COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



RACHANA SHARIRA (SUBJECT CODE- AyUG-RS) HUMAN ANATOMY

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



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



NCISM

I Professional Ayurvedacharya (BAMS)

Subject Code: AyUG-RS

Rachana Sharir

(Human Anatomy)

Summary

AyUG-RS Total number of Teaching hours: 500									
Lecture hours (LH) - Theory		100 11							
Paper I	90 Hours	180 Hours	180 Hours						
Paper II	90 Hours		(LH)						
Non-Lecture hours (NLH) – Theory									
Paper I	40 Hours	80 Hours	320 Hours						
Paper II	40 Hours	1	(NLH)						
Non-Lecture hours (NLH) - Practical		240 Hours							

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

Preamble

The primary purpose for teaching Rachana sharir to undergraduate students is to provide a thorough understanding of the basic principles of Sharir. Gross and microscopic structure and development of the human body in perspective of ancient and modern sciences, as well as to acquire necessary skills. Sharir in Ayurveda also provides in depth views to concepts like Marma and srotas. Learning of Sharir is most useful in further years in diagnosis and management of the diseases.

Various teaching and learning methods, including didactic, demonstration, tutorial, group discussion, seminars, Integrated Teaching (IT), Problem Based Learning (PBL), and Early Clinical Exposure (ECE), Case-Based Learning (CBL), Virtual Dissection, and cadaveric dissection, are used to transfer knowledge to students, and the syllabus is constructed accordingly. As a result, the students appreciate being a part of the teaching and learning process. This will help the students to become competent, self-assured, caring, and concerned humans capable of providing ethical medical treatment.

Index

Course Code and Name of Course	5
AyUG RS	5
Rachana Sharir (Human Anatomy)	5
Table 1- Course learning outcomes and matched PO.	5
Table 2: Contents of Course AyUG-RS	6
Paper I	6
Paper II AyUG-RS	8
Table 3: Learning objectives (Theory) of Course AyUG-RS	
Paper I	
Paper II	
List of Practicals AyUG-RS	
Table 4: Learning objectives (Practical) of AyUG- RS	
Table 5: Non-Lecture Activities Course AyUG-RS	
Table 6: Assessment Summary	
6 A - Number of Papers and Marks Distribution	
6 B - Scheme of Assessment (formative and Summative) AyUG-RS	
6 C - Calculation Method for Internal assessment Marks (30 Marks) AyUG-RS	41
6 D - Evaluation Methods for Periodical Assessment	41
6 E - Paper Layout	
PAPER-1	
PAPER-1I	
6 F – I - Distribution of Theory exam AyUG- RS	
Paper I	
Paper II	
6 F – II - Theme table	
Paper-I:	44
Paper-II	
6 G Question paper Blue print for AyU-RS:	45
PAPER-I	
PAPER-II	
6 H - I - Distribution of Practical Exam	47
6 H - II Practical Spot examination	47
6 H - III Viva Voce	
7. Reference and Resourses	

Course Code and Name of Course

Course code	Name of Course
AyUG RS	Rachana Sharir (Human Anatomy)

AyUG RS

Table 1- Course learning outcomes and matched PO.

SR1	A1	B1
СО	Course learning Outcome (CO) AyUG RS	Course learning
No	At the end of the course AyUG RS, the student should be able	Outcome matched with
	to-	program learning
		outcomes.
CO1	Describe the fundamentals of Rachana Sharir, interpret and analyze it in relevant context and recognize its significance in Ayurveda	PO1, PO2
CO 2	Explain Garbha Sharir and Embryology in Ayurveda and modern science respectively with clinical significance	PO1, PO2
CO 3	Describe and demonstrate all the bones and joints with attachments of associated structures and its clinical application	PO1, PO2
CO 4	Explain the concept of Sira-Dhamani-Strotas, their organization in the human body and its applied aspect	PO1, PO2
CO 5	Identify the Marmas and understand its classification along with its importance in preventive and therapeutic aspect	PO1, PO2
CO 6	Explain and demonstrate the gross anatomy of the organs of various systems and their applied anatomy in perspective of Ayurveda and Modern science	PO1, PO2, PO3
CO 7	Explain the Indriva Sharir and Sensory organs with its application in preventive and therapeutic domain.	PO1, PO2
CO 8	Identify and locate all the structures of body and mark the topography of the living Sharir.	PO1, PO3
CO 9	Respect the cadaver and perform dissection with commitment to reiterate the theoretical aspect of Ayurved Rachana Sharir and contemporary sciences.	PO1, PO3, PO5
CO 10	Describe the basic principles of imaging technologies and identify the anatomical structures in the radiograph	PO1, PO2, PO3

