

V SEM B.E (A & R)

MINI PROJECT (ENGINEERING DESIGN)

TEAM NO/NAME:

TEAM MEMBERS NAME&USN:

- 1.ABHISHEKDENGI:01FE20BAR046
- 2.NAKULSHARATHKUMAR:01FE20BAR027
- 3. NITINMAHADEVGHORPADE: 01FE20BAR038
- 4. PATANJALIJOSHI: 01FE20BAR036
- 5. S A M A R T H V E N G U R L E K A R: 01 F E 2 0 B A R 0 0 6



Department of Automation and Robotics

CERTIFICATE

This is to certify that the below mentioned team has implemented the project entitled "A.D.I.S" as part of Mini Project Course, code 18EARW301, in the department of Automation & Robotics, KLE Technological University, Hubballi, during 5th Semester of B.E program for the academic year 2022-23. The project report fulfils the requirements prescribed.

1. Abhishek Dengi	01FE20BAR046	
2.Nakul Sharathkumar	01FE20BAR027	
3.Nitin Mahadev Ghorpade	01FE20BAR038	
4.Patanjali Joshi	01FE20BAR036	
5.Samarth Vengurlekar	01FE20BAR006	
Project Guide: Prof. A.C.Giriyapur		Course Instructors: Amit Talli, Girish
Examiner 1:		Examiner 2:

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- 1. Introduction to the broad theme or challenge
- 2. Identifying the systematic design process to be followed
- 3. Planning & Task Clarification
 - 3.1 Planning & Scheduling
 - 3.2 Market research and analysis
 - 3.3 Generate the Final Problem Statement.
 - 3.4 Competitive Products benchmarking and Patent Search
 - 3.5 Identify metrics to measure success
 - 3.6 Design specifications
- 4. Conceptual Design
 - 4.1 Identification of essential problems
 - 4.2 Identification of Overall function
 - 4.3 Detailed functional analysis
 - 4.4 Search for working principles and working structures
 - 4.5 Generating alternate solutions
 - 4.6 Evaluation of alternate solutions
 - 4.7 Preliminary design
- 5. Embodiment of Design
 - 5.1 Product architecture
 - 5.2 Configuration design
 - 5.3 Parametric design
- 6. Detailed Design
 - 6.1 Selection of materials
 - 6.2 Elaborate detail drawings and parts lists
 - 6.3 Bill of materials
 - 6.4 Costing
 - 6.3 Process sheets
 - 6.4 Documentation
- 7. Working model or Prototype
- 8. Testing & Evaluation
- 9. Conclusion
- 10. Appendix
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