Memorandum of Understanding (MoU)

between



Mantra Geosolutions

&

Vivekanand College, Kolhapur (Autonomous), Maharashtra, India



KOLHAPUR (AUTONOMOUS)

In accordance with a mutual desire to promote activities between Mantra Geosolutions, Kolhapur and Vivekanand College, Kolhapur (Autonomous), Maharashtra, India, the two institutions (organizations) agree to the following statement of intent on knowledge transfer by cultural, educational, technical, ethical and research cooperation.

Cooperation and development of activities may extend to any fields and subjects in which the two institutions may identify shared interests. The initial area of cooperation is academic and research collaborations.

The two institutions agree to cooperate in the following general areas;

1. Technical consultancy services in Hardware and software domain

2. To provide training in various areas to the employees

3. To support internship facility to students

4. Invitations extended to experts to participate in conferences and symposia.

5. Exchange of intellectual property, consultancy, corporate training, along with

knowledge transfer, academic materials, and publications in fields of mutual

interest.

Both parties agree that all financial arrangements necessary to implement this General

Agreement or any subsequent agreements must be negotiated according to the regulations of

each institution, dependent upon the availability of funds. Both parties recognize that this

General Agreement establishes a foundation of mutual understanding and interest, and does

not in itself entail any financial obligations to either organization.

This agreement for partnership, cooperation and scientific exchange shall remain in

effect for a period of five (05) years from the date of the last signature, with the

understanding that it may be terminated by either party given three (03) months written

notice to the partner institute.

This agreement may be amended with the consent of both institutions through a

written addendum executed by authorized individuals from both institutions.

Dr. Nilesh K. Susware

Chairman

Mantra Geosolutions, Kolhapur

Dr. R. R. Kumbhar

Principal

Vivekanand College, Kolhapur (Autonomous)

Witness 1

Mantra Geosolutions, Pune & Kolhapur Ambika Classic, Panchavati Colony, Talegaon Dabhade,

Pune- Maharashtra 410506, Phone: +91 – 7798447199

Email: mantrageosolutions@gmail.com

Date: 29/09/2022

Witness 2

Dr. Shruti Joshi IQAC Coordinator,

Vivekanand Gollege, Kollinger (Autonomous)

Vivekanand Collsge, Kolhapur

Vivekanand College, Kolhapur (Autonomous) C.S. No 2130 "E" ward,

Tarabai Park, Kolhapur – 416 003, India.

Phone: +91 – 0231 – 2658612 Email: info@vivekanandcollege.org

Date: 29/09/2022



Mantra

Geos 🕲 lutions

05, Ambika Classic, Panchavati Colony, Talegaon Dabhade, Pune – 410506 Contact: +91 87880 66055, Email- <u>mantrageosolutions@gmail.com</u>

Ref No. MGS/LET/36/2022

Date: 12 Oct. 2022

To,

The principal,

Vivekanand College,

Kolhapur. (Autonomous).

Subject: Request for Software Training to Company Employees from college Staff.

Respected Sir,

My name is Dr. Nilesh Susware, and I am writing on behalf of Mantra Solutions, Kolhapur to express our interest for software training program facilitated by your esteemed faculty. We are keen on providing our employees with an opportunity to enhance their skills in QGIS, Arc GIS, Erdas Imagine and Python Language and we believe that the expertise and guidance of your college teachers would greatly contribute to update their learning experience. The proposed training would ideally cover key aspects, and we are open to customizing the content based on the recommendations of your teachers. Having reviewed your College's reputation for fostering talent and providing comprehensive educational prospects, I believe this training course would greatly enhance our employee's skills and contribute to our professional growth.

We appreciate your consideration of this request and would be delighted to discuss the details further at your earliest convenience. We look forward to the possibility of working together to make this training initiative a success.

Thank you for your time and cooperation.

