons.) Agriculture
		RAKHI YADAV	B.Sc. (Hons.) Agriculture
		DIPESH KUMAR	B.Sc. (Hons.) Agriculture
		ANSHUL	B.Sc. (Hons.) Agriculture
		SAURABH SHARMA	B.Sc. (Hons.) Agriculture
		Vicky Rajput	B.Tech. Mechanical Engineering
		Aditya Negi	B.Tech. Mechanical Engineering
		Naman Chauhan	B.Tech. Mechanical Engineering
		Yatharth Bhardwaj	B.Tech. Mechanical Engineering
		Ayush Kumar Singh	B.Tech. Mechanical Engineering
		Harender Kumar	B.Tech. Mechanical

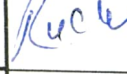|		Engineering
	Ankit Yadav	B.Tech. Mechanical Engineering
	Shubham Jha	B.Tech. Mechanical Engineering
	Kamesh	B.Tech. Mechanical Engineering
	Sharan	B.Tech. Mechanical Engineering
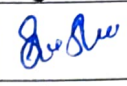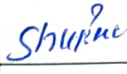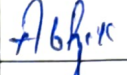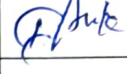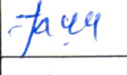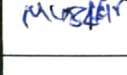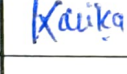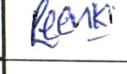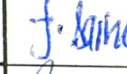
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Faculty of Engineering and Technology

Department: Civil Engineering
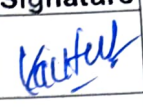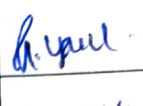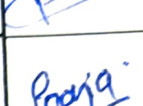
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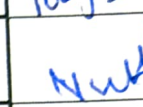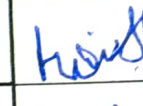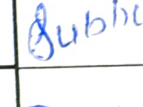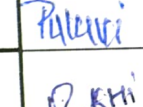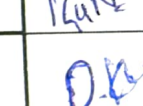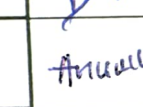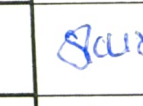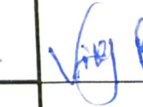
Date: 14/9/2022

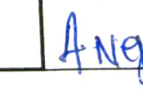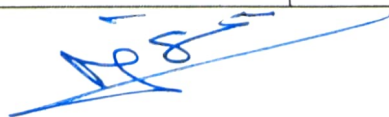| S.No	Enrollment no.	Name	Course/Semester	Signature
1	20110100☆	Sara Sheoran	B.Sc.	Saru She
2	20110100☆3	Shubham Sharma	"	Sharma
3	20110100☆4	Abhishek sharma	"	Abhik
4	20110100☆6	Ishika	"	Ishk
5	20110100☆7	mrityunjaya	"	Jayy
6	20110100☆8	Yashwani	"	Junul
7	20110100☆9	muskan	"	muskan
8	20110101☆1	Kanika	"	Kalika
9	20110101☆3	Anjali sharma	"	Ajli
10	20110101☆4	Reenki	"	Reenki
11	20110101☆5	Jyoti Saini	"	J.Saini
12	20110101☆6	Ruchika chillar	"	Ruch
13	20110101☆9	Suhail Khan	"	Sul
14	20110102☆0	Sucheta	"	Sucheta
15	20110102☆1	Seijal	"	Seijal
	Coordinator(s) (Name, Department and signature)			

Shree Guru Gobind Singh Tricentenary University Haryana
Faculty of Engineering and Technology

Department:

Date:

Event Title:

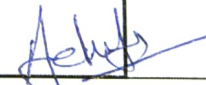| S.No	Enrollment no.	Name	Course/Semester	Signature
1	20110122	Varnika arya	B.Sc.	Varnik
2	20110123	Raveena yadav	"	Rayan
3	20110124	Mayank	"	Mayank
4	20110125	Payal kataria	"	
5	20110126	Pooja	"	Pooja
6	20110127	Namita	"	Nmta
7	20110128	Himanshu Yadav	"	Himshu
8	20110130	Subham	"	Subham
9	20110137	Pallavi	"	Pallavi
10	20110141	Rakhi yadav	"	Rakhi
11	20110149	Dipesh Kumar	"	D.Km
12	20110144	Anshul	"	Anuul
13	20110145	Saurabh sharma	"	Saurbh
14	211303001	Vicky Rajput	B. Tech.	Vij Rj
15	211303002	Aditya hegi	"	ANegi

Coordinator(s) (Name, Department and signature)

Shree Guru Gobind Singh Tricentenary University Haryana
Faculty of Engineering and Technology

Department: Civil Engineering

Event Title: Advance Feature of RGIS

Date: 14/09/22

S.No	Enrollment no.	Name	Course/Semester	Signature
1	21303003	Naman Chauhan	B.Tech.	Naman
2	21130300 4	Yatharth Bhardwaj	"	Jatindey
3	2113030005	Ayush Kumar	"	Ayoush
4	21130200 6	Harender Kumar	"	Haray
5	211303007	Ankit yadav	"	Ayan
6	21130300 8	Shubham Jha	"	Shubm
7	211303003	Kamesh	"	Kam
8	211303011	Sharan	"	Sharan
9				
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11				
12				
13				
14				
15				

Coordinator(s) (Name, Department and signature)

Dr. Aditya Kapoor
Department of Civil Engg.