

# Statistical mechanics unit (PMN)

These lectures will be helpful to understand the basic concept of statistical mechanics. Try to understand. If you have any doubts you can mail :niralibhavsar77@gmail.com

Micro states and macro states

(<https://www.youtube.com/watch?v=LIbjB2Tef8A&list=PL090DAFDD7A36E27B&index=11>

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Bose Einstein Distribution (<https://www.youtube.com/watch?v=1aHFG7VLr-g&list=PL090DAFDD7A36E27B&index=39>

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Fermi – Dirac Distribution

(<https://www.youtube.com/watch?v=kbbOpFEU5E&list=PL090DAFDD7A36E27B&index=17>

<https://www.youtube.com/watch?v=ZI50xOrBWuo&list=PL090DAFDD7A36E27B&index=18>)

Ensembles ([https://www.youtube.com/watch?v=VIVGP\\_lskQg&list=PLkt-SDy7CpUCtsmi0j7bOGuzjsGfUd2xs&index=14](https://www.youtube.com/watch?v=VIVGP_lskQg&list=PLkt-SDy7CpUCtsmi0j7bOGuzjsGfUd2xs&index=14)

<https://www.youtube.com/watch?v=D2CFNx8Bxq4&list=PLkt-SDy7CpUCtsmi0j7bOGuzjsGfUd2xs&index=18>

[https://www.youtube.com/watch?v=\\_1svGr2Ad3Q&list=PLkt-SDy7CpUCtsmi0j7bOGuzjsGfUd2xs&index=24](https://www.youtube.com/watch?v=_1svGr2Ad3Q&list=PLkt-SDy7CpUCtsmi0j7bOGuzjsGfUd2xs&index=24)

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Liouville's theorem (<https://www.youtube.com/watch?v=L3IMi7TUvRE>

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Phase space (

<https://www.youtube.com/watch?v=uHeeBEQLfBE&list=PL74Pz7AXMAnOSPWBImZOpSs2KgchH3dP&index=4>

<https://www.youtube.com/watch?v=uJWKV1kHn6k&list=PL74Pz7AXMAnOSPWBImZOpSs2KgchH3dP&index=5>

<https://www.youtube.com/watch?v=Bn3CKlaN8lQ&list=PL74Pz7AXMAnOSPWBImZOpSs2KgchH3dP&index=7>

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Hindi lectures (

<https://www.youtube.com/watch?v=o1EinUCgFsw&list=PL74Pz7AXMAnOSPWBImZOpSs2KgchH3dP> )