Table 2: Contents of Course AyUG-RS

Pap	er I				
SN	A2 List of Topics AyUG-RS	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1	 Shariropkramaniya Shaarira Sharir and Shaarir vyakhya (definitions of sharira and sharira) Shadangatvam (Six regions of the body) Anga Pratyanga vibhaga (subdivisions) Sharir shastra vibhag Sharir gyan prayojan and its description in contemporary science with its clinical importance 	I	6	4	2
2	 Paribhasha Shaarira Kurcha, Kandara, Jala, Asthisamghata, Seemnta, Seevani, Rajju, and lasika Terminologies related shadang sharir 	Ι	4	3	1
3.	 Garbha Shaarira Garbha Vyakhya (Definition of Garbha) Concept of Shukra and Artava Garbhavkranti. Masanumasik grabhavruddhi Role of panchamahabhoot in Garbhavruddhi Concept of Beeja, Beejabhaga, Beejabhagavayava Garbhposhana Apara nirmiti, Garbhanabhinadi Garbha Angapratyanga utpatti according to different Acharya Garbha Vikruti 	I	15	17	5
4.	Asthi Shaarira Enumeration of Asthi, Types, asthi swaroopa, with its applied aspect	Ι	4	2	1
5.	 Sandhi Shaarira Description of Sandhi and its enumeration, Types of Sandhi with its clinical importance Introduction of diseases of Sandhi explained in Ayurveda 	п	4	2	3
6.	Snayu sharir Concept of Snayu and its clinical importance	II	3	2	1
7.	 Peshi Shaarira Description of Peshi, Utpatti, types, Swaroop, function with its importance 	II	3	2	1
8.	 Kesha, Danta, Nakha Sharir Description of Panchbhautik swaroop and its applied value Explanation of its swabhava (Pitruja) and its applied value Description of Prakrita (normal) and Vikruta(abnormal) Swaroop (appearance) of kesha, danta, nakha in concern with disease Importance of examination of kesha, danta, nakha 	п	4	2	1

	as diagnostic tool				
9	Embryology				
	 Definitions and branches of embryology. Embryo and Fetus. Sperm and Ovum, Fertilization, Cleavage. Germ layers formation and their derivatives. Laws of heredity, Sex determination and differentiation, Month-wise development of embryo. Fetal circulation, Placenta formation, Umbilical 	Ι	5	7	2
10	cord formation				
10	 Osteology Bone: structure, types and ossification. Description of each bone with clinical anatomy 	Ι	12	9	6
11	Arthrology				
	 Joints: structure, types and movements. Description of joints of extremities, inter-vertebral joints and temporomandibular joint with their clinical anatomy. 	п	10	10	6
12	Myology				
	 Structure and types of muscles. Description of important muscles: origin, insertion, actions, nerve supply and clinical anatomy. Muscle movements in Yogasana 	Π	4	6	2
13	Nervous System				
13	 Nervous system Nervous system: Introduction and classification Meninges Description of Brain and Spinal cord. Description of Peripheral Nervous System: Cranial and Spinal nerves, Brachial, Cervical, Lumber and Sacral nerve plexus, Anatomical consideration of Autonomic Nervous System, Formation and circulation of cerebrospinal fluid Blood supply of Brain and Spinal cord. 	III	14	14	4
14	Endocrinology				
	 Description of endocrine glands (Pituitary, Thyroid, Parathyroid, Thymus, Pineal and Suprarenal glands) with clinical aspects. Histology of all glands. 	III	8	8	3
15	Lymphatic system				
	 Introduction Structure included in lymphatic system: Lymph vessels, Lymph nodes, Lymph glands with their clinical importance. 	III	4	2	2