Thanks & Regards

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12.2.2022

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Dr. Nilesh Kamalakar Susware

Mantra Geosolutions

Mob: +91 7798447199

+91 8788066055

mantrageosolutions@gmail.com info@mantrageosolutions.com

GST No.27AAXFM8967B1ZJ

A Corporate training program on "Advanced Geospatial Technologies Training: QGIS, ArcGIS, ERDAS, and Python Integration"

Organized by
Department of Geography,
Vivekanand College, Kolhapur (Autonomous)
For Mantra Geosolutions

Program Schedule

Date: 1 November 2022 to 30 November, 2022

Sr.	Day	Topics	Time	Signature of Teacher
1.	Tuesday	Introduction to computer languageApplications of computer language	11m to 1pm	Dan's
2.	Wednesday	Applications of python languageSyntax of python and basic information about programming	11am to 1.30pm	Donfo
3.	Thursday	 Python data types Python casting Python strings Python Booleans Python operators 	11am to 4pm	Bank
4.	Friday	 Python lists Python tuples Python sets Python dictionaries Python ifelse 	11am to 4pm	Bank
5.	Saturday	 Python loops Python function Python lambda Python arrays Python 	11am to 5pm	Darle.
6.	Sunday	Holiday		
7.	Monday	 Introduction of QGIS How to Download Topo sheet from Survey of India Georeferencing How to create Shapefile Digitization (Point, Line, Polygon) Symbology and labeling 	11am to 5pm	Jas
8.	Tuesday	 Installation of ArcGIS Introduction of ArcGIS Georeferencing How to create Shapefile Digitization (Point, Line, Polygon) Symbology and labeling 	11am to 5pm	as
9.	Wednesday	QGIS And ArcGIS	11am to	



			Introduction of Map layout How to Download Shpefiles of India	5pm	12
			from DIVA GIS How to Add shape file		
		•	Map layout		
10.	Thursday	•	QGIS and ArcGIS	11am to	
		•	Analysis Tools	5pm	
		•	How to download DEM from USGS		•0
			and Bhuvan		MIT
			Add DEM		- Carrier of the Carr
		•	Merge DEM	(i	
			Clip DEM		
11.	Friday	•	Geometry Calculation	11am to	
		•	Projection Change (UTM EPSG: 32626/43N)(WGS 84)	5pm	12
		•	3D mapping		
		•	Buffer		9
		•	Multibuffer ring		
12.	Saturday	•	High Resolution Satellites information	11am to	
		•	How to download satellite images from	5pm	
			USGS AND BHUVAN		. 0
		•	Hydrology Tools		1
		•	Conversion Tools		1
			Watershed Delineation		
13.	Sunday		Holiday		
14.	Monday	•	ARC SWAT Analysis	11am to	
		•	Composite Band	5pm	20
		•	Landsat series		(he)
		•	Remote sensing process		
15.	Tuesday	(QGIS	S and ArcGIS)	10am to	
		•	Layer stacking	12pm	12
		•	Mossaic		
16.	Wednesday	•	How to export attribute in xl and how	10am to	.0
			to join excel in attribute in Arc and QGIS	12pm	1
17.	Thursday		Installation of ERDAS Software	10am to	.0
		•	Interface of ERDAS Software	1pm	
18.	Friday	•	DIP lecture	10am to	
				12pm	13
				1	Les
19.	Saturday	•	Import image (tiff to image)	10am to	M
		•	Layer stacking in ERDAS	12pm	112
20.	Sunday		Holiday		
21.	Monday	•	Mosaic in ERDAS	10am to	
				12pm	A.S.
22.	Tuesday		Image Interpretation	10am to	
22.	Tuosuay		mage merpretation	Toam to	

		 Image interpretation by using mag at field work 	12pm	Billy
23.	Wednesday	Georeferencing in ERDAS software	10am to 12pm	Auto
24.	Thursday	Image EnhancingRemove undefined value	10am to 12pm	Righter
25.	Friday	 Quick map Services in QGIS and ArcGIS 	10am to 12pm	Rido
26.	Saturday	Area of interest in ERDASImage subset by using AOIAOI by using shapefile	10am to 12pm	Pille
27.	Sunday	Holiday		
28.	Monday	Quick map services in QGIS and ArcGIS	10am to 12pm	Disha
29.	Tuesday	 Network Analysis Supervised and unsupervised lecture 	10am to 12pm	Bighey
30.	Wednesday	Interpolation in ArcGISTopology and Topology errors	10 am to 12pm	Girga
31.	Thursday	Feedback		

Dr. Shubhangi Kale Assistant Professor Dept. of Geography

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Dr. G. S. Ubale
HEAD
DEPARTMENT OF GEOGRAPHY
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)

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