

# NANYANG VENTURE 11



## PROJECT OBJECTIVES

The project team aims to design, build and operate energy efficient vehicles that are sustainable.

## PROJECT SUMMARY

The Nanyang Venture 11 (NV11) is a vehicle designed and built by a group of students to compete in the Shell Eco Marathon, Battery Urban Concept category. With a body shell and chassis weight of 50kg and the inclusion of drive systems and autonomous components, the vehicle weighs a total of 120kg. The 4-wheeled, autonomous-ready, battery-powered electric vehicle is capable of carrying up to 2 passengers, including the driver. Similar to a modern vehicle, it is equipped with 4 doors, opened in a front- and rear -hinged fashion. With weight and efficiency in mind, the car has been constructed using carbon fibre for its lightness, high stiffness and tensile strength.

## PROJECT OUTCOMES

The NV11 is the first in NTU's series of eco-cars to have passenger carrying capabilities. Having competed in the 2019 and 2020 editions of Shell Eco-Marathon Asia, the NV11 won the Vehicle Design Award in the Urban Concept Category in 2020. The team will be competing in the 2021 Shell Eco-Marathon Asia and has made design improvements to bring about further efficiency gains.



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