**Curriculum Plan**

**B.A. (H) Geography**

**Semester – IV**

**Name of the Teacher: Akhilesh Kumar Mishra**

**Course: GIScience**

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| **Unit No.** | **Name of Topic**  | **Tutorial/Assignment/ Presentation etc.** | **Allocation of Lectures** | **Assessment Tasks** | **Teaching and Learning****Activity** |
| 1 | Evolution of GIScience, Institutions and GI data sharing, Geographical Information System | * Evolution of GIScience
* Institutions and GI data sharing
* Definition and Components
 | 06(From 01 January to 09 January) | Assignment | Classroom Lectures |
| 2 | Global Positioning System (GPS) | * Principles
* Uses

. | 04(From 11 January to 16 January) | Assignment and Class Test | Classroom LecturesWhiteboard DemonstrationLab Work |
| 3 | GIS Data Structures | * Data Models (Raster and Vector)
 | 04(From 18 January to 22 January) | Assignment and Mock Test | Classroom LecturesWhiteboard Demonstration |
| 4 | GIS Data Analysis | * Geo-Referencing;
* Editing,
* Output and
* Query;
* Overlays
 | 42(From 25 January to 31 March) | Assignment and Mock Test | Classroom-LecturesSoftware-Demonstration |
| 5 | Application of GIS | * Land use Mapping
* Forest Monitoring
* Urban Sprawl
 | 14( From 1 April to 26 April) | Lab Activity and Project file | Classroom LecturesLab Work |