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छत्रपती शाहू महाराज शिक्षण संस्था संचालित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

Estd : 1989
NCISM College Code : AYU0153
MUIS College Code : 124101

(Recognized by National Commission for Indian System of Medicine, Ministry of AYUSH,
Govt. of India, New Delhi & Affiliated to Maharashtra University of Health Sciences, Nashik.)



ATP of Applied Basics of Dravyaguna Vijnana (AYPG-AB-DG)

Pre M.D.

M-1 Digital databases and tools for Dravyaguna: Data mining, analysis and application (Marks: Range 5-20)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Secondary metabolites in medicinal plants	2	1	1
		(U-2) Databases for predicting structural relationships	2	1	1
		(U-3) Databases for predicting functional relationships	2	1	1
2	Vd.J.V.Kulkarni	(U-1) Secondary metabolites in medicinal plants	2	1	1
		(U-2) Databases for predicting structural relationships	2	1	1
		(U-3) Databases for predicting functional relationships	2	1	1
3	Vd.P.P.Surve	(U-1) Secondary metabolites in medicinal plants	1	3	3
		(U-2) Databases for predicting structural relationships	1	3	3
		(U-3) Databases for predicting functional relationships	1	3	3
		TOTAL	15	30	45
		Modular Assessment			



Amey
H.O.D. & Professor
Dept. of Dravyaguna
Chhatrapati Shahu Maharaj Shikshan Sanstha's
Ayurved Mahavidyalaya & Rugnalaya,
Kanchanwadi, Aurangabad.

Principa
Principal
Chhatrapati Shahu Maharaj Shikshan Sanstha's
Ayurved Mahavidyalaya & Rugnalaya,
Kanchanwadi, Chhatrapati Sambhajinagar.



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Module -2

(M-2) Instruments and Equipment used in Quality control of medicinal plants in Dravyaguna (Marks: Range 5-15)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Instruments and equipment in Analytical pharmacognosy	3	2	2
		(U-2) Instruments and equipment for advanced Analytical methods	3	2	2
2	Vd.J.V.Kulkarni	(U-1) Instruments and equipment in Analytical pharmacognosy	2	2	2
		(U-2) Instruments and equipment for advanced Analytical methods	3	2	2
3	Vd.P.P.Surve	(U-1) Instruments and equipment in Analytical pharmacognosy	2	1	4
		(U-2) Instruments and equipment for advanced Analytical methods	2	3	3
		TOTAL	15	30	45
		Modular Assessment			

M-3 Introduction to Experimental Pharmacology (Marks: Range 5-20)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Laboratory Animals	1	1	1
		(U-2) Preclinical screening models & Computer aided learning	2	1	1
2	Vd.J.V.Kulkarni	(U-1) Laboratory Animals	2	2	1
		(U-2) Preclinical screening models & Computer aided learning	1	2	1
3	Vd.P.P.Surve	(U-1) Laboratory Animals	2	2	3
		(U-2) Preclinical screening models & Computer aided learning	2	2	3
		TOTAL	10	20	30
		Modular Assessment			



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Principal
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(M-4) Guna and their pharmacotherapeutics (Marks: Range 5-20)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Gurvadi Guna	2	1	1
		(U-2) Paradii Guna	2	1	1
		(U-3) Vishishta Guna & Adhyatma Guna	2	1	1
2	Vd.J.V.Kulkarni	(U-1) Gurvadi Guna	2	1	1
		(U-2) Paradii Guna	2	1	1
		(U-3) Vishishta Guna & Adhyatma Guna	2	1	1
3	Vd.P.P.Surve	(U-1) Gurvadi Guna	1	3	3
		(U-2) Paradii Guna	1	3	3
		(U-3) Vishishta Guna & Adhyatma Guna	1	3	3
		TOTAL	15	30	45
		Modular Assessment			

(M-5) Rasa and their pharmacotherapeutics (Marks: Range 5-20)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Shadrasa	4	2	2
2	Vd.J.V.Kulkarni	(U-1) Shadrasa	4	2	2
3	Vd.P.P.Surve	(U-1) Shadrasa	2	6	6
		TOTAL	10	20	30
		Modular Assessment			



[Signature]
HOD, & Principal
Dept. of Dr.
Chhatrapati Shahu Maharaj Shikshan
Ayurved Mahavidyalaya & Rugnalaya,
Kanchanwadi, Aurangabad

[Signature]



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(M-6) Vipaka and their pharmacotherapeutics (Marks: Range 5-15)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Vipaka	2	3	3
2	Vd.J.V.Kulkarni	(U-1) Vipaka	2	5	3
3	Vd.P.P.Surve	(U-1) Vipaka	2	7	6
		TOTAL	06	30	24
		Modular Assessment			

