

# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

### Dravyaguna Vijnan I (02101201)

Type of Course: BAMS

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
100	-	100	-	100	200	-	-	-	300

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Dravyaguna Shastra Paribhasa (PART A):</b> Lakshana of Sapta Padartha of Dravyaguna Vijnana viz Dravya- Rasa- Guna- Virya- Vipaka- Prabhava and Karma.	%	
2	<b>Dravya (Part A):</b> Etymological derivation, definition, panchbhoutikatwa. Classification of Dravya according to Samhitas and Nighantus Taxonomical classification.	%	
3	<b>Guna (Part A):</b> Etymological derivation, definition and Classification of Guna. Detailed knowledge of Gurvadi Guna & Paradi gunas	%	
4	<b>Rasa (Part A):</b> Etymological derivation, definition, Meaning of "Rasa" in various contexts. Shad Rasas (Madhura, Amla, Lavana, Katu, Tikta, and Kashaya), Panchabhautik constitution of Rasas, Nirvritivisheshakrama (manifestation in general and particular), Ritu and shad rasa Rasanurasayoh bheda (Difference between rasa and anurasa), Lakshana (characteristics), Guna and Karma of shad Rasas, Kopana and Shamana of Dosha and dushya by Shad rasas. Effects of excess usage of Rasa. Rasopalabdh, Rasaskandha	%	
5	<b>Vipaka (Part A):</b> Etymological derivation and definition, difference between Avasthapaka and Vipaka, Types of Vipaka, (Dvididha- Trividha, Panchavidha) Guna and karma of Vipaka. Grades of Vipaka (taratamya), Vipakopalabdh hetu (Factors to determine Vipaka).	%	

6	<b>Veerya (Part A):</b> Etymological derivation, definition and Swarupa of Virya, Number of Virya. (Dwividha & Ashtavidha), Panchabhauthikatva Virya karmani (Effects of Virya), General principles in determination of virya along with exceptions	%	
7	<b>Prabhava (Part A):</b> Definition, Effects of Prabhava	%	
8	<b>Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength (balabal nirupana). Samanapratyayarabdha and Vichitrapratyayarabdha dravyas (Part A):</b>	%	
9	<b>Karma (Part A):</b> Lakshana, swaroopa and bheda of karma (Definition, nature and types of action)	%	
10	<b>Brief information on Karmas of dashemani gana of Charak Samhita. (Part A):</b>	%	
11	<b>Mishraka Gana (Part A):</b> a)- Audbhida Gana (Vegetable origin) Brihatpanchamoola, Laghupanchamoola, Vallipanchamoola, Kantakapanchamoola, Trinapanchamoola, Madhyamapanchamoola, Jeevaneeya panchamoola, Panchapallava, Panchavalakala, Triphala, Trikatu, Trimada, Chaturusana, Panchakola, Shadusana, Chaturbeeja, Jeevaniya gana, Ashtavarga, Trijataka, Chaturajataka, Katuchaturjataka Panchatikta, Amlapanchaka, Chaturbhadra, Trikarshika, Swalpatriphala, Madhuratriphala, Mahavisha, Upavisha, Agrya aushadh varga- Knowledge of Agrayaaushadha Varga with example. b)- Jangama Gana (Animal origin)- Ksheerashtaka, Mutrashtaka, Pitta panchaka. c)- Parthiva Gana (Mineral origin) - Lavana Panchaka, Kshara dvaya, Kshara Ashtaka.	%	
12	<b>Basis of nomenclature (Part A):</b> Basis of nomenclature of dravya, Basis and Derivation of synonyms.	%	
13	<b>Dravyaguna Shastra Vidhi (PART A):</b> Bheashaja Pariksha vidhi (as described in Charaka samhita vimana sthana 8), Dravya Sangrahana (collection of dravya)- Ecology- Classification of desha (geographical area) and bhumi (soil), swarupa of sangrahaniya dravya of (Nature and quality of drug to be collected). Sangrahana vidhi (Method of collection) -Vegetable and Animal origin drugs according to part used. Period of collection according to virya, samrakshana vidhi (preservation of collected dravyas), bheshajagara (Storehouse), study on different prayojyanga (useful plant parts).	%	
14	<b>some Concepts (Part B):</b> a) Concept of dravya shodhan (purification of dravya). b) Brief knowledge of Apamishran (adulterants) c) Concept of Abhava pratinidhi dravya (substitutes)	%	

