Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)

Roga Nidan evam Vikriti Vigyan

(SUBJECT CODE : AyUG-RN)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)

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।। आयुषे सर्वलोकानाम् ।।

BOARD OF AYURVEDA
NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE
NEW DELHI-110058

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-RN

Summary

Total number of Teaching hours: 450			
Lecture hours(LH)-Theory		150	150(LH)
Paper I	60		
Paper II	90		
Non Lecture hours(NLH)-Theory		300	300(NLH)
Paper I & II	90		
Non Lecture hours(NLH)-Practical			
Paper I & II	210		

Examination (Papers & Mark Distribution)					
Item	**Theory Component Marks**	**Practical Component Marks**			
		Practical	**Viva**	**Elective**	**IA**
Paper I	100	100	70	-	30
Paper II	100				
Sub-Total	200	200			
Total marks	400				

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.
In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

Roganidan Evum Vikriti Vigyan is a subject that gives emphasis on Ayurveda and contemporary Diagnostics and Pathology. It is a key subject that trains the students to apply knowledge of fundamental principles of Ayurveda to practice by understanding diseases, patient interaction, drawing diagnosis, and prognosis. This is a strong base to frame an appropriate treatment protocol.

The curriculum is framed with a vision for developing the diagnostic knowledge and skills of a student abiding by a patient-centric education. Activty-based training has been inculcated throughout the curriculum to improve the dexterity of a student in handling real-life scenarios in the journey of reaching a diagnosis. The anatomy and physiology learned in an apparently healthy individual from the first professional year is continued in the second professional year with knowledge regarding morbid reflections in the mind and body through this subject.

The sequence of knitting the points in theory and practical are carefully executed to maintain rationality and continuity in learning from a clinical perspective. The basic principles of Vikriti vigyan and their application in Roga nidana, Vyadhi vigyana and clinical diagnostics supported by contemporary diagnostics are the core areas of the curriculum. The essential areas from contemporary pathology and diagnostics are included with the objective to receive interdisciplinary integrated teaching. Some of the topics are defined for horizontal & vertical integration for better understanding.

Innovative teaching learning and assessment methods are introduced. These will develop an interest in students, making the curriculum student and patient-centric and will help to develop competencies, skills, attitudes, and communication as these are indispensable components of the learning process in Health care/ Medicine.

In addition to classroom teaching-learning, the dedicated time has been allotted to clinical activities, self-directed learning, group learning, survey to identify specific illnesses, CBL, and PBL, which are aligned with traditional and innovative formative assessments and scientific writings; ultimately expecting the improved performance of the students in summative assessments and as a successful practitioner in future by implementing Competency-Based Medical Education. The subject will be definitely helpful to the students to create a justifiable diagnosis for future treatment plans which is the basic need for successful practice.

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Course Code and Name of Course

Course code	Name of Course
AyUG-RN	Roga Nidan evam Vikriti Vigyan

Table 1- Course learning outcomes and matched PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-RN At the end of the course AyUG-RN, the students should be able to-	B1 Course learning Outcomes matched with program learning outcomes.
CO1	Identify the morbidities in accordance with principles of Ayurveda pathology (vikriti vigyan siddhanta)	PO1
CO2	Describe the basic, general, and systemic pathological process thereby applying it in reaching a diagnosis	PO2,PO3
CO3	Perform appropriate clinical examination (pareeksha) utilizing Ayurveda and contemporary principles (samakalina siddhanta)	PO2,PO3,PO4
CO4	Order and interpret various diagnostic laboratory investigations and imaging	PO2,PO3
CO5	Diagnose and present the case with clinical reasoning (naidanika tarka)	PO5
CO6	Follow and advise advancements in diagnosis (vyadhi vinischaya) and prognosis (sadhya asadhyata) in clinical practice (naidanika adhyayana)	PO7
CO7	Communicate effectively with the patient (rugna), relatives (bandhujan) and other stakeholders (anya hita dhaaraka)	PO8
CO8	Demonstrate ethics (sadvritta), compassion (karuna) and possess qualities of a clinician (vaidya guna)	PO6,PO9

Table 2 : Contents of Course

Paper 1 Fundamental Principles of Vikriti Vigyan					
Sr. No	**A2 List of Topics**	**B2 Term**	**C2 Marks**	**D2 Lecture hours**	**E2 Non-Lecture hours**
1	**1. Roga nidana – Pathophysiology and clinical diagnosis**	1	43	1	0
2	**2. Pareeksha** Roga and Rogi Pareeksha	1		1	0
3	**3. Methods of Rogi pareeksha**	1		4	3
4	**4. Sapeksha nidana - Vyavacchedaka nidana** Sapeksha nidana - Vyavacchedaka nidana of Ukta/Anukta vyadhi: Methods of differential diagnosis	1		1	0
5	**5. Upashaya/ Anupashaya**	1		1	0
6	**6. Dosha Vikriti** A. Nidana (Vyadhi janaka hetu) B. Agni bheda and Vikriti C. Dosha Vriddhi, Kshaya and Dushta Karma, Ashyapakarsha, Avarana, Samsargaja, Sannipataja. D. Dosha swabhava - Nityasamshleshita (Leena) dosha and Paricchedita dosha E. Paridhavamana dosha	1		3	2
7	**7. Doshagati and Rogamarga**	1		1	0
8	**8. Srotodushti** Samanya sroto dusti nidana and lakshana	1		1	0
9	**9. Concept of Ama** A. Samanya nidana, and Samanya lakshana B. Bheda (Anna rasa. Mala sanchaya (Dhatwagni mandya janit). Dosha dushti)	1		2	0
10	**10. Assessment of Ama** Sama and nirama dosha lakshana, Pureesha lakshana	1		0	1
11	**11. Sthana samshraya – Poorvaroopa**	1	49	1	0
12	**12. Dushya dushti** A. Dhatu and mala vriddhi kshaya lakshana B. Specific Sroto dusti lakshana in relation to Dosha, Upadhatu, Mala, Indriya, Avayava, and Mana dushti lakshana	1		9	9
13	**13. Samprapti** A. Samprapti bheda B. Vyadhi janma and Vyadhi janya	1		1	0

14	**14. Rupa** Pratyatma/ Samanya/ Vishishta Rupa	1		1	0
15	**15. Vyadhinamakarana**	1		1	1
16	**16. Vyadhi** A. Definition, B. Classification – Dwividha/ Trividha/ Chaturvidha/ Saptavidha (Adibala/ Sahaja - Genetic, Janmabala/ Garbhaja - Congenital, Dosha bala/ Jataja - Acquired, Sanghatabala/ Peedaja - Traumatic, Daivabala/ Prabhavaja - Iatrogenic, Kalabala/ Kalaja – Environmental and Geriatric, Swabhava balapravrutta), etc.	1		4	0
17	**17. Ashtanindita (Endocrine disorders)**	1		1	0
18	**18. Janapadodhwamsa vikara (Pandemic disorders)**	1		1	0
19	**19. Nidanarthakara Vyadhi, Vyadhisankara**	1		1	0
20	**20. Vyadhikshamatva** A. Vikaravighata Bhava & Abhava, SatmyaB. Ojus - Bheda – Two types and Four types C. Dosha Paka D. ImmunityE. Healing/repair	1		2	0
21	**21. Rogi bala Pareeksha**	1		2	1
22	**22. Dhatu Paka** A. Dhatu pakaB. Ojodusti lakshana C. Asatmya - Immune pathologyD. Cell Injury and Cellular adaptations E. Inflammation F. Haemodynamic disorders G. Neoplasia	1		12	1
23	**23. Infection and Nutritional disorders**	1	8	4	1
24	**24. Upadrava**	2		1	0
25	**25. Arishta**	2		1	0
26	**26. Vyadhi bala pareeksha**	2		1	0
27	**27. Sadhyasadhyatva – Prognosis**	2		1	0
28	**28. Digital health and Artificial intelligence in the context of Roganidana**	2		1	1

Total Marks	**100**	**60 hr**	**20 hr**

Paper 2 Vyadhi Vigyan, contemporary understanding and updates					
Sr. No	**A2 List of Topics**	**B2 Term**	**C2 Marks**	**D2 Lecture hours**	**E2 Non-Lecture hours**
29	**1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa**	2	43	1	0
30	**2. Chhardi**	2		1	0
31	**3. Amlapitta**	2		2	0
32	**4. Shoola** Parinama Shoola, Annadrava Shoola	2		1	0
33	**5. Atisara, and Pravahika**	2		3	1
34	**6. Grahani**	2		2	1
35	**7. Visuchika, Alasaka, Vilambika**	2		1	0
36	**8. Common GIT diseases** Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases	2		1	4
37	**9. Mutrakrichhra**	2		2	1
38	**10. Mutraghata**	2		3	1
39	**11. Common Urinary diseases** Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease	2		1	6
40	**12. Hikka**	2		1	0
41	**13. Shwasa**	2		2	1
42	**14. Kasa**	2		2	0

43	**15. Rajayakshma & Shosha**	2		3	0
44	**16. Common lung disorders** Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, Bronchiectasis	2		1	4
45	**17. Jwara** Jwarabheda - Doshaja and Agantuja (Abhishanga jwara), Vishama Jwara, Punaravartaka Jwara, Jwara avastha - Ama, Pachyamana and Nirama Jwara	2		4	1
46	**18. Masurika – Romantika**	2		1	0
47	**19. Fever** A. General mechanism of Fever. B. Introduction to Eruptive fevers - Measles, Chicken pox, Rubella, Hand foot mouth disease, Herpes zoster C. Parasitic fevers – Filariasis, Malaria, D. Detailed description of Common infective fevers – Typhoid, Dengue, Influenza, Chikungunya, E. Common regional disorders presenting with fever	2		1	6
48	**20. Pandu**	2		2	0
49	**21. Raktapitta**	2	25	1	1
50	**22. Hematopoietic diseases** Anaemia, Nutritional anaemia, Thalassemia, Sickle cell Anaemia, Leukaemia, Thrombocytopenia	2		1	6
51	**23. Hridroga**	2		1	1
52	**24. Shotha**	2		2	0
53	**25. Cardiovascular disorders** Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure	2		1	5
54	**26. Kamala**	2		2	0
55	**27. Udara Roga**	2		2	1
56	**28. Hepatobiliary diseases** Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites	2		1	2
57	**29. Kushtha - Maha Kushtha & Kshudra Kushtha**	3		3	1

	(According to Charaka)				
58	**30. Sheetapitta**	3		1	0
59	**31. Shwitra**	3		1	0
60	**32. Visarpa**	3		2	0
61	**33. Skin diseases** Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis	3		1	6
62	**34. Galaganda**	3		1	0
63	**35. Thyroid disorders** Hypothyroidism and hyperthyroidism	3		1	1
64	**36. Sthoulya – Karshya**	3	32	1	0
65	**37. Obesity**	3		1	1
66	**38. Prameha**	3		2	1
67	**39. Diabetes Mellitus and Pancreatitis**	3		1	1
68	**40. Vatavyadhi** Samanya nidana, Samanya purvarupa, Samanya lakshana	3		1	0
69	**41. Snayugata vata** Snayugata vata, Akshepaka – Apatanaka; Ardita, Pakshaghata, Kampavata, Gridhrasi, Vishwachi, Pangutwa	3		4	2
70	**42. Common neurologic and spine disorders** Common neurologic diseases: Parkinson’s disease, Stroke, Bell’s Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic). Common Spine disorders: Lumbago-Sciatica syndrome, Brachial neuralgia, Cervical and Lumbar Spondylosis	3		2	4
71	**43. Sandhigatavata and Asthi majja gata vata** Sandhigatavata, Katigraha, Manyasthambha, Vatakantaka, Avabahuka, Amsashosha	3		1	0
72	**44. Diseases of bone, joints, and muscles**	3		1	2

	Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy					
73	**45. Amavata**	3		2	0	
74	**46. Vatarakta**	3		2	1	
75	**47. Immunological & Metabolic disorders** Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout	3		1	2	
76	**48. Klaibya & Vandhyatva**	3		1	0	
77	**49. Sexual dysfunction and Infertility**	3		1	1	
78	**50. Unmada & Apasmara**	3		3	0	
79	**51. Vishada**	3		1	0	
80	**52. Murchha, and Sanyasa**	3		1	0	
81	**53. Common Psychiatric diseases** Depression, Anxiety neurosis and Epilepsy (Non-organic)	3		1	0	
82	**54. Phiranga and Upadamsha**	3		1	0	
83	**55. Syphilis & Gonorrhoea**	3		1	1	
84	**56. Krimiroga**	3		1	0	
85	**57. Clinical presentation of common parasitic disorders** Hook worm, Round worm, Thread worm, Pin worm	3		1	2	
86	**58. Khalitya & Palitya**	3		1	0	
87	**59. Shleepada**	3		1	0	
88	**60. Tuberculosis**	3				
Total Marks			**100**	**90 hr**	**70 hr**	

Table 3: Learning objectives (Theory) of Course

Paper 1 Fundamental Principles of Vikriti Vigyan									
A3 Course outcome	**B3** Learning Objective (At the end of the session, the students should be able to)	**C3** Domain/sub	**D3** Must to know / desirable to know / Nice to know	**E3** Level Does/ Shows how/ Knows how/ Know	**F3** T-L method	**G3** Assessment (Refer abbreviations)	**H3** Formative/ summative	**I3** Term	**J3** Integration
Topic 1 1. Roga nidana – Pathophysiology and clinical diagnosis (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Explain the concept of Roganidana	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Explain the concept of pathophysiology and clinical diagnosis	CC	MK	KH	L&PPT	O-QZ	F&S	I	
Topic 2 2. Pareeksha (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define and enlist types of pareeksha	CK	MK	K	L&PPT	INT,TT-Theory	F&S	I	
CO1	Describe importance of pareeksha	CC	MK	KH	L&PPT	DEB	F&S	I	
CO1	Explain the concept of rogi pareeksha	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Enlist rogi pareeksha	CK	MK	K	L&PPT	O-QZ,INT	F&S	I	

CO1	Describe importance of rogi pareeksha	CC	MK	KH	L&GD	DEB	F&S	I	
CO1	Explain the concept of roga pareeksha	CC	MK	KH	L&PPT	INT,TT-Theory	F&S	I	
CO1	Enlist roga pareeksha	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Describe importance of roga pareeksha	CC	MK	KH	L&GD	T-OBT,DEB	F&S	I	
CO1	Differentiate between rogi pareeksha and roga pareeksha	CC	MK	KH	L&GD	T-OBT,M-CHT	F&S	I	
Topic 3 3. Methods of Rogi pareeksha (Lecture :4 hours, Non lecture: 3 hours)									
CO1,CO3,CO7,CO8	Describe Prashna Pareeksha, Chakshu indriyataha Pareeksha, Srotrendriyataha Pareeksha, Sparshanendriyataha Pareeksha, Ghranendriyataha Pareeksha, and Rasanendriyataha Pareeksha with its clinical interpretation	CC	MK	SH	L_VC	COM	F&S	I	
CO1,CO3	Describe the importance, clinical interpretation and methods of eliciting Nadi Pareeksha	CAN	MK	KH	L&GD,D_BED	COM	F&S	I	
CO1	Describe the importance and clinical interpretation of Mutra Pareeksha	CC	MK	KH	L&GD	COM	F&S	I	
CO1	Describe the methods of performing Tailabindu Pareeksha	CC	MK	KH	L_VC	WP,COM	F&S	I	
CO1,CO3	Describe the importance & clinical interpretation of Mala Pareeksha, Jihwa Pareeksha, Shabda Pareeksha, Sparsha Pareeksha, Druk Pareeksha, Akriti Pareeksha	CAN	MK	KH	L&GD,SDL,D_BED	COM	F&S	I	

