

PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

SYLLABUS FOR 2nd Year MS/MD PROGRAMME

Dravyaguna Vigyan - Namarupa Vigyana - Paper 1 (02204201)

Type of Course: MS/MD

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/ Year	Tut Hrs/ Week	Lab Hrs/ Year		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	Namarupavigyana: Importance of Namagyana of Dravya, origin of Namarupagyana of Aushadhi in Veda, etymological derivation of various names and synonyms of Aushadhi	%	
2	Aushadha Rupavigyana: Rupagyana in relation to Aushadhi. Sthula and Sukshma description (Macroscopic and Microscopic study) of different parts of the plant	%	
3	Synonyms: Synonyms of dravyas(aushadha and Ahara) mentioned in Vedic compendia, Brihatrayee, Bhavaprakasha and Rajanighantu	%	
4	Basonyms: Basonyms, synonyms and distinguish morphological characteristic features of medicinal plants listed in Ayurvedic Pharmacopoeia of India (API).	%	
5	Anukta Dravya: Knowledge of Anukta dravya (Extrapharmacopial drugs)with regards to namarupa	%	
6	Sandigdha: Sandigdha dravya(Controversial drugs) vinischaya	%	
7	Knowledge of biodiversity, endangered medicinal species.: Knowledge of biodiversity, endangered medicinal species.	%	

8	TKDL and Durg & Cosmetic act: Knowledge of TKDL, Introduction to relevant portions of Drugs and cosmetic act, Magic remedies Act, Intellectual Property Right (IPR) and Regulations pertaining to Import and Export of Ayurvedic drugs.	%	
9	Knowledge of tissue culture techniques: Knowledge of tissue culture techniques	%	
10	Knowledge of Genetically Modified Plants: Knowledge of Genetically Modified Plants	%	

***Continuous Evaluation:**

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

List of Practical:

1. Study tours
2. Evaluation of Crude drugs
3. Phytochemical evaluation of raw material
4. Yoga vijnana
5. Pharmacology
6. Clinical
7. Postings

PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

SYLLABUS FOR 2nd Year MS/MD PROGRAMME

Dravyaguna Vigyan - Guna Karma Vigyan - Paper 2 (02204202)

Type of Course: MS/MD

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/ Year	Tut Hrs/ Week	Lab Hrs/ Year		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	Fundamental principles of drug action in Ayurveda and conventional medicine: Fundamental principles of drug action in Ayurveda and conventional medicine	%	
2	Rasapanchaka: Detailed study of rasa-guna- virya- vipaka-prabhava and karma with their applied aspects and commentators (Chakrapanidatta, Dalhana, Arunadatta, Hemadri and Indu) views on them	%	
3	Comprehensive study of karma as defined in Brihatrayee & Laghutrayee: Comprehensive study of karma as defined in Brihatrayee & Laghutrayee	%	
4	Detailed study of Guna and Karma of dravyas listed in API and Bhavaprakasha Nighantu along with current research review: Detailed study of Guna and Karma of dravyas listed in API and Bhavaprakasha Nighantu along with current research review	%	
5	Detailed study of aharadravya/ ahara varga ascribed in Brihatrayee and various nighantus along with Kritanna varga: Detailed study of aharadravya/ ahara varga ascribed in Brihatrayee and various nighantus along with Kritanna varga	%	

6	Pharmacological principles and knowledge on drugs acting on various systems: Pharmacological principles and knowledge on drugs acting on various systems	%	
7	Experimental Pharmacology: Basic knowledge on experimental pharmacology for the evaluation of - analgesic, anti pyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardio protective, hepatoprotective, diuretics, adaptogens, CNS activities.	%	
8	Knowledge on Heavy metal analysis, pesticidal residue and aflatoxins: Knowledge on Heavy metal analysis, pesticidal residue and aflatoxins	%	
9	Knowledge on evaluation of anti microbial and antimycotic activities: Knowledge on evaluation of anti microbial and antimycotic activities	%	

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PARUL UNIVERSITY - FACULTY OF AYURVED

Department of Ayurved

SYLLABUS FOR 2nd Year MS/MD PROGRAMME

Dravyaguna Vigyan - Prayogavigyana - Paper 3 (02204203)

Type of Course: MS/MD

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/ Year	Tut Hrs/ Week	Lab Hrs/ Year		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	Drug Administration: Bhaishjya Prayog Siddhant [Principles of drug administration] - Bhaishajya Marga (routes of drug administration), Vividha Kalpana (Dosage forms), Principles of Yoga Vijnan(compounding), Matra (Dosage), Anupana (Vehicle), Aushadha grahankal (Time of drug administration), Sevankal avadhi (duration of drug administration), Pathyapathya (Dos' /Donts' /Contraindications), complete Prescription writing (Samagra Vyavastha patraaka)	%	
2	Samyoga- Viruddh Sidhanta and its importance: Samyoga- Viruddh Sidhanta and its importance	%	
3	Therapeutic use of important plants: Amayika prayoga (therapeutic uses) of important plants ascribed in as well as Brihatrayee, Chakradutta, Yoga ratnakara and Bhavaprakasha	%	
4	Pharmaco vigilance: Knowledge of Pharmaco-vigilance in Ayurveda and conventional system of medicine.	%	
5	Knowledge of clinical pharmacology and clinical drug research as per GCP guide lines.: Knowledge of clinical pharmacology and clinical drug research as per GCP guide lines.	%	
6	Knowledge of Pharmacogenomics: Knowledge of Pharmacogenomics	%	

*Continuous Evaluation:

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

PARUL UNIVERSITY - FACULTY OF AYURVED

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SYLLABUS FOR 2nd Year MS/MD PROGRAMME

Dravyaguna Vigyan - Paper 4 (02204204)

Type of Course: MS/MD

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/ Year	Tut Hrs/ Week	Lab Hrs/ Year		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	Etymology of nighantu, their relevance, utility and salient features: Etymology of nighantu, their relevance, utility and salient features	%	
2	History of Nighantus: Chronological history of the following Nighantus with their authors name, period and content- Paryaya ratnamala, Dhanvantari nighantu, Hridayadipika nighantu, Ashtanga nighantu, Rajanighantu, Siddhamantra nighantu, Bhavaprakasha nighantu, Madanpala nighantu, Rajavallabha nighantu, Madhava Dravyaguna, Kaiyadeva nighantu, Shodhala nighantu, Saligram nighantu, Nighantu ratnakara, Nighantu adharsha and Priya nighantu	%	
3	Detailed study Aushadha kalpana mentioned in Sharangadhara samhita and Ayurvedic Formulary of India (AFI): Detailed study Aushadha kalpana mentioned in Sharangadhara samhita and Ayurvedic Formulary of India (AFI)	%	
4	General awareness on poshaka ahara(Nutraceuticals),Varnya (cosmoceuticals), food additives, Excipients etc: General awareness on poshaka ahara(Nutraceuticals),Varnya (cosmoceuticals), food additives, Excipients etc	%	
5	Knowledge of plant extracts, colors, flavors and preservatives: Knowledge of plant extracts, colors, flavors and preservatives	%	

6	Review of important modern works on classical medicinal plants published by Govt of India, department of AYUSH and ICMR: Review of important modern works on classical medicinal plants published by Govt of India, department of AYUSH and ICMR	%	
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***Continuous Evaluation:**

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