15	<b>Prashasta bhesaja (ideal drug), plant extracts. Concept of viruddha Dravya (incompatibility of the dravya). (Part B):</b>	%	
16	<b>Introduction to Nighantu Vigyan - Dhanwantari Nighantu, Bhavaprakashanighantu, Rajanighantu (Part B):</b>	%	
17	<b>Brief knowledge of cultivation, conservation of medicinal plants and information about endangered species. (Part B):</b>	%	
18	<b>Pharmacology (Part B):</b> Introduction, Definition & scope of Pharmacology and Principles of general Pharmacology. Brief Knowledge about pharmacology of the following - Anaesthetics, CNS depressants, Sedatives, Hypnotics, Tranquilisers, Antipyretics, Analgesics, Antiepileptics, Antihypertensive, Antianginal, Antiplatelet, Hypolipidaemic, Haemopoetic, Coagulants, Bronchodilators, Aerosols/ Inhalants, Expectorants, Digestants, Carminatives, Antacids, Antiulcer, Laxatives, Antidiarrhoeals, Antiemetic, Hepatoprotective, Diuretic, Antidiuretic, Lithotriptic, Antiinflammatory, Hormonal therapy, Antiobesity, Antidiabetic, Antithyroid, Oxytocic. Galactagogues, Contraceptives, Styptics, Antihistamines, Antimicrobial, Antibiotics, Antimalarial, Amoebicidal, Antifilarial, Anthelmintic, Antifungal, Vitamins, Minerals, Water imbalance and IV fluids, Vaccines, antivenom, antirabbies serum, Local anti septics, drugs in ophthalmic practice, Anti cancer drugs and immunomodulators.	%	

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

Dravyaguna Vijnan II (02101202)

**Type of Course:** BAMS

**Prerequisite:**

**Rationale:**

**Teaching and Examination Scheme:**

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
100	-	100	-	100	-	-	-	-	100

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical

**Contents:**

Sr.	Topic	Weightage	Teaching Hrs.
	<b>Detailed Knowledge of Following Dravya (Part A):</b>  Detailed knowledge of following drugs with respect to Basonym of drug, Main Synonyms, Regional Name, Botanical Name, Family, Classification of Dravya (Gana) as described in Charak and Sushrut, External morphology, Useful parts, Important phytoconstituents, Rasa panchaka, Action on Dosha, Dhatu, Mala, Prayogarha vyadhi (therapeutic indications), Amayikaprayoga and Matra (Therapeutic administration and Dose), Vishishta yoga (names of important formulations), Vishakta Lakshan (adverse effects), Chikitsopachara (remedial measures) and Shodhana (as required) [Alphabetical order and Botanical names to all the drugs are to be added] Agaru Guggulu Pashanabheda Agnimantha Haridradvaya Patala Agnimantha Haritaki Pippali-Pippalimula Ahiphena Hingu Prishniparni Amalaki Jambu Punarnava Apamarga Jatamansi Pushkarmoola Aragvadha Jatiphal Rasna Aragvadha Jeerakadvaya Rasona Aldraka-Sunti Jyotishmati		

	Rohitaka			
	Arjuna			
	Kalamegha			
	Saireyaka			
	Arjuna			
	Kampillaka			
	Sarivadvaya			
	Arkadvaya			
	Kanchanara			
	Sarpagandha			
	Ashvagandha			
	Kantakari			
	Shalaparni			
	Asoka			
	Kapikacchu			
	Shallaki			
	Ativisha			
	Karkatakshringi			
	Shalmali			
	Bakuchi			
	Karpura			
1	Shankhapushpi			
	Baladvayam.	%		
	Katuki			
	Shatavari			
	Bhallataka			
	Khadira			
	Shigru			
	Bharangi			
	Kiratatikta			
	Shirisha			
	Bhrungaraj			
	Kumari			
	Shyonaka			
	Bibhitaka			
	Kumkum Kesara			
	Talisa Patra			
	Bijak/ Vijaysar			
	Kupilu			
	Tila			
	Bilva			
	Kushta			
	Trivrut			
	Brahmi			
	Kutaja			
	Tulasi			
	Bruhati			
	Lavanga			
	Tvak			
	Chandanadvaya,			
	Lodhra			
	Ushira			
	Chitraka			
	Madanaphala			
	Vacha			
	Dadima			
	Mandukaparni.			
	Varahi			
	Devadaru			
	Manjishtha			
	Varahi			
	Dhataki			
	Maricha			
	Varuna			
	Durva			
	Musta			
	Vasa			