SN	er II AyUG-RS A2 List of Topics AyUG-RS	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1	Pramana Sharira: Anguli pramana & Anjali praman with its applied importance	п	2	2	1
2	 Koshtha Evam Ashaya Sharira Definition of Kostha with its applied importance and Enumeration of Koshthanga and its description Concept of Ashaya with its clinical importance 	Ι	4	2	1
3.	 Sira Sharir Concept of Sira Nirukti, types, enumeration of Sira and its applied aspect Introduction to Sira vedha 	п	4	3	1
4.	 Dhamani Sharir Concept of Dhamani Nirukti, types, enumeration of Dhamani and its applied aspect 	п	2	2	1
5.	 Strotas Shaarira Concept of Strotas Nirukti, types, number of Srotas, Strotomool and its applied aspect Types of Strotas and its description. Applied aspect of Strotas 	п	7	8	3
6.	 Kala Shaarira Definition and etymology of Kala Enumeration and description of Kala Applied aspect of Kala 	III	4	2	2
7.	 Indriya Shaarira Definition of Indriya, Indriya artha and Indriya adhisthan, Number and importance of Indriya Description of Gyanendriya, Karmendriya and Ubhayendriya (Manas). Ayurved sharir of Indriya adhistan- Karna, Twacha, Netra, Jivha, Nasa Applied aspect of Indriya 	III	3	3	1
8.	Twacha Sharir Definition, types and characteristics of Twacha with its clinical importance, significance of Twacha adhisthana in disease manifestation, its relation with Dhatu.	III	3	2	2
9	 Marma Sharira Marma: definition, enumeration, classification, location Surface demarcation of Marma Explanation of Trimarma 	п	15	13	4

	• Detail description of Marma with its applied				
	importance.				
10	Respiratory System				
	• Bronchial tree and Lungs with their clinical				
	aspects.				
	• Respiratory tract: Nasal cavity, Pharynx, Larynx,	п	10	6	4
	Trachea		10	0	
	• Pleura with its clinical aspects				
	• Diaphragm and its opening				
	Histology of all organs				
11	Digestive system				
	• Regions of abdomen				
	• Organs of digestive tract (alimentary tract) with				
	their clinical aspects.	Ι	12	10	6
	• Digestive glands: Liver, Spleen and Pancreas.				
	• Description of peritoneum with its clinical aspects				
	• Histology of all organs				
12	Cardiovascular system				
	Description of Heart				
	• Structure of artery & vein				
	• Importance blood vessels with their course and	II	8	8	3
	branches.				
	• Pericardium with applied aspect				
	Histology of Heart				
13	Urinary System				
	Urinary tract: Kidney, Ureter, Urinary		10	0	2
	Bladder and Urethra with their clinical	II	10	8	3
	aspects				
1.4	Histology of all organs				
14	Reproductive system				
	• Male Reproductive system: Reproductive				
	organs, Scrotum and glands (Testis, Prostate and Seminal vesicles) with their clinical				
	aspects.		_	_	
	 Female reproductive system: Introduction of 	III	6	7	3
	external genital organ in brief and internal				
	reproductive organs in detail, tract and glands				
	with clinical importance.				
	Histology of all organs				
15	Sensory organs				
	Description of structures of Eye, Ear, Nose, Tongue	III	10	14	5
	and Skin with their clinical aspects.				

Table 3: Learning objectives (Theory) of Course AyUG-RS

Paper I	RACHANA SHARIR –								
A3 Course outcom e	B3 Learning Objective (At the end of the session, the students should be able to)	Domain/ sub	D3 Must to know/ desirable to know/Ni ce to know	E3 Level Does/ Shows how/ Knows how/ Know	F3 T-L method	G3 Assessment	H3 Formati ve /summa tive	I3 Te rm	J3 Integrat ion
Topic 1-	Shariroupkramaniya [Time:	Lecture: 04 ho	ours, non-le	cture 02 hours] Practical- 02 hours				
CO1	Define Sharir.	Cognitive / Recall	МК	Knows	Lecture	Written / viva-voce/ Open book test	F&S	I	
CO1	Describe the constitutional elements of Sharir	Cognitive/ Comprehense on	i MK	Knows	Lecture	Written/ viva-voce	F&S	Ι	
CO1	Analyze the Constitutional hierarchy of Sharir and its relevance	Cognitive/ analyze	DK	Knows how	Lecture/ GD	Written / viva-voce	F&S	I	
CO1	Enlist Anga -Pratyanga and specific terms for each Pratyanga	Cognitive/ Recall	МК	Knows	Lecture/ GD	Written/ viva-voce	F&S	Ι	
CO1	Describe the Importance of Pratyaksha (Demonstration & Dissection) method of learning Sharir	Cognitive - comprehensi on	MK	Knows how	Lecture/ demonstration/ TT/ GD	Written / viva-voce	F&S	I	
CO1	Explain the Mruta Samshodhana as mentioned	Cognitive / Comprehension	i MK	Knows	Demonstration/ simulation/	Written / viva-voce	F&S	Ι	