Topic 4 4. Sapeksha nidana - Vyavacchedaka nidana (Lecture :1 hours, Non lecture: 0 hours)									
CO1,CO2,CO3,CO5	Describe the steps of Vyavacchedaka nidana of Ukta Vyadhi and Anukta vyadhi with suitable examples (Ayurveda and contemporary science incorporating clinical findings and investigations)	CE	MK	KH	L&GD,CBL	T-OBT,M-CHT	F&S	I	V-KC,V-SH,V-SHL,V-SP
CO5	Describe scope of developing screening, triage, confirmation, monitoring and prognostic tools in Ayurveda for Emerging diseases along with recent advancements	CC	DK	KH	L&PPT,IBL	INT	F&S	I	
Topic 5 5. Upashaya/ Anupashaya (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Upashaya and enlist synonyms of Upashaya	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Define Anupashaya and enlist synonyms of Anupashaya	CK	MK	K	L&PPT	INT,TT-Theory	F&S	I	
CO1	Enumerate and explain the eighteen types of Upashaya with relevant examples	CC	MK	KH	L&PPT	WP,INT	F&S	I	
Topic 6 6. Dosha Vikriti (Lecture :3 hours, Non lecture: 2 hours)									
CO1	Define Hetu	CK	MK	K	L&PPT	INT,TT-Theory	F&S	I	
CO1	Enlist and define synonyms of Hetu	CK	MK	K	L&PPT	QZ	F&S	I	
CO1	Enumerate and enlist classification of Nidana (Vyadhi janaka and Vyadhi bodhaka)	CK	MK	K	L&PPT	M-CHT	F&S	I	
CO1	Enumerate and describe types of Vyadhi Janaka Hetu	CC	MK	KH	L&PP	INT	F&S	I	

					T,REC				
CO1,CO5	Correlate Vyadhi Janaka Hetu with contemporary examples	CE	MK	KH	CBL, PrBL	CL-PR	F&S	I	
CO1	Describe the Nidana of Agnidushti	CC	MK	KH	L&PPT,REC	T-OBT	F&S	I	
CO1	Enumerate and explain the types and features of Agnidushti	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Correlate the Nidana of Agnidushti with contemporary examples	CE	MK	KH	L&GD	P-SUR	F&S	I	
CO3,CO8	Perform assessment of Agnidushti in patient	PSY-GUD	MK	SH	D_BED	P-PRF	F&S	I	
CO1	Recite etiologies of Vata, Pitta and Kapha dushta karma	CK	MK	K	REC	P-REC	F&S	I	
CO1,CO5	Apply the knowledge of aetiologies of Vata, Pitta and Kapha dushta karma in correlating with contemporary etiologies	CAP	MK	KH	L&GD,PrBL,TPW	P-SUR	F&S	I	
CO1	Recite dushta karma, kshaya and vriddhi lakshana of Vata, Pitta and Kapha Dosha	CK	MK	K	REC	P-REC	F&S	I	
CO1	Explain Ashayapakarsha of Dosha with suitable examples	CC	MK	KH	L&GD	INT	F&S	I	
CO1	Define Avarana	CK	MK	K	L&PPT	QZ	F&S	I	
CO1	Enlist types of Avarana	CK	MK	K	L&PP	O-GAME	F&S	I	

					T				
CO1	Enlist the 63 combination of Dosha	CC	MK	KH	L&PPT	O-GAME	F&S	I	
CO1	Describe Samsargaja Dosha Dushti	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe Sama Sannipata and Vishama Sannipata dosha	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Enlist the different stages of Paridhavamana Dosha	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Explain Paridhavamana dosha with types and examples	CC	MK	KH	L&PPT	COM	F&S	I	
CO1	Explain Nityasamshleshita (Leena) dosha and Paricchedita dosha with examples	CC	MK	KH	L&PPT	INT	F&S	I	
Topic 7 7. Doshagati and Rogamarga (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Enumerate and describe Doshagati and its utility in prognosis with relevant examples	CC	MK	KH	L&GD	INT	F&S	I	
CO1	Describe Urdhwa gati, Adho gati, Tiryaga gati, Vriddhi, Kshaya, Sthana, Koshta, Shakha, Sandhi asthi marma with illustrations and examples	CC	MK	KH	L&GD	COM	F&S	I	
CO1	Describe Koshta to Shakhagati of dosha and Shakha to Koshtagati of dosha with illustration	CC	MK	KH	L&GD	COM	F&S	I	
CO1	Enumerate and describe Rogamarga and its utility in prognosis with relevant examples	CC	MK	KH	L&GD	O-QZ	F&S	I	
Topic 8 8. Srotodushti (Lecture :1 hours, Non lecture: 0 hours)									

CO1	Define and enlist Srotas	CK	MK	K	L&PPT	O-QZ	F&S	I	
CO1	Describe the common aetiology for Sroto dushti	CC	MK	KH	L&GD	INT	F&S	I	
CO1	Explain features of Samanya Srotodushti with examples	CC	MK	KH	L&PPT	CL-PR	F&S	I	
Topic 9 9. Concept of Ama (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Describe the different definitions of Ama	CC	MK	KH	L&PPT,REC	P-REC,INT	F&S	I	
CO1	Enlist different types of Ama	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Correlate the different types of Ama with the current science	CE	MK	KH	BS,IBL	COM	F&S	I	
CO1	Describe samanya lakshana of Ama	CC	MK	KH	L&PPT	O-QZ	F&S	I	
CO1	Explain the concept of Ama with reference to Anna rasa, Mala sanchaya and Dosha dushti	CC	MK	KH	L&PPT	T-OBT,COM	F&S	I	
Topic 10 10. Assessment of Ama (Lecture :0 hours, Non lecture: 1 hours)									
CO1	Explain concept of Sama	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe specific features of Sama and Nirama Dosha and Pureesha	CC	MK	KH	L&PPT	O-GAME	F&S	I	
CO5	Identify specific features of Sama dosha, Sama pureesha, Nirama	PSY-	MK	SH	L,D_	P-PRF	F&S	I	

	dosha and Nirama pureesha in patient	GUD			BED				
Topic 11 11. Sthana samshraya – Poorvaroopa (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Sthansamshraya	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Define Poorvaroopa and enlist its types	CK	MK	K	L&PPT	QZ	F&S	I	
CO1	Describe the importance of Poorvaroopa	CC	MK	KH	L&GD	DEB	F&S	I	
CO1	Relate Sthanasamshraya with Poorvaroopa	CAP	MK	KH	L&GD	INT	F&S	I	
Topic 12 12. Dushya dushti (Lecture :9 hours, Non lecture: 9 hours)									
CO1	Enlist Dushya	CK	MK	K	L&PPT	QZ	F&S	I	
CO1	Describe specific features of Dhatu and Mala Vriddhi and Kshaya	CC	MK	KH	DIS	T-OBT	F&S	I	
CO1	Describe the specific etiologies of Pranavaha Sroto dushti and identify contemporary etiologies	CS	MK	SH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe features of Pranavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&PPT,REC	P-REC,INT	F&S	I	
CO1	Describe Pranavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Udakavaha Sroto dushti and	CC	MK	KH	L&G	P-SUR	F&S	I	

	identify contemporary etiologies				D,PrBL				
CO1	Describe features of Udakavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe Udakavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe the specific etiologies of Annavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe features of Annavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe Annavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	WP	F&S	I	
CO1	Describe the specific etiologies of Rasavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,INT	F&S	I	
CO1	Describe features of Rasavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&PPT,REC	P-REC,INT	F&S	I	
CO1	Describe Rasavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Raktavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,RE	P-REC,INT	F&S	I	

					C				
CO1	Describe features of Raktavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe Raktavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe the specific etiologies of Mamsavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,INT	F&S	I	
CO1	Describe features of Mamsavaha Sroto Dusti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe Mamsavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Medovaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,INT	F&S	I	
CO1	Describe features of Medovaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe Medovaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Asthivaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrB	P-REC,P-SUR	F&S	I	

					L,REC				
CO1	Describe features of Asthivaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe the specific etiologies of Majjavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,INT	F&S	I	
CO1	Describe features of Majjavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe the specific etiologies of Shukravaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,INT	F&S	I	
CO1	Describe features of Shukravaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&PPT,REC	P-REC,INT	F&S	I	
CO1	Describe Shukravaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Mutravaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,P-SUR	F&S	I	
CO1	Describe features of Mutravaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,RE	P-REC,INT	F&S	I	

					C				
CO1	Describe Mutravaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Pureeshavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,P-SUR	F&S	I	
CO1	Describe features of Pureeshavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe Pureeshavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe the specific etiologies of Swedavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,P-SUR	F&S	I	
CO1	Describe features of Swedavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&GD,REC	P-REC,INT	F&S	I	
CO1	Describe the specific etiologies of Artavavaha Sroto dushti and identify contemporary etiologies	CC	MK	KH	L&GD,PrBL,REC	P-REC,P-SUR	F&S	I	
CO1	Describe features of Artavavaha Sroto Dushti in relation to Dosha Kopa	CC	MK	KH	L&PPT,REC	P-REC,INT	F&S	I	

CO1	Describe Artavavaha Sroto Viddha Lakshana	CC	MK	KH	L&PPT	QZ	F&S	I	
CO1	Describe features of Upadhatu dushti, Mala dushti, Indriya dushti, and Manas dushti	CC	MK	KH	L&GD	INT	F&S	I	
CO1	Describe features of Avayava dusti with relevant examples	CC	MK	KH	L&PPT	INT	F&S	I	
CO5	Identify and interpret the specific Sroto Dushti in the patients	PSY-GUD	MK	SH	SDL	T-CS	F&S	I	
Topic 13 13. Samprapti (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Samprapti and enumerate synonyms	CK	MK	K	L&PPT	WP	F&S	I	
CO1	Enlist and describe types of Samprapti with examples	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Describe Vyadhi Janma and Vyadhi Janya Samprapti with examples	CC	MK	KH	L&PPT	INT	F&S	I	
Topic 14 14. Rupa (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define, enlist and describe different types of Roopa	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe the importance of Roopa	CC	MK	KH	L&GD	DEB	F&S	I	
CO1	Define Pratyatma Lakshana with suitable examples	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Differentiate between Vyadhi and Lakshana.	CC	MK	KH	L&GD	INT	F&S	I	

Topic 15 15. Vyadhinamakarana (Lecture :1 hours, Non lecture: 1 hours)									
CO1	Describe the basis of Vyadhi Namakarana with suitable examples	CK	MK	K	L	QZ	F&S	I	
CO6	Describe the importance of ICD, DSM and NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal classification and terminology of diseases	CC	DK	KH	L&G D,D	INT	F&S	I	
CO6	Operate NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal	PSY-GUD	DK	SH	D	P-PRF	F&S	I	
Topic 16 16. Vyadhi (Lecture :4 hours, Non lecture: 0 hours)									
CO1	Define & enlist synonyms of Vyadhi	CK	MK	K	L&PP T	INT	F&S	I	
CO1	Enlist types of Vyadhi	CK	MK	K	L&PP T	INT	F&S	I	
CO1,CO2	Explain Adibala/ Sahaja and Hereditary disorders, Janmabala/ Garbhaja and Congenital disorders, Dosha bala/ Jataja and Acquired disorders, Sanghatabala/ Peedaja and Traumatic disorders, Daivabala/ Prabhavaja and Iatrogenic disorders, Kalabala/ Kalaja and Environmental and Geriatric disorders, Swabhava bhava vyadhi with suitable examples	CC	MK	KH	L&PP T	CL-PR	F&S	I	
Topic 17 17. Ashtanindita (Endocrine disorders) (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Enlist and explain the Ashtanindita	CC	DK	KH	L&PP T	INT	F&S	I	
CO1	Describe the importance of Ashtanindita	CC	DK	KH	L&G D	DEB	F&S	I	
CO1,CO2	Correlate and describe the features of Hormonal/ Endocrinal	CE	DK	KH	L&G	COM	F&S	I	V-BL

	diseases (Pituitary disorders, Parathyroid disorders, Adrenal disorders etc.) with Ashtanindita				D,TPW				
Topic 18 18. Janapadodhwamsa vikara (Pandemic disorders) (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe sadharana and asadharana hetu for Janapadodhwamsa Vikara and correlate with contemporary etiologies	CC	DK	KH	L&GD	DEB	F&S	I	V-KC,H-SW
Topic 19 19. Nidanarthakara Vyadhi, Vyadhisankara (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define and enlist types of Nidanarthakara Vyadhi with examples along with its concept	CC	DK	KH	L&GD	INT	F&S	I	
CO1	Explain the concept of Vyadhi Sankara with specific Nidana and relevant examples	CC	DK	KH	L&PPT	INT	F&S	I	
Topic 20 20. Vyadhikshamatva (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Define Vyadhikshamatva	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Describe Trividha bala and relate to Balavruddhikara Bhava and Shareeravruddhikara Bhava	CC	MK	K	L&PPT	M-CHT	F&S	I	
CO1	Describe Vikara Vighata Bhava and Abhava along with its relation to Vyadhikshamatva	CC	MK	KH	DIS	INT	F&S	I	
CO1	Analyze Satmya in relation with health and disease	CAN	MK	KH	L&GD	INT	F&S	I	
CO1	Define and explain Dwividha and Chaturvidha Ojas	CK	MK	K	L&PPT	INT	F&S	I	
CO1	Describe Dosha Paka features with examples	CC	MK	KH	L&PPT	INT	F&S	I	

CO2	Describe pathophysiology of Healing with primary and secondary intention and Repair mechanism.	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO1	Define Satmya and explain its types	CC	MK	KH	L&PPT	INT	F&S	I	
CO2	Define Immunity and describe classification of Immunity	CC	MK	KH	SDL	CL-PR	F&S	I	
CO2	Explain different mechanisms involved in Immunity	CC	MK	KH	SDL	CL-PR	F&S	I	
Topic 21 21. Rogi bala Pareeksha (Lecture :2 hours, Non lecture: 1 hours)									
CO1	Describe the importance of Rogi bala Pareeksha	CC	MK	KH	L&GD	DEB	F&S	I	
CO1,CO8	Describe the parameters of Rogi bala Pareeksha - Prakruti, Sara, Samhanana, Pramana, Satmya, Satwa, Aahara shakti, Vyayama shakti, Vaya and other factors such as Aushadha kshama dehatva, Yuvajatva, Pumjatvam, Vishayanasakta indriyajatva, Padasampad bhavatvam, and Anukoola grahatva, etc.	CC	MK	KH	L&PPT	INT	F&S	I	
Topic 22 22. Dhatu Paka (Lecture :12 hours, Non lecture: 1 hours)									
CO1	Describe Dhatupaka features with examples	CC	MK	KH	L&PPT	INT	F&S	I	
CO1	Describe different stages of Ojo dusti	CK	MK	K	L&PPT	INT	F&S	I	
CO2	Define Asatmya	CK	MK	K	L&PPT	O-QZ	F&S	I	
CO2	Define Hypersensitivity	CK	MK	K	L&PPT	QZ	F&S	I	
CO2	Describe four types of Hypersensitivity with suitable examples	CC	MK	KH	L_VC	CL-PR	F&S	I	

CO2	Define Autoimmunity	CK	MK	K	L&PPT	O-QZ	F&S	I	
CO2	Describe mechanism and classification of Autoimmunity with suitable examples	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO2	Define Immunodeficiency.	CK	MK	K	L&PPT	CL-PR	F&S	I	
CO2	Describe classification of Immunodeficiency with suitable examples.	CC	MK	KH	L&PPT	M-CHT	F&S	I	
CO2	Define Cell Injury	CK	MK	K	L&PPT	QZ	F&S	I	
CO2	Describe causes and mechanism of Reversible and Irreversible Cell Injury with microscopic and macroscopic features.	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO2	Define Cellular Adaptation	CK	MK	K	L&PPT	QZ	F&S	I	
CO2	Describe types and mechanisms of Cellular Adaptations with suitable examples.	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO2	Describe and discuss types of Cell Death (including apoptosis) and the mechanism with suitable examples.	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO2	Define, classify and describe mechanism of Inflammation, Septicaemia, Oedema, Shock, Haemorrhage, Thrombosis, Embolism, Ischemia and Infarction	CC	MK	KH	L_VC	CL-PR	F&S	I	
CO2	Define and describe Tumors	CC	MK	KH	L&PPT	CL-PR	F&S	I	
CO2	Describe nomenclature of Tumors	CC	MK	KH	L&PPT,SD	CL-PR	F&S	I	