Eladvayam Nagakeshara Vatsanabha Eranda Nimba Vidanga Gambhari Nirgundi Vidari Gokshura Palasha Yastimadhu Guduchi Parpata Yavani		
<b>Brief Knowledge of following dravyas (Part B):</b>  Brief Knowledge of following dravyas with Respect to Sanskrit Name, Botanical Name, Family, Habit (Samanya Swarupa), Parts Used and Indications. Agastya Jati Palandu Ajamoda Jayapala Parasika Yavani Akarkarabh Jeevanti Parijata Amlavetasa Kadali, Parisha Amra Kadamba Parnabija  Amragandhiharidra Kaidarya Parnayavani Ankola Kakamachi Parpataka Aparajita Kamala Parushaka Ashvagol Kankola Patalagarudi Ashvattha Karanja Patha Asthisrunkhala Karavellaka Patola Atasi Karavira Patranga Avartaki Karira Pilu Avartani Karpasa Plaksha Babbula Kasamarda Prasarani		

	Badara			
	Kasha			
	Priyala			
	Bakula			
	Kasni			
	Priyangu			
	Bhumyamalki			
	Kataka			
	Puga			
	Bijapoorra			
	Katphala			
	Putiha			
	Bola			
	Kebuka			
	Putranjivaka			
	Chakramarda			
	Kharjura			
	Rajika/Sarshapa			
	Champaka			
	Kitmari			
	Rohitaka			
	Chandrashura			
	Kokilaksha			
	Saptachakra			
	Changeri			
2	Koshataki		%	
	Saptaparna			
	Chavya			
	Kulatha			
	Saral			
	Chirbilva			
	Kumuda			
	Sarja			
	Chopachini			
	Kusha			
	Shala			
	Danti			
	Kusmanda			
	Shara			
	Darbha			
	Lajjalu			
	Sharapunkha			
	Dattura			
	Langali			
	Shatahwa			
	Dhanvayasa			
	Latakaranja			
	Shati			
	Dhanyaka			
	Latakasturi			
	Snuhi			
	Draksha			
	Madayantika			
	Sringataka			
	Dronapushpi			
	Mahanimba			
	Svarnakshiri			
	Gandhaprasarini			
	Mandukaparni			
	Tagara .			
	Garjara			
	Markandika			
	Tailaparni			
	Gojihva,			
	Masha			
	Talmuli			
	Gorakshaganja			

	Mashaparni Taruni Gunja Matulunga Tavakshira hinsapa Mayaphala Teja Patra Hinstra Meshashrunji Tuvaraka Hribera Methika Udumbara Hrutpatri Mudgaparni urana Ikshu Mulaka Vamsha Indravaruni Murva Vata Ingudi Nagabala Vatada Irimeda Nala Vrudhadaru Ishvaku Narikela Vrukshamla Isvari Nili Japa Padmaka		
3	<b>Introduction, Guna, Karma and Uses of following Jantava Dravya (Part B):</b>  Introduction, Guna, Karma and Uses of following Jantava Dravya (Drugs of Animal Origin). 1. Kasturi 2. Goroohana 3. Mrigasringa	%	
4	<b>Introductory Knowledge of Following Annapana Varga (Part B):</b>  1. Jala Varga 2. Dugdha Varga 3. Madhu Varga 4. Taila Varga 5. Sukadhanya Varga 6. Shamidhanya Varga 7. Phala Varga 8. Shaka Varga 9. Mamsa Varga 10. Aharayogi	%	

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# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

Agad Tantra Vyavahar Ayurved Evum Vidhi Vaidyak (02101203)

Type of Course: BAMS

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
200	-	100	-	100	100	-	-	-	200

