|  |  |
| --- | --- |
|  | NJIT_rpt_NCE  **DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING**  **FUNDAMENTALS OF ENGINEERING DESIGN-101**  **TOWER FAN**    **FINAL PROJECT**  by  **ZAFIR ALI, KADE MCDANIEL, HUGO TAVARES**  **Instructor: B. S. Mani**  **FALL 2020 - 12-13-2022**  *We do it with Passion* |
|  | **TABLE OF CONTENTS**   |  |  | | --- | --- | | Description | Page | | **Project Description** | 3 | | **Assembly Models** | 4 | | Assembly Model | 5 | | Assembly Exploded View | 6 | | Assembly Drawing | 7 | | **Part Models** | 8 | | Part Models |  | | Part Drawings |  | | Design Intent Planning Sheet (DIPS) |  | | **Design Documents** | 21 | |  |  |   **Project Description**  This project entails the following. The team would work together in order to understand the design of the tower fan. OUR team has decided to do our project on the TOWER FAN. The reason is that it seemed like an interesting project that might test our modeling skills. It Is also interesting to learn how a tower fan that many people use works with its rotation function. Another functionality that it carries. |
|  | **Assembly models**  **Assembly model (unexploded)**    **Assembly Model (Exploded)**      Part Models    221243001\_FRONT\_COVER    221243002\_CHASSIS    221243005\_REAR\_COVER    221243100\_FAN    221243200\_pedestal    221243300\_motor    ‘            DESIGN DOCUMENTS  Design TASK PLAN    U.S. PATENT  NUMBER: USD829319S1  This patent is for a generic design of a rotating tower fan. It is one of the first patents used and is used and cited by many companies that make tower fans such as Lasko and Samsung Electronics Co. In many cases it is using the patent for many different applications such as air conditioning, electric fans, and an electric fan. |