



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A++’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## **DEPARTMENT OF AUTOMOBILE ENGINEERING**

### **19AUE302 – AUTOMOTIVE SAFETY & INFOTRONICS**

**III- YEAR V- SEM**

**UNIT II – SAFETY CONCEPTS**

**TOPIC 1.A– ACTIVE SAFETY – DRIVING SAFETY**



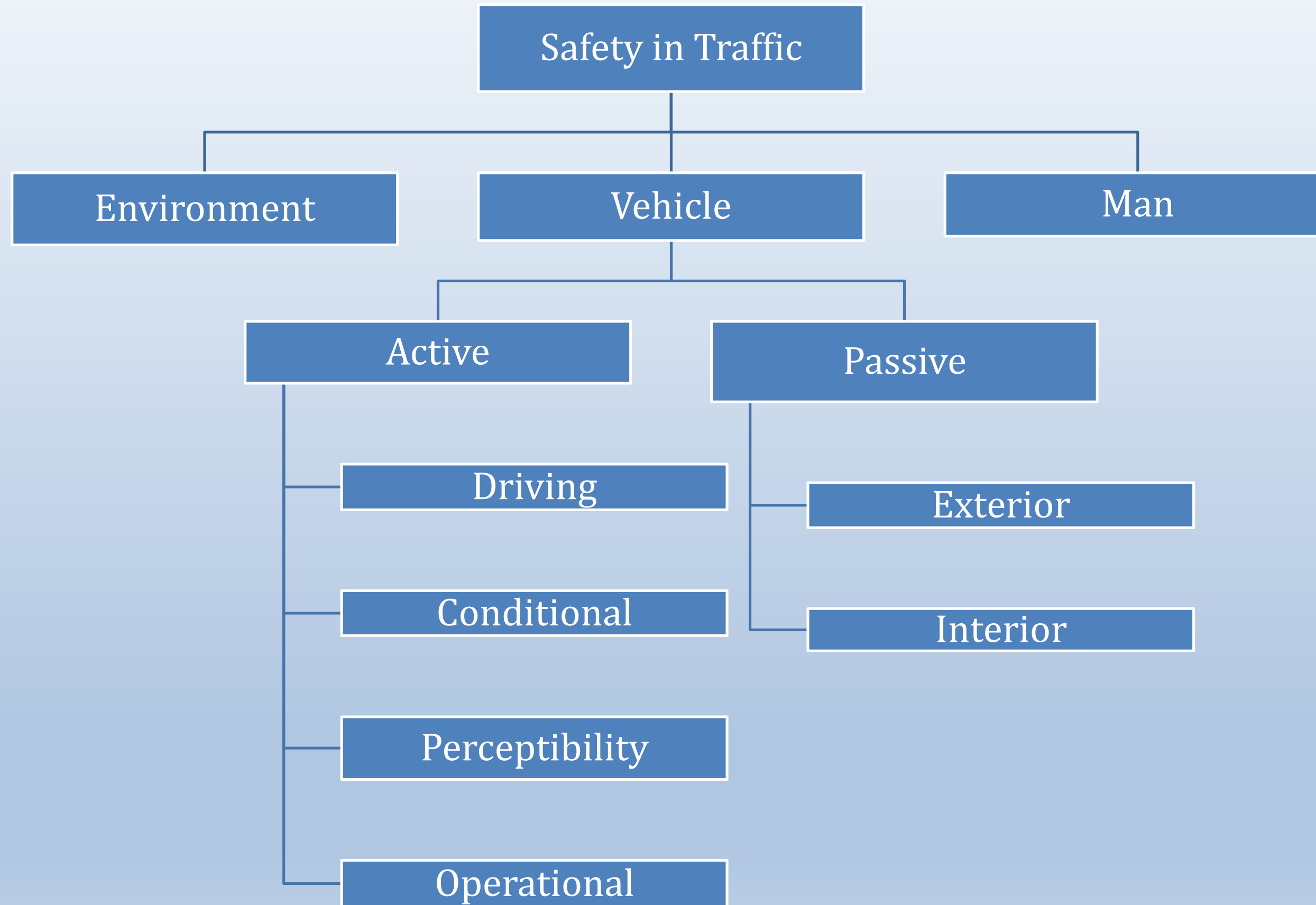
# PRESENTATION OUTLINE

- Automobile Safety Types
- Driving Safety
- Conditional Safety
- Perceptibility Safety
- Operational Safety