					L				
CO2	Differentiate Benign and Malignant Tumours	CC	MK	KH	L&GD	M-CHT	F&S	I	
CO2	Describe mechanism of Metastasis	CC	MK	KH	L&PPT	CL-PR	F&S	I	
Topic 23 23. Infection and Nutritional disorders (Lecture :4 hours, Non lecture: 1 hours)									
CO2	Define and classify Viruses, Bacteria, and Fungi	CC	DK	KH	L&PPT,SDL	COM	F&S	I	
CO2	Describe components of Nutrition, and classify nutritional disorders	CC	DK	KH	PER	QZ	F&S	I	H-SW
CO2	Describe Macro nutritional disorders, Water soluble vitamins deficiency disorders and Fat soluble vitamins deficiency disorders	CC	DK	KH	PER	QZ	F&S	I	V-KC,H-SW
CO2	Describe Protein Energy Malnutrition in adults and differentiate Kwashiorkor and Marasmus	CC	DK	KH	PER	QZ	F&S	I	V-KC,V-BL
Topic 24 24. Upadrava (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define and explain the concept and importance of Upadrava	CC	MK	KH	L&GD	DEB	F&S	II	
Topic 25 25. Arishta (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Arishta and Ristaabhasa	CK	NK	K	L&PPT	INT	F&S	II	
CO1	Enumerate and describe types of Arishta with its importance	CC	NK	KH	L&GD	DEB	F&S	II	

Topic 26 26. Vyadhi bala pareeksha (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe Vikrititaha Pareeksha with its importance	CC	DK	KH	L&GD	DEB	F&S	II	
CO1	Describe the parameters to be assessed for Vyadhi bala - Exposure to Nidana, Samprapti, Poorvaroopa, Roopa, Upadrava, Tulya dosha - dushyatvam, Atulya ritu, Number of dosha involved, Number of Rogamarga involved, Kala, Desha, Prakruti, Involvement of Marma and other factors	CC	DK	KH	L&GD	DEB	F&S	II	
Topic 27 27. Sadhyasadhyatva – Prognosis (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Enumerate and describe the features of sadhyasadhyatva	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Analyse the components of Vyadhi from Sadhyasadhyatva	CAN	MK	KH	L&GD	INT	F&S	II	
Topic 28 28. Digital health and Artificial intelligence in the context of Roganidana (Lecture :1 hours, Non lecture: 1 hours)									
CO6	Define and describe the scope of Digital health and Artificial intelligence in Ayurveda Diagnosis and Prognosis	CC	NK	KH	BL	COM	F&S	II	
CO6	Explain need of Instrumentation and Biosensors for diagnosis and prognosis in Ayurveda.	CC	NK	KH	BL	INT	F&S	II	
CO6	Justify scope of Diagnostic tool development in Ayurveda and their implementation.	CE	NK	KH	BL	INT	F&S	II	

Paper 2 Vyadhi Vigyan, contemporary understanding and updates									
A3 Course	**B3** Learning Objective (At the end of the session, the students	**C3** Doma	**D3** Must to know	**E3** Level	**F3** T-L	**G3** Assessment	**H3** Form	**I3** Term	**J3** Integr

outcome	should be able to)	in/sub	/ desirable to know / Nice to know	Does/ Shows how/ Knows how/ Know	method	(Refer abbreviations)	ative/ summative		ation
Topic 1 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Anaha	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Enlist types of Anaha	CK	MK	K	L&PPT	QZ	F&S	II	
CO1,CO5	Describe Adhmana and Atopa	CC	MK	KH	L&PPT	INT	F&S	II	
Topic 2 2. Chhardi (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Chhardi	CK	DK	K	L&PPT	QZ	F&S	II	
CO1	Describe hetu and samprapti of Chhardi.	CC	DK	KH	L&GD	INT	F&S	II	
CO1	Enlist bheda of Chhardi	CK	DK	K	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa, samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Chhardi	CC	DK	KH	L&PPT	INT	F&S	II	
Topic 3 3. Amlapitta (Lecture :2 hours, Non lecture: 0 hours)									

CO1	Define Amlapitta	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe hetu and samprapti of Amlapitta	CC	MK	KH	L&GD	M-CHT	F&S	II	
CO1	Enlist bheda of Amlapitta	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa, samanya lakshana, vishishta lakshana, and sadhya asadhyata of Amlapitta	CC	MK	KH	L&PPT	INT	F&S	II	
Topic 4 4. Shoola (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Shoola	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Enlist Shoola bheda	CK	MK	K	L&PPT	QZ	F&S	II	
CO1,CO5	Describe and differentiate Parinama shoola and Annadrava shoola	CC	MK	KH	L&PPT	INT	F&S	II	
Topic 5 5. Atisara, and Pravahika (Lecture :3 hours, Non lecture: 1 hours)									
CO1	Describe pratyatma lakshana of Atisara	CC	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe hetu and samprapti of Atisara	CC	MK	KH	L&GD	INT	F&S	II	
CO1	Enlist bheda of Atisara	CK	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa of Atisara	CC	MK	KH	L&PPT,CB	INT	F&S	II	

					L				
CO1	Enlist and describe upadrava of Atisara	CK	MK	K	L&PPT	INT	F&S	II	
CO1	Describe sadhya asadhyata of Atisara	CC	MK	KH	L&PPT	T-CS,INT	F&S	II	
CO1	Describe nivrutta Atisara lakshana or vigata Atisara lakshana	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Describe samprapti of Pravahika	CC	MK	KH	L&GD	M-CHT	F&S	II	
CO1	Enlist bheda of Pravahika	CK	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe samanya and vishishta lakshana of Pravahika	CC	MK	KH	L&PPT,CBL	T-CS	F&S	II	
CO1	Differentiate between Atisara and Pravahika	CC	MK	KH	L&GD,PBL	CL-PR	F&S	II	
CO1	Differentiate Doshaja Atisara	CC	MK	KH	L&GD,PBL	CL-PR	F&S	II	
CO1	Explain Bhayaja atisara, Shokaja atisara and Raktaja atisara lakshana	CC	MK	KH	L&GD,PBL	CL-PR	F&S	II	
Topic 6 6. Grahani (Lecture :2 hours, Non lecture: 1 hours)									
CO1	Describe pratyatma lakshana of Grahani	CC	MK	KH	L&PP	PUZ	F&S	II	

					T				
CO1	Describe hetu and samprapti of Grahani	CC	MK	KH	L&GD	M-CHT	F&S	II	
CO1	Enlist bheda of Grahani	CK	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa, and samanya lakshana of Grahani	CC	MK	KH	L&PPT	T-CS,INT	F&S	II	
CO1	Explain Sangraha grahani and Ghati yantra grahani	CC	MK	KH	L&PPT,CBL	INT	F&S	II	
CO1	Explain sadhya asadhyata of Grahani	CC	MK	KH	L&PPT	T-CS,INT	F&S	II	
CO1	Differentiate Atisara and Grahani Roga	CC	MK	KH	L&GD,PBL	T-CS	F&S	II	
CO1	Differentiate Grahani dosha and Grahani roga	CC	MK	KH	L&GD,PBL	T-CS,CL-PR	F&S	II	
CO1	Differentiate Doshaja Grahani	CC	MK	KH	L&GD,PBL	CL-PR	F&S	II	
Topic 7 7. Visuchika, Alasaka, Vilambika (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Define Visuchika	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe lakshana, upadrava, and sadhyasadhyata of Visuchika ,	CC	MK	KH	L&PP	INT	F&S	II	

	Alasaka and Vilambika				T				
Topic 8 8. Common GIT diseases (Lecture :1 hours, Non lecture: 4 hours)									
CO2	Describe the clinical features of Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases	CC	DK	KH	RP,TUT	INT	F&S	II	
CO3	Perform relevant clinical examination of Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases	PSY-GUD	DK	SH	L_VC	OSCE	F&S	II	
CO4	Order and interpret relevant investigations of Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases	CAP	DK	SH	L&GD,LRI,D_L	T-CS	F&S	II	
Topic 9 9. Mutrakrichhra (Lecture :2 hours, Non lecture: 1 hours)									
CO1	Explain pratyatma lakshana of Mutrakrichhra	CC	MK	KH	L&PPT	PUZ	F&S	II	
CO1	Describe hetu and samprapti of Mutrakrichhra	CC	MK	KH	L&GD	INT	F&S	II	
CO1	Enlist bheda of Mutrakrichhra	CK	MK	KH	L&PPT	QZ	F&S	II	
CO1,CO5	Describe vishishta lakshana of Mutrakrichhra	CC	MK	KH	L&PPT,CBL	INT	F&S	II	
Topic 10 10. Mutraghata (Lecture :3 hours, Non lecture: 1 hours)									
CO1	Define Mutraghata	CK	MK	K	L&PPT	QZ	F&S	II	

CO1	Enlist conditions of Mutra shoshana and Mutra pratihanyate among different types of Mutraghata	CK	MK	K	L&GD	INT	F&S	II	
CO1	Describe different types of Mutraghata	CC	MK	KH	L&PPT,PBL	INT	F&S	II	
CO1	Differentiate Mutrakrichra and Mutraghata	CC	MK	KH	L&GD,PBL	T-CS	F&S	II	
Topic 11 11. Common Urinary diseases (Lecture :1 hours, Non lecture: 6 hours)									
CO2	Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease	CC	DK	KH	L&GD,RP	T-CS	F&S	II	
CO3	Perform relevant clinical examination of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease	PSY-GUD	DK	SH	L_VC	T-CS	F&S	II	
CO4	Order and interpret relevant investigations of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease	CAP	DK	SH	L&GD,LRI	T-CS	F&S	II	
Topic 12 12. Hikka (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe pratyatma lakshana, hetu, and samprapti of Hikka	CC	NK	KH	L&PPT	PUZ	F&S	II	
CO1	Describe cardinal features of Pancha Hikka	CC	NK	KH	L&PPT	INT	F&S	II	
Topic 13 13. Shwasa (Lecture :2 hours, Non lecture: 1 hours)									

CO1	Define Shwasa	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe hetu and samanya samprapti of Shwasa	CC	MK	KH	L&GD	T-CS	F&S	II	
CO1	Enlist bheda of Shwasa	CK	MK	K	L&PPT	P-VIVA,QZ	F&S	II	
CO1	Describe purvaroopa, and sadhya asadhyata of Shwasa	CC	MK	KH	L&PPT	T-CS	F&S	II	
CO1	Describe vishishta lakshana of Tamaka shwasa with its avastha bheda	CC	MK	KH	L&PPT	T-CS	F&S	II	
CO1	Describe dosha predominance in Shwasa	CC	MK	KH	DIS	INT	F&S	II	
CO1	Identify cardinal features of Pancha shwasa and correlate with the current science	CAN	MK	KH	L&PPT	INT	F&S	II	
CO1	Differentiate Pancha shwasa	CC	MK	KH	PBL	CL-PR	F&S	II	
Topic 14 14. Kasa (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Define Kasa	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe hetu and samprapti of Kasa	CC	MK	KH	L&GD	INT	F&S	II	
CO1	Enlist bheda of Kasa	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa and sadhya asadhyata of Kasa	CC	MK	KH	L&PPT	T-CS	F&S	II	
CO1	Describe the differential diagnosis of Kasa based on kapha	CC	MK	KH	L&PP	T-CS	F&S	II	

	lakshana				T				
CO1	Describe the differential diagnosis of Kshayaja kasa and Rajayakshma	CC	MK	KH	L&G D	T-CS	F&S	II	
CO1	Describe the differential diagnosis of Kshataja kasa and kshata ksheena	CC	MK	KH	L&G D	T-CS	F&S	II	
CO1	Differentiate Doshaja kasa	CC	MK	KH	DIS	INT	F&S	II	
Topic 15 15. Rajayakshma & Shosha (Lecture :3 hours, Non lecture: 0 hours)									
CO1	Describe Rajayakshma vyadhi swabhava	CC	DK	KH	L&PP T	INT	F&S	II	
CO1	Describe hetu and samprapti of Rajayakshma	CC	DK	KH	L&G D	M-CHT	F&S	II	
CO1	Enlist bheda of Rajayakshma	CK	DK	K	L&PP T	QZ	F&S	II	
CO1	Explain tri roopa, shad roopa, ekadasha roopa, and sadhyasadhyata of Rajayakshma	CC	DK	KH	L&PP T	INT	F&S	II	
CO1	Classify and describe Ashta shosha	CC	DK	KH	L&PP T	INT	F&S	II	
Topic 16 16. Common lung disorders (Lecture :1 hours, Non lecture: 4 hours)									
CO2	Describe the clinical features of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis	CC	DK	KH	L_VC ,RP,D _BED	INT	F&S	II	
CO3	Perform relevant clinical examination of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis	PSY-GUD	DK	SH	L_VC	OSCE	F&S	II	

CO4	Order and interpret relevant investigations of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis	CAP	DK	KH	XRay, LRI	T-CS	F&S	II	
Topic 17 17. Jwara (Lecture :4 hours, Non lecture: 1 hours)									
CO1	Define and enlist types of Jwara based on vidhi samprapti	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe nidana, samprapti, samanya poorvaroopa, vishishta poorvaroopa, pratyatma lakshana and samprapti of Doshaja jwara	CC	MK	KH	L&GD	PUZ,INT	F&S	II	
CO1	Describe Doshaja jwara along with sannipataja jwara according to Charaka	CC	MK	KH	L&GD	PUZ,INT	F&S	II	
CO1	Describe Abhishanga jwara, Vishama jwara, and Punaravartaka jwara	CC	MK	KH	L&PPT	T-CS	F&S	II	
CO1	Explain Antarvega, Bhahirvega jwara, Vata balasaka and Pralepaka jwara	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Differentiate Ama, Pachyamana and Nirama jwara lakshana	CC	MK	KH	L&GD	CL-PR	F&S	II	
CO1	Analyze Agantu and Doshaja jawara with reference to Jwara samprapti	CAN	MK	KH	DIS	INT	F&S	II	
CO1	Describe sadhyasadhyata of Jwara	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Enlist Jwara mukta lakshana	CK	MK	K	L&PPT	QZ	F&S	II	
Topic 18 18. Masurika – Romantika (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Enlist nidana of Masurika	CK	NK	K	L&PP	QZ	F&S	II	

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CO1	Describe samprapti of Masurika	CC	NK	KH	L&GD	INT	F&S	II	
CO1	Enlist bheda of Masurika	CC	NK	KH	L&PPT	QZ	F&S	II	
CO1	Explain the avasthika lakshana of Masurika	CC	NK	KH	L&PPT	INT	F&S	II	
CO1	Enlist features of Romantika	CK	NK	K	L&PPT	QZ	F&S	II	
Topic 19 19. Fever (Lecture :1 hours, Non lecture: 6 hours)									
CO2	Describe the organism, incubation period, and mode of transmission of Measles virus, Varicella-zoster virus and Herpes zoster, Coxsackie virus, Rubella virus, various Malaria parasites, Influenza virus, Dengue virus, Leptospira, Chikungunya virus, Salmonella and causative agents of other common regional disorders presenting with fever	CC	DK	KH	L_VC,FC	WP,INT	F&S	II	
CO2	Describe the clinical features of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, and Typhoid	CC	DK	KH	L_VC,RP	T-CS	F&S	II	
CO2	Describe the common regional disorders presenting with fever	CC	DK	KH	L&GD	T-CS	F&S	II	
CO2	Describe the complications of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever	CC	DK	KH	TUT	INT	F&S	II	

