

STUDENT SEMINAR - 1

STUDENT NAME : P.RAMA DEVI
GROUP : B.Sc.(MPC)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : First law of thermodynamics
TOPIC SYNOPSIS : $dQ = dU + dW$
(Or)
 $dQ = dU + PdV$
GUIDED BY : Ch.Satyam , Lec.in Physics
STUDENTS ATTENDED : 09

STUDENTS NAME

SIGNATURE

1. A.Bhagya - MPC → A. Bhagya
2. J.Ramya - MPC → J. Ramya
3. N.Manasa - MPC → N. Manasa.
4. P.Rama devi - MPC — P. Ramadevi
5. R.Ravalika - MPC — R. Ravalika
6. S.Sravani - MPC → S.Sravani
7. V.Ravi teja -MPC — V. Ravi Teja .
8. K.Sai nikhitha - MPCs — K. Sai Nikhitha
9. K.Bhavani - MPCs — K. Bhavani



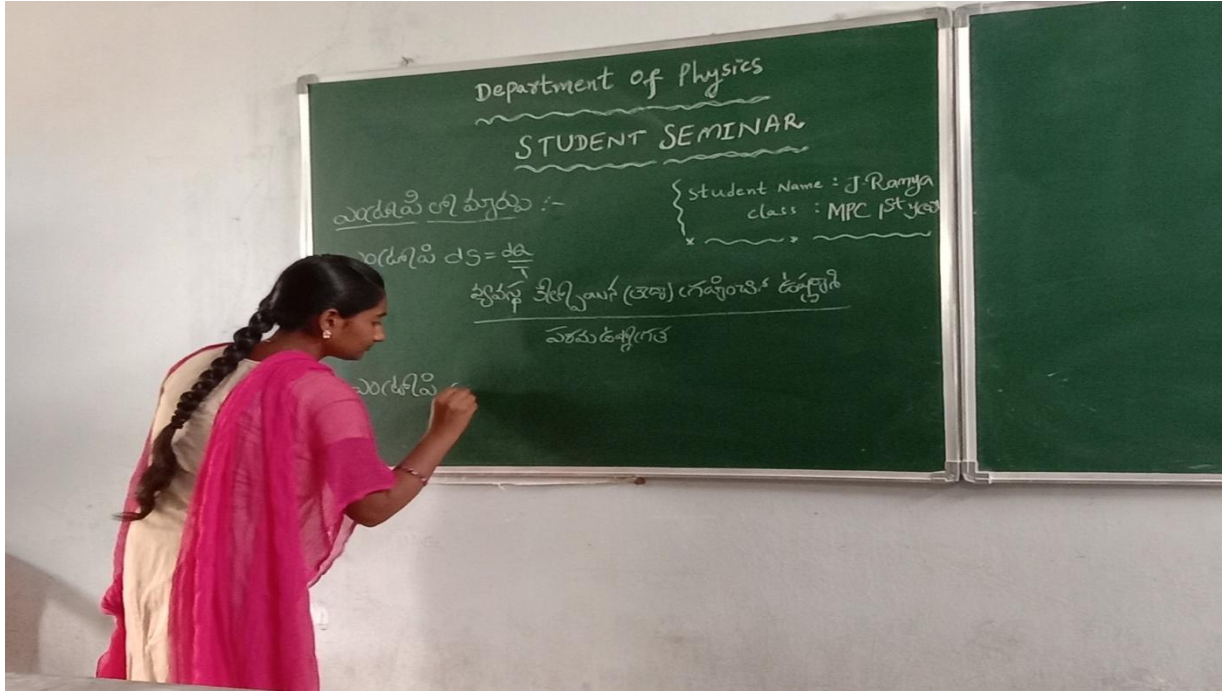
STUDENT SEMINAR - 2

STUDENT NAME : J.RAMYA
GROUP : B.Sc.(MPC)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : Entropy - Physical significance
TOPIC SYNOPSIS : Entropy $dS = dQ/T$
Units : Joule/Kelvin

GUIDED BY : Ch.Satyam , Lec.in Physics

STUDENTS ATTENDED : 09

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1. A.Bhagya - MPC	→ A. Bhagya
2. J.Ramya - MPC	→ J. Ramya
3.N.Manasa - MPC	→ N. Manasa
4.P.Rama devi - MPC	— P. Ramadevi
5.R.Ravalika - MPC	— R. Ravalika
6.S.Sravani - MPC	→ S. Sravani
7.V.Ravi teja -MPC	— V. Ravi Teja.
8.K.Sai nikhitha - MPCs	— K. sai Nikhitha
9.K.Bhavani - MPCs	— K. Bhavani