	in Sushruta Samhita and as per the modern science.	Psychomotor							
CO1	Appraise the concept of body donation and its relevance in present scenario	Cognitive - analysis, Affective	NK	Knows	Lecture/ educational video/ SDL	Written / viva-voce	F&S	Ι	
Topic 2	2- Paribhasha Sharir [Time: Le	cture: 03 hours,	non-lectu	ure 01 hours] Pr	actical- 6 hours				
CO1	Explain the terms Kandara, Kurcha, Mamsa, Rajju, Sevani, Jala, Seemant, Asthi Sanghat in context to its enumeration, site and structure.	Cognitive / comprehensi on	МК	Knows	Lecture/ Demonstration	Written/ viva-voce/ Open book test	F&S	Ι	
CO1	Evaluate the clinical importance of Kandara, Kurcha, Mamsa, Rajju, Sevani, Jala Seemant, Asthi and Samghat	Cognitive/ Application	DK	Knows how	Lecture/ Demonstration/ SDL	Written/ viva-voce	S	Ι	
Topic 3	3- Garbha Sharir [Time: Lectur	e: 17 hours, non-	-lecture ()5 hours]					
CO 2	Define Garbha and recall the related verse from samhitas.	Cognitive / knowledge	MK	Knows	Lecture/ Recitation	Written/ viva-voce	F & S	Ι	-
CO 2	Explain the concept of Shukra and recall the related verse from samhitas.	Cognitive / comprehensi on	МК	Knows	Lecture/ Recitation	Written/ viva-voce	F & S	Ι	-
CO 2	Explain the concept of Artava and recall the related verse from samhitas.	Cognitive / comprehensi on	MK	Knows	Lecture/ recitation	Written/ viva-voce	F & S	Ι	-
CO 2	Describe the role of tridosha and panchamahabhuta in the fetal development	Cognitive / comprehensi on	МК	Knows how	Lecture/ IT	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra
CO 2	Explain the concept of Beeja, Beejbhaag, Beejabhagavayava	Cognitive / Comprehensi on	МК	Knows	Lecture/ GD/ TT	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra

CO 2	Describe Masanumasik Garbha vriddhi kram and recall the related verse from samhitas.	Cognitive / comprehensi on	МК	Knows how	Lecture/ Recitation/ demonstration with 3D animated video	Written/ viva-voce/ Open book test	F & S	Ι	-
CO 2	Describe Garbhaposhana	Cognitive / comprehensi on	МК	Knows how	Lecture	Written/ viva-voce/ Open book test	F & S	Ι	-
CO 2	Describe the formation of Apara according to Ayurved	Cognitive / knowledge	МК	Knows, Knows how	Lecture/ demonstration with 3D animated video	Written/ viva-voce/ Open book test	F & S	Ι	-
CO 2	Describe Garbha nabhinadi	Cognitive / knowledge	MK	Knows	Lecture	Written/ viva-voce	F & S	Ι	-
CO 2	Explain Angapratyanga utpatti with the related verse from samhitas.	Cognitive / comprehensi on	МК	Knows how	Lecture/ demonstration with 3D animated video/	Written/ viva-voce/ Assignments/ Open book test	F & S	Ι	Dept. of Streerog Prasuti tantra
Topic 4	- Asthi Shaarira [Time: Lecture	e: 02 hours, non-	lecture 0	1 hours]					
CO1	Enlist the number of Asthi according to different Acharyas	Cognitive/ Recall	МК	Knows how	Lecture	Written / viva-voce/ Open book test	F & S	Ι	
CO1	Describe the Asthi Sanghata and Asthi Simanta	Cognitive/ comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
Topic 5	- Sandhi Sharir [Time: Lecture	02 hours, non-	lecture 03	hours]					
CO 3	Define the term Sandhi	Cognitive – Recall	MK	Knows	Lecture	Written/ viva-voce	F&S	II	
CO 3	Classify Sandhi into different types.	Cognitive – Recall	МК	Knows	Lecture	Written/ viva-voce/ project work	F&S	II	
CO 3	Demonstrate the movements of Chala Sandhi and	Cognitive – Application	MK	shows	Lecture +	Written/ viva-voce	F&S	II	