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Vyavahara Ayurveda and Vidhivaidyaka (Part B):</b> Definition of Vyavahara Ayurveda (Forensic medicine) and Vidhivaidyaka (Medical jurisprudence), concise history of Vyavahara Ayurveda (Forensic medicine) and Vidhivaidyaka (Medical jurisprudence). Introduction to Indian Penal Code, Indian Evidence Act and Criminal Procedure Code.	%	
2	<b>Visha and Agadatantra (Part A):</b> Derivation, definition of Visha and Agadatantra. Scope of Agadatantra. Visha Utpatti, Visha Prabhava, Visha Pranaharana Kriya, Visha Guna, Visha Gati, Visha Vega Visha Sankata, Shankha Visha.	%	
3	<b>Legal Procedures (Part B):</b> Legal Procedures:- Inquest, Evidence, Witness, Courts and their powers.	%	
4	<b>Personal identity and its Medico legal aspects, forensic odontology, Introduction to Forensic Serology and DNA profiling (Part B):</b> Personal identity and its Medico legal aspects, forensic odontology, Introduction to Forensic Serology and DNA profiling.	%	
5	<b>Origin and Classification of Visha (Part A):</b> Origin and Classification of Visha:-Its sources, Difference between Visha, Madya and Oja guna, Visha Upadrava and Visha Mukta Lakshana.	%	

6	<b>Tests for detection of Visha (Part A):</b> Tests for detection of Visha, and Modern Toxicological Techniques of detection of poisons Visha Data Lakshana, Visha Peeta Lakshana, Signs and symptoms of Visha afflicted organs and personal effects. (Poisoning with Anjana, Lepa paduka, Abharana etc.	%	
7	<b>Death and its Medico Legal Aspects, Medico Legal autopsy and exhumation (Part B):</b> Death and its Medico Legal Aspects, Medico Legal autopsy and exhumation.	%	
8	<b>Injuries and thermal injuries, their medico Legal aspects, general introduction of weapons (Part B):</b> Injuries and thermal injuries, their medico Legal aspects, general introduction of weapons.	%	
9	<b>Environmental Toxicology (Part A):</b> Introduction to Environmental Toxicology- Samuhika Vishaprayoga-effect of chemical and nuclear warfare.	%	
10	<b>Dowry deaths (Domestic Violence), their Medico Legal importance and laws in relation to it (Part B):</b> Dowry deaths (Domestic Violence), their Medico Legal importance and laws in relation to it.	%	
11	<b>Asphyxial deaths and its Medico Legal importance (Part B):</b> Asphyxial deaths and its Medico Legal importance.	%	
12	<b>Vishopakrama described by Charak, General principles of Management of poisoning (Part A):</b> Vishopakrama described by Charak, General principles of Management of poisoning.	%	
13	<b>Poisoning due to poisons of plant origin (Part A):</b> Manifestation of poisoning due to poisons of plant origin their fatal Dose, fatal period, management of poisoning, post mortem appearance and its medico legal importance. Visha and Upavisha- Arka, Snuhi, Langali, Karaveera, Gunja, Ahiphena, Dhatura, Bhallataka, Vatsanabha, Kupeelu, Jayapala, Bhanga & Tobacco, Parthenium hysteriphorus, Chitraka, Eranda, Digitalis and Cerebra Odallam.	%	
14	<b>Garavisha, Dooshivisha, Viruddhahara (Part A):</b> Garavisha, Dooshivisha, Viruddhahara. Food adulteration and poisoning–classification, diagnosis, management and contemporary significance.	%	
15	<b>Jangama Visha (Part A):</b> Jangama Visha – Detailed study of Sarpa, Keeta, Loota, Vrischika, Mooshika, Alarka – Visha; Lakshana, Bheda, Chikitsa and their Sadhyasadyata (contemporary and classical views).	%	