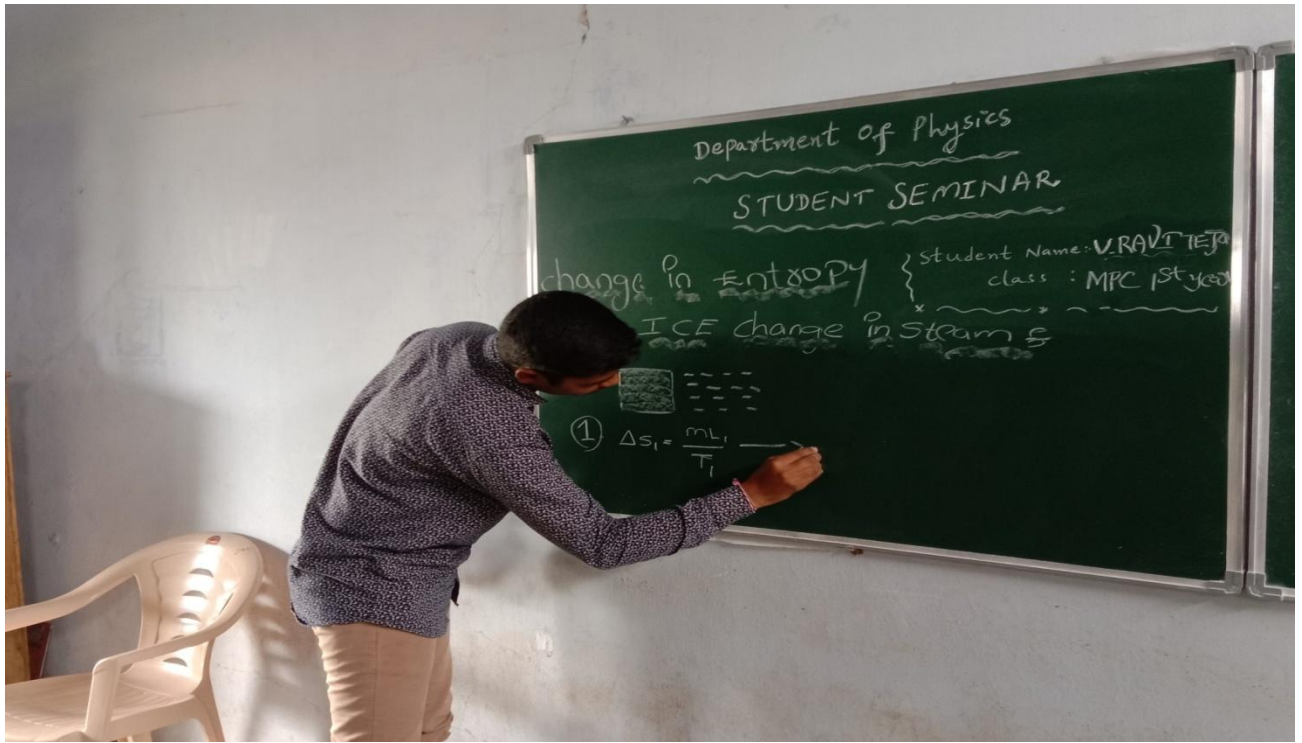
STUDENT SEMINAR - 3

STUDENT NAME : V.RAVI TEJA
GROUP : B.Sc.(MPC)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : Change in Entropy when ice changes
into steam
TOPIC SYNOPSIS : $dS_1 = mL_1/T_1$
 $dS_2 = mC \ln(T_2/T_1)$
 $dS_3 = mL_2/T_2$
 $dS = dS_1 + dS_2 + dS_3$
 $= mL_1/T_1 + mC \ln(T_2/T_1) + mL_2/T_2$

GUIDED BY : Ch.Satyam , Lec.in Physics

STUDENTS ATTENDED : 09

STUDENTS NAME	SIGNATURE
1. A.Bhagya - MPC	—————> A. Bhagya
2. J.Ramya - MPC	—————> J. Ramya
3.N.Manasa - MPC	—————> N. Manasa
4.P.Rama devi - MPC	————— P. Ramadevi
5.R.Ravalika - MPC	————— R. Ravalika
6.S.Sravani - MPC	—————> S. Sravani
7.V.Ravi teja -MPC	————— V. RAVI TEJA .
8.K.Sai nikhitha - MPCs	————— k. sai Nikhitha
9.K.Bhavani - MPCs	————— K. Bhavani



