

SPARC Sponsored 5-Day Course on Injury Biomechanics for Road Safety

30 June 2025 - 04 July 2025
Kalam Hall, ED, IITM

Course Sessions

- Introduction to Biomechanics & Human Body Anatomy
- Injury mechanisms
- Anthropometry, Epidemiology, and Injury Scales
- Anthropometric Test Devices (Dummies)
- Injury Criteria and Risk Functions
- Computational Models (Finite Element HBMs)
- includes practical sessions on LS-Dyna models
- Test methods and ratings

Resource Persons



Mats Svensson
Chalmers University of Technology, Sweden



Jobin John

Course Outcomes

- Injury mechanisms, criteria, and risk functions
- Use of human models to assess injury
- Physical models of human, like crash test dummies
- Computational models of human, like finite element models
- Test methods, consumer rating programs, regulatory testing

Organizers



G Saravana Kumar
IIT Madras



D Davidson Jebaseelan
VIT Chennai



Webpage



ED 103 "Kalam Hall"
Department of Engineering Design
IIT Madras



Contact

hbm.sparcwkp@gmail.com

+91 94451 22485

<https://ed.iitm.ac.in/~gsaravana/sparccourse>



Registration