**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 Lectures  Whiteboard Demonstration  Lab Work |
| 3 | GIS Data Structures | * Data Models (Raster and Vector) | 04  (From 18 January to 22 January) | Assignment and Mock Test | Classroom Lectures  Whiteboard Demonstration |
| 4 | GIS Data Analysis | * Geo-Referencing; * Editing, * Output and * Query; * Overlays | 42  (From 25 January to 31 March) | Assignment and Mock Test | Classroom-Lectures  Software-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 Lectures  Lab Work |