16	<b>Medico Legal importance of Pregnancy, Delivery; Impotence &amp; Sterility, Abortion, Infanticide, battered baby. Virginity, Artificial Insemination, Legitimacy (Part B):</b> Medico Legal importance of Pregnancy, Delivery; Impotence & Sterility, Abortion, Infanticide, battered baby. Virginity, Artificial Insemination, Legitimacy.	%	
17	<b>Sexual offences, and their Medico Legal aspects. Sexual perversions (Part B):</b> Sexual offences, and their Medico Legal aspects. Sexual perversions.	%	
18	<b>Introduction to Forensic psychiatry (Part B):</b> Introduction to Forensic psychiatry.10	%	
19	<b>Introduction to Forensic psychiatry (Part B):</b> Introduction to Forensic psychiatry.	%	
20	<b>Poisoning due to Acids, Alkalies, metals, Non-metals, Asphyxiants and others (Part A):</b> Introduction to poisoning due to Acids, Alkalies, metals, Non-metals, Asphyxiants and others, their Fatal Dose, Fatal period, Manifestation, management, medico legal importance and postmortem appearance of poisoning due to: a) Acid and Alkalies– Sulphuric acid, Hydrochloric acid, Nitric acid, Hydrocyanic acid, Oxalic acid, Carbolic acid, Formic acid, alkalies in general. b) Asphyxiants – Carbon monoxide, Carbon dioxide, Hydrogen sulphide c) Nonmetallic poisons – Phosphorous, Iodine Metallic poisoning – Arsenic, Mercury, Lead, Copper, Zinc, Tin. d) Others - Petroleum – Kerosene Organo phosphorus compounds - Aluminum phosphate, Organo Chlorinated Compounds, Household poisons.	%	
21	<b>Madya and Madatyaya (Part A):</b> Madya and Madatyaya. Alcohol poisoning (Ethanol and Methanol).	%	
22	<b>Introduction to forensic laboratory (part B):</b> Introduction to forensic laboratory.	%	
23	<b>Ethics as in classical Texts (Part B):</b> Ethics as in classical Texts. Types of Vaidya, Pranabhisara and Rogabhisara Vaidya, Qualities of Vaidya, Responsibilities of Vaidya, Chaturvidha Vaidyavrutti, Duties of Vaidya to his patient, Vaidya Sadvritam, Apujya Vaidya, Code of conduct.	%	
24	<b>Introduction to Narcotic drugs and Psychotropic substances Act 1985 (Part A):</b> Introduction to Narcotic drugs and Psychotropic substances Act 1985.	%	
25	<b>Laws in relation to Medical practitioners: Indian Medicine Central Council Act (Part B):</b> Laws in relation to Medical practitioners: Indian Medicine Central Council Act.	%	

26	<b>Maintenance of medical record (Part B):</b> Maintenance of medical record.	%	
27	<b>Physician's responsibility (Part B):</b> Physician's responsibility in criminal matters, Professional negligence, Civil negligence, Criminal negligence, Medico Legal aspects of Acquired Immune Deficiency Syndrome, Rights of an unborn child, Medical Termination of Pregnancy Act Transplantation of	%	

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# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

Rasashastra Evam Bhaishajya Kalpana I (02101204)

Type of Course: BAMS

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
100	-	100	-	100	200	-	-	-	300

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Definition and etymology of Rasa, History of Rasashastra, Importance of Rasaushadhi, Concept of Rasa-Rasayana, Concept of Raseshwar Darshana. Concept of Rasashala and Rasamandap (Part A):</b> Definition and etymology of Rasa, History of Rasashastra, Importance of Rasaushadhi, Concept of Rasa-Rasayana, Concept of Raseshwar Darshana. Concept of Rasashala and Rasamandap.	%	
2	<b>Maharasa (Part B):</b> Abhraka (Biotite Mica), Vaikrantha, Makshika (Chalco-pyrite), Vimala (Iron Pyrite), Shilajatu, Sasyaka (Peacock ore), Chapala and Rasaka (Sphalerite).	%	
3	<b>Uparasa (Part B):</b> Gandhaka (Sulfur), Gairika (Red Ochre), Kasisa (Green Vitriol), Kankshi (Alum), Haratala (Orpiment), Manahshila (Realgar), Anjana and Kankustha.	%	
4	<b>Brief Description and Application of Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana, Murchana, Shodhana, Marana, Amrutikarana, Lohitikarana, Mruta Loha, Satwa Patana, Druti, Apunarbhava, Niruttha (Part A):</b> Brief Description and Application of Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana, Murchana, Shodhana, Marana, Amrutikarana, Lohitikarana, Mruta Loha, Satwa Patana, Druti, Apunarbhava, Niruttha, Rekhapurna, Varitara.	%	

