**Preliminary topic of the Graduation Project:** Unmanned robotic complex consisted of mobile robot and drone for inspection and logistic tasks

**Main Components of the Graduation Project**

**Technical Task**

1.1 The work topic

1.2 The functionality features of the developed system/robot and/or the control algorithm

1.3 Technical characteristics

1.4 The technological design list, and software solutions to be developed

1.5 List of schematic graphs to be developed

**Abstract** *(short description of the project, methodology, results)* ***(1-2 pages)***

1. **Introduction** *(The state of the art in the field of the project, history, relevance, purpose and objectives of the work)* ***(10-20 pages)***
2. **Description of the solution** *(hardware architecture diagram, structure and scheme of the system)* ***(2-5 pages)***
3. **Development of mathematical model of the system/robot and algorithm of functioning** *(kinematic and dynamic model of the movement of the object of study, control algorithm)* ***(8-20 pages)***
4. **Development of design and construction of the system/robot** *(calculation and justification of the choice of structural elements, drives, gearboxes, motors****) (12-20 pages)***
5. ***Development of the control system*** *(description of components, circuit diagram, printed circuit board, assembly drawing of the control device)* ***(10-25 pages)***
6. ***Development of software*** *(flow charts, description of program, interfaces, communication protocols, listing program)* ***(10-45 pages)***
7. ***Experiments and/or simulations*** *(description of experimental prototypes, equipment, processing of experimental data, results of experiments)* ***(5-15 pages)***

***Conclusions (1-2 pages)***