Department of Physics

STUDENT SEMINAR

change in Entropy

Student Name: V. RAVI TEJA
class: MPC 1st year

ICE change in Steam

① $\Delta s_1 = \frac{m}{T}$



STUDENT SEMINAR - 4

STUDENT NAME : SK.ASMA
GROUP : B.Sc.(MPC)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : clausius - clapeyron equation
TOPIC SYNOPSIS : $(dP/dT) = L/T(V_2 - V_1)$

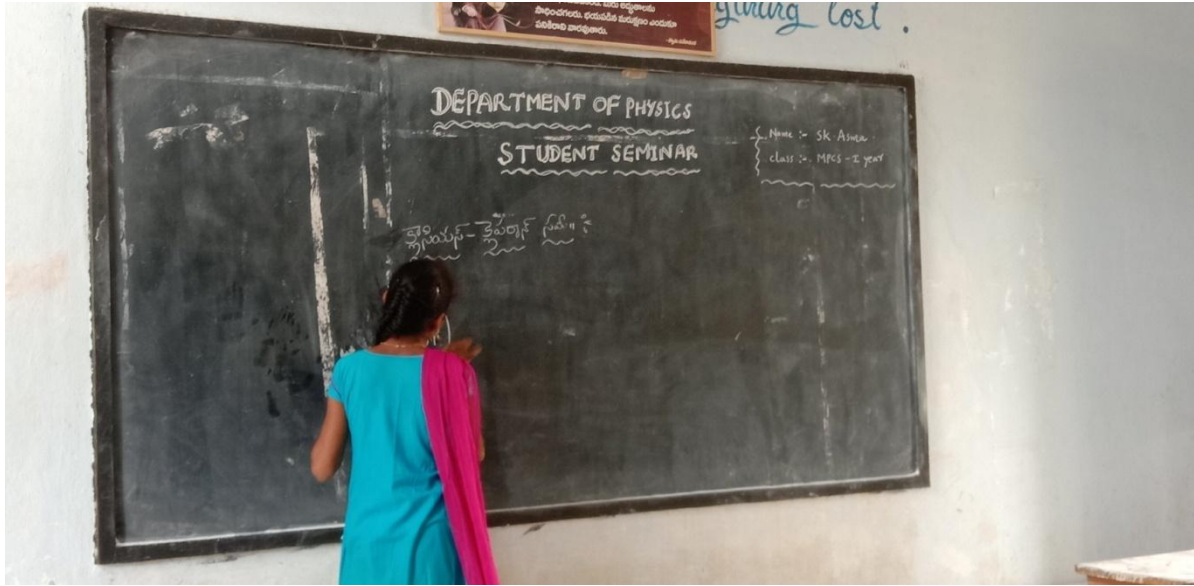
This equation explains how to change

boiling point and
melting point of substance with temperature.

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STUDENTS ATTENDED : 09

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1. A.Bhagya - MPC	→ A. Bhagya
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3. N.Manasa - MPC	→ N. Manasa
4. P.Rama devi - MPC	→ R. Ravalika.
5. R.Ravalika - MPC	→ P. Ramadevi
6. S.Sravani - MPC	→ S. Sravani
7. V.Ravi teja - MPC	→ V. Ravi Teja.
8. K.Sai nikhitha - MPCs	→ K. Sai Nikhitha
9. K.Bhavani - MPCs	→ K. Bhavani