5	<b>Dravya Varga: Amlavarga, Panchamrittika, Panchagavya, Panchamrita, Ksharashtaka, Dravakagana, Mitra panchaka, Rakta varga, Lavanapanchaka (Part A):</b>  Dravya Varga: Amlavarga, Panchamrittika, Panchagavya, Panchamrita, Ksharashtaka, Dravakagana, Mitra panchaka, Rakta varga, Lavanapanchaka.	%	
6	<b>Sadharana Rasa (Part B):</b>  Kampillaka, Gauri pashana (Arsenic oxide), Navasagara (Ammonium chloride), Kaparda (Cowry), Agnijara, Giri Sindura (Red oxide of Hg), Hingula (Red Cinnabar) and Mriddara shringa (Litharge).	%	
7	<b>Dhatu (Part B):</b>  Swarna (Gold), Rajata (Silver), Tamra (Copper), Loha (Iron), Vanga (Tin), Naga (Lead), Yashada (Zinc), Kamsya (Bronze), Pittala (Brass), Vartalooha. Dhatu -graha sambandha.	%	
8	<b>Yantras (Part A):</b>  Brief description of Yantras and their application Ulukhala Yantra, Khalwa Yantra, Kachhapa Yantra, Damaru Yantra - Vidhyadhara Yantra- Urdhwapatan, Addhapatan & Tiryakpatana Yantra, Jaranartha Tulayantra, Dolayantra, Patalayantra, Palika Yantra, Baluka Yantra, Bhudhara Yantra, Sthali Yantra, Swedana Yantra.	%	
9	<b>Musha (Crucible) (Part A):</b>  Brief description & application of Musha (Crucible): Samanya Musha, Gostani musha, Vajra Musha, Maha musha, Yoga musha, Vrintaka Musha, Malla / Pakwa musha. Different types of crucibles e.g. Silica crucible, platinum crucible. Mudra and Sandhi Bandhana.	%	
10	<b>Ratna (part B):</b>  Manikya (Ruby), Mukta (Pearl), Pravala (Coral), Tarkshya (Emerald), Pushparaga (Topaz), Vajra (Diamond), Nilam (Sapphire), Gomeda (Zircon or Cinnamome stone), Vaidurya (Cats eye). Ratnapariksha, Ratnadosha, Ratna-graha sambandha.	%	
11	<b>Uparatna (Part B):</b>  Vaikranta (Tourmaline), Suryakanta (Sun stone), Chandrakanta (Moon stone), Rajavarta (Lapis lazuli), Perojaka (Turquoise), Sphatikamani (Quartz), Trinakanta, Palanka, Putika, Rudhir.	%	
12	<b>Chullika (Part A):</b>  Brief description & applications of Chullika, Satwapatana Koshti, Patala Koshti, Gara Koshti, Angarakoshti and knowledge of various heating appliances viz. Gas stove, Hot plate, Heating mantle, Induction Stove, Hot Air Oven.	%	
13	<b>Putra (Part A):</b>  Concept, definition and types of Puta: Suryaputa, Chandraputa, Gomayaputa, Lawakaputa, Kukkutaputa, Kapotaputa, Varahaputa, Gajaputa, Mahaputa, Kumbhaputa, Valukaputa, Bhudharaputa, Applications of Electric muffle furnace and fuel (diesel) dependent furnace. Brief introduction to thermocouple and pyrometer.	%	

14	<b>Sudha varga (Part B):</b> Sudha (Lime stone ), Kaparda (Cowries), Shukti (Oyster Shell) , Shankh (Conch Shell), Mriga shringa (Stag horn), Khatika, Godanti (Gypsum) and Samudraphena (Cattle Fish bone), Kukkutanda twak (Hen's Egg Shell).	%	
15	<b>Sikata varga (Part B):</b> Sikata (Silica), Dugdhapashana (Talc), Nagapashana / Jaharmohara (Serpentine), Badarshama (silicate of lime ), Vyomashma (Sangeyashab - Jade), Kousheyashma (Asbestos) and Akika (Agate).	%	
16	<b>Parada (Part A):</b> Knowledge of Parada: Synonyms, Occurrence, natural and artificial sources of Parada, Hingulottha parada, Types of Parada, Parada Dosha: Naisargika, Yougika, Aupadhika (Kanchuka). Grahya-Agrahya Parada, Parada gati, Parada bandha, Shodhana of Parada. Parada sanskara and brief description of Ashtasamskara.	%	
17	<b>Murchhana and Jarana of Parada (Part A):</b> Concept of Murchhana and Jarana of Parada, Preparation of Kajjali, Classification of Rasaushadhi: Khalvi rasa e.g. Tribhuvana Keerti Rasa, Parpati Rasa- Rasa Parpati, Kupipakva Rasa- Rasa sindur, Pottali rasa - Hemagarbha pottali. Rasa sevana vidhi and pathya and apathya.	%	
18	<b>Kshara varga (Part B):</b> Sarja kshara (Sodium bicarbonate), Yava kshara, Tankana kshara (Borax), Surya Kshara (Potassium Nitrate).	%	
19	<b>Miscellaneous (Part B):</b> Mandura, Bola, Dam-ul Akhawayan (Raktabandhini), Kasturi, Bhoonag, Mayurpiccha, Sarjarasa, Madhoochishta.	%	
20	<b>Quality control , standardization and GMP of Rasaoushadhies (Part A):</b> Brief introduction of quality control , standardization and GMP of Rasaoushadhies.	%	
21	<b>Visha and Upavisha (Part B):</b> Introduction, collection and storage, classification, synonyms, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of following Visha and Upavisha-Vatsanabha, Kuchala, Jayapala, Dhattura, Bhanga, Bhallataka, Gunja, Arka, Snuhi. Langali, Karaveera, Ahiphena and Chitrakmool.	%	

