



**Centre for Vedic Mathematical Studies**  
**School of Mathematics, Computers and Information Sciences**  
**Central University of Himachal Pradesh**  
(Established under Central Universities Act 2009)  
Shahpur Parisar, Shahpur – 176206  
[www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)



**Course Name: Vedic Calculations**

**Course Code: CVMS 282**

**Level: 3**

**Credits: 2**

**Credits Equivalent:**

(One credit is equivalent to 10 hours of lectures / organized classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

**Course Outcomes:** On completion of the course, the students will be able:

- To perform basic calculations
- To compute simple interest, and do permutation and combinations
- To understand the idea of mensuration, and height and distance

**Learning Outcomes**

The deliverables Learning Outcomes of this paper with students are following:

- Can explain the idea of transition methods as per Vedic Tradition.
- Can explain Rules of Barter, and simple interest as per Vedic Tradition.
- Can explain mensuration, and solve height and distance problems as per Vedic Tradition.
- Can take quick decisions through Vedic calculations.

**Attendance Requirements:**

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

**Evaluation Criteria:**

1. Mid Term Examination:20%
2. End Term Examination:60%
3. Continuous Internal Assessment: 20%. i.e. 20 marks out of100

**Course Contents:**

**Unit I:** Method of Transition, Square Transition, Inverse Proportion, Rules of Barter, Simple Interest, Permutations and Combinations, Partitions. **(10 HRS)**

**Practicum**

- Solving the Exercises of the selected Chapters
- Implementation on the selected real world problems

**Unit II:** Mensuration, Volume, Wood Cutting, Height and Distance.

**(10 HRS)**

**Practicum**

- Solving the Exercises of the selected Chapters
- Implementation on the selected real world problems

**General Practicum:**

- i. Class Room Presentation
- ii. Model/Chart/PowerPoint based presentations
- iii. Assignment/ Write Up/Creative work
- iv. Books/Journals Readings
- v. Tutorials/PBL

**Essential Reading:**

K. S. Patwardhan, S. A. Naimpally, S.L Singh: *Lilavati of Bhaskaracarya: A Treatise of Mathematics of Vedic Tradition*, Motilal Banarsidass Publishers Pvt. Ltd, Delhi (2001).