	comprehend the structural appearance	Psychomotor			Demonstration thorugh model/ simulation				
CO 3	Illustrate the applied aspect of Sandhi and introduction of diseases of Sandhi explained in Ayurveda	Cognitive - Application	DK	Knows how	Lecture/ ECE/ SDL/ Seminar	Written/ viva-voce/ Assignment	F&S	II	Kayachi kitsa
Topic 6	5- Snayu Sharir [Time: Lecture:	02 hours, non-le	ecture 01	hours]					
CO 6	Describe Snayu with respect to its definition, structure, types, number, importance with its clinical importance	Cognitive/ comprehensi on	МК	Knows how	Lecture with demonstration/ SDL/Seminar	Written/ Viva -voce/ Open book test	F&S	II	
Topic 7	7- Peshi Sharir [Time: Lecture: (02 hours, non-lea	cture 01 h	ours]					
CO 5	Describe Peshi Sharir and its classification as per Ayurveda	Cognitive – comprehensi on	МК	Knows	Lecture/ Demonstration/ SDL/ Seminar	Written/ Viva-voce/ Open book test	F&S	II	
Topic 8	- B- Kesha, Danta, Nakha Sharir	[Time: Lecture:	02 hours,	, non-lecture 01	hours]				·
CO 6	Describe Panchabhautik Swaroop, Swabhav (Pitruja) with its applied value in Prakriti and also explain related diseases with importance of examination kesha, danta, nakha as diagnostic tool	Cognitive/ comprehensi on	МК	Knows how	Lecture with demonstration with 3D animated video/ SDL	Written/ Viva -voce/ Open book test/ Assignment	F&S	II	
Topic 9	- Embryology [Time: Lecture: (7 hours, non-lec	cture 02 h	ours]					
CO 2	Define embryology and enlist its branches	Cognitive / knowledge / recall	DK	Knows	Lecture	Written/ viva-voce	F & S	Ι	
CO 2	Define Embryo and Foetus	Cognitive / knowledge / recall	MK	Knows	Lecture	Written/ viva-voce	F & S	Ι	

CO 2	Describe the anatomical structure of Sperm and Ovum and explain its clinical importance	Cognitive / comprehensi on	МК	Knows how	Lecture/ Demonstration	Written/ viva-voce/ Assignment	F & S	Ι	
CO 2	Define term of fertilization	Cognitive / knowledge / recall	МК	Knows	Lecture/ Seminar	Written/ viva-voce	F & S	Ι	
CO 2	Describe the process of cleavage	Cognitive / comprehensi on	МК	Knows how	Lecture/ Educational 3D Animated videos	Written/ viva-voce	F & S	Ι	
CO 2	Explain the process of germ layer formation and its derivatives	Cognitive / comprehensi on	МК	Knows how	Lecture/ Educational 3D Animated videos	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra
CO 2	Explain the laws of heredity	Cognitive / comprehensi on	МК	Knows how	Lecture/ Seminar	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra
CO 2	Describe the process of sex determination and differentiation	Cognitive / comprehensi on	NK	Knows how	Lecture/ Seminar	Written/ viva-voce	F & S	Ι	
CO 2	Explain the month wise development of Foetus	Cognitive / comprehensi on	МК	Knows how	Lecture/ Demonstration	Written/ viva-voce/ Open book test/ Project work	F & S	Ι	Dept. of Streerog Prasuti tar
CO 2	Explain foetal circulation and the changes in the circulation after birth	Cognitive / comprehensi on	МК	Knows how	Lecture/Demonstrat ion	Written/ viva-voce	F & S	Ι	
CO 2	Describe Placenta formation & its structure with applied anatomy	Cognitive / application	МК	Knows how	Lecture/ Seminar/ ECE	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra
CO 2	Describe Umbilical cord with clinical importance	Cognitive / knowledge / application	МК	Knows how	Lecture/ Seminar/ ECE	Written/ viva-voce	F & S	Ι	Dept. of Streerog Prasuti tantra