22	<b>Aushadhi Yoga Gyanam- ingredients, manufacturing process, and bhesajprayogvidhi (Part B):</b>  Arogya Vardhini Gutika, Kasturibhairava Rasa, Kumara Kalyana Rasa, Garbhapala Rasa, Chandraprabha Vati, Chandramrita Rasa, Pratapalankeshwara Rasa, Pravalapanchamrita Rasa, Anandbhairava Rasa, Yogendra Rasa, Laxmivilas Rasa, Vasantakusumakara, Vasantamalati Rasa, Brihat Vata Chintamani Rasa, Shankha vati, Shwaskuthara Rasa, Hinguleswara Rasa, Hemagarbhapottali, Hridyarnava Rasa, Swarnavanga, Makaradhwaja, Putapakwavaisham Jwarantaka Loha, Vatvidhvamsan Rasa, Kamadugha Rasa, Laghusutshekhar Rasa, Navayasa Loha, Saptamrita Loha, Tamra Parpati, Panchamrita Parpati, Sveta Parpati.	%	
23	<b>Introduction to pharamcovigilance (Part B):</b>  Introduction to pharamcovigilance and its status in India, with reference to Ayurvedic drugs. A) Necessary to know – From part A and B : S. No. 1 to 9 B) Desired to know – From part B : S. No. 10	%	

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.



# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

Rasashastra Evam Bhaishajya Kalpana II (02101205)

Type of Course: BAMS

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
100	-	100	-	100	-	-	-	-	100

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>History and Chronological (kramika vikasa) development (Part A):</b> History and Chronological (kramika vikasa) development of Bhaishajyakalpana. Concept of Aushadha and Bhesajya.	%	
2	<b>Bahyopacharartha kalpana (External Applications)-Lepa (Part B):</b> Types of Lepa, methods of preparation and mode of application. Udvartan and Avachurnan, Method of preparation of Siktha Taila, Malahara – Sarjarasa Malahara, Gandhak Malahara, Upanaha, Atasi upanaha, Shatadhouta and Sahastradhouta Ghrita. Brief introduction of semi solid dosage forms- Ointments, Creams, Emulsions, Gels, Lotions.	%	
3	<b>Principles and precautions for preparation of formulations (Part B):</b> 2.1 Netraupacharartha kalpana (Ophthalmic preparations) – Seka, Drava, Pindi, Anjana - Ashchyotana - Tarpana - Putapaka and Vidalaka, Methods of preparation of eye drops, eye ointments. 2.2 Nasyopacharartha Kalpana - Classification of Nasya, Navana, Avapidana, Pradhaman, Marsha and Pratimarsha nasya. 2.3 Dhumapanartha kalpana - Classification of dhumpaana, Method of preparation of dhumvarti and its therapeutic uses. Dhupan: Vranadhupan, arshodhupan. 2.4 Mukhaprayogarth kalpana - Gandoosha - Kavala - Pratisaran, Tooth paste, Tooth powders and Mouth wash. 2.5 Basti kalpana- Classification, Method of preparation of Niruha and Anuvastana, Basti Therapeutic properties and uses of Basti.	%	
4	<b>Fundamental principles of Bhaishajya Kalpana (Part B):</b> Fundamental principles of Bhaishajya Kalpana.	%	