CO3	Perform relevant clinical examination related to Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever	PSY-GUD	DK	SH	L_VC	OSCE	F&S	II	
CO4	Order and interpret relevant investigations related to Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever	CAP	DK	SH	LRI	T-CS	F&S	II	
Topic 20 20. Pandu (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Describe pratyatma lakshana of Pandu	CC	MK	KH	L&PPT	PUZ	F&S	II	
CO1	Describe hetu and samprapti of Pandu	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Enlist bheda of Pandu	CC	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe purvaroopa of Pandu	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Enlist upadrava of Pandu	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Describe sadhya asadhyata of Pandu	CC	MK	KH	L&PPT	INT	F&S	II	
CO1	Explain Pancha pandu	CC	MK	KH	L&PPT	T-CS	F&S	II	

CO1	Differentiate Doshaja pandu	CC	MK	KH	L&GD	CL-PR	F&S	II	
Topic 21 21. Raktapitta (Lecture :1 hours, Non lecture: 1 hours)									
CO1	Define Raktapitta and mention the rakta pravrutti marga	CK	MK	K	L&PPT	QZ	F&S	II	
CO1	Explain the swabhava of Raktapitta	CC	MK	KH	DIS	INT	F&S	II	
CO1	Enlist bheda of Raktapitta	CK	MK	KH	L&PPT	QZ	F&S	II	
CO1	Describe nidana, samprapti, purvaroopa, vishishta lakshana of Raktapitta	CC	MK	KH	L&GD	T-CS	F&S	II	
CO1	Enlist upadrava of Raktapitta	CK	MK	KH	L&PPT	PUZ	F&S	II	
CO1	Describe sadhya asadhyata of Raktapitta	CC	MK	KH	DIS	INT	F&S	II	
Topic 22 22. Hematopoietic diseases (Lecture :1 hours, Non lecture: 6 hours)									
CO2	Describe the clinical features of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia	CC	DK	KH	L_VC,RP	WP	F&S	II	
CO4	Order and interpret relevant investigations of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia	CAP	DK	KH	L&GD,LRI	T-CS	F&S	II	
CO2	Describe the differential diagnosis of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia	CC	DK	KH	L&GD,PBL	PRN	F&S	II	
Topic 23 23. Hridroga (Lecture :1 hours, Non lecture: 1 hours)									

CO1	Describe hetu and samprapti of Hridroga	CC	DK	KH	L&GD	QZ	F&S	II	
CO1	Enlist bheda of Hridroga	CK	DK	KH	L&PPT	PUZ	F&S	II	
CO1	Analyze samanya lakshana of Hridroga	CAN	DK	KH	DIS	T-CS	F&S	II	
CO1	Describe vishishta lakshana of Hridroga	CC	DK	KH	L&PPT	INT	F&S	II	
CO1	Enlist upadrava of Hridroga	CK	DK	KH	L&PPT	WP	F&S	II	
Topic 24 24. Shotha (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Describe hetu of Shotha	CC	MK	KH	L&GD	O-QZ	F&S	II	
CO1	Enlist bheda of Shotha	CK	MK	KH	L&PPT	O-QZ	F&S	II	
CO1	Describe vidhi samprapti of shotha	CC	MK	KH	DIS	O-GAME	F&S	II	
CO1	Describe purvaroopa, vishishta lakshana, samprapti and sadhya asadhyata of Nija shotha	CC	MK	KH	L&GD	INT	F&S	II	
CO1	Differentiate Doshaja shotha	CC	MK	KH	L&GD	INT	F&S	II	
Topic 25 25. Cardiovascular disorders (Lecture :1 hours, Non lecture: 5 hours)									
CO2	Describe the clinical features of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure	CC	DK	KH	L_VC,RP	C-VC	F&S	II	V-KC

CO3	Perform relevant clinical examination of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure	PSY-GUD	DK	SH	L_VC ,SIM	OSCE	F&S	I	
CO4	Order and interpret relevant investigations of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure	CAP	DK	KH	L&G D,LRI	O-QZ	F&S	II	
Topic 26 26. Kamala (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Define Kamala	CK	MK	K	L&PP T	QZ	F&S	II	
CO1	Describe hetu and samprapti of Kamala	CC	MK	KH	L&G D	INT	F&S	II	
CO1	Classify Kamala on the basis of vidhi samprapti of Kamala	CC	MK	KH	L&PP T	INT	F&S	II	
CO1	Differentiate Koshta shakhashrita and Shakhashrita Kamala	CC	MK	KH	DIS	PRN	F&S	II	
CO1	Enlist upadrava of Kamala	CK	MK	KH	L&PP T	QZ	F&S	II	
CO1	Describe sadhya asadhyata of Kamala	CC	MK	KH	TUT	M-CHT	F&S	II	
CO1,CO5	Describe Swatantra-Paratantra Kamala, Alpapitta-Bahupitta Kamala	CC	MK	KH	L&PP T	INT	F&S	II	
Topic 27 27. Udara Roga (Lecture :2 hours, Non lecture: 1 hours)									
CO1	Explain pratyatma lakshana of Udara	CC	MK	KH	L&PP T	PUZ	F&S	II	
CO1	Describe hetu and samprapti of Udara	CC	MK	KH	L&G D	WP	F&S	II	

CO1	Enlist bheda of Udara	CK	MK	K	L&PPT	QZ	F&S	II	
CO1,CO5	Describe purvaroopa, samanya lakshana and sadhya asadhyata of Udara	CC	MK	KH	L&PPT	T-CS	F&S	II	
CO1	Explain avastha bheda of Udara	CC	MK	KH	DIS	PRN	F&S	II	
CO1,CO5	Differentiate Doshaja udara	CC	MK	KH	L&GD	M-CHT	F&S	II	
CO1,CO5	Explain Vishishta lakshana of Baddha gudodara, Pleehodara, Jalodara and Chidrodara	CC	MK	KH	L&PPT	M-CHT	F&S	II	
Topic 28 28. Hepatobiliary diseases (Lecture :1 hours, Non lecture: 2 hours)									
CO2,CO5	Describe the clinical features of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites	CC	DK	KH	L_VC,RP	C-VC	F&S	II	
CO3	Perform relevant clinical examination of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	II	
CO4	Order and interpret relevant investigations of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites	CAP	DK	SH	L&GD,LRI	PRN	F&S	II	
CO2,CO5	Describe the differential diagnosis of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites	CC	DK	KH	L&GD,PBL	M-CHT	F&S	II	
Topic 29 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) (Lecture :3 hours, Non lecture: 1 hours)									
CO1	Define Kushtha	CK	MK	K	L&PPT	O-QZ	F&S	III	

CO1	Describe hetu and samprapti of Kushtha	CC	MK	KH	L&GD	COM	F&S	III	
CO1	Enlist bheda of Maha Kushtha & Kshudra Kushtha	CK	MK	K	L&PPT	O-QZ	F&S	III	
CO1	Describe purvaroopa of Kushtha	CC	MK	KH	L&GD	INT	F&S	III	
CO1,CO5	Describe vishishta lakshana of Maha Kushtha & Kshudra Kushtha	CC	MK	KH	L&PPT,CD	O-GAME	F&S	III	
CO1,CO5	Describe dosha anusara Kushtha lakshana	CC	MK	KH	L&GD	M-POS	F&S	III	
CO1	Describe sadhya asadhyata of Maha Kushtha & Kshudra Kushtha	CC	MK	KH	L&PPT	O-QZ	F&S	III	
CO1,CO5	Differentiate Maha kushtha & Kshudra kushtha	CC	MK	KH	DIS	CL-PR	F&S	III	
Topic 30 30. Sheetapitta (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe Sheetapitta samprapti	CC	MK	KH	L&PPT	M-CHT	F&S	III	
CO1,CO5	Describe Sheetapitta and Udarda lakshana	CC	MK	KH	L&PPT	QZ	F&S	III	
CO1	Describe Kotha lakshana	CC	MK	KH	L&PPT	QZ	F&S	III	
CO1,CO5	Differentiate Sheetapitta and Udarda	CC	MK	KH	DIS	QZ	F&S	III	
Topic 31 31. Shwitra (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Enlist types of Shwitra	CK	MK	K	L&PP	O-QZ	F&S	III	

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CO1,CO5	Describe lakshana and sadhya asadhyata of Shwitra	CC	MK	KH	L&PPT	INT	F&S	III	
Topic 32 32. Visarpa (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Define Visarpa	CK	MK	K	L&PPT	O-QZ	F&S	III	
CO1	Describe hetu and samprapti of Visarpa	CC	MK	KH	L&GD	M-CHT	F&S	III	
CO1	Enlist bheda of Visarpa	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe purvaroopa of visarpa, features of Bahya and Abhyantara visarpa and sadhya asadhyata of Visarpa	CC	MK	KH	L&PPT	PRN	F&S	III	
CO1,CO5	Differentiate Doshaja Visarpa	CC	MK	KH	DIS	INT	F&S	III	
CO1,CO5	Explain Agni, Kardama and Granthi visarpa	CC	MK	KH	L&PPT	T-CS	F&S	III	
Topic 33 33. Skin diseases (Lecture :1 hours, Non lecture: 6 hours)									
CO2,CO5	Describe the clinical features of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis	CC	DK	KH	L_VC	C-VC	F&S	III	
CO3	Perform relevant clinical examination of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	

CO4	Order and interpret relevant investigations of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis	CAP	DK	SH	L&GD,LRI	INT	F&S	III	
Topic 34 34. Galaganda (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe pratyatma lakshana and samprapti of Galaganda	CC	NK	KH	L&PPT	PUZ	F&S	III	
Topic 35 35. Thyroid disorders (Lecture :1 hours, Non lecture: 1 hours)									
CO2,CO5	Describe the clinical features of Hypothyroidism and hyperthyroidism	CC	DK	KH	L_VC,RP	M-POS	F&S	III	
CO3	Perform relevant clinical examination of Hypothyroidism and hyperthyroidism	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Hypothyroidism and hyperthyroidism	CAP	DK	SH	L&GD,LRI	SP	F&S	III	
Topic 36 36. Sthoulya – Karshya (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe nidana of Sthoulya and Karshya	CC	MK	KH	L&PPT	T-OBT	F&S	III	
CO1	Describe samprapti of Sthoulya	CC	MK	KH	L&GD	M-CHT	F&S	III	
CO1,CO5	Describe samanya and vishista lakshana of Sthoulya	CC	MK	KH	L&PPT	QZ	F&S	III	
CO1,CO5	Describe samanya lakshana of Karshya	CC	MK	KH	L&PPT	O-QZ	F&S	III	

CO1	Describe upadrava of Sthoulya	CC	MK	KH	L&PPT	O-QZ	F&S	III	
CO1,CO5	Differential diagnosis of Karshya	CC	MK	KH	DIS	CL-PR	F&S	III	
Topic 37 37. Obesity (Lecture :1 hours, Non lecture: 1 hours)									
CO2,CO5	Describe the clinical features of Obesity	CC	DK	KH	FC	WP	F&S	III	H-SW
CO3	Perform relevant clinical examination of Obesity	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Obesity	CAP	DK	SH	PBL, LRI	INT	F&S	III	
CO2,CO5	Describe the differential diagnosis of Obesity	CC	DK	KH	L&GD,PBL	INT	F&S	III	
Topic 38 38. Prameha (Lecture :2 hours, Non lecture: 1 hours)									
CO1	Describe pratyatma lakshana of Prameha	CC	MK	KH	L&PPT	PUZ	F&S	III	
CO1	Describe hetu and samprapti of Prameha	CC	MK	KH	L&GD	M-CHT	F&S	III	
CO1	Enlist bheda of Prameha	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe purvaroopa, vishishta lakshana, upadrava and sadhya asadhyata of Prameha	CC	MK	KH	L&PPT	PRN	F&S	III	
Topic 39 39. Diabetes Mellitus and Pancreatitis (Lecture :1 hours, Non lecture: 1 hours)									

CO2,CO5	Describe the clinical features of Diabetes Mellitus and Pancreatitis	CC	DK	KH	L&GD,CBL	INT	F&S	III	
CO2	Describe the complications of Diabetes Mellitus and Pancreatitis	CC	DK	KH	L_VC	T-CS	F&S	III	
CO3	Perform relevant clinical examination of Diabetes Mellitus and Pancreatitis	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Diabetes Mellitus and Pancreatitis	CAP	DK	SH	L&GD,LRI	SP	F&S	III	
CO2,CO5	Describe Pancreatitis induced Diabetes mellitus (Fibrocalculous pancreatic Diabetes)	CC	DK	KH	L&GD	INT	F&S	III	
Topic 40 40. Vatavyadhi (Lecture :1 hours, Non lecture: 0 hours)									
CO1,CO5	Describe nidana, samanya purvaroopa, and samanya lakshana of Vatavyadhi	CC	MK	KH	L&PPT	QZ	F&S	III	
Topic 41 41. Snayugata vata (Lecture :4 hours, Non lecture: 2 hours)									
CO1	Define Akshepaka	CK	MK	K	L&PPT	QZ	F&S	III	
CO1	Enlist Snayugata vata	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe Akshepaka	CC	MK	KH	L_VC	C-VC	F&S	III	
CO1	Enlist Akshepaka bheda	CK	MK	K	L&PPT	QZ	F&S	III	
CO1	Explain Akshepaka Samprapti	CC	MK	KH	L&GD	M-CHT	F&S	III	

CO1,CO5	Describe Apatanaka	CC	MK	KH	L&PPT	INT	F&S	III	
CO1	Enlist Apatanaka bheda	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe Dandapatanaka, Antarayama and Bahirayama	CC	MK	KH	L&PPT,CBL	C-VC	F&S	III	
CO1	Define Ardita	CK	MK	K	L&PPT	O-QZ	F&S	III	
CO1,CO5	Describe Ardita, samprapti of Ardita and lakshana of Ardita	CC	MK	KH	L_VC	INT, C-VC	F&S	III	
CO1	Compare Ardita according to Charaka and Sushruta	CC	MK	KH	DIS	C-VC	F&S	III	
CO1	Enlist Sadyasadyata of Ardita	CK	MK	K	L&PPT	INT	F&S	III	
CO1	Define Pakshaghata	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe Pakshaghata samprapti, and Pakshaghata lakshana	CC	MK	KH	L&GD,CD	C-VC	F&S	III	
CO1,CO5	Describe Kampavata	CC	MK	KH	L_VC	C-VC	F&S	III	
CO1,CO5	Describe Gridhrasi and Vishwachi with its lakshana	CC	MK	KH	CBL	T-CS	F&S	III	
CO1,CO5	Describe differential diagnosis of Gridhrasi and Viswachi	CC	MK	KH	L&GD	INT	F&S	III	
CO1,CO5	Describe Pangutwa	CC	MK	KH	L_VC	C-VC	F&S	III	
CO1,CO5	Differentiate Khanja with Gridhrasi	CC	MK	KH	L&G	C-VC	F&S	III	

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Topic 42 42. Common neurologic and spine disorders (Lecture :2 hours, Non lecture: 4 hours)									
CO2,CO5	Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis	CC	DK	KH	L_VC ,RP	C-VC	F&S	III	
CO3	Perform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis	PSY-GUD	DK	SH	L_VC ,D_B ED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis	CAP	DK	SH	L&G D,LRI	INT	F&S	III	
Topic 43 43. Sandhigatavata and Asthi majja gata vata (Lecture :1 hours, Non lecture: 0 hours)									
CO1,CO5	Describe Sandhigatavata	CC	MK	KH	L_VC	C-VC	F&S	III	
CO1,CO5	Describe Katigraha and Manyastambha	CC	MK	KH	L&PP T	INT	F&S	III	
CO1,CO5	Explain Vatakantaka	CC	MK	KH	L&PP T	T-CS	F&S	III	
CO1,CO5	Describe Avabahuka and Amsashosha	CC	MK	KH	L&PP T	INT	F&S	III	

