MANUFACTURING AND FABRICATION SPECIAL LAB PROJECT Date: 1/05/2022 to 18/09/2022 Place: AS Block, Underground floor **FACULTY INCHARGE** 5) PRODUCT DESCRIPTION 1) Student Details NAME DEPARTMENT .RAGUVARADHAN S V **ELECTRIC TWO WHEELER** .. SUDHARSUN B ELECTRICAL AND Mr. VIVEK KUMAR P SOUNDER M ELECTRONICS . DARSHAN R ENGINEERING BALAKARRTHIKEYAN B 6. JAIDHANUSH C D K In our electric bike, we have fixed a BLDC hub motor connected with the wheel which also produces regenerative braking. User control is usually attached MECHANICAL . KAUSHIK P ENGINEERING B. HARISH D to the handlebar to brake and adjust the speed. The electricity is stored using a battery and the locomotion and movement of the vehicle are hence propelled NAVEEN S using an electric hub motor. In our electric scooter, we use a 48v lithium-ion battery. Its lifespan is 1000-3000 charging cycles and 4 to 5 years. There is a 10.NALIN PRIYADHARSHAN R provision for charging the battery by ejecting it from the main system. The controller gathers electricity from the battery and delivers an acceptable amount 2)Project Schedule: of electricity to the hub motor. We designed and implemented some features in display and innovations in our electric scooter. The design and chasing of our electric scooter are completed. MONTH 1 MONTH 2 Timing MONTH 3 MONTH 4 MONTH 5 PRODUCT COMPARISION Gathering Planning, Discussion to Preparing an Preparing the Preparing by taking safety 8:30 AM parts to hat to gather programme idea to design assemble 9:30 AM Our E-bike Market E-bike Learning Designing Designing Assembly Corrections Painting software body 10:30 AM 1. There is no any Vehicle fault diagnosis 1. We have made a prototype helmet which acts as a switch to start the 2.To increases millage innovative millage switch is fixed. 2. Only speed mode switch is available 10:45 AM Tea Break Tea Break Tea Break Tea Break Tea Break Tea Break 4. FRP body works is done to our vehicle 4. Normal plastic materials are used 11:45 AM Sticking Checking the Testing Learning Checking the hardware by Drying Checking 12:30 PM stability software Assembly testing 1:30 PM Lunch Lunch Lunch Lunch Lunch Lunch 2:30 PM Modification Uploading 6) PRODUCT PHOTOGRAPH Learning Designing Designing Painting 3:15 PM hardware the Code Checking 3:30 PM Tea Break Tea Break Tea Break Tea Break Tea Break Tea Break 4:10 PM Checking modification oncluding the Concluding oncluding the Concluding the task done Concluding Concluding 4:15 PM the task done task done the task done the task done 3) DAY WISE CONTENT: PROJECT SCHEDULE DESCRIPTION MONTH 1 MONTH 2 MONTH 3 MONTH 4 MONTH 5 CONTIBUTION Learning the contents required for 80% hardware 100% Developing the hardware 70% Designing the body and testing the body Assembling the body parts and loading 70% the components 100% Testing the prototype painting and finishing 100% **ELECTRIC BIKE** 4) PROJECT CONTENT: PROJECT PRESENTATION PAPER PRESENTATION **PATENT Modules** SAE ETWDC -2022 NIL NIL) Work Organization Management ii) Learning hardware and about components iii) Designing the body iv) Assembling the body parts vi) Corrections