**Online Materials are provided for the help of understanding more clear idea of physics**

* **Chapter-12**

***Static equilibrium & Elasticity***

♦ MIT lecture:

<http://www.youtube.com/watch?v=lJfuU7D1DOA>

♦ Short videos:

<https://www.youtube.com/watch?v=doY2MIsU2aQ>

<https://www.youtube.com/watch?v=tg0yZjBeg1Y>

♦ Center of gravity and mass

<https://www.youtube.com/watch?v=RaGUW1d0w8g>

<https://www.youtube.com/watch?v=R8wKV0UQtlo>

<https://www.youtube.com/watch?v=VrflZifKIuw>

<https://www.youtube.com/watch?v=P_0R0eWOKns>

♦ Elasticity:

<http://www.youtube.com/watch?v=jfkkYVX5MkU>

<http://www.youtube.com/watch?v=UQ3g4msQsBc>

<https://www.youtube.com/watch?v=YI9ke-cy_1g>

* **Chapter –13**

***Universal Gravitation***

♦ Caltech’s Lectures:

Newton’s laws of gravitation:

<https://www.youtube.com/watch?v=_q6CXni6yTE>

<https://www.youtube.com/watch?v=3CGLhH-qixQ>

Kepler’s law:

<http://www.youtube.com/watch?v=rqKTi3TKT8I>

♦ Feynman Lecture

<https://www.youtube.com/watch?v=j3mhkYbznBk>

♦ Short videos:

Universal gravitation:

<http://www.youtube.com/watch?v=0Bju7bOjhuM>

<http://www.youtube.com/watch?v=OY0GcFRVmVs>

♦ Documentary, if anybody is interested.

<https://www.youtube.com/watch?v=EiljzeDL0co>

* **Chapter -14**

***Fluid Mechanics***

♦ Lectures:

<http://www.youtube.com/watch?v=265icrI3HkM>

<http://www.youtube.com/watch?v=ngABxM7jl0Q>

Short videos:

Pascal's Law:

<https://www.youtube.com/watch?v=zpOqb_Bw4oM>

<https://www.youtube.com/watch?v=VxLTDtaRCZk>

Fluid Dynamics:

<https://www.youtube.com/watch?v=mdN8OOkx2ko>

<https://www.youtube.com/watch?v=khRil3tWYEA>

<https://www.youtube.com/watch?v=pqWwHxn6LNo>

Bernoulli's Theorem or equation:

<https://www.youtube.com/watch?v=bC8v6hlXnSk>

<https://www.youtube.com/watch?v=J4WRd7OAt0A>

<https://www.youtube.com/watch?v=IneyT4kRDAU>

* **Chapter 15**

***Oscillatory Motion***

***Lectures:***

Caltech lecture:

<https://www.youtube.com/watch?v=bK0R883XvHg>

MIT lecture

<https://www.youtube.com/watch?v=__2YND93ofE>

***Short videos:***

Please have a look on Physics Course 14, 15, 16 &17

<https://www.youtube.com/watch?v=c3CKWSTdLtE&list=PLoSW97pXHomnnlEBULjalOkZMqALODsa_&index=14>

<https://www.youtube.com/watch?v=3secD_gE_HM>

Energy of SHM

<https://www.youtube.com/watch?v=CERrHHW9Pa8>