STUDENT SEMINAR - 5

STUDENT NAME : S.ANIRUDH
GROUP : B.Sc.(MPCs)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : change in entropy when ice changes
TOPIC SYNOPSIS : $dS_1 = mL_1/T_1$
 $dS_2 = mC \ln(T_2/T_1)$
 $dS_3 = mL_2/T_2$
 $dS = dS_1 + dS_2 + dS_3$
 $= mL_1/T_1 + mC \ln(T_2/T_1) + mL_2/T_2$
GUIDED BY : Ch.Satyam , Lec.in Physics
STUDENTS ATTENDED : 10

into steam

STUDENTS NAME	SIGNATURE
1. A.Bhagya - MPC	_____ A. Bhagya
2. J.Ramya - MPC	_____ J. Ramya
3.S.Shireesha - MPC	_____ S. shireesha
4.P.Rama devi - MPC	_____ P. Ramadevi
5.R.Ravalika - MPC	_____ R. Ravalika.
6.S.Anirudh - MPCs	_____ S. Anirudh
7.SK.Asma - MPCs	_____ SK. Asma
8.K.Sai nikhitha - MPCs	_____ K. Sai Nikhitha
9.K.Bhavani - MPCs	_____ K. Bhavani
10.T.Sravanthi - MPC	_____ T. Sravanthi

DEPARTMENT OF PHYSICS

STUDENT SEMINAR

Name :- S. Anandh

class :- MPCs - I year

Change in Entropy when ice changes into steam.



STUDENT SEMINAR - 6

STUDENT NAME : S.SHIREESHA

GROUP : B.Sc.(MPC)

YEAR : 1

SEMESTER : 2

DELIVERED TOPIC : Joule-Kelvin effect

TOPIC SYNOPSIS : When the gas transfer from constant high pressure to constant low pressure through Forus plug, the temperature of the gas is changed. This effect is called Joule-Kelvin effect.

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STUDENTS ATTENDED : 10

STUDENTS NAME	SIGNATURE
1. A.Bhagya - MPC	_____ A. Bhagya
2. J.Ramya - MPC	_____ J. Ramya
3.S.Shireesha - MPC	_____ S. shireesha
4.P.Rama devi - MPC	_____ P. Ramadevi
5.R.Ravalika - MPC	_____ R. Ravalika.
6.S.Anirudh - MPCs	_____ S. Anirudh
7.SK.Asma - MPCs	_____ Sk. Asma
8.K.Sai nikhitha - MPCs	_____ K. sai Nikhitha
9.K.Bhavani - MPCs	_____ K. Bhavani
10.T.Sravanthi - MPC	_____ T. sravanthi



STUDENT SEMINAR - 7

STUDENT NAME : K.SAI NIKHITHA
GROUP : B.Sc.(MPCs)
YEAR : 1
SEMESTER : 2
DELIVERED TOPIC : $C_p - C_v = R$
TOPIC SYNOPSIS : C_p - Specific heat of gas at constant
pressure.
 C_v - Specific heat of gas at constant
volume.
R - Ideal gas constant.
GUIDED BY : Ch.Satyam , Lec.in Physics
STUDENTS ATTENDED : 10

STUDENTS NAME	SIGNATURE
1. A.Bhagya - MPC	_____ A. Bhagya
2. J.Ramya - MPC	_____ J. Ramya
3.S.Shireesha - MPC	_____ S. Shireesha
4.P.Rama devi - MPC	_____ P. Ramadevi
5.R.Ravalika - MPC	_____ R. Ravalika.
6.S.Anirudh - MPCs	_____ S. Anirudh
7.SK.Asma - MPCs	_____ Sk. Asma
8.K.Sai nikhitha - MPCs	_____ K. Sai Nikhitha
9.K.Bhavani - MPCs	_____ K. Bhavani
10.T.Sravanthi - MPC	_____ T. sravanthi

DEPARTMENT OF PHYSICS

STUDENT SEMINAR

Name :- K. Nikhitha
class :- MPCS - I year

తెలుగు భాషలో అనిర్వచిత సూత్రం $C_p - C_v = R$ తని నిరూపించండి

సాధన: నిరీక్షించు వస్తు ఆవరణమును ద్వారా అనిర్వచితం $C_p = \left(\frac{dq}{dT}\right)_P$ — ①

నిరీక్షించు వస్తు ఆవరణమును వర్ణించు అనిర్వచితం $C_v = \left(\frac{\partial q}{\partial T}\right)_V$ — ②

$$C_p - C_v = \left(\frac{\partial q}{\partial T}\right)_P - \left(\frac{\partial q}{\partial T}\right)_V \text{ — ③}$$

తెలుగు $dq = T ds$ నిరూపించండి

$$\left(\frac{\partial q}{\partial T}\right)_P = T \left(\frac{\partial s}{\partial T}\right)_P$$

$$C_p - C_v = T \left[\left(\frac{\partial s}{\partial T}\right)_P - \left(\frac{\partial s}{\partial T}\right)_V \right]$$