Topic 1	0- Osteology [Time: Lecture: 09	hours, non-lect	ure 06 ho	ours] Practical-	20 hours				
CO3	Explain skeleton and its importance	Cognitive/ comprehensi on	МК	knows	Lecture/ Demonstration/ Seminar	Written / viva-voce	F & S	Ι	
CO3	Describe the uses of bones	Cognitive/ comprehensi on	МК	Knows	Lecture	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate the processes and depressions of various bones	Cognitive/ comprehensi on, Application	МК	Show how	Lecture / Demonstration	Written / viva-voce	F & S	Ι	
CO3	Describe the characteristics of the bones	Cognitive/ comprehensi on	МК	Knows	Lecture	Written / viva-voce	F & S	Ι	
CO3	Describe the development and ossification of bones	Cognitive/ comprehensi on	DK	Knows how	Lecture	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate Cranial bones and its applied anatomy	Cognitive / comprehensi on, Application	МК	Shows how	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate Facial bones and its applied anatomy	Cognitive / comprehensi on, Application	DK	Shows how	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate pelvic bones and its applied anatomy	Cognitive / comprehensi on, Application	МК	Shows how	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate vertebral column and its applied anatomy	Cognitive / comprehensi on, Application	МК	Shows	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
CO3	Describe and demonstrate thorax bones and its applied anatomy	Cognitive / comprehensi	МК	Shows how	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	

		on, Application							
CO3	Describe & demonstrate Clavicle and Scapula and its applied anatomy	Cognitive / comprehensi on, Application	МК	Shows how	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	Kayachi kitsa
CO3	Describe Phalanges, Carpal and Tarsal Bones and its applied anatomy	Cognitive / comprehensi on	DK	Knows	Lecture/ Demonstration	Written/ viva-voce	F & S	Ι	
CO3	Describe & demonstrate bones of the upper & lower extremity and its applied anatomy	Cognitive / comprehensi on, Application	МК	Shows how	Lecture/ Demonstration	Written / viva-voce/ Project work	F & S	Ι	
CO3	Describe & demonstrate Patella and its applied anatomy	Cognitive / comprehensi on, Application	DK	Shows	Lecture/ Demonstration	Written / viva-voce	F & S	Ι	
CO10	Recognize and describe the Radiological structures in radiograph	Cognitive / comprehensi on, Application	МК	Shows	Lecture/ Demonstration/ PBL/ ECE/ SDL	Written / viva-voce/ Project work/ Assignment	F & S	Ι	
Topic 1	1- Arthrology [Time: Lecture:	10 hours, non-le	cture 06 l	nours] Practical	- 8 hours	·			
CO 3	Recall the classification of Joints	Cognitive – Recall	MK	Knows	Lecture	Written/ viva-voce	F&S	II	
CO 3	Demonstrate movements of Synovial Joints and comprehend the structural aspect helping in movements.	Cognitive – Application Psychomotor	МК	Knows how	Lecture/ Demonstration/ Simulation	Written/ viva-voce	F&S	II	
CO 3	Describe constitutional anatomy of joint	Cognitive – Comprehensi on	МК	Knows	Lecture	Written/ viva-voce	F&S	II	
CO 3	Describe joints of upper limb and lower limb region, TM joint, and its related applied aspect	Cognitive – Application	МК	Knows how	Lecture/ PBL/ ECE	Written/ viva-voce/ Open book test/ Assignment	F&S	II	Kaychikit sa

