



FORMAT FOR COURSE CURRICULUM

L	T	P/S	SW/FW	TOTAL CREDIT UNITS
2	0	0	-	02

Course Title: Open Source Software & Its Application

Course Code: GST 731

Credit Units: 02

Course Objectives: The objective of the course is to provide students with a comprehensive and up-to-date understanding of Open Source Software and its impacts on applications, enable students to manage various projects.

Pre-requisites: Student should have Basics in Computer and programming

Student Learning Outcomes: On successful completion of this course, students will be able to:

- Critically assess the organizational benefits and challenges of developing open source software's applications;
- Explain the difference between open source Vs Proprietary software's.
- Evaluate current technologies or architectures that support open source platforms.
- Discuss the definition and history of open source software.

Course Contents/Syllabus:

	Weightage (%)
Module I	
<i>Descriptors/Topics</i> Introduction to Open Source, Current Trends and advancement in Open Source, Differences between proprietary and open source software, Types of open source software's and licenses.	30
Module II	
<i>Descriptors/Topics</i> Comprehensive concepts within Open Source domain, Different file formats and their applications, Concepts of open data and their utilization. Benefits of open source software, Freedoms of free software.	30
Module III	
<i>Descriptors/Topics</i> Overview to different open source GIS software's. Installing and configuring various Open source GIS software's. How to Download and install various Open source GIS software's.	40

Pedagogy for Course Delivery:

The course is designed to be taught through the lecture and practical mode. However, during tutorial sessions group discussions and seminar presentations on various themes related to the course may be organized. Class room interaction will definitely have to be an integral part of the learning experience.

Lab/ Practicals details, if applicable:**Assessment/ Examination Scheme:**

Theory L/T (%)	Lab/Practical/Studio (%)	End Term Examination
30 %	0	70 %

Theory Assessment (L&T):

Continuous Assessment/Internal Assessment					End Term Examination
Components (Drop down)	Class Test	Home Assignment	Presentation	Attendance	
Weightage (%)	10	05	10	05	70

Text & References:**Any other Study Material:***Journals/Online resources*

1. The Journal of Open Source Software-- <http://joss.theoj.org/about>
2. Open source software--- <https://opensource.org/>