5	<b>Study of Ancient and Contemporary systems of 'Maana' (Units of measurement), Shushka -ardra –drava- dravya grahan niyam (Part A):</b>  Study of Ancient and Contemporary systems of 'Maana' (Units of measurement), Shushka -ardra –drava- dravya grahan niyam (Rules of measures of dry, fresh, liquid drugs); Grahyagrahyatva, Nava Puran dravya grahan niyam.	%	
6	<b>Brief knowledge of Standardization of Ayurvedic formulations- Kasthaushadhi (Part B):</b>  Brief knowledge of Standardization of Ayurvedic formulations- Kasthaushadhi.	%	
7	<b>Brief introduction of Drug and Cosmetics Act 1940 and Rules 1945 (Part B):</b>  Brief introduction of Drug and Cosmetics Act 1940 and Rules 1945.	%	
8	<b>Guidelines and Methods of collection, storage, preservation of Aushadhi dravya. Concept of Saviryatavadhi (shelf life) and stability in ancient and contemporary science (Part A):</b>  Guidelines and Methods of collection, storage, preservation of Aushadhi dravya. Concept of Saviryatavadhi (shelf life) and stability in ancient and contemporary science.	%	
9	<b>Bheshajprayogavidhi (Part A):</b>  Bheshajprayogavidhi : Aushadha Matra, Anupana and sahapan and Aushadh sevan kaala. (Posology).	%	
10	<b>Concept of, Aushadhi Nirmanshala, with respect to Good Manufacturing Practices (GMP) in accordance to Schedule T (Part B):</b>  Concept of, Aushadhi Nirmanshala, with respect to Good Manufacturing Practices (GMP) in accordance to Schedule T.	%	
11	<b>Panchavidha kashaya kalpana and Other kalpana (Part A):</b>  Kashaya Yoni, Swarasa, Kalka, Kwatha, Hima and Phanta, Pramathya, Aushadha siddha paniya, Tandulodaka, Laksha rasa, Mantha, Panaka, Arka, Churna, Rasakriya, Ghana, Phanita, Avaleha, Prasha, Gudapaka, Sharkara, Syrups, Ksheerapaka, Satva, Guggulu kalpana, Vati, Gutti, Pinda, Modaka, Varti Preparation of Tablets, pills, capsule and Suppositories. Masi kalpana, Lavana kalpana, Kshara kalpana and Kshara sutra.	%	
12	<b>Introduction and general knowledge of useful instruments/ Equipments (Part A):</b>  Disintegrator, Mixer, Grinder, End Runner, Edge Runner, Sieve-Shaker, Granulator, Tableting machine, Pill making machines, coating and polishing pan, capsule filling machine, sieves and mesh.	%	
13	<b>Sneha kalpana (Part A):</b>  Sneha yoni, Types of Sneha, Sneha murchana vidhi, Sneha paka vidhi, patra paka, types and their use. Sneha siddhi lakshana, dose, Preparation and uses of Triphala Ghrita, Bramhighrita, Narayana taila, Anutaila.	%	

14	<b>Sandhana Kalpana and its types (Part A):</b> Madya Kalpana, Asava, Arishta, Sura (Prasanna - Kadambari - Medaka - Jagala - Bakkasa), Maireya, Surasava, Shukta, Kanjika, Sauvira, Tushodaka, Sidhu kalpana their methods of preparation, siddhi lakshana, properties, uses, doses. Takrarishta, Draksharishta, Ashokarishta, Dashamoolarishta, Kumaryasava, Chandanasava.	%	
15	<b>Kritanna and Aushadhisiddha anna Kalpana (Part A):</b> Definition of Kritanna, Concept of Pathya and Apathya, Yavagu –types of yavagu, Manda, Peya, Vilepi, Anna, Bhakta, Odan, Yush -types, Krishara, Mansa rasa, Vesavara, Khad Kamblika, Raga, Shadava, Dadhi and Takra Varga – Takra, Udasvita, Katvar, Mathita, Chhachika.	%	

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# PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

## SYLLABUS FOR 2nd Year BAMS PROGRAMME

Charaka Samhita - Purvardha (02101206)

Type of Course: BAMS

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
Lect	Tut	Lab		External		Internal			
				T	P	T	CE	P	
200	-	-	-	100	-	-	-	-	100

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Sutrasthana (Part A):</b> Sutrasthana	%	
2	<b>Nidanasthana (Part B):</b> Nidanasthana	%	
3	<b>Vimanasthana (Part B):</b> Vimanasthana	%	
4	<b>Indriyasthana (Part A):</b> Indriyasthana	%	
5	<b>Sharirasthana (Part B):</b> Sharirasthana	%	

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.