		Basic GIS Mappin	g with QGIS : SEC-1			
Course Code:		Course Title: Basic GIS Mapping with QGIS	(Practical)			
Credits: 02+01		No of Lectures= 30 Hours+10 Hours	CBPBU			
ull Marks: 50 (Evaluat	ed by External Exper	t+ Lab Note book + Project+ Attendance)				
otal No. of Lectures-Tu	torials-Project (in ho	ours per week): 2-0-1				
ourse Objectives:						
1. To learn how to	navigate the QGIS in	nterface, load various types of geospatial da	ta, and create basic m	naps and visualizations.		
		tasks such as buffering, overlaying, queryin				
	build and manage g	eospatial databases, import/export data, ar				
Unit		Topic (Value in p	arenthesis indicates N	Marks)	No. of Lectures	
	1.1. Definition and ap					
Unit I	Interface, Plugins and					
QGIS	1.2. Sources of GIS D	10				
	1.3. Basic Concept of					
Unit II	2.1. Georeferencing					
Basic Operations of QGIS	2.2. Digitizing featu	10				
	Spatial query and se	10				
	2.3. Overlay operations (intersections, unions, etc.), Buffering and proximity analysis (10 Marks)					
Unit III	3.1. Creating themati	10				
Analisation of CIC		c maps using proportional diagrams (Pie and E				
Application of GIS		isualization, Importing and exporting data in v and adding map elements (10 Marks)	arious formats, Symbo	blizing and labelling spatial data,		
Unit IV	Caco Study: Drojact	Report and Viva Voce (This is an Internal Pa	rt) (10 Marke)			

Suggested Reading:

- 1. Kurt Menke, GISP, Richard Smith Jr., GISP, Luigi Pirelli (2016). Mastering QGIS Second Edition, Publisher: Packt
- 2. Tarafder Sujoy Kumar (2021). Learning GIS with QGIS Software (Paperback), A.S. Publication, Ranaghat, Nadia
- 3. Graser, Anita (2016). Learning QGIS Third Edition: Create great maps and perform Geoprocessing tasks with ease, Packt Publishing
- 4. Andrew Cutts (2019). QGIS Quick Start Guide, Packt Publishing.

Basic GIS Mapping with QGIS : SEC-2								
Course Code: Credits: 02+01		Course Title: GIS Mapping with QGIS (Pract						
		No of Lectures= 30 Hours+10 Hours CBPBU						
ull Marks: 50 (Evalua	ated by External Exp	l ert+ Internal Evaluation + Project+ Attendan	nce)					
otal No. of Lectures-	Tutorials-Project (in	hours per week): 2-0-1						
Unit		ks)	No. of Lectures					
Unit I Basic concept of Remote Sensing	1.1. Definition and 1.2. Spectral Signa 1.3. Basic Concept		10					
Unit II GIS Models and Map Layout	2.1. Image Classific 2.2. Accuracy Asset	0)	10					
Unit III Image Classification	3.1. Georeferencing 3.2. Preparation of 3.3. Preparation of		10					
Unit IV Project	Case Study: Project		10					

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- 1. Kurt Menke, GISP, Richard Smith Jr., GISP, Luigi Pirelli (2016). Mastering QGIS Second Edition, Publisher: Packt
- 2. Tarafder Sujoy Kumar (2021). Learning GIS with QGIS Software (Paperback), A.S. Publication, Ranaghat, Nadia
- 3. Graser, Anita (2016). Learning QGIS Third Edition: Create great maps and perform Geoprocessing tasks with ease, Packt Publishing
- 4. Andrew Cutts (2019). QGIS Quick Start Guide, Packt Publishing.