

CURRICULUM PLAN, 2025-2026

B.A. (Hons.) Geography

Semester –VII

Name of the Teacher-Dr. Usha K. Pathak and Dr. Geeta Kumari

Paper Name- Tools and Techniques in Regional Planning and Development

| <i>Unit No.</i> | <i>Name of Topic</i> | <i>Tutorial/Assignment/Presentation etc.</i> | <i>Allocation of Lectures</i> | <i>Assessment Tasks</i> | <i>Teaching and Learning Activity</i> |
|------------------------|---------------------------------------|--|--|--------------------------------|--|
| 2 | Measuring Regional Development | <ul style="list-style-type: none">• Calculating and mapping indices of HDI, GDI, PQLI at different spatial scales• Measuring regional disparity using Sopher's Disparity index• Measurement of inequality using Gini Coefficient, Lorenz Curve and Location Quotient | <i>(30) 1st Aug-15 September 2025</i> | Hands - on Exercise | Classroom Lectures, PPTs, discussions |

| | | | | | |
|---|----------------------------------|---|---------------------------------------|------------------------|--|
| 3 | Regional Planning in Practice | <ul style="list-style-type: none"> • Delineation of formal regions by Weighted Index Technique / Weavers Technique from available data base; • Delineation of functional regions by Breaking Point Analysis/ Gravity Analysis/ Transport Network Analysis from available database • GIS Techniques for demarcating planning and development regions using available GIS software | (30) 16th Sep 20 th Oct 2025 | Hands - on Exercise | Classroom Lectures, PPTs, discussions |
|---|----------------------------------|---|---------------------------------------|------------------------|--|

| | | | | | |
|---|--|---|---|------------------------|--|
| 4 | Designing Development: Use of AI and ML | <ul style="list-style-type: none"> • SWOT Analysis • 3 D Regional Developmentscap e visualization • Site Suitability Analysis/Nearest Neighbour Analysis using available database and software | (30) 23 rd Oct– 20th Nov 2025 | Hands - on Exercise | Classroom Lectures, PPTs, discussions, |
|---|--|---|---|------------------------|--|