(M-7) Virya and Prabhava and their pharmacotherapeutics (Marks: Range 5-15)

Sr.No.	Name of staff	Syllabus point	Lecture 1 hrs	Practical 2 hrs	Ex.Learning 3 hrs
1	DR.A.M.Ghotankar	(U-1) Veerya	1	-	1*3
		(U-2) Prabhava	1	1	1*3
2	Vd.J.V.Kulkarni	(U-1) Veerya	1	1	1*3
		(U-2) Prabhava	1	2	1*3
3	Vd.P.P.Surve	(U-1) Veerya	-	2	1 [hr]
		(U-2) Prabhava	1	1	2 [hr]
		TOTAL	05	10	15
		Modular Assessment			



[Signature]
H.O.D. & In-charge
Dr. ...
Chhatrapati Shahu Maharaj
Ayurved Mahavidyalaya & Rugnalaya,
Kanchanwadi, Aurangabad.

[Signature]
Principal
Chhatrapati Shahu Maharaj Shikshan Sanstha's
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Estd : 1989
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MUHS College Code : 3401

Dravyaguna

Final MD

Admitted 2023-24

(Bansode Batch)

	DR A M GHOTANKAR
Paper	Topic No
1	Part -A 1. Importance of Namagyan of Dravya, origin of Namarupagyan of Aushadhi in veda, etymological derivation of various names and synonyms of Aushadhi. (with meaning) 2. Rupagyan in relation to Aushadhi. Plant no-65-125 Nice to know plants no 1-22 5. Knowledge of Anuktadravya (Extra – pharmacopoial drugs) with regards to Namarupa. Part -B 1. Pharmacognostical study of different parts of the plants with reference to Macroscopic and microscopic study and Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation. (Kanda(Guduchi, Apamarga), Patra (Vasa, Markandika), Pushpa (Lavang, Nagapushpa), Phala (Pippali, Bibhitaka), Beeja (Vidanga, Kuchala), Tvak (Arjuna, Kutaja), Mula (Shatavari, Ashwagandha), Nirayasa (Hingu, Guggul). 2. Methods of drugs Standardization and Quality control.
2	Part -A 1. Fundamental principles of drug action in Ayurveda 2. Detailed Study of rasa-guna-virya-vipaka-prabhava and karma with their applied aspects and views of commentators (Chakrapanidatta, Dalhana, Arunadatta, Hemadri, and Indu) on them. Part -B 1. Fundamental Principles of General pharmacology 2. Modern pharmacological principles and knowledge of drugs acting on various systems.
3	Part -A 3. Samyoga- viruddha Siddhanta and its importance with examples. Part -B 4. Knowledge of Pharmacogenomics.
4	Part -A 1. Etymology of Nighantu, their relevance, utility and silent features. 2. Details of the following Nighantus with regards to author's name, period, and content- Paryayaratnamala, Dhanvantari Nighantu, Hridayadipakanighantu, Ashtanganighantu, Rajanighantu, Siddhamantranighantu, Bhavaprakashanighantu, Madanpalanighantu, Rajavallabhanighantu, Madhava Dravyaguna, kaiyadevanighantu, shodhanighantu, shaligramnighantu, Nighantu Ratnakar, Nighantuadarsha, and Priya Nighantu. Part -B 1. General awareness on aharayogi (Nutraceuticals), soundaryaprasadana (cosmoceutical), food additives, excipients etc. 2. Knowledge of Plant extracts, colouring and flavouring agents and preservatives.

