

## Aim

To give the students a thorough knowledge about the ayurvedic properties of selected herbs, their multi target pharmacological activities, and spectrum of application, the phytochemical changes during processing into a formulation

## 1. Course outcome statement

Module No	Outcome Statement
1	<p>Oushadha Kalpana Vijnana; Study of 30 single herbs representing diverse pharmacological modalities of action (primary examples for rasa, guna, virya, vipaka, karma, prabhava, samana and vicitra pratyayarabdha).</p> <p>Thirty important plant drugs that have a prominent rasadi vikalpa will be studied and also their exhibition of diverse pharmacological applications.</p>
2	<p>Oushadha yoga yukti vijnana; Understanding the rationale behind multi-ingredient ayurvedic formulations differentiating Pradhana and Apradhana Dravya.</p> <p>Few commonly prescribed and reputed formulations will be selected and analysed, to chalk the role of the ingredients in the pharmacodynamics. Help in differentiating between the pradhana and apradhana dravyas.</p>
3	<p>Bhaishajya Kalpana vicara; Pharmaceutical Phytochemistry- Understanding the Phytochemical changes during pharmaceutical processing of ayurvedic formulations.</p> <p>The phytochemical changes in selected formulations when subjected to various processing methods will be taught. Samskara induced changes in the guna- karma of drugs will be analysed.</p>
4	<p>Help analyse the multi-target pharmacological &amp; therapeutic actions of selected formulations</p> <p>The wide spectrum of pharmacological applications, formulation- wise will be analysed.</p>
5	<p>Drug- Herb Interaction- Review &amp; study of published single herb and biomedicine interaction, to help understand the concept and know the updates.</p>

Module 1 : Oushadha Kalpana Vijnana

30 detailed drugs, that are prominently used will be listed. In spite of the diverse rasa, guna, virya, vipaka, prabhava, key properties that initiate the specific pharmacological action will be studied.

#### Module 2: Oushadha yoga yukti vijnana

Commonly used multi-ingredient ayurvedic formulations will be listed. The pradhana and apradhana dravya will be identified and their role in defining the therapeutic applications will be studied.

#### Module 3. Bhaishajya Kalpana vicara

The phytochemical changes in a formulation when being subjected to various samskaras like heating, boiling, fermentation etc and the pharmacological application will be studied.

#### Module 4 : Analysis of multi-target pharmacological & therapeutic actions

Selected formulations will be analysed for their specific and wide spectrum pharmacological activity like jvarahara, shophahara, shulahara, udarahara and so on.

#### Module 5 : Drug- Herb Interaction

Literature Review of all studies pertaining to Drug and Herb interaction in databases will be done and listed.

#### Text books /References

- [1] Ashtanga Hridaya, Acarya Vagbhata, Chaukhambha Orientalia, Varanasi, 2005.
- [2] Ashtanga Samgraha, Acarya Vagbhata, Chaukhambha Sanskrit Series Office, Varanasi, 2016.
- [3] Caraka Samhita, Agnivesha, Chaukhambha Krishnadas Academy, Varanasi, 2006.
- [4] Susruta Samhita, Susruta, Chaukhambha Orientalia, Varanasi, 2005.
- [5] Sahasrayogam, Dr Prabhakara Rao, Chaukhambha Publications, New Delhi, 2019.

## SCHEME OF EVALUATION

Sl No.	In- semester assessment		End – semester assessment	
1	Periodical test	30 marks	End Semester Examination	50 mark
2	Assignment	10 marks		
3	Seminar	10 marks		
4	<b>Sub total</b>	<b>50</b>	<b>50</b>	
	<b>Grand total</b>		<b>100</b>	

### **ACTIVITIES/ CONTENT WITH DIRECT BEARING ON EMPLOYABILITY/ ENTERPRENEURSHIP/ SKILL DEVELOPMENT (based on NAAC Criteria):**

The learner will get a clear understanding of the concepts and ideas regarding the technical and theoretically relevant area which is explored in the course. This course will equip the learner to build a career as a Faculty in Ayurveda, Researcher in the respective field, Analyst in Ayurvedic firms