CO1,CO5	Describe the differential diagnosis of Avabahuka with Vishwachi	CC	MK	KH	L&GD	QZ	F&S	III	
CO1,CO5	Describe Asthi-majjagata vata	CC	MK	KH	L&PPT	INT	F&S	III	
Topic 44 44. Diseases of bone, joints, and muscles (Lecture :1 hours, Non lecture: 2 hours)									
CO2,CO5	Describe the clinical features of Diseases of bone and Joints - Osteoarthritis, Osteoporosis, Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy	CC	DK	KH	L_VC	C-VC	F&S	III	
CO3	Perform relevant clinical examination of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy	CAP	DK	SH	L&GD,XRay,LRI	INT	F&S	III	
Topic 45 45. Amavata (Lecture :2 hours, Non lecture: 0 hours)									
CO1	Describe hetu and samprapti of Amavata	CC	MK	KH	L&PPT	M-CHT	F&S	III	
CO1	Enlist bheda of Amavata	CK	MK	K	L&PPT	QZ	F&S	III	
CO1,CO5	Describe samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Amavata	CC	MK	KH	L_VC	C-VC	F&S	III	
Topic 46 46. Vatarakta (Lecture :2 hours, Non lecture: 1 hours)									

CO1	Define Vatarakta with its synonyms	CK	MK	K	L&PPT	O-QZ	F&S	III	
CO1	Describe hetu and samprapti of Vatarakta	CC	MK	KH	L&GD	M-CHT	F&S	III	
CO1	Explain Samprapti of Avasthika Vatarakta	CC	MK	KH	L&GD	INT	F&S	III	
CO1,CO5	Enlist and explain vidhi samprapti of Vatarakta	CC	MK	KH	L&GD	INT	F&S	III	
CO1,CO5	Enlist and explain bheda of doshaja Vatarakta	CC	MK	KH	L&GD	T-CS	F&S	III	
CO1,CO5	Describe purvaroopa, upadrava, and sadhya asadhyata of Vatarakta	CC	MK	KH	L&PPT	INT	F&S	III	
CO1,CO5	Describe the differential diagnosis of Sandhigata vata, Amavata and Vata rakta	CC	MK	KH	L&GD	T-CS,INT	F&S	III	
Topic 47 47. Immunological & Metabolic disorders (Lecture :1 hours, Non lecture: 2 hours)									
CO2,CO5	Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout	CC	DK	KH	L_VC,RP	C-VC	F&S	III	
CO3	Perform relevant clinical examination of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout	PSY-GUD	DK	SH	L_VC,D_BED	OSCE	F&S	III	
CO4	Order and interpret relevant investigations of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout	CAP	DK	SH	L&GD,LRI	T-CS	F&S	III	
CO2,CO5	Describe the differential diagnosis of Arthritis	CC	DK	KH	L&GD,PBL	T-CS	F&S	III	

Topic 48 48. Klaibya & Vandhyatva (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe Klaibya and vandhyatva	CC	NK	KH	L&PPT	QZ	F&S	III	
CO1	Enlist types of Klaibya and Vandhyatva	CK	NK	K	L&PPT	QZ	F&S	III	
Topic 49 49. Sexual dysfunction and Infertility (Lecture :1 hours, Non lecture: 1 hours)									
CO2	Order and interpret relevant investigations of Sexual dysfunction and Infertility	CAP	NK	SH	L&GD,LRI	T-CS	F&S	III	
CO2	Describe differential diagnosis of Sexual dysfunction and Infertility	CC	NK	KH	L&GD	INT	F&S	III	V-SP
Topic 50 50. Unmada & Apasmara (Lecture :3 hours, Non lecture: 0 hours)									
CO1	Explain nirukti of Unmada and Apasmara	CC	NK	KH	L&PPT	O-QZ	F&S	III	
CO1	Explain pratyatmalakshana of Unmada and Apasmara	CC	NK	KH	L&PPT	PUZ	F&S	III	
CO1	Describe hetu and samprapti of Unmada and Apasmara	CC	NK	KH	L&GD	M-CHT	F&S	III	
CO1	Enlist bheda of Unmada and Apasmara	CK	NK	K	L&PPT	QZ	F&S	III	
CO1	Describe samanya lakshana of Unmada and Apasmara	CC	NK	KH	L&GD,L_VC	QZ , C-VC	F&S	III	
Topic 51 51. Vishada (Lecture :1 hours, Non lecture: 0 hours)									

CO1	Define Vishada	CK	NK	K	L&PPT	QZ	F&S	III	
Topic 52 52. Murchha, and Sanyasa (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe the Utpadaka hetu of Murchha, and Sanyasa	CC	NK	KH	L&PPT	INT	F&S	III	
CO1	Describe samprapti of Murchha, and Sanyasa	CC	NK	KH	L&GD	M-CHT	F&S	III	
Topic 53 53. Common Psychiatric diseases (Lecture :1 hours, Non lecture: 0 hours)									
CO2,CO5	Describe clinical manifestation of Depression, Anxiety neurosis and Epilepsy (Non-organic)	CC	NK	KH	L&PPT	QZ	F&S	III	
CO2,CO5	Differentiate Depression, Anxiety neurosis, and Epilepsy (Non-organic)	CC	NK	KH	L&GD	CL-PR	F&S	III	
CO3	Perform mental status examination for Depression, Anxiety neurosis, and Epilepsy (Non-organic)	PSY-GUD	NK	SH	L_VC,D_BED	INT	F&S	III	
Topic 54 54. Phiranga and Upadamsha (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe nidana of Phiranga and Upadamsha	CC	NK	KH	L&PPT	QZ	F&S	III	
CO1	Explain the Upadamsha samprapti	CC	NK	KH	L&PPT	M-CHT	F&S	III	
CO1	Enlist the types of Phiranga	CK	NK	K	L&PPT	QZ	F&S	III	
Topic 55 55. Syphilis & Gonorrhoea (Lecture :1 hours, Non lecture: 1 hours)									

CO2	Describe causative factors, and clinical features of Syphilis and Gonorrhoea	CC	NK	KH	L&GD	T-CS	F&S	III	
CO2	Describe differential diagnosis of Syphilis and Gonorrhoea	CC	NK	KH	FC	T-CS	F&S	III	
CO4	Order and interpret relevant investigation of Syphilis and Gonorrhoea	CAP	NK	SH	L&GD,LRI	INT	F&S	III	
Topic 56 56. Krimiroga (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe hetu of Krimiroga	CC	NK	KH	L&PPT	O-QZ	F&S	III	
CO1	Enlist bheda of Krimiroga	CK	NK	K	L&PPT	O-QZ	F&S	III	
CO1	Describe samanya lakshana of Krimiroga	CC	NK	KH	L&PPT	O-GAME	F&S	III	
Topic 57 57. Clinical presentation of common parasitic disorders (Lecture :1 hours, Non lecture: 2 hours)									
CO2,CO5	Describe the clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm	CC	DK	KH	L_VC	C-VC	F&S	III	
CO3	Perform relevant examination of clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm	PSY-GUD	DK	SH	L&PPT	INT	F&S	III	
CO4	Order and interpret relevant investigations of clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm	CAP	DK	SH	L&GD,LRI	T-CS	F&S	III	
Topic 58 58. Khalitya & Palitya (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe Khalitya and Palitya	CC	NK	KH	L&PPT	O-QZ	F&S	III	

Topic 59 59. Shleepada (Lecture :1 hours, Non lecture: 0 hours)									
CO1	Describe nidana and samprapti of Shleepada	CC	NK	KH	L&PPT	M-CHT	F&S	III	
CO1	Enlist bheda of Shleepada	CK	NK	K	L&PPT	QZ	F&S	III	
CO1	Enlist features of Shleepada	CK	NK	K	L&PPT	O-QZ	F&S	III	
Topic 60 60. Tuberculosis (Lecture :1 hours, Non lecture: 2 hours)									
CO2,CO5	Describe the clinical presentation of Tuberculosis	CC	DK	KH	L_VC	INT, C-VC	F&S	III	H-SW
CO3	Perform relevant clinical examination of Tuberculosis	PSY-GUD	DK	SH	L&PPT	INT	F&S	III	
CO4	Order and interpret relevant investigations of clinical presentation of Tuberculosis	CAP	DK	SH	L&GD,LRI	INT	F&S	III	

List of Practicals (Term and Hours)

PRACTICALS (Marks-100)			
S.No	**List of Topics**	**Term**	**Hours**
1	1. Aptopadesha Pareeksha/Prashna Pareeksha	1	10
2	2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha.	1	10
3	3. General clinical and Systemic examination -A	1	20
4	4. General clinical and Systemic examination - B	1	20
5	5. Common Symptomatology of different systems	2	20
6	6. Vyavachedaka nidana/ Differential diagnosis	2	4
7	7. Case presentation	2	40
8	8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool	2	26
9	9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques	2	10
10	10. Introduction to Histopathology	2	4
11	11. Study of Histopathology Specimens	3	4
12	12. Retas pareeksha	3	2
13	13. Pathology practical (Perform/ Observation/ Interpretation)	3	40

Table 4: Learning objectives (Practical)

A4 Course outcome	B4 Learning Objective (At the end of the session, the students should be able to)	C4 Domain/sub	D4 Must to know / desirable to know / Nice to know	E4 Level Does/ Shows how/ Knows how/ Know	F4 T-L method	G4 Assessment (Refer abbreviations)	H4 Formative/ summative	I4 Term	K4 Integration
Topic 1 1. Aptopadesha Pareeksha/Prashna Pareeksha									
CO3,CO5	Perform Aptopadesha pareeksha, Prashna pareeksha or History taking mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis	PSY-GUD	MK	KH	D_BED	CHK,RK	F&S	I	
CO7,CO8	Adopt and reflect ward ethics and communiction skills while engaging in the process of examination	AFT-RES	MK	SH	SIM	SP,RK	F&S	I	
Topic 2 2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha.									
CO3,CO5	Perform Darshanendriya, Sparshanedriya, Srotrendriya pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis	PSY-GUD	MK	SH	D_BED	P-CASE	F&S	I	
CO5	Perform Ghranendriya, & infer Rasanendriyataha pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis	CAN	MK	KH	SIM	P-CASE,RK	F&S	I	
CO5,CO7	Report the findings of patient through structured case sheet	CC	MK	KH	CD	P-CASE,RK	F&S	I	
CO3,CO5	Perform Nadi pareeksha as per Ayurveda classics for identifying predominance of dosha.	PSY-GUD	MK	SH	D_BED	P-PRF	F&S	I	

Topic 3 3. General clinical and Systemic examination -A									
CO3,CO5	Perform general examination and various systemic examination - General physical examination, Nervous system, Musculo skeletal system, Gastro intestinal system, Respiratory system, Integumentary system, Uro-genital system, Cardiovascular system, etc. (Inspection, Palpation, Percussion, Auscultation)	PSY-GUD	MK	SH	SIM, D_BED	CL-PR,OSCE,RK	F&S	I	
Topic 4 4. General clinical and Systemic examination - B									
CO3,CO5	Interpret the findings of general examination and various systemic examination - General physical examination, Nervous system, Musculo skeletal system, Gastro intestinal system, Respiratory system, Integumentary system, Uro-genital system, Cardiovascular system, etc. (Inspection, Palpation, Percussion, Auscultation)	CAP	MK	SH	SIM	SP,RK	F&S	I	
Topic 5 5. Common Symptomatology of different systems									
CO2,CO5	Describe the causes and mechanism of manifestation of Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and Constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling Differential Diagnosis, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke in various case scenarios	CC	DK	KH	L_VC	COM	F&S	II	
CO2,CO5	Investigate the causes and mechanism of manifestation of Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and Constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke in various case scenarios	AFT-RES	DK	SH	IBL,PBL	INT	F&S	II	
Topic 6 6. Vyavachedaka nidana/ Differential diagnosis									

CO5	Infer diagnosis and prognosis based on a given clinical scenario	CAN	MK	KH	PBL, CD	SP	F&S	II	
CO5	Apply hypothetic-deductive model of clinical reasoning, Pattern recognition model, dual process diagnostic reasoning model, pathway for clinical reasoning model, integrative model of clinical reasoning model, model of diagnostic reasoning strategies in primary care for clinical diagnosis	CAP	DK	SH	SIM, CD	INT,SP	F&S	II	
CO5	Apply intuitive and analytical approach in clinical decision making	CAP	DK	SH	PBL,SIM,CD	SP	F&S	II	
CO5	Perform clinical diagnosis using these clinical reasoning models	PSY-GUD	DK	SH	SIM, CD	SP	F&S	II	
Topic 7 7. Case presentation									
CO5,CO7	Demonstrate case presentation skills	PSY-GUD	MK	SH	L_VC,D_BED	P-CASE,CL-PR	F&S	II	
Topic 8 8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool									
CO4,CO5,CO6	Order and interpret Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool.	CAP	MK	SH	PBL, LRI	T-CS	F&S	II	
CO3	Suggest patient's preparation for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool	AFT-RES	MK	SH	L&PPT	SP	F&S	II	
CO3	Perform sample collection for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool	PSY-GUD	MK	SH	SIM	SP,RK	F&S	II	
Topic 9 9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques									
CO4,CO5,CO	Order and interpret given report for Electro Cardio Gram (ECG)	CAP	DK	SH	L&PP	P-ID,CL-PR	F&S	II	

6	and different imaging techniques				T,XRay				
CO3	Suggest patient's preparation for Electro Cardio Gram (ECG) and different imaging techniques	AFT-RES	DK	SH	L&PPT	INT,SP	F&S	II	
Topic 10 10. Introduction to Histopathology									
CO4,CO5,CO6	Order and interpret tests for Histopathology specimens	CAP	NK	SH	LRI	INT	F&S	III	
Topic 11 11. Study of Histopathology Specimens									
CO4,CO5	Distinguish and describe prepared histopathology specimens of Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver (Provide normal and abnormal slides to distinguish while deomonstration and spotting)	AFT-RES	NK	SH	D_L	P-ID	F&S	III	
Topic 12 12. Retas pareeksha									
CO1,CO5	Describe and interpret retas pareeksha	CC	DK	KH	D_L	INT	F&S	III	
Topic 13 13. Pathology practical (Perform/ Observation/ Interpretation)									
CO4,CO5,CO6	Order and interpret Hb, RBC Count, WBC count, Haematocrit, Platelet count, Differential count, RBC indices and ESR* - Haematology Analyser through Flow cytometry technique	CAP	MK	SH	CBL	INT,RK	F&S	III	
CO3	Perform Hb, RBC Count, WBC count, Haematocrit, Platelet count, Differential count, RBC indices procedure through - Haematology Analyser or Cell counter through Flow cytometry technique	PSY-GUD	MK	SH	PT	P-PRF	F&S	III	
CO4,CO5,CO6	Order and interpret Urine physical examination (Appearance, colour, odour)	CAP	MK	SH	LRI	INT	F&S	III	

CO3	Perform Urine physical examination (Appearance, colour, odour) through Visual method	PSY-GUD	MK	SH	CBL, PT	P-PRF	F&S	III	
CO4,CO5,CO6	Order and interpret Urine physical and chemical examination (Urine specific gravity, Urine-ph, Sugar, Albumin, Bile pigment, Bile salt, Occult blood, Ketone, Urobilinogen) - Multistix (Urine test strips)	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	
CO3	Perform Urine physical and chemical examination (Urine specific gravity, Urine-ph, Sugar, Albumin, Bile pigment, Bile salt, Occult blood, Ketone, Urobilinogen) - Multistix (Urine test strips) (Create or simulate abnormal samples to demonstrate positive results)	PSY-GUD	MK	SH	PRA	P-PRF	F&S	III	
CO4,CO5,CO6	Order and interpret Urine Microscopic Examination (Epithelial cells, RBCs, Leukocytes, Casts, Crystals) - Light microscopy on centrifuged sediment	CAP	MK	SH	CBL, LRI	INT	F&S	III	
CO3	Perform Urine Microscopic Examination (Epithelial cells, RBCs, Leukocytes, Casts, Crystals by Light microscopy on centrifuged sediment)	PSY-GUD	MK	SH	PRA	P-PRF	F&S	III	
CO4,CO5,CO6	Order and interpret Liver Function Test (LFT) (Total Bilirubin, Direct – indirect bilirubin, SGOT, SGPT, ALK Phosphates, T Protein, Albumin, Globulin, A/G Ratio) -Semi-automated/ fully automated biochemical analyser through Photometry	CAP	NK	SH	CBL, LRI	INT	F&S	III	
CO2	Describe Liver Function Test (LFT) (Total Bilirubin, Direct – indirect bilirubin, SGOT, SGPT, ALK Phosphates, T Protein, Albumin, Globulin, A/G Ratio) procedure through demonstration	CC	DK	KH	D_L	INT	F&S	III	

