

Detailed Lecture-wise Breakup

Module -1 ‘Pāṇini’s Grammar’ towards communicating the Eternal

- Lecture -1 ‘Sanskrit: A language standardized’ - need for standardization
- Lecture -2 Vyākaraṇa - the process of standardization
- Lecture -3 The method of Vyākaraṇa - From *pratipadapāṭha* to *utsarga-apavāda* model

Module -2 Who is Pāṇini?

- Lecture -4 Introduction to 5 books of Pāṇini, the Vārttikas and the Mahābhāṣya
- Lecture -5 Pāṇini - The first descriptive linguist, the father of Linguistics
- Lecture -6 Algebraic nature of Pāṇini’s grammar - finite set of rules generates infinite words and sentences

Module -3 The Eight Amazing Chapters

- Lecture -7 The contents of Aṣṭādhyāyī
- Lecture -8 The Sūtra-style based on the principle of economy
- Lecture -9 ‘Anuvṛtti’ a tool leading to compression

Module -4 The secret of Sūtras

- Lecture -10 Meta-language of Sūtras based on *pratyāhāras* + *saṃjñās*
- Lecture -11 Use of cases to specify context
- Lecture -12 Ordering of Sūtras - Triggering of rules and conflict resolution

Module -5 The Three levels

- Lecture -13 The phonemic level
- Lecture -14 The word level
- Lecture -15 The sentential level

Module -6 Sorting the Sounds

- Lecture -16 Organizing phonological inventory in two different ways - The Varṇamālā and the Akṣara-samāmnāya
- Lecture -17 Preparing Pratyāhāras (Generalizability of Pāṇini’s Pratyāhāra Techniques to other Languages - Wiebke Petersen & Silke Hanmann)
- Lecture -18 The *sandhi* rules and introduction to the *sandhi* tool at <https://sanskrit.uohyd.ac.in/scl/>

Module -7 The Words - Where the Meaning Comes into Picture

- Lecture -19 Paradigms - verbal and nominal
- Lecture -20 Prakṛti + Pratyaya + transformation
- Lecture -21 Operations - assigning names, substitution, insertion, deletion

Module -8 Learning by Doing

- Lecture -22 Deciding upon the *prakṛti* and the *pratyaya* in the nominal forms
- Lecture -23 Deciding upon the *prakṛti* and the *pratyaya* in verbal forms and participles
- Lecture -24 Writing the transformation rules

Module -9 The Database

- Lecture -25 The Dhātupāṭha and Gaṇapāṭha
- Lecture -26 The Pratyayas in the Aṣṭādhyāyī
- Lecture -27 Various combinations of *prakṛti* and *pratyayas*

Module -10 Affinity to Programming Techniques

- Lecture -1 Data separation and data encapsulation
- Lecture -2 Subroutines - Example of *it-samjna* Sūtras