



MADURAI KAMARAJ UNIVERSITY

(University with Potential for Excellence)

Re-accredited by NAAC with 'A' Grade in the 3rd Cycle



Prof. V.S. Vasantha, M.Sc., Ph.D.,
Registrar (i/c)

Palkalai Nagar, Madurai – 625 021,
Tamil Nadu, India.

Ref.: B1/BoS/UG/Chemistry/Syllabus/2020

Date: 26-09-2020

ERRATA

To

All the Principals of Non-Autonomous Colleges
affiliated to Madurai Kamaraj University
(offering B.Sc.Chemistry under CBCS semester pattern)

Sir / Madam,

Sub: To carry out some minor corrections in the syllabus of B.Sc. Chemistry –
Appendix– BH (Page No.2028) of Academic Council dated 26-03-2018 –
intimated - reg.

Ref: Letter received from Dr. A. Mohamed Aslam, Chairman, Board of Studies
in Chemistry (UG) dated 24-09-2020

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With reference to the letter cited, I am to inform you that the following minor  
corrections in the syllabus of B.Sc. Chemistry – Semester V – Core Subject Paper VI – Physical  
Chemistry II – Unit – I – Page No.2028.

### Corrections to be made:

#### UNIT I: FIRST LAW OF THERMODYNAMICS AND ITS APPLICATIONS

- System-surroundings -Intensive and extensive variables; state and path functions; isolated, closed and open systems-Zeroth law of thermodynamics
- First law of thermodynamics-mathematical form- Enthalpy-Heat capacity, relation between  $C_p$  and  $C_v$ . Isothermal process: Change in internal energy, work done,  $W(\text{rev})$  and  $W(\text{irrev})$ .
- Adiabatic process: work done, Change in internal energy and enthalpy changes. – Application of first law of thermodynamics to adiabatic expansion. Relationship between Temperature – Volume, Pressure – Volume
- Joule- Thomson effect-derivation of Joule- Thomson coefficient for ideal gases and real gases, inversion temperature.
- Variation of enthalpy change of reaction with temperature (Kirchoff's equation). – Hess's law of constant heat of summation- Bond energy and heat of reaction

I request that this may be informed to the concerned staff and the students of  
your College, accordingly.

Yours faithfully,

### Copy to:

1. The Controller of Examinations
2. The Senior Deputy Registrar, Strong Room
3. The Assistant Registrar, Confidential
4. The Assistant Registrar, UG Courses
5. The Superintendent, B.Sc. Semester
6. The Superintendent, Confidential Section

REGISTRAR-i/c

*Handwritten signatures and dates:*  
26/09/2020  
26/09/2020  
26/09/2020