CO 3	Demonstrate the examination of synovial joints	Psychomotor	МК	Knows + Shows	Demonstration with case presentation in relative aspect/ ECE/ SDL/ 3D Animated videos	Written/ viva-voce/ Practical performance	F&S	II	Rognidan
Topic 1	2- Myology [Time: Lecture: 06	hours, non-lect	ure 02 ho	urs] Practical-	8 hours				
CO5	State the types of muscles.	Cognitive – application Psychomotor	МК	Knows	Lecture	Written/ Viva-voce	F & S	II	
CO5	Describe and demonstrate the muscles of upper and lower extremity with their origin, insertion, action & nerve supply and applied aspect and its role in Yogasana	Cognitive – application	MK	Shows	Lecture/ Demonstration/ GD/TT/ SDL/ 3D Animated videos	Written/ Viva-voce/ Open book test/ Project work	F & S	Π	Swasthvrit ta
CO5	Describe and demonstrate muscles of thorax and abdomen with their origin, insertion, action & nerve supply and applied aspect and its role in Yogasana	Psychomotor	МК	Shows	Lecture/ Demonstration/ GD/TT/ SDL/ 3D Animated videos	Written/ Viva-voce/ Open book test/ Project work	F & S	II	Swasthvrit ta
CO5	Describe and demonstrate muscles of back with origin, insertion, action & nerve supply and applied aspect and role in Yogasana	Cognitive – application	DK	Shows	Lecture/ Demonstration/ GD/TT/ SDL/3D Animated videos	Written/ Viva-voce/ Open book test/ Project work	F & S	Π	Swasthvri tta
Topic 1	3- Nervous System [Time: Lect	ure: 14 hours, no	on-lecture	04 hours] Pra	ctical- 12 hours				
CO6	Explain the hierarchy of structural unit	Cognitive-/ comprehensi on	MK	Knows	Lecture/ Demonstration	Written/ viva-voce	F&S	III	
CO6	Describe the functional and structural division of the nervous system	Cognitive- comprehensi on	МК	Knows how	Lecture/ Seminar	Written/ viva-voce	F&S	III	

CO6	Explain the parts of Brain (Cerebrum, Cerebellum)	Cognitive – comprehensi on	МК	Knows, Knows how	Lecture/ Demonstration	Written/ viva-voce/ Open book test	F&S	III	
CO6	Describe external and internal features of Spinal cord.	Cognitive – comprehensi on	МК	Knows, Knows how	Lecture/ Demonstration/ 3D animated videos	Written/ viva-voce/ Open book test	F&S	Ш	
CO6	Illustrate the Blood supply of Brain and Spinal cord.	Cognitive – comprehensi on	МК	Knows, Knows how	Lecture/ Demonstration/ 3D animated videos	Written/ viva-voce/ Open book test	F&S	III	
CO6	Describe the external features of diencephalon Mid brain, Pons, Medulla oblongata.	Cognitive- Comprehensi on	DK	Knows	Lecture/ Demonstration/ 3D animated videos	Written/ viva-voce/ Open book test	F&S	Ш	
CO6	Describe the limbic system	Cognitive- Comprehensi on	NK	Knows	Lecture/ Demonstration/ 3D animated videos	Written/ viva-voce/ Open book test	F&S	III	
CO6	Describe the general Sulci and gyri of cerebrum and determine the clinical importance of Broadman's classification	Cognitive – application	МК	Knows Knows how	Lecture/ Demonstration/ 3D animated videos	Written/ viva-voce/ Open book test	F&S	III	
CO6	Describe the ascending, descending pathways, upper motor neurons and lower motor neurons, its applied aspect in examination of nervous system	Cognitive/ application Affective /responding	DK	Knows how	Lecture/ Demonstration/ CBL, ECE	Written/ viva-voce/ Open book test	F&S	III	Kaya chikitsa
CO6	Demonstrate the superficial and deep reflexes and its clinical importance	Cognitive /application Psychomotor /perception Affective /responding	DK	shows	Lecture + Demonstration though living object/ ECE/ PBL/ SDL/ CBL	Viva-Voce/ Practical performance	F&S	III	Kayachi kitsa

CO6	Recall the general anatomical consideration of ANS	Cognitive/ Recall	МК	Knows	Lecture/ SDL	Written	F&S	III	
CO6	Describe the cranial and spinal nerves along with formation of nerve plexuses and applied anatomy	Cognitive / Application	DK	Knows how	Lecture/ PBL/ ECE/ SDL	Written / viva-voce/ Assignment	F &S	III	
CO6	Describe the Formation and circulation of cerebro- spinal fluid	Cognitive/ comprehensi on	MK	Knows how	Lecture	Written / viva-voce	F&S	III	
Topic 1	14- Endocrinology [Time: Lectur	re: 08 hours, nor	n-lecture (03 hours] Pract	ical- 02 hours				
CO 6	Define Endocrine Glands and enlist them	Cognitive/ Recall	MK	Knows	Lecture	Written / viva-voce	F & S	III	
CO 6	Describe Structure and Functions of Endocrine Glands	Cognitive-/ Comprehensi on	МК	Knows	Lecture	Written / viva-voce	F & S	III	
CO 6	State the location, Dimension & Shape of Pituitary	Cognitive/ Recall	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the Parts & subdivisions of Pituitary	Cognitive / comprehensi on	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Pituitary	Cognitive /comprehensi on	MK	Knows	Lecture/ Demonstration/ CBL	Written / viva-voce	F & S	III	
CO 6	Enlist the hormones secreted by Pituitary, & histology and discuss its clinical anatomy.	Cognitive/ Application	МК	Knows	Lecture/ Demonstration/ GD	Written / viva-voce/ Open book test	F & S	III	
CO 6	State the location, Dimension & Shape of Thyroid gland	Cognitive/Re call	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the lobes, border & surfaces of Thyroid gland with its relation.	Cognitive /comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the blood supply, nerve Supply & lymphatic drainage of Thyroid gland	Cognitive /comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	