Principal

Principal

H.O.D. & Professor

H.O.D. & Professor
Dept. of Dravyaguna



Chhatrapati Shahu Maharaj Shikshan Sanstha's
Ayurved Mahavidyalaya & Rugnalaya,

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DR P P SURVE	
Paper	Topic No
1	Part -A 4. Distinguishing morphological characteristics features (swaroopa) of medicinal plants listed in Ayurvedic pharmacopoeia of india (API). Plant no-125-185 Nice to know plants no 45-66 Part -B 5. Knowledge of tissue culture techniques. 6. Knowledge of Genetically Modified Plants. 7. Knowledge of advances in cultivations of medicinal plants. 3. Basic knowledge on experimental pharmacology for the evaluation of – analgesic, antipyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardioprotective, hepatoprotective, diuretics, adaptegens, CNS activities, anti microbial and antimycotic activities.
2	Part -A 5. Detailed study of aharadravya ,aharavarga and kritannavarga described in Brihatrayee and various nighantus.(Especially Bhavaprakash&Kaiyadevnighantu) 6. Knowledge of guna and karma of anuktadravyas.(Only karma should be asked not guna of anuktadravyas). Part -B 3. Basic knowledge on experimental pharmacology for the evaluation of – analgesic, antipyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardioprotective, hepatoprotective, diuretics, adaptegens, CNS activities, anti microbial and antimycotic activities.
3	Part -A 3. Samyoga- viruddha Siddhanta and its importance with examples. Part -B 1. Knowledge of Pharmaco-vigilance in Ayurveda & modern medicine. 2. Adverse drug reactions & drug interaction of medicinal plants.
4	Part -A 4. Dashemani and Agryasangraha of Charak and Vagbhat should be included. Part -B 4. Knowledge of important scientific publications of various Departments & ministries of Govt. of India – like department of AYUSH, CCRAS, RAV, ICMR, CSIR etc

DR J V KULKARNI		H.O.D. & Professor Dept. of Dravyaguna Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Aamingshad.
Paper	Topic No	
1	Part -A 3. Basonym and Synonyms of dravyas(Aushadha&Ahara) mentioned in vedic compendia, Brihatrayee, Bhavaprakash and Rajanighantu.(Synonyms in Bhavaprakashnighantu should be focused). Plant no-1-65 Nice to know plants no 23-44 6. Sandigdhadravaya (controversial drugs) vinaschaya.	<i>(Signature)</i> Principal Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Aamingshad.

Address : Kanchanwadi, Paithan Road, Chhatrapati Sambhajnagar- 431 011 (M.S.) कान्चनवाडी, पैठण रोड, छत्रपती संभाजीनगर- ४३१०११ (महाराष्ट्र.)

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	Part -B 3. Knowledge of biodiversity, endangered medicinal species. 4. Knowledge of TKDL, Introduction to relevant portions of following Acts – Drugs and Cosmetic Act, Drug & Magic Remedies Act, FSSA, AFA, Wildlife & Biodiversity Acts & Intellectual property Right (IPR) and Regulations pertaining to Import and Export of Ayurvedic Drugs.
2	Part -A 3. Comprehensive study of karma as defined in Brihatrayee&Laghutrayee. 4. Detailed study of guna& karma of dravyas listed API and BhavaprakashaNighantu along with current research review. Part -B 4. Studies on changes occurring in purification of poisonous plants drugs.
3	Part -A 1. BhaishajyaprayogaSiddhant [Principles of drug administration]-BhaishajyaMarga (routes of drug administration), Vividhakalpana (dosage forms), Principles of Yoga Vijnan(compounding),Matra(dosage),Anupana(Vehicle),AushadhaSevanakal, (shedules of drug administration), Sevankalavadhi (duration of drug administration), Pathyapathya (Do's & Don'ts), Complete Prescription writing (SamagraVyavasthapatraka). Part -B 3. Knowledge of clinical pharmacology and clinical drug research as per GCP guidelines.
4	Part -A 3. Detailed study of Ekala Aushadhakalpana (manufacturing of dosage forms of single drugs) mentioned in Sharangadharasamhita and Ayurvedic Formulary of India (AFI). Part -B 3. Knowledge of pharmacopocias of different countries- API, BHP.

H.O.D. & Professor
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ATP Final M.D.[Janse batch-2022-23]

Paper	Topic No
1	3. Basonym and Synonyms of dravyas(Aushadha&Ahara) mentioned in vedic compendia, Brihatrayee, Bhavaprakash and Rajanighantu.(Synonyms in Bhavaprakashnighantu should be focused). Plant no-1-65 Nice to know plants no 23-44
2	6. Sandigdhadravaya (controversial drugs) vinischaya. 3. Knowledge of biodiversity, endangered medicinal species. 4. Knowledge of TKDL, Introduction to relevant portions of following Acts – Drugs and Cosmetic Act, Drug & Magic Remedies Act, FSSA, AFA, Wildlife & Biodiversity Acts & Intellectual property Right (IPR) and Regulations pertaining to Import and Export of Ayurvedic Drugs. 4. Studies on changes occurring in purification of poisonous plants drugs. 3. Comprehensive study of karma as defined in Brihatrayee & Laghutrayee. 4. Detailed study of guna& karma of dravyas listed API and Bhavaprakasha Nighantu along with current research review.
3	1. Bhaishajyaprayoga Siddhant [Principles of drug administration]-Bhaishajya Marga (routes of drug administration), Vividha kalpana(dosage forms), Principles of Yoga Vijnan (compounding), Matra (dasage), Anupana(Vehicle), AushadhaSevanakal,(shedules of drug administration), Sevankalavadhi (duration of drug administration), Pathyapathya (Do's & Don'ts), Complete Prescription writing (SamagraVyavasthapatraka). 3. Knowledge of clinical pharmacology and clinical drug research as per GCP guidelines.
4	3. Detailed study of Ekala Aushadha Kalpana (manufacturing of dosage forms of single drugs) mentioned in Sharangadhara samhita and Ayurvedic Formulary of India (AFI). 3. Knowledge of pharmacopoeias of different countries- API, BHP.