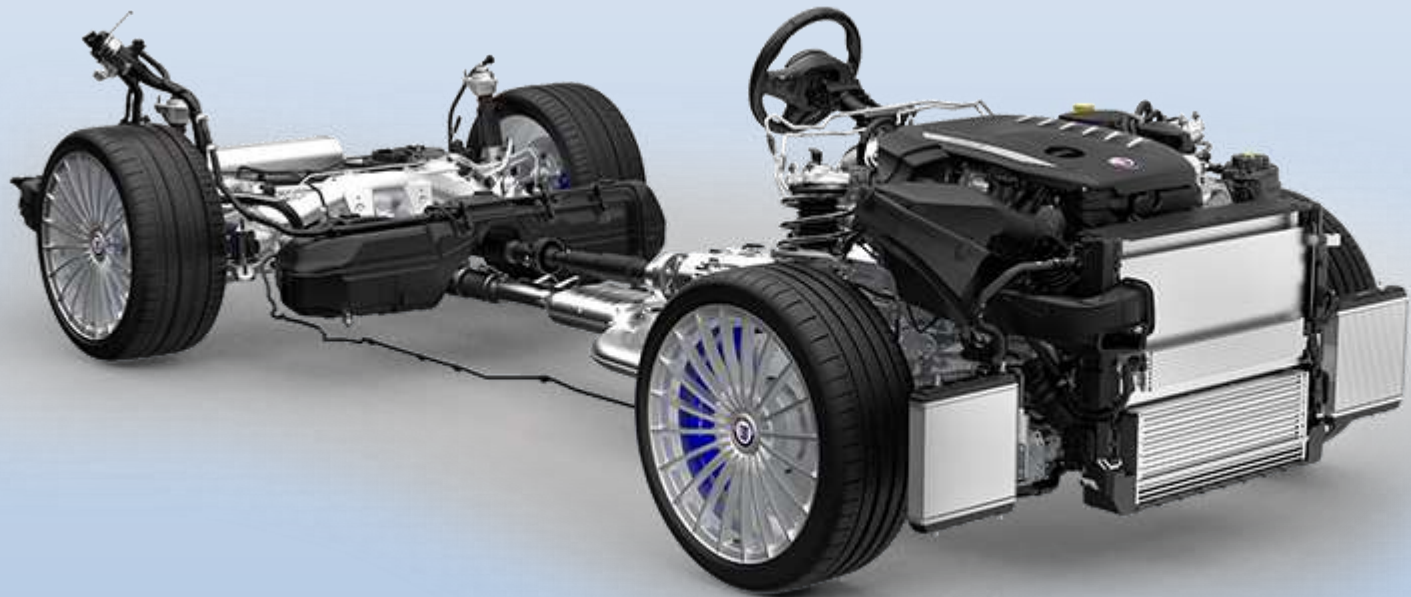


# AUTOMOTIVE SAFETY TYPES





# DRIVING SAFETY



- It is the result of a harmonious chassis and suspension design with regard to wheel suspension, springing, steering and braking, and is reflected in optimum dynamic vehicle behavior



# DRIVING SAFETY



## Examples of active safety

Good visibility from driver's seat,

Low noise level in interior,

Legibility of instrumentation and warning symbols,

Early warning of severe braking ahead,

[Head up displays](#),

Good chassis balance and handling,

Good grip,

[Anti-lock braking system](#),

[Electronic Stability Control](#),

Chassis assist,

[Intelligent speed adaptation](#),

[Brake assist](#),

[Traction control](#),

[Collision warning/avoidance](#),

Adaptive or [autonomous cruise control system](#).

[Electronic brakeforce distribution](#)

front & rear wiper



# STAR RATING



- 5 stars safety
- Overall good performance in crash protection; well equipped with robust crash avoidance technology
- 4 stars safety
- Overall good performance in crash protection; additional crash avoidance technology may be present
- 3 stars safety
- Average to good occupant protection but lacking crash avoidance technology
- 2 stars safety
- Nominal crash protection but lacking crash avoidance technology
- 1 star safety
- Marginal crash protection



# LEVELS OF AUTOMATION

