

SARVAJANIK UNIVERSITY
Institute of Design Planning & Technology (IDPT)-SCET
TERM END EVALUATION

Programme Name:	Master of Planning (Urban & Regional Planning) & Master of Architecture (Urban Design)
Programme Code:	MUUP & MRUD
Examination:	Summer 2026
Year-Semester:	M.Plan.I SEM II, M.Arch. I SEM II
Course Name:	Professional Elective – 1 (Geospatial Techniques)
Course Code:	MFEL15201
Date and Day of Examination:	16/05/2026
Marks:	25
Time:	8:30 AM Onwards
Format of Examination	Presentation Viva

A. Task/Question given for the Evaluation:

Geospatial Hackathon: Development of an Innovative GIS-Based Solution for Urban and Regional Planning Problems

Students shall present a geospatially enabled solution, prototype, dashboard, application, workflow, or analytical framework developed during the hackathon. The solution should address a real-world urban, regional, environmental, infrastructure, governance, mobility, disaster management, or smart-city challenge using GIS, Remote Sensing, Spatial Analytics, Artificial Intelligence, Open Data, or related geospatial technologies

B. Aim:

To develop problem-solving skills through the application of geospatial technologies for addressing contemporary urban and regional planning challenges.

C. Objectives:

- To identify and define a real-world planning problem suitable for geospatial intervention.
- To demonstrate the application of GIS and related technologies in developing innovative solutions.
- To communicate analytical workflows and implementation methodologies effectively.
- To evaluate the feasibility and practical utility of the proposed solution.
- To develop presentation, teamwork, and innovation skills through hackathon-based learning.

D. Instructions: (If required-as per your exam format)

Components of the Presentation

1. Problem Identification and Idea

- Clearly define the planning problem or challenge.
- Explain the context and significance of the issue.
- Identify the target users/stakeholders.

2. Rationale for Selection

- Explain why the problem was chosen.

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- Discuss its relevance to urban and regional planning.
- Highlight expected social, environmental, economic, or governance benefits.

3. Workflow / Pseudo Code

- Present the methodology adopted.
- Explain data inputs, geospatial tools, analytical steps, and decision logic.
- Illustrate the workflow through diagrams, flowcharts, or pseudo code.

4. Prototype / Dashboard / Final Outcome

- Demonstrate the developed solution.
- Showcase maps, dashboards, visualizations, applications, or analytical outputs.
- Explain functionality, usability, and expected impact.

5. Future Scope and Improvements

- Discuss scalability and implementation potential.
- Suggest future enhancements and integration opportunities.

E. Requirements:

Presentation

- Maximum 4–5 Slides
- Duration: 5–7 Minutes per Team
- Interactive and visually engaging presentation

Suggested Slide Structure

Slide 1: Problem Statement & Project Idea

Slide 2: Why the Problem was Chosen

Slide 3: Workflow / Pseudo Code / Methodology

Slide 4: Dashboard / Prototype / Outputs

Slide 5: Conclusions, Impact & Future Scope

Supporting Materials (Optional)

- GIS Maps
- Dashboard Screenshots
- Prototype Demonstration
- Workflow Diagrams
- Data Sources

F. Expected Outcome:

To demonstrate the understanding in application in AI Application in Geo-Spatial Technique.

G. Evaluation criteria:

Component	Weightage
Presentation	10 Marks = 40%
Dashboard	10 Marks = 40%
Viva	5 Marks = 20%

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A	Total No. of Students registered for the TEE Examination of the Course:	22 M.Plan. – 17 M.Arch. - 5
B	No of students absent in the Examination:	00
C	Enrollment No of students absent in the Examination:	NA
D	Total No of students appeared in the Examination:	22 M.Plan. – 17 M.Arch. - 5
E	Name of Examiners:	Sign
1.	Prof. Kuldeepsinh Jadeja	
2.	Prof. Samarth Pachchigar	

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EXAMINATION QUESTION PAPER Analysis for curriculum coverage and BLOOM'S TAXONOMY learning level

