



**INDIRA GANDHI DELHI TECHNICAL
UNIVERSITY FOR WOMEN**
DEPARTMENT OF ARCHITECTURE AND PLANNING

MAPPING OF HERITAGE RESOURCES OF SHAHJAHANABAD (HISTORIC DELHI) THROUGH GIS

**6 WEEKS
SUMMER INTERNSHIP PROGRAMME**

6th June, 2022-15th July, 2022

Registration Link:

<https://forms.gle/vA71LjFCPkdzxauUA>

ORGANIZING COMMITTEE



Patron - Hon'ble VC, IGDTUW,
Dr (Mrs) Amita Dev



Co-Patron - Registrar,
Prof (Dr) R K Singh



Coordinator - **Dr Prof. Rashmi Ashtt**,
Prof., DAP



Chair - **Ar Preeti Chauhan**,
HoD and Asso. Prof, DAP



Co-coordinator –**Ar. Monali Wankar**,
Asso. Prof, DAP

RESOURCE PERSONS



Dr Sultan Singh
Principal Scientist, HARSAC,
Gurugram



Mr. Shubham Mishra
GIS and Planning
Consultancies.



Mr. Sunil
Asso. Prof., Hindu College of
Design, Architecture and Planning.

OBJECTIVE

- To provide an understanding and exposure to heritage and the challenges faced due to urban developments
- To render multi-disciplinary and inter-disciplinary practices
- To focus on the conservation issues under the development pressure
- Mapping of resources through GIS

LEARNING OUTCOME

- The 5-day training program will sufficiently equip students in dealing with spatial and non-spatial data in an open-source GIS environment.
- By the end of the training program, the participants would have learned to handle different types of raster images - satellite images, historic maps, Digital elevation models - using QGIS.
- The participants would have also learned to use field data collection apps like SW Maps which will help them in collecting geo-spatial data on-cultural heritage later during the summer workshop.
- The trainer will provide a workbook which will have all the exercises explained using screenshots.

INTERNSHIP SCHEME

S.No	Components	Dates
1	Theory	6th June - 19th June 2022
2	Project Work	20th June - 15th July 2022

THEMES TO BE COVERED

1-Heritage Conservation

2-What is GIS and its application

3-Importance of Heritage in Urban Planning

4-GIS and RS, Hands on with Software, Image registration, Working with CAD and GIS software, Spatial Data creation and attribute mapping, Symbology, Spatial data collection, Map composition etc.

5-Project Work : Mapping of resources of Shahjahanabad, the heritage city of Delhi

MAJOR CONTENTS OF THE PROGRAMME

- Principles and practices, Science and techniques in architectural conservation;
- Urbanization and its effects on built cultural heritage, case studies on Integration of heritage with urban development;
- Interdisciplinary approach of GIS; Role in cultural mapping and its protection,
- GIS as a tool for monitoring and management; GIS and TS theory and hands on software. Hands on will consist of Understanding the interface, Sources of Raster and Vector data, Georeferencing images, Digitization of points, lines and polygons, Attribute table, joining data from Excel, Symbology and labels, creating map layout and Spatial Analysis.
- Role of urban planners, conservation architects, site managers etc;
- Learning the morphology of Shahjahanbad through site surveys and visits; Data and resource collection; preparation of GIS map.