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DR P P SURVE	
Paper	Topic No
1	4. Distinguishing morphological characteristics features (swaroopa) of medicinal plants listed in Ayurvedic pharmacopoeia of India (API). Plant no-125-185 Nice to know plants no 45-66 5. Knowledge of tissue culture techniques. 6. Knowledge of Genetically Modified Plants. 7. Knowledge of advances in cultivations of medicinal plants. 3. Basic knowledge on experimental pharmacology for the evaluation of – analgesic, antipyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardio protective, hepatoprotective, diuretics, adaptegens, CNS activities, anti microbial and antimycotic activities.
2	5. Detailed study of aharadravya, aharavarga and kritannavarga described in Brihatrayee and various nighantus. (Especially Bhavaprakash & Kaiyadev nighantu) 6. Knowledge of guna and karma of anuktadravyas. (Only karma should be asked not guna of anuktadravyas).
3	3. Samyoga- viruddha Siddhanta and its importance with examples. 1. Knowledge of Pharmaco-vigilance in Ayurveda & modern medicine. 2. Adverse drug reactions & drug interaction of medicinal plants.
4	4. Dashemani and Agryasangraha of Charak and Vagbhat should be included. 4. Knowledge of important scientific publications of various Departments & ministries of Govt. of India – like department of AYUSH, CCRAS, RAV, ICMR, CSIR etc.

DR J V KULKARNI	
Paper	Topic No
1	1. Importance of Namagyan of Dravya, origin of Namarupagyan of Aushadhi in veda, etymological derivation of various names and synonyms of Aushadhi. (with meaning) 2. Rupagyan in relation to Aushadhi. Plant no-65-125 Nice to know plants no 1-22 5. Knowledge of Anuktadravya (Extra – pharmacopoeial drugs) with regards to Namarupa. 1. Pharmacognostical study of different parts of the plants with reference to Macroscopic and microscopic study and Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation. (Kanda (Guduchi, Apamarga), Putra (Vasa, Markandika), Pushpa (Lavang, Nagapushpa), Phala (Pippali, Bibhitaka), Beeja (Vidanga, Kuchala), Tvak (Arjuna, Kutaja), Mula (Shatavari,

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Address : Kanchanwadi, Palihalli Road, Chhatrapati Sambhaji Nagar- 431 011. (M.S.) कांचनवाडी, पैडण रोड, छत्रपती संभाजीनगर - ४३१ ०११ (एम.एस.)

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AYURVED MAHAVIDYALAYA & RUGNALAYA

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	Ashwagandha), Nirryasa(Hingu, Guggul). 2. Methods of drugs Standardization and Quality control.
2	1. Fundamental principles of drug action in Ayurveda 2. Detailed Study of rasa-guna-virya-vipaka-prabhava and karma with their applied aspects and views of commentators (Chakrapanidatta, Dalhana, Arunadatta, Hemadri, and Indu) on them. 1. Fundamental Principles of General pharmacology 2. Modern pharmacological principles and knowledge of drugs acting on various systems.
3	3. Samyoga- viruddhaSiddhanta and its importance with examples. 4. Knowledge of Pharmacogenomics.
4	1. Etymology of Nighantu, their relevance, utility and silent features. 2. Details of the following Nighantus with regards to author's name, period, and content- Paryayaratnamala, DhanvantariNighantu, Hridayadipakanighantu, Ashtanganighantu, Rajanighantu, Siddhamantranighantu, Bhavaprakashanighantu, Madanpalanighantu, Rajavallabhanighantu, MadhavaDravyaguna, kaiyadevanighantu, shodhalanighantu, shaligramnighantu, NighantuRatnakar, Nighantuadarsha, andPriyaNighantu. 1. General awareness on aharayogi(Nutraceuticals), soundaryaprasadana (cosmoceutical), food additives, excipients etc. 2. Knowledge of Plant extracts, colouring and flavouring agents and preservatives.

Principals
Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's
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Kanchanwadi, Chhatrapati Sambhajinagar



H.O.D. & Professor

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