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| Prerequisite status: - | Unit Type: Theoretical - practical | The number of units: 2 | Name of the lesson: Workshop for Preparing Cadastral Maps and Auditing of Urban Properties |
| Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> Science travel <input type="checkbox"/> Laboratory <input type="checkbox"/> Workshop <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> | | The number of hours: 48 | |
| General goal: Acquaintance of students with how to prepare and use detailed maps and urban cadastre, which is the basis of land and real estate audits, determining real estate boundaries, and recording real estates registration details, such as quad borders, types of ownership, and land and superstructure characteristics of Properties. | | | |
| Behavioral goal: Acquaintance and knowledge of the city for fundamental reforms, providing urban needs, Construction and improving and developing roads, renovating neighborhoods, Taking care of the proportionate and balanced growth of cities, the history of preparing cadastral maps and the necessity of preparing and using them in the Separation of lands and properties and the Preparation of urban and rural ownership documents, Acquaintance with the history of preparing comprehensive and detailed maps of cities and their characteristics and their use in municipalities, especially the issuance of permits and the completion of construction work and the calculation of municipal charges and violations, Preparation of detailed maps and cadastre according to standards, The quality and accuracy of urban cadastral maps, Such maps will meet the map needs of urban development plans including housing plans, urban development, gas supply, electricity, telecommunication network, water and sewage, subway and other urban development plans and projects and in connection with the activities of these. Also, students will be familiar with using software related to geographic information systems and AutoCAD to determine the characteristics of real estate and urban land use to form a database of real estate registration information. | | | |
| Headlines 1- Cadastre: - The concept of a map, map types, comprehensive, detailed, and cadastre maps. - Methods of preparing comprehensive, detailed, and cadastral maps. - The history of preparing comprehensive, detailed, and cadastral maps - Examining the background and status of the custodians of Preparation and use of comprehensive, detailed, and cadastral maps in Iran. - Adaptation and determination of real estate boundaries, as well as control and support and supplementary services, including collecting registration information (data) and processing. - Preparation of a map of the current state of the properties using ground mapping and photogrammetry methods (1:500). - Placing registration plates on the plots with ownership documents on the existing maps of the mentioned properties. - Extracting legal information from real estate offices and registration files | | | |

- Consolidation of geometric and descriptive property information and finally creating a cadastral map
- Familiarity with software techniques for preparing and implementing land separation and production of basic cadastral maps.

2- Property audit:

- Acquaintance with the concepts of ownership documents, the concept of the piece, main and secondary license plates, land and superstructure, Aggregate, Corrective side, Correction of passage, the entire six parts into which a real estate is divided, Separation, division, Four directions, Altitude boundaries, contour, Violation of the passage, Privacy, The position of the property relative to the passage, The location of buildings and structures, separation minutes, Official affidavit, Congestion in possession.
- Acquaintance with the concepts of the floor, Ground floor, Basement, Order of counting the floors, Half a floor, Roof, Yard storage, Backyard, Veranda, Duct, and Discontinuity seam, Private wall, Parking and its types, Ramp, Console, Light catcher.
- Familiarity with the laws of Article 101 of municipalities, Article 154 of the Amendment of the Registration Law, The law is establishing the Supreme Council of Urban Development and Architecture, Article 100 of the Municipal Law - Note 8, Article 33 of the Engineering System Law, The law of ownership of apartments.
- Acquaintance with the concept of land information system (LIS) Entering the cadastre map sheet as a base sheet in an integrated data bank as a cadastre data bank.
- One-line map
- How to set up a property listing
- How to set up the audit sheet
- How to prepare the audit questionnaire for business and professional units
- How to prepare the questionnaire of passages
- How to calculate renovation charges
- How to calculate property value
- Property front: including the area of properties with geometric and non-geometric fronts, The real estate front deals with one of the types of plans.
- How to calculate the value of the building, side buildings, and Real estate facilities.

Reference

- 1- Abbaszadeh, Shahab, 2011, Real Estate Audit and Renovation, Publications of the Organization of Municipalities and Villages of the Country, Tehran.
- 2- Saadi Mesgari, Mohammad, 2011, Spatial database standard and implementation guidelines for development and urban development projects, Ministry of Roads and Urban Development, Tehran.
- 3- Gerhard Larsen, 1997, cadastre and land registration systems, first edition translated by Mitra Pourkamal, Tehran Geographical Information Center publications.
- 4- Pourkamal, Mohammad, 1998, an introduction to cadastral recognition and its applications, first edition, publications of Tehran Geographical Information Center.

- 5- Esmail, Momen, Oracle Education, Naghoos Publications.
- 6- Tehran Municipality, Urban Development Deputy, 2012, rules, and regulations of the new detailed plan of Tehran city.
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- 9- George M. Cole, Donald A Wilson, 2016, Land Tenure, Boundary Surveys, and Cadastral Systems, Publisher: CRC Press; Taylor and Francis.
- 10- Tahsin Yomralioglu, John McLaughlin, 2017, Cadastre: Geo-Information Innovations in Land Administration Publisher: Springer International Publishing.
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