

ME232: Dynamics

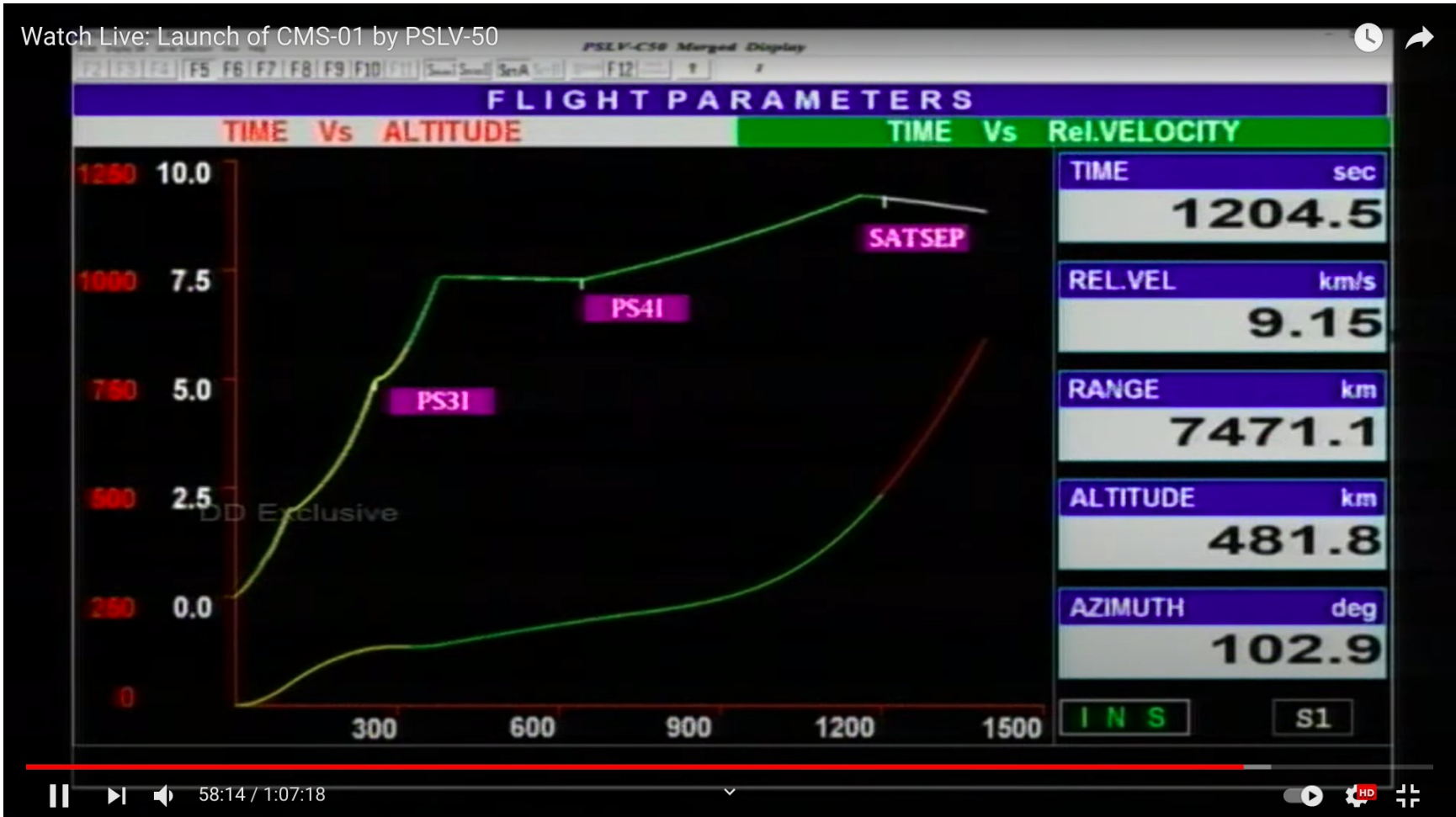
Timings	
Tuesday	11:30 to 12:50
Friday	10:00 to 11:20

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Course Plan

- **Tierce exam: $25\% + 25\% + 25\% = 75\%$**
 - Online tierce exam.
 - Anyone found to be using unfair means (in any form) during the exam will be penalized with 100% negative marks. In case of coping both the students, the one who has copied and from whom he/she has copied, will be penalized without seeking any clarification/justification.
- **Quizzes: 25%**
 - Short surprise quizzes of 5-10 mins. will be taken. Policy regarding the usage of unfair means remain same as for the tierce exam.
- **Term paper: Bonus 20%**
 - Not compulsory
 - Anyone, who is willing to explore the subject by applying theoretical knowledge to practical problems, is welcome. Interested student(s) must choose a topic and discuss with me as soon as possible and start working on it.
 - Marks will be given only when I find the work satisfactory.

- Analysis of motion, trajectories



- Design and analysis of Mechanisms and Machines
- Robotics (Dynamics with Controls)
 - <https://www.youtube.com/embed/zbNe2FRS6zo?start=18&end=110>
 - <https://www.youtube.com/embed/uhND7Mvp3f4>
 - https://www.youtube.com/embed/_luhn7TLfWU
- Vibrations
 - <https://www.youtube.com/embed/bgfilCJfVZ4?start=29&end=82>
 - <https://www.youtube.com/embed/Xb5MuiEzK9M>
 - <https://www.youtube.com/embed/eqZgxR6eRjo?start=8&end=107>

Books

- *Engineering Mechanics: Dynamics* by J. L. Meriam & L. G. Kraige & J. N. Bolton. Wiley.
- *Vector Mechanics for Engineers: Dynamics* by Beer, Johnston, DeWolf, Mazurek and Sanghi. Tata McGrawHill.