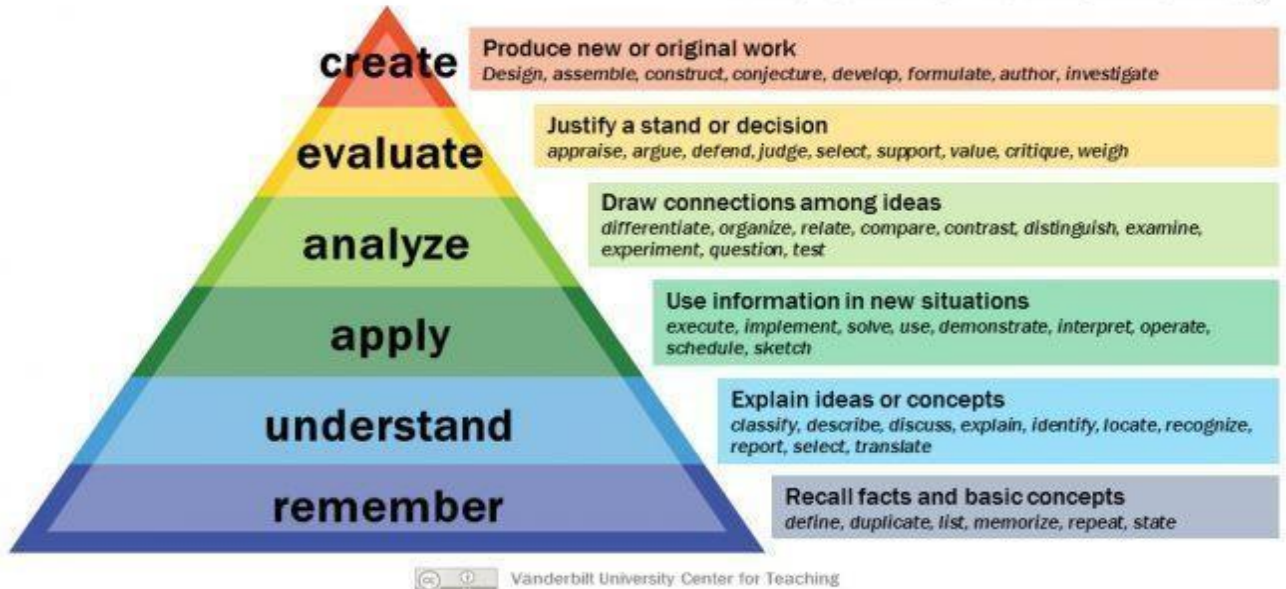
TASK DESCRIPTION		Weightage either in % or Marks- In this question paper	Chapter/Module No. as per Approved curriculum specified	Mapping with CO (Course Outcome as per Approved curriculum)	Cognitive Level (As per Revised Bloom's Taxonomy) R/U/Ap/Ay/E/C
1	Dashboard	100%	All	CO 1,2,3	R/U/Ap/Ay/E/C

Learning level coverage as per curriculum analytics (from above mapping)				Curriculum specified content coverage analytics (From above mapping)			
Blooms level		As per curriculum - either in % or marks	In this paper: either in % or marks		chapter /module number	As per curriculum : either in % or marks	In this paper: either in % or marks
Remember	R	16.66%	16.66%		1	NA	NA
Understanding	U	16.66%	16.66%		2	NA	NA
apply	Ap	16.66%	16.66%		3	NA	NA
analyse	Ay	16.66%	16.66%		4	NA	NA
evaluate	E	16.66%	16.66%		5	NA	NA
create	C	16.66%	16.66%		6	NA	NA

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Bloom's Taxonomy is a powerful teaching and learning tool that can help you shape nearly everything that happens in your classroom.

Bloom's Taxonomy



BLOOM'S TAXONOMY DIGITAL PLANNING VERBS					
REMEMBERING	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
Copying Defining Finding Locating Quoting Listening Googling Repeating Retrieving Outlining Highlighting Memorizing Networking Searching Identifying Selecting Tabulating Duplicating Matching Bookmarking Bullet-pointing	Annotating Tweeting Associating Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Commenting Journaling Interpreting Grouping Inferring Estimating Extending Gathering Exemplifying Expressing	Acting out Articulate Reenact Loading Choosing Determining Displaying Judging Executing Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting Charting	Calculating Categorizing Breaking Down Correlating Deconstructing Linking Mashing Mind-Mapping Organizing Appraising Advertising Dividing Deducing Distinguishing Illustrating Questioning Structuring Integrating Attributing Estimating Explaining	Arguing Validating Testing Scoring Assessing Criticizing Commenting Debating Defending Detecting Experimenting Grading Hypothesizing Measuring Moderating Posting Predicting Rating Reflecting Reviewing Editorializing	Blogging Building Animating Adapting Collaborating Composing Directing Devising Podcasting Wiki Building Writing Filming Programming Simulating Role Playing Solving Mixing Facilitating Managing Negotiating Leading