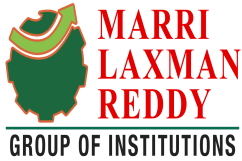
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**MAJOR PROJECT ABSTRACT**

|  |  |
| --- | --- |
| **Title of Idea** | DESIGN OF GROUND BASED SURVEILLANCE ROBOT FOR MILITARY AND SECURITY APPLICATIONS |
| **Theme** | Security and Surveillance |
| **Idea description** | In rapid change with technology a huge development of robots is competing equally with humans. The technology development has brought many changes in the field of manufacturing and research. Initially, the robots were used by humans to make their work easier, but today the robots are developed to replicate humans and substitute the labor in the fields where even human presence is difficult. The development doesn’t only take place in the manufacturing of robots but simultaneously it focuses on control and optimization of the tasks that are done by the robots. The aspects of robots are unlimited in the field of medical, defense, education. The type of application defines the robot’s construction and the requirement of systems.  Snake can move in irregular terrain, climb and even glide in air by some species. They can move by undulating their bodies to exploit roughness in the terrain for locomotion which allows them to adapt in various sorts of situations. Fabricating a snake robot with such activity is a most attractive one. The development of such a robot is motivated by the way that diverse applications might be use in enemy detection, hazardous situations and search and rescue. It uses night vision camera by that we can use this robot in night time also. |

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