	- Semi-automated/ fully automated biochemical analyser through Photometry								
CO2	Explain the principle and mechanism of functioning of biochemical analyzer	CC	DK	KH	D_L	QZ	F&S	III	
CO4,CO5,CO6	Order and interpret Renal Function Test (RFT) (Urea, Creatinine, Uric acid) - Semi-automated/ fully automated biochemical analyser through Photometry	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	
CO4,CO5,CO6	Order and interpret Diabetic profile (Blood Glucose-FBS, PPBS, RBS. HbA1C, Insulin, C-peptide) - Semi-automated/ fully automated biochemistry analyser/ ELISA reader through Photometry/ immunoturbidometry/ELISA Technique	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	
CO4,CO5,CO6	Order and interpret Thyroid profile (TSH, T3, T4, F T3, F T4) - ELISA Reader/ CLIA through ELISA/ CLIA Technique	CAP	MK	KH	CBL, LRI	INT	F&S	III	
CO2	Describe Thyroid profile (TSH, T3, T4, F T3, F T4) procedure through demonstration - ELISA Reader/ CLIA through ELISA/ CLIA Technique	CAP	DK	KH	D_L	QZ	F&S	III	
CO4,CO5,CO6	Order and interpret Lipid profile (Cholesterol, HDL, LDL, TG) - Semi-automated/ fully automated biochemical analyser through Photometry	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	
CO4,CO5,CO6	Order and interpret Peripheral smear (Malaria, Microfilaria) - Microscopy through Leishmans staining	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	
CO2	Describe Peripheral smear (Malaria, Microfilaria) procedure through demonstration - Microscopy through Leishmans staining	CC	DK	KH	D_L	QZ	F&S	III	
CO4,CO5,CO6	Order and interpret RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	

	Turbidometry								
CO3	Perform RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/ Turbidometry	PSY-GUD	MK	SH	PRA	P-PRF	F&S	III	
CO4,CO5,CO6	Order and interpret Stool examination (Colour, Consistency) - Visual method	CAP	NK	SH	CBL, LRI	INT,RK	F&S	III	
CO2	Describe Stool examination (Colour, Consistency) - Visual method	CC	DK	KH	D_L	INT	F&S	III	
CO4,CO5,CO6	Order and interpret Stool examination (Ova , Cyst, Pus cells) - Microscopy through Wet smear (saline and iodine)	CAP	NK	SH	CBL, LRI	INT,RK	F&S	III	
CO2	Describe Stool examination (Ova , Cyst, Pus cells) - Microscopy through Wet smear (saline and iodine)	CC	DK	KH	D_L	INT	F&S	III	
CO4,CO5,CO6	Order and interpret Semen examination (Colour, Liquefaction, Viscosity) - Visual method	CAP	DK	SH	CBL, LRI	INT,RK	F&S	III	
CO2	Describe Semen examination (Colour, Liquefaction, Viscosity) procedure through demonstration - Visual method	CC	DK	KH	D_L	INT	F&S	III	
CO4,CO5,CO6	Order and interpret Semen examination (Sperm count, Motility, Morphology) - Microscopy through Cytometry/ Wet smear/ stained smear	CAP	DK	SH	CBL, LRI	INT,RK	F&S	III	
CO2	Describe Semen examination (Sperm count, Motility, Morphology) procedure through demonstration - Microscopy through Cytometry/ Wet smear/ stained smear	CC	DK	KH	D_L	INT,COM	F&S	III	
CO4,CO5,CO6	Order and interpret BT, CT, Prothrombin Time - Coagulometer	CAP	MK	SH	CBL, LRI	INT,RK	F&S	III	

Table 4a: List of Practical

S.No	Name of practical	Term	Activity	Practical hrs
1	1. Aptopadesha Pareeksha/Prashna Pareeksha	1	History taking/ Ward ethics/ Communication skills	10
2	2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha.	1	Darshanendriya, Sparshanedriya, Srotrendriya & Ghranendriya & Rasanendriyataha pareeksha. General principle of systemic examination – Inspection, Palpation, Percussion, Auscultation	10
3	3. General clinical and Systemic examination -A	1	Demonstration on patients and using simulators, software or applications	20
4	4. General clinical and Systemic examination - B	1	General and Systemic examination	20
5	5. Common Symptomatology of different systems	2	Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling Differential Diagnosis, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke Differential Diagnosis	20
6	6. Vyavachedaka nidana/ Differential diagnosis	2	Clinical reasoning models	4
7	7. Case presentation	2	Demonstrating and presenting steps of clinical diagnosis	40
8	8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool	2	A. Order an investigation B. Patient’s preparation C. Sample collection	26
9	9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques	2	Order and interpret reports related to ECG and Diagnostic imaging	10
10	10. Introduction to Histopathology	2	Order and Interpret	4

11	11. Study of Histopathology Specimens	3	Prepared histopathology specimens to be demonstrated, observed and studied (Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver)	4
12	12. Retas pareeksha	3	Interpret observations derived from reto pareeksha	2
13	13. Pathology practical (Perform/ Observation/ Interpretation)	3	13.1 Hematology (Discipline) - Hemogram (Profile) 13. 2 Clinical pathology (Discipline) - Urine Physical Examination (Profile) 13. 3 Clinical pathology (Discipline) - Urine Physical and Chemical Examination (Profile) 13. 4 Clinical pathology (Discipline) - Urine Microscopic Examination (Profile) 13. 5 Clinical biochemistry (Discipline) - Liver Function Test (LFT) (Profile) 13. 6 Clinical biochemistry (Discipline) - Renal Function Test (RFT) (Profile) 13. 7 Clinical biochemistry (Discipline) - Diabetic profile (Profile) 13. 8 Clinical biochemistry (Discipline) - Thyroid profile (Profile) 13. 9 Clinical biochemistry (Discipline) - Lipid profile (Profile) 13. 10 Clinical Pathology/ Haematology (Discipline) - Peripheral Smear (Profile) 13. 11 Serology (Discipline) - RA Factor/ WIDAL (Profile) 13. 12 Clinical Pathology (Discipline) - Stool examination (Profile) 13. 13 Clinical Pathology (Discipline) - Stool examination (Profile) 13. 14 Clinical Pathology (Discipline) - Semen examination (Profile) 13. 15 Serology (Discipline) - Coagulation test (Profile)	40
			Total Hr	**210**

Activity

CO	Topic name	Activity Details	Hours#
CO1,CO2,CO3,CO4 ,CO6,CO7,CO8	1. Assessment of Dosha Vikriti: A. Nidana (Vyadhi janaka hetu) B. Agni bheda and Vikriti C. Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja. D. Dosha swabhava - Nityasamshleshita (Leena) dosha and Parichedita dosha E. Paridhavamana dosha	Survey : After the completion of the topic the students are instructed to identify: The contemporary etiologies for the nidana or hetu are mentioned in various contexts as a part of case diagnosis. Identify Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja features as a part of Case diagnosis. Minimum - 5 cases	6
CO1,CO2	2. Dhatu PakaA. Ojodusti lakshana B. Asatmya - Immune pathology, C. Cell Injury and Cellular Adaptations D. Inflammation E. Hemodynamic disorders F. Neoplasia	Creating video presentations (5 to 7 minutes): After understanding the basic concepts: Group of 5 students together are instructed to prepare one quality educational video with current research updates in the field in a structured format and submit the same to the instructor. Topics of Ayurveda and various contemporary learning objectives defined can be provided for the same. The topics for video presentations should be selected from the subtopics, it can be regarding a specific point or research update or collection	5

		and summary of scientific articles, etc. which will be assisting in clinical practice. The video presentations should be submitted to create a repository and presented to the department.	
CO2	3. Infection and Nutritional disorders	Class presentations: Group activity with self-directed learning: Students are instructed to compile the subtopics given to the group. Prepare a PPT presentation and present it in class with the groups. 10 min. for presentation and 5 min for question answers for each group. Topics to be covered in the presentation: A) The detailed knowledge of specific organisms, infectious disease symptomatology, and diagnostic procedures with recent advancements and challenges in diagnosis. B) Nutritional disorders with the thought of understanding the spectrum of signs and symptoms with Ayurveda literature, methods to diagnose in contemporary science, complications, etc. Monitored by instructors or mentors assigned for each group.	2
CO6	4. Digital health and Artificial intelligence in the context of Roganidana	Poster making: After a basic understanding of the topic, the students are instructed to prepare Posters regarding the use of Information and Communication Technology and other recent digital developments in understanding diagnosis, prognosis, and developing repositories related to morbidities or Roganidana Evum Vikriti Vigyan in the current era aiding for academics and	1

		clinical practice.Similarly, the implementation of artificial intelligence in diagnosis and prognosis also can be prepared.	
CO1,CO2,CO3,CO4 ,CO6,CO7,CO8	5. Methods of Rogi pareeksha	Demonstration bed side: After understanding the core concepts of pareeksha the student will be Demonstrated regarding various pareekshas before performing the same in practical session. The students are supposed to observe the same, receive, understand and imitate the methods demonstrated. Students will be assigned with the mentioned topics as a part of the activity by the instructor in minimum 5 simulated patients or patients.	5
CO6	6. Vyadhinamakarana	Demonstration: The instructor will be demonstrating the operations of the NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal. The student should observe and implement the same for reporting terminologies or diagnosis.The instructor can give modified data indicating the disease diagnosis with masked patient details for mentioning the allotted codes of diseases or conditions from NAMASTE portal and WHO international standard terminologies on Ayurveda or A list of common diseases prevailing in the area can be given to the students to search the portal and mention the codes by themselves. Students can be assigned with any of the mentioned topics as a part of the activity by the instructor.	1

CO2,CO3,CO6,CO7,CO8	7. Perform relevant clinical examinations in the following disorders: Gastrointestinal disorders: Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases. Urinary disorders: Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease. Respiratory disorders: Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion and Bronchiectasis. Measles, Chickenpox and herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever. Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.	Demonstration bedside (Simulated patients): The students will be instructed to observe the bedside demonstration activity by the instructor, followed by students imitating or performing the same activity relevant to the condition associated. The case study will be written in the activity book.	8

	Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid. Mycotic skin diseases. Leprosy. Vitiligo. Cellulitis. Hypothyroidism and hyperthyroidism. Obesity. Diabetes Mellitus and Pancreatitis. Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis. Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome. Muscular diseases - Muscular Dystrophy. Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout. Mental status examination for Depression, Anxiety neurosis and Epilepsy			

	(Non - organic). Common parasitic infestations: Hookworm, Roundworm, Threadworm, and Pinworm.		
CO4,CO6,CO7,CO8	8. Order and interpret relevant investigations with the clinical correlation of the following disorders: Gastrointestinal disorders: Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases. Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury, and Chronic Kidney Disease. Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever. Anaemia, Nutritional anaemia, Thalassemia, Sickle cell anaemia, Leukaemia, and	Lab report interpretation: Students will be given a clinical scenario or a case or report in the respective training hour. Based on the training given the students are expected to draw a provisional diagnosis based on the Lab report interpretation. The same has to be recorded in the activity book	8

	Thrombocytopenia. Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites. Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid. Mycotic skin diseases. Leprosy. Vitiligo. Cellulitis. Hypothyroidism and hyperthyroidism. Obesity. Diabetes Mellitus and Pancreatitis. Common neurologic diseases: Parkinson’s disease, Stroke, Bell’s Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic). Common Spine disorders: Lumbago - Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis. Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome.			

	Muscular diseases - Muscular Dystrophy. Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout. Sexual dysfunction and Infertility.Syphilis and Gonorrhoea. Parasitic infestations: Hookworm, Roundworm, Threadworm, and Pinworm. Tuberculosis		
CO1,CO2	9. Differential diagnosis: Differentiate between Atisara and Pravahika. Differentiate Atisara and Grahani Roga. Differentiate Grahani dosha and Grahani Roga. Describe the differential diagnosis of Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases. Enlist conditions of Mutra shoshana (Kshaya and Aukasada) and Mutra pratihanyate (Avarodha) among different types of Mutraghata. Describe different types of Mutraghata.	Problem-Based Learning: The students will be grouped for PBL sessions with a specific topic from the topic list given. At the end of the session, the groups will present in class. Peer learning will also be achieved with this activity.	10

	Differentiate Mootrakrichra and Mootraghata. Describe the differential diagnosis of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Describe the differential diagnosis of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid and other common regional disorders presenting with fever. Describe the differential diagnosis of Anaemia, Nutritional anemia, Thalassemia, Sickle cell anemia, Leukaemia, and Thrombocytopenia. Describe the differential diagnosis of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Describe the differential diagnosis of Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites. Describe the differential diagnosis of Hypothyroidism and hyperthyroidism.		

	Describe the differential diagnosis of Obesity. Describe the differential diagnosis of Diabetes Mellitus and Pancreatitis. Describe the differential diagnosis of Common neurologic diseases: Parkinson’s disease, Stroke, Bell’s Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic), and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical, and Lumber Spondylosis. Describe the differential diagnosis of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome, and Muscular diseases - Muscular Dystrophy. Describe the differential diagnosis of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, and Gout. Describe differential diagnosis of Sexual dysfunction and Infertility. Describe differential diagnosis of Syphilis and Gonorrhoea. Describe the differential			

	diagnosis of clinical presentation of Hookworm, Roundworm, Threadworm, and Pinworm. Describe the differential diagnosis of the clinical presentation of Tuberculosis.		
CO2,CO5	10. Clinical features - Role plays in learning: Describe the clinical features of Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases. Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury, and Chronic Kidney Disease. Describe the clinical features of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Describe the clinical features of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, typhoid, and other common regional disorders presenting with fever.	Role plays: Role plays are an effective method of teaching to create a real-world scenario in a controlled manner. In this certain group of students will be trained for pre-class preparation regarding a disease or condition to be presented in the class in front of small cluster groups of students. Further, the groups are asked to interact with the performing student to understand more about a condition and use their clinical acumen to diagnose the condition moderated by an instructor.	10

	Describe the complications of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever. Describe the clinical features of Anaemia, Nutritional anemia, Thalassemia, Sickle cell anemia, Leukaemia, and Thrombocytopenia. Describe the clinical features of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Describe the clinical features of Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites. Describe the clinical features of Hypothyroidism and hyperthyroidism. Describe the clinical features of Diabetes Mellitus and Pancreatitis. Describe the clinical features of Common neurologic diseases: Parkinson’s disease, Stroke, Bell’s Palsy,			

	Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic), and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical, and Lumber Spondylosis. Describe the clinical features of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome, and Muscular diseases - Muscular Dystrophy. Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, and Gout.		
CO4,CO6,CO8	11. Field visits: Visit to Pathology laboratory and Diagnostic imaging center.	Visit: Students are instructed to visit at least one pathology laboratory and one imaging center; observe the procedures followed.Record the observations and submit the report to the instructor.	10

Hours indicated are included in calculations of Table 3 and 4

Table 5- Teaching learning method

Sr No	Teaching learning methods in the course	No of Activities
1	Lecture	2
2	Lecture with Power point presentation	222
3	Lecture & Group Discussion	133

4	Lecture with Video clips	45
5	Discussions	16
6	Brainstorming	3
7	Inquiry-Based Learning	4
8	PBL	14
9	CBL	9
10	Project-Based Learning	16
11	Team project work	2
12	Flipped classroom	4
13	Blended Learning	3
14	Edutainment	2
15	Simulation	1
16	Role plays	10
17	Self-directed learning	6
18	Problem solving method	1
19	Recitation	31
20	Tutorial	3
21	Presentations	3
22	X ray identification	2
23	Case diagnosis	3
24	Lab report interpretation	18
25	Demonstration	2
26	Demonstration bedside	15
27	Demonstration Lab	1

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

Subject Code	Papers	Theory	Practical/Clinical Assessment					
			Practical	Viva	Elective	IA	Sub	Grand

							Total	Total
AyUG-RN	2	200	100	70	-	30	200	400

6 B - Scheme of Assessment (formative and Summative)

PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
	First Term (1-6 Months)	**Second Term (7-12 Months)**	**Third Term (13-18 Months)**
Second	3 PA & First TT	3 PA & Second TT	3 PA & UE**

PA: Periodical Assessment; **TT:** Term Test; **UE:** University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

TERM	PERIODICAL ASSESSMENT*					TERM TEST**	TERM ASSESSMENT	
	A 3	B	C	D	E	F	G	H
	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/ 3)	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Ass essment (…./30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		E
Final IA	Average of Three Term Assessment Marks as Shown in 'H' Column.							
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

6 D - Evaluation Methods for Periodical Assessment

S. No	Evaluation Methods
1	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3

Evaluation Methods in MSE

1. Practical / Clinical Performance
2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3. Open Book Test (Problem Based)
4. Summary Writing (Research Papers/ Samhitas)
5. Class Presentations; Work Book Maintenance
6. Problem Based Assignment
7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9. Small Project etc.

