

## शैक्षिक बहुमाध्यम अनुसन्धान केन्द्र

Educational Multimedia Research Centre

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## //To whom it may concern//

This is to certify that Dr. Aditi Gupta, Department of Chemistry, Sri Venkateswara College, New Delhi is associated as Content writer and presenter with Educational Multimedia Research Centre, Dr. Harisingh Gour Vishwavidyalaya (A Central University) for developing four quadrant Massive Open Online Course of Under Graduate level titled as Chemistry of d-block elements, Quantum Chemistry and Spectroscopy of 4 credits. She has been contributed following topics in the area of Chemical Sciences:

## S. No. Name of Topic/ Module

- 1. Vibrational Motion: Schrodinger Equation
- 2. Quantization of Vibrational Energy level, Selection Rules for IR spectra
- 3. Anharmonic Oscillator
- 4. Joint vibration-rotation spectra of diatomic molecules
- 5. Vibration in polyatomic molecules
- 6. Factors affecting vibrational frequencies

Aforesaid MOOC was uploaded on SWAYAM portal of MoE, New Delhi.

(Director EMMRC)

निदेशक/Director शैक्षिक बहुमाध्यम अनुसंधान केन्द्र EDUCATIONAL MULTIMEDIA RESEARCH CENTRE डॉक्टर हरीसिंह गौर विश्वविद्यालय Doctor Hari Singh Gour Vishwavidyalaya सागर (ग्य)/Sanar (M.P.) 470003