WEEK WISE SCHEDULE

A	B	C	D	E	F	G
S.No	Week	Day 1	Day 2	Day 3	Day 4	Day 5
1	Week 1 session - 1 (10 am -1pm) session 2(2pm to 5pm) Resource person - Sh Shubham Mishra	Theory 1. GIS & RS – Some Basic Concepts, 2.Introduction to QGIS 3. Hands-on with QGIS 4. Sources of Data – Raster & Vector	Demonstration and practice 1. Image Registration, 2. Hands-on Image 3.Working with CAD Data in QGISRegistration 4.Hands-on with CAD Data	Demonstration and practice 1. Spatial Data Creation & Attributes - I 2.Spatial Data Creation & Attributes - II 3.Hands-on with Spatial Data Creation &Attributes 4. Working with Attribute Table	1.Queries 2. Hands-on Queries 3. Participants will practiceSymbology 4. Hands-on Symbology	1.Spatial Data Collection 2. Map CompositionSpatial 3. Spatial Analysis 4. Feedback and Interaction
2	Week 2 sesssion - 1 (10 am -1pm) Blended Mode Resource persons - Dr.Rashmi Ashtt Professor -IGDTUW Dr.Sultan singh (HARSAC) Ar.Monali ASSO.Prof.IGDTUW Asso.Prof. Sunil (HICDAP)	Theory Application of Gis Mapping in world and India . Use of Gis in Haryana State ,About HARSAC and Interndship at HARSAC	Theory -Lecture on shahjahanabaad , Spatialattributes ,Infrastructue	Theroy Application of GIS on study area, Landuse Planning, other details to be put on map	1.Introduction to Shahjahanabaad and application of Gis and Digitization Demonstration 2. Hands-on Queries	1.Tragectory for Spatial Data Collection 2. Map Composition and Group formtion 3. Checklist 4. Feedback and Interaction
3	Week 3 session - 1 (10 am -1pm) Blended Mode Resource persons - Dr.Rashmi Ashtt Professor -IGDTUW Dr.Sultan singh (HARSAC) Ar.Monali ASSO.Prof.IGDTUW Asso.Prof. Sunil (HICDAP)	Practical Digitization of Shahjahanabad Starts Group wise ,Zone wise and parameters mapping	Practical Digitization of Shahjahanabad Starts Group wise ,Zone wise mapping of Monuments and categorization	Practical Digitization of Shahjahanabad Starts Group wise ,Zone wise and parameters mapping	Practical Digitization of Shahjahanabad Starts Group wise ,Zone wise and parameters mapping and translation on map	Practical Digitization of Shahjahanabad Starts Group wise ,Zone wise and Amenities mapping
4	Week 4 session - 1 (10 am -1pm) Blended Mode Resource persons - Dr.Rashmi Ashtt Professor -IGDTUW Ar.Monali ASSO.Prof.IGDTUW Asso.Prof. Sunil (HICDAP)	Site vist Zone 1-4	Site vist Zone 4-8	Office visit and collection of data	Cumulative Data presentation	Presentation and Analysis of Data
5	Week 5 sesssion - 1 (10 am -1pm) Blended Mode Resource persons - Dr.Rashmi Ashtt Professor -IGDTUW Ar.Monali ASSO.Prof.IGDTUW Asso.Prof. Sunil (HICDAP)	on map translation of various attributes zone wise in Lab.	on map translation of various attributes zone wise in Lab.	on map translation of various attributes zone wise in Lab.	on map translation of various attributes amenities mapping zone wise in Lab.	vulnerability mapping around Monuments zone wise in Lab.
6	Week 6 session - 1 (10 am -1pm) Blended Mode Resource persons - Dr.Rashmi Ashtt Professor -IGDTUW Ar.Monali ASSO.Prof.IGDTUW Asso.Prof. Sunil (HICDAP)	Compiling and Merging Maps on GIS	Data finalization sheet ,Compiling and Merging Maps on GIS	Printing final sheets Data finalization sheet ,Compiling and Merging Maps on GIS	Exhibition of Printed final sheets Data finalization sheet ,Maps on GIS	Inaugral and certificate by Hon,able VC mam, Registrar and other members

INFORMATION

Last date to apply: 3rd June 2022

Internship Starting Date : 6th June 2022

Internship Completion Date: 15th July 2022

Duration of theory sessions : 6th - 19th June 2022 (weekdays - 2 hours session)

Duration of Project work: 20th June - 12th July 2022

Submission of GIS heritage mapping: 13th July 2022

Exhibition: 14th July 2022

Issuance of certificate: 15th July 2022

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BANK'S DETAILS FOR FEE PAYMENT

S No.	Particulars	Details
1	Name & Address of the Beneficiary	IGDTUW Anveshan Foundation
2	Account Number of the Beneficiary	09001000021199
3	Name & Address of the Bank Branch	Punjab & Sind Bank GGSSIP University, Kashmere Gate Delhi - 110006
4	Fee (Amount to be transferred)	Rs. 3,000/- Rs. 2,000/- for IGDTUW Students
5	IFSC Code	PSIB0001098