6 E Question Paper Pattern

II PROFESSIONAL BAMS EXAMINATIONS
AyUG-RN
PAPER-1
Time: 3 Hours Maximum Marks: 100
INSTRUCTIONS: All questions compulsory

		Number of Questions	**Marks per question**	**Total Marks**
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II

6 F Distribution of theory examination

Paper 1 Fundamental Principles of Vikriti Vigyan						
Sr. No	**A List of Topics**	**B Term**	**C Marks**	**MCQ (1 Mark)**	**SAQ (5 Marks)**	**LAQ (10 Marks)**
1	**1. Roga nidana – Pathophysiology and clinical diagnosis**	1	43	No	Yes	No
2	**2. Pareeksha**	1		Yes	Yes	Yes
3	**3. Methods of Rogi pareeksha**	1		No	Yes	Yes
4	**4. Sapeksha nidana - Vyavacchedaka nidana**	1		No	Yes	Yes
5	**5. Upashaya/ Anupashaya**	1		Yes	Yes	No
6	**6. Dosha Vikriti**	1		Yes	Yes	Yes
7	**7. Doshagati and Rogamarga**	1		Yes	Yes	Yes
8	**8. Srotodushti**	1		Yes	Yes	Yes
9	**9. Concept of Ama**	1		Yes	Yes	Yes
10	**10. Assessment of Ama**	1		Yes	Yes	No
11	**11. Sthana samshraya – Poorvaroopa**	1	49	No	Yes	Yes
12	**12. Dushya dushti**	1		Yes	Yes	Yes
13	**13. Samprapti**	1		No	Yes	Yes
14	**14. Rupa**	1		Yes	Yes	Yes
15	**15. Vyadhinamakarana**	1		Yes	Yes	No
16	**16. Vyadhi**	1		Yes	Yes	Yes

17	**17. Ashtanindita (Endocrine disorders)**	1		Yes	Yes	No
18	**18. Janapadodhwamsa vikara (Pandemic disorders)**	1		Yes	Yes	No
19	**19. Nidanarthakara Vyadhi, Vyadhisankara**	1		Yes	Yes	No
20	**20. Vyadhikshamatva**	1		Yes	Yes	Yes
21	**21. Rogi bala Pareeksha**	1		Yes	Yes	No
22	**22. Dhatu Paka**	1		Yes	Yes	Yes
23	**23. Infection and Nutritional disorders**	1	8	Yes	Yes	No
24	**24. Upadrava**	2		Yes	Yes	No
25	**25. Arishta**	2		Yes	No	No
26	**26. Vyadhi bala pareeksha**	2		Yes	Yes	No
27	**27. Sadhyasadhyatva – Prognosis**	2		Yes	Yes	No
28	**28. Digital health and Artificial intelligence in the context of Roganidana**	2		Yes	No	No
Total Marks			**100**			

Paper 2 Vyadhi Vigyan, contemporary understanding and updates						
Sr. No	**A List of Topics**	**B Term**	**C Marks**	**MCQ (1 Mark)**	**SAQ (5 Marks)**	**LAQ (10 Marks)**
29	**1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa**	2	43	Yes	Yes	Yes
30	**2. Chhardi**	2		Yes	Yes	No

31	**3. Amlapitta**	2		Yes	Yes	No
32	**4. Shoola**	2		Yes	Yes	Yes
33	**5. Atisara, and Pravahika**	2		Yes	Yes	Yes
34	**6. Grahani**	2		No	Yes	Yes
35	**7. Visuchika, Alasaka, Vilambika**	2		Yes	Yes	No
36	**8. Common GIT diseases**	2		Yes	Yes	No
37	**9. Mutrakrichhra**	2		Yes	Yes	No
38	**10. Mutraghata**	2		Yes	Yes	No
39	**11. Common Urinary diseases**	2		Yes	Yes	No
40	**12. Hikka**	2		Yes	Yes	No
41	**13. Shwasa**	2		Yes	Yes	Yes
42	**14. Kasa**	2		Yes	Yes	Yes
43	**15. Rajayakshma & Shosha**	2		Yes	Yes	No
44	**16. Common lung disorders**	2		Yes	Yes	No
45	**17. Jwara**	2		Yes	Yes	Yes
46	**18. Masurika – Romantika**	2		Yes	No	No
47	**19. Fever**	2		Yes	Yes	No
48	**20. Pandu**	2		No	Yes	Yes
49	**21. Raktapitta**	2	25	Yes	Yes	Yes

50	**22. Hematopoietic diseases**	2		Yes	Yes	No
51	**23. Hridroga**	2		Yes	Yes	No
52	**24. Shotha**	2		No	Yes	Yes
53	**25. Cardiovascular disorders**	2		Yes	Yes	No
54	**26. Kamala**	2		No	Yes	Yes
55	**27. Udara Roga**	2		No	Yes	Yes
56	**28. Hepatobiliary diseases**	2		Yes	Yes	No
57	**29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka)**	3		No	Yes	Yes
58	**30. Sheetapitta**	3		No	Yes	Yes
59	**31. Shwitra**	3		No	Yes	Yes
60	**32. Visarpa**	3		No	Yes	Yes
61	**33. Skin diseases**	3		Yes	Yes	No
62	**34. Galaganda**	3		Yes	No	No
63	**35. Thyroid disorders**	3		Yes	Yes	No
64	**36. Sthoulya – Karshya**	3	32	No	Yes	Yes
65	**37. Obesity**	3		Yes	Yes	No
66	**38. Prameha**	3		No	Yes	Yes
67	**39. Diabetes Mellitus and Pancreatitis**	3		Yes	Yes	No

68	**40. Vatavyadhi**	3	No	Yes	Yes
69	**41. Snayugata vata**	3	No	Yes	Yes
70	**42. Common neurologic and spine disorders**	3	Yes	Yes	No
71	**43. Sandhigatavata and Asthi majja gata vata**	3	No	Yes	Yes
72	**44. Diseases of bone, joints, and muscles**	3	Yes	Yes	No
73	**45. Amavata**	3	No	Yes	Yes
74	**46. Vatarakta**	3	No	Yes	Yes
75	**47. Immunological & Metabolic disorders**	3	Yes	Yes	No
76	**48. Klaibya & Vandhyatva**	3	Yes	No	No
77	**49. Sexual dysfunction and Infertility**	3	Yes	No	No
78	**50. Unmada & Apasmara**	3	Yes	No	No
79	**51. Vishada**	3	Yes	No	No
80	**52. Murchha, and Sanyasa**	3	Yes	No	No
81	**53. Common Psychiatric diseases**	3	Yes	No	No
82	**54. Phiranga and Upadamsha**	3	Yes	No	No
83	**55. Syphilis & Gonorrhoea**	3	Yes	No	No
84	**56. Krimiroga**	3	Yes	No	No
85	**57. Clinical presentation of common parasitic disorders**	3	Yes	Yes	No

86	**58. Khalitya & Palitya**	3		Yes	No	No	
87	**59. Shleepada**	3		Yes	No	No	
88	**60. Tuberculosis**	3					
Total Marks			**100**				

6 G Blue print of paper I & II

Paper No:1		
Question No	**Type of Question**	**Question Paper Format**
Q1	**Multiple choice Questions** **20 Questions** **1 mark each** **All compulsory** **Must know part - 15 MCQ** **Desirable to know - 3 MCQ** **Nice to know part - 2 MCQ**	**1.** 2. Pareeksha **2.** 5. Upashaya/ Anupashaya **3.** 7. Doshagati and Rogamarga **4.** 6. Dosha Vikriti **5.** 8. Srotodushti **6.** 9. Concept of Ama **7.** 12. Dushya dushti **8.** 15. Vyadhinamakarana **9.** 16. Vyadhi **10.** 17. Ashtanindita (Endocrine disorders) **11.** 18. Janapadodhwamsa vikara (Pandemic disorders) **12.** 19. Nidanarthakara Vyadhi, Vyadhisankara **13.** 20. Vyadhikshamatva **14.** 21. Rogi bala Pareeksha **15.** 22. Dhatu Paka **16.** 23. Infection and Nutritional disorders **17.** 27. Sadhyasadhyatva – Prognosis / 24. Upadrava **18.** 25. Arishta **19.** 26. Vyadhi bala pareeksha **20.** 28. Digital health and Artificial intelligence in the context of Roganidana
Q2	**Short answer Questions** **Eight Questions** **5 Marks Each** **All compulsory** **Must know - 7 SAQ** **Desirable to know - 1 SAQ** **No questions on Nice to know**	**1.** 1. Roga nidana – Pathophysiology and clinical diagnosis / 2. Pareeksha **2.** 11. Sthana samshraya – Poorvaroopa / 8. Srotodushti / 12. Dushya dushti / 7. Doshagati and Rogamarga / 6. Dosha Vikriti **3.** 13. Samprapti / 16. Vyadhi / 19. Nidanarthakara Vyadhi, Vyadhisankara / 17. Ashtanindita (Endocrine disorders) / 14. Rupa **4.** 20. Vyadhikshamatva / 21. Rogi bala Pareeksha / 18. Janapadodhwamsa vikara (Pandemic disorders) / 19. Nidanarthakara Vyadhi, Vyadhisankara / 22. Dhatu Paka **5.** 26. Vyadhi bala pareeksha / 27. Sadhyasadhyatva – Prognosis / 24. Upadrava **6.** 23. Infection and Nutritional disorders **7.** 10. Assessment of Ama / 9. Concept of Ama **8.** 5. Upashaya/ Anupashaya

Q3	**Long answer Questions** **Four Questions** **10 marks each** **All compulsory** **All questions on must know. No Questions on Nice to know and Desirable to know**	**1.** 4. Sapeksha nidana - Vyavacchedaka nidana / 3. Methods of Rogi pareeksha / 12. Dushya dushti / 6. Dosha Vikriti / 2. Pareeksha **2.** 11. Sthana samshraya – Poorvaroopa / 14. Rupa **3.** 9. Concept of Ama / 22. Dhatu Paka / 8. Srotodushti / 7. Doshagati and Rogamarga **4.** 20. Vyadhikshamatva / 22. Dhatu Paka
Paper No:2		
Question No	**Type of Question**	**Question Paper Format**
Q1	**Multiple choice Questions** **20 Questions** **1 mark each** **All compulsory** **Must know part - 15 MCQ** **Desirable to know - 3 MCQ** **Nice to know part - 2 MCQ**	**1.** 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 2. Chhardi **2.** 3. Amlapitta / 4. Shoola / 7. Visuchika, Alasaka, Vilambika **3.** 5. Atisara, and Pravahika / 8. Common GIT diseases **4.** 13. Shwasa / 15. Rajayakshma & Shosha / 12. Hikka / 14. Kasa **5.** 16. Common lung disorders **6.** 11. Common Urinary diseases **7.** 17. Jwara / 19. Fever / 18. Masurika – Romantika **8.** 25. Cardiovascular disorders / 22. Hematopoietic diseases **9.** 28. Hepatobiliary diseases **10.** 33. Skin diseases **11.** 35. Thyroid disorders / 34. Galaganda **12.** 37. Obesity **13.** 39. Diabetes Mellitus and Pancreatitis **14.** 42. Common neurologic and spine disorders **15.** 44. Diseases of bone, joints, and muscles / 47. Immunological & Metabolic disorders **16.** 48. Klaibya & Vandhyatva / 49. Sexual dysfunction and Infertility **17.** 51. Vishada / 50. Unmada & Apasmara **18.** 57. Clinical presentation of common parasitic disorders / 52. Murchha, and Sanyasa **19.** 54. Phiranga and Upadamsha / 55. Syphilis & Gonorrhoea **20.** 57. Clinical presentation of common parasitic disorders / 59. Shleepada / 56. Krimiroga / 60. Tuberculosis

Q2	**Short answer Questions** **Eight Questions** **5 Marks Each** **All compulsory** **Must know - 7 SAQ** **Desirable to know - 1 SAQ** **No questions on Nice to know**	**1.** 5. Atisara, and Pravahika / 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 2. Chhardi / 8. Common GIT diseases / 6. Grahani / 3. Amlapitta / 4. Shoola / 7. Visuchika, Alasaka, Vilambika **2.** 11. Common Urinary diseases / 9. Mutrakrichhra / 10. Mutraghata **3.** 25. Cardiovascular disorders / 23. Hridroga / 20. Pandu / 17. Jwara / 26. Kamala / 28. Hepatobiliary diseases / 19. Fever / 21. Raktapitta / 22. Hematopoietic diseases / 24. Shotha **4.** 32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) / 33. Skin diseases / 26. Kamala / 28. Hepatobiliary diseases / 30. Sheetapitta **5.** 40. Vatavyadhi / 44. Diseases of bone, joints, and muscles / 43. Sandhigatavata and Asthi majja gata vata / 46. Vatarakta / 42. Common neurologic and spine disorders / 45. Amavata / 41. Snayugata vata / 47. Immunological & Metabolic disorders **6.** 57. Clinical presentation of common parasitic disorders / 60. Tuberculosis **7.** 13. Shwasa / 15. Rajayakshma & Shosha / 12. Hikka / 16. Common lung disorders / 14. Kasa **8.** 39. Diabetes Mellitus and Pancreatitis / 37. Obesity / 38. Prameha
Q3	**Long answer Questions** **Four Questions** **10 marks each** **All compulsory** **All questions on must know. No Questions on Nice to know and Desirable to know**	**1.** 13. Shwasa / 5. Atisara, and Pravahika / 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 6. Grahani / 4. Shoola / 14. Kasa **2.** 20. Pandu / 17. Jwara / 38. Prameha / 21. Raktapitta / 36. Sthoulya – Karshya / 24. Shotha **3.** 32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) / 26. Kamala / 30. Sheetapitta **4.** 40. Vatavyadhi / 43. Sandhigatavata and Asthi majja gata vata / 46. Vatarakta / 41. Snayugata vata

6 H Distribution of Practical Exam

S.No	Heads	Marks
1	**Spotting/ Identification: (10 Questions X 3 Marks = 30 Marks): (Note: Minimum of one spotting should be kept mandatorily from all the different heads mentioned below)** **X-Ray/ECG/ Clinical sign picture/ Slide/ Diagnostic report/ Causative factors** **X-Ray (Assessment format):** On a given X-Ray film (Any of the below): • Comment on inspiration and rotation (chest), position, penetration or exposure, and artifacts in a given X-Ray film • Find out the abnormal findings or sign that indicates a specific condition (By assessing size, shape, density, and location of structures) – Airway/ Bones and soft tissue/ Cardiac/ Diaphragm/ Effusion/ Gastric bubble/ Hila and mediastinum) **ECG (Assessment format):** On a given Electro Cardio Gram (Any of the below): • Determine and comment on rhythm and rate (Paper and pencil method/ Caliper method/ 10-times method/ 1500 method) • P wave interpretation (Location/ Amplitude/ Duration/ Configuration/ Deflection) • PR interval interpretation (Location and duration) • QRS complex interpretation (Location/ Amplitude/ Duration/ Configuration/ Deflection) • ST segment interpretation (Location and deflection) • T wave interpretation (Location/ Amplitude/ Configuration/ Deflection) **Clinical sign/ image or picture (Assessment format):** On a given image of a patient with sign (Any of the below): • Identify the sign • Possible aetiologies behind the case • Possible investigations for further confirmation of a case • Differential diagnosis • Diagnose the condition or disease associated with the sign **Slide (Assessment format):** Identify and mention the provisional diagnosis of (Any of the below): • Haematology (Peripheral blood smear) • Histopathology (Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver) • Stool microscopy (Ova, Cyst, Pus cells)	30

	• Urine microscopy (Epithelial cells, RBCs, Leukocytes, Casts, Crystals) • Microbiology (Bacterial identification – Shape, Gram+ve/ Gram –ve) • Parasitology (Slide/ Specimen) **Diagnostic report (Assessment format):** Interpret the report and mention the provisional diagnosis (Any of the below): • Hemogram • Liver Function Test (LFT) • Renal Function Test (RFT) • Diabetic profile • Thyroid profile • Lipid profile **Causative factors/ Hetu (Assessment format):** Mention the disease or diseases that are associated with the cause or hetu (Shown as an object/ model/ specimen/ picture) with brief justification (Any of the below): • Any specific diet • Any specific regimen • Any specific factor mentioned for causing a disease	
2	**Long Case: History taking, Examination, Investigation (Order and interpretation), Differential Diagnosis, Provisional Diagnosis (1 Case X 40 Marks = 40 Marks)** **a. History taking (Including communication skills) - 10 Marks** History taking should cover the following points: • AturaVivara (Basic patient details) • Pradhana Vedana with Kala prakarsha (Chief complaints with duration) • Vartamana vyadhi vruttant (History of present illness) • Poorva vyadhi Vrittanta (Past illness) • Kula vruttanta (Family history) • Chikitsa Vruttanta (Treatment history) • Vayaktika Vruttanta (Personal history) – Ahara, Vihara, Vyasana, Vyayama shakti, Mala pravritti, Mutra pravritti, Raja pravritti, Koshtha, Nature of work and duration of work, Emotional makeup, and Social Relation. **b. Examination & Order and interpretation of investigations – 20 Marks** The examination should include the following points: • General examination including Ashtasthana pareeksha • Systemic examination - Pratyaksha and Anumana Pariksha/ Panchajnanendriyataha Pareeksha (Affected system/ systems), Sroto pareeksha and Mana pareeksha	40

	Investigations should include the following points: • Ordered investigation to patient • Any further comment on the previously ordered investigations and any further suggestions • Interpretation of ordered investigation to the relevant case **c. Differential Diagnosis, Provisional Diagnosis, and Final diagnosis. – 10 Marks** Differential diagnosis and diagnosis (Vyavachedaka nidana and vyadhi vinischaya) should include the following: • Group of suspicious diseases based on your knowledge on Ayurveda and contemporary science against your observation on patient • Justification for inclusion and exclusion of diseases based on pratyatma lakshana • Arriving at a final diagnosis based on the clinical acumen • Drafting the samprapti ghataka (Involvement of dosha, dushya, indriya, manas, agni, koshta, srotas, srotodushti prakara, udbhava sthana, sanchara sthana vyakta sthana, rogamarga, upadrava, arishta, sadhyasadhyata)	
3	**Demonstration: Clinical examination on the simulator or a patient or Simulated patient (SP) (1 Demonstratio**n **X 30 Marks = 30 Marks**): The student will be given a specific case or a scenario (other than the case given for long case taking) and asked to perform the examination of a particular system as a whole or a part of the examination such as inspection or palpation or percussion or auscultation or any specific tests or group of tests or elicit any particular sign for any of the following system (Only steps of examination to be written with observation and interpretation after demonstration): • Respiratory system examination • Cardiovascular System examination • Oral cavity and per abdominal examination • Nervous system examination • Locomotor system examination • Integumentary system examination	30
4	**Viva mark distribution and basic instructions** **Conceptual and theoretical questions:** **MK:**	70

Pareeksha, Dosha Vikr iti, Dhatu and Sroto vaigunya, Ama, Nidana Panchaka, Kriyakala, Vyadhi, Vyadhikshamatwa, Dhatu Paka etc. Annavaha, Pureeshavaha, Pranavaha, Mutravaha, Rasavaha, Raktavaha, Medovaha, Vatavyadhi, Snayugata, Sandhigata vikara etc. **(20 Marks)**

DK:

Rogi and Roga Bala pareeksha, Doshagata and Rogamarga, Nidanarthakara roga, Vyadhi namakarana, Sadyasadyata, Upadrava etc. Common GIT diseases, Common Urinary diseases, Common lung disorders, Fever, Hematopoietic diseases, Cardiovascular disorders, Hepato-biliary disorders, Skin diseases, Thyroid disorders, Obesity, Metabolic diseases, Common neurologic and spine disorders, Diseases of bone, joints, and muscles, Immunological & Metabolic disorders, Common parasitic disorders, Tuberculosis etc. **(10 Marks)**

Link to existing literature and critical thinking:

MK:

Pareeksha, Dosha Vikr iti, Dhatu and Sroto vaigunya, Ama, Nidana Panchaka, Kriyakala, Vyadhi, Vyadhikshamatwa, Dhatu Paka etc.Annavaha, Pureeshavaha, Pranavaha, Mutravaha, Rasavaha, Raktavaha, Medovaha, Vatavyadhi, Snayugata, Sandhigata vikara etc. **(20 Marks)**

DK:

Rogi and Roga Bala pareeksha, Doshagata and Rogamarga, Nidanarthakara roga, Vyadhi namakarana, Sadyasadyata, Upadrava etc. **(10 Marks)**

Viva on activity book:

Questions to be asked as per the heads provided in the activity book (10 Marks)

Basic instructions:

Number of questions: There must be a total minimum of 10 questions and a maximum of 15 questions from both examiners.

1. The questions asked during a viva should be relevant, thought-provoking, and designed to assess the candidate's understanding, knowledge, and critical thinking skills.

2. Breadth and depth: The questions should cover a wide range of topics related to both the papers as well as activity and practical with equal importance, ensuring that they have a comprehensive understanding, critical thinking, and analysis.

3. Open-ended: Questions should be open-ended rather than requiring simple yes/no answers. This allows the candidate to demonstrate their understanding and ability to provide detailed explanations and justifications.

	4. Conceptual and theoretical: Some questions should focus on the candidate's understanding of key concepts, theories, and methodologies within their syllabus. This helps evaluate their grasp of foundational knowledge and their ability to apply it. 5. Critical thinking: The questions should encourage the candidate to think critically, analyze the subject, and findings, and identify limitations or alternative perspectives. 6. Link to existing literature: Some questions can explore the candidate's knowledge and understanding of relevant literature in contemporary science. 7. Follow-up questions: It can be effective to ask follow-up questions to probe deeper into the candidate's responses. This helps assess their ability to defend, respond to challenges, and think on their feet. 8. Avoid leading questions: It is important to avoid leading questions that provide the candidate with clues or guide them towards a specific answer. The goal is to assess their independent thinking and understanding. 9. Balance: The questions should strike a balance between being challenging and fair. It should push the candidate's limits without being excessively difficult or intimidating. 10. No questions will be asked from Nice to know category. However, 70% of the questions are to be asked from Must Know category and 30% from the Desirable to Know category by the examiner.	
5	Internal assessments	30
Total Marks		**200**

References Books/ Resources

S.No	Book	Resources
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2	2. Charaka Samhita	Agnivesh, Charaka, Dridhbala . Reprint. Varanasi: Chowkhamba Sanskrit Series Office; 2009. Charaka Samhita
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4	4. Ashtanga Hrudaya	Sadashiva HS, editor. 1st ed. Varanasi: Chaukhambha Sanskrit Sansthan; 2011. Astanga Hrudaya of Vagbhata
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9	9. Textbook of Pathology with Pathology Quick Review and MCQs	2018; Jaypee Brothers Medical Publishers; Harsh Mohan
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11	11. Robbins & Cotran Pathologic Basis of Disease	10th Edition - May 11, 2020; Kumar, Abbas, Aster; Elsevier publishers
12	12. Davidson's Principles and Practice of Medicine	24th Edition 2022 by Ian Penman (Editor), Stuart H. Ralston (Editor), Mark Strachan (Editor), Richard Hobson (Editor); Elsevier publishers
13	13. A textbook of pathology	N.C Dey & T. K Dey; NCBA publisher 2009
14	14. Boyds Textbook of Pathology	10th Edition by J R Bhardwaj, Prabal Deb (Author), Wolters Kluwer India (Publisher)
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17	17. Macleod's Clinical Examination	13th Edition, 2013 by J. Alastair Innes, Anna R. Dover, Karen Fairhurst
18	18. Clinical Methods in Medicine : Clinical Skills and Practices	2015; Jaypee Brothers Medical Publishers; S. N. Chugh, Eshan Gupta

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21	21. Bates' Guide to Physical Examination and History Taking	Lippincott Williams & Wilkins; 2016 by M.D. Bickley, Lynn S. (Author), M.D. Szilagyi, Peter G. (Author), M.D. Hoffman, Richard M. (Editor)
22	22. French's Index of Differential Diagnosis An A-Z 1	2016; CRC Press; by Mark T. Kinirons (Editor)
23	23. Savills System Of Clinical Medicine	14th Edition 2005; CBS Publishers; by E C Warner (Author)
24	24. Todd-Sanford-Davidsohn clinical diagnosis and management by laboratory methods	2016; Saunders publishers; by Campbell James Todd (Author)
25	25. Clinical Methods In Ayurveda	2013; Chaukhamba Orientalia; by Prof. K.R. Srikantha Murthy (Author)
26	26. Clinical Diagnosis in Ayurveda (A Practical book of Ayurvedic Diagnosis in the Light of Modern Medical Science)	2015; Chaukhamba Sanskrit Pratishthan; by M. Srinivasulu (Author)
27	27. Medical Laboratory Technology	2009; Jaypee Brothers Medical Publishers; by Ramnik Sood (Author)
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29	29. Practical biochemistry for medical, dental and allied courses	3rd Edition; by Bd Toora G Rajagopal (Author)
30	30. Essential of clinical pathology	2010; First edition; Jaypee Brothers Medical Publishers; by Shirish M Kawthalkar (Author)
31	31. Textbook of human parasitology protozoology and helminthology	2020; CBS Publishers by Sood R. (Author)
32	32. Clinical Pathology & Clinical Bacteriology (For Medical Students and Practitioners)	Jaypee Brothers Medical Publishers; 9th Edition; 2000 by Sachdev (Author)
33	33. Practical Pathology	Arya Publications; by K. Uma Chaturvedi (Author), Tejindar Singh (Author)
34	34. Text book on clinical biochemistry and hematology	Naveen Chandra, Anmol Publisher ; First edition, 2015

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38	38. Learning Radiology: Recognizing the Basics	2015; Saunders publishers; by William Herring MD FACR (Author)
39	39. Radiology in Medical Practice	2015; Elsevier India; by A B M Abdullah (Author
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42	42. Essentials Of ECG	2017; Avichal Publishing Company; by Vipin Gupta (Author)
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Abbreviations

Assessment

S.No	Short form	Discription
1	T-EMI	Theory extended matching item
2	T- EW	Theory Essay writing
3	T- MEQs	Theory MEQs
4	T-CRQs	Theory CRQs
5	T-CS	Theory case study
6	T-OBT	Theory open book test
7	P-VIVA	Practical Viva
8	P-REC	Practical Recitation
9	P-EXAM	Practical exam
10	PRN	Presentation
11	P-PRF	Practical Performance
12	P-SUR	Practical Survey
13	P-EN	Practical enact
14	P-RP	Practical Role play
15	P-MOD	Practical Model
16	P-POS	Practical Poster
17	P-CASE	Practical Case taking
18	P-ID	Practical identification
19	P-PS	Practical Problem solving
20	QZ	Quiz
21	PUZ	Puzzles
22	CL-PR	Class Presentation,
23	DEB	Debate
24	WP	Word puzzle
25	O-QZ	Online quiz

26	O-GAME	Online game-based assessment
27	M-MOD	Making of Model
28	M-CHT	Making of Charts
29	M-POS	Making of Posters
30	C-INT	Conducting interview
31	INT	Interactions
32	CR-RED	Critical reading papers
33	CR-W	Creativity Writing
34	C-VC	Clinical video cases,
35	SP	Simulated patients
36	PM	Patient management problems
37	CHK	Checklists
38	OSCE	OSCE
39	OSPE	OSPE,
40	Mini-CEX	Mini-CEX
41	DOPS	DOPS
42	CWS	CWS
43	RS	Rating scales
44	RK	Record keeping
45	COM	Compilations
46	Portfolios	Portfolios
47	Log book	Log book
48	TR	Trainers report
49	SA	Self-assessment
50	PA	Peer assessment
51	360D	360-degree evaluation
52	TT-Theory	Theory
53	PP-Practical	Practical
54	VV-Viva	Viva

Domain

S.No	Short form	Discription
1	CK	Cognitive/Knowledge
2	CC	Cognitive/Comprehension
3	CAP	Cognitive/Application
4	CAN	Cognitive/Analysis
5	CS	Cognitive/Synthesis
6	CE	Cognitive/Evaluation
7	PSY-SET	Psychomotor/Set
8	PSY-GUD	Psychomotor/Guided response
9	PSY-MEC	Psychomotor/Mechanism
10	PSY-ADT	Psychomotor Adaptation
11	PSY-ORG	Psychomotor/Origination
12	AFT-REC	Affective/ Receiving
13	AFT-RES	Affective/Responding
14	AFT-VAL	Affective/Valuing
15	AFT-SET	Affective/Organization
16	AFT-CHR	Affective/ characterization

T L method

S.No	Short form	Discription
1	L	Lecture
2	L&PPT	Lecture with Power point presentation
3	L&GD	Lecture & Group Discussion
4	L_VC	Lecture with Video clips
5	DIS	Discussions
6	BS	Brainstorming
7	IBL	Inquiry-Based Learning
8	PBL	PBL
9	CBL	CBL
10	PrBL	Project-Based Learning
11	TBL	TBL
12	TPW	Team project work
13	FC	Flipped classroom
14	BL	Blended Learning
15	EDU	Edutainment
16	ML	Mobile learning
17	ECE	ECE
18	SIM	Simulation
19	RP	Role plays
20	SDL	Self-directed learning
21	PSM	Problem solving method
22	KL	Kinesthetic Learning
23	W	Workshops
24	GBL	Game-Based Learning
25	D-M	Demo on Model

26	LS	Library Session
27	PL	Peer learning
28	RLE	Real life experience
29	REC	Recitation
30	SY	Symposium
31	TUT	Tutorial
32	PER	Presentations
33	PT	Practical
34	XRay	X ray identification
35	CD	Case diagnosis
36	LRI	Lab report interpretation
37	DA	Drug analysis
38	D	Demonstration
39	D_BED	Demonstration bedside
40	D_L	Demonstration Lab
41	DG	Demonstration Garden
42	FV	Field visit
43	PRA	Practical