CO 6	List the Hormones secreted by Thyroid gland and & histology, and discuss its clinical application	Cognitive - Application	МК	Knows	Lecture/ GD/ CBL	Written / viva-voce/ Open book test	F & S	III	
CO 6	Describe the location, Shape, Dimensions and structure of Parathyroid gland	Cognitive /comprehensi on	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Parathyroid gland	Cognitive /comprehensi on	DK	Knows	Lecture Demonstration	Written / viva-voce	F & S	III	
CO 6	List the hormones secreted by parathyroid, & histology and discuss its Clinical anatomy	Cognitive /Application	DK	Knows	Lecture/ GD/ CBL	Written / viva-voce/ Open book test	F & S	III	Kayachik itsa
CO 6	State the location, Shape & dimension of Suprarenal gland	Cognitive / Recall	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the Surface, Borders of Suprarenal gland along with its relation.	Cognitive/co mprehension	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	List the Functions and Secretions of Suprarenal gland	Cognitive /Recall	MK	Knows	Lecture	Written / viva-voce	F & S	III	Sharir Kriya
CO 6	Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Suprarenal gland	Cognitive /comprehensi on	DK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Describe the Internal structure of suprarenal gland	Cognitive /comprehensi on	DK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	III	
CO 6	Write the Clinical & applied anatomy & histology of Suprarenal gland	Cognitive /application	DK	Knows	Lecture/ CBL	Written / viva-voce/ Open book test	F & S	III	Kayachik itsa
Topic 7	7- Lymphatic System [Time: Le	cture: 02 hours,	non-lect	ure 02 hours]					L

CO 6	Define Lymphatic System	Cognitive / Recall	MK	Knows	Lecture	Written / viva-voce	F & S	III	
CO 6	Describe components of Lymphatic System	Cognitive / comprehensi on	MK	Knows	Lecture	Written / viva-voce	F & S	III	
CO 6	Describe the anatomical structure of Various Lymph Vessels i.e. Lymphatic Trunks, Thoracic Duct etc and explain its clinical importance	Cognitive / comprehensi on, Application	МК	Knows how	Lecture/ Demonstration/ CBL	Written / viva-voce	F & S	Ш	
CO 6	Describe the anatomical structure of Lymph Glands i.e. Lymph Nodes, Spleen, Thymus, Tonsils etc and explain its clinical importance	Cognitive / comprehensi on, Application	МК	Knows how	Lecture/ Demonstration/ ECE/ CBL	Written / viva-voce/ Open book test	F & S	III	Rognidan Evum Vikriti Vigyan
Paper	II								
Topic 1	I- Praman sharir [Time: Lectu	re: 02 hours, no	n-lecture	01 hours]					
CO1	Describe Anguli and Anjali praman with its significance.	Cognitive Comprehensi on	МК	Knows	Lecture/ Demonstration/ GD	Written/ Viva-voce/ Open book test	F & S	II	
Topic 2	2- Koshtha Evam Ashaya Shaa	rira [Time: Lect	ure: 02 ho	ours, non-lectur	re 01 hours]				
CO1	Define of Koshtha and Ashaya	Cognitive/ knowledge	МК	Knows	Lecture	Written/ viva-voce/ Open book test	F&S	Ι	
CO1	Describe the concept of various numbers of Koshthanga as per Samhitas	Cognitive/ Comprehensi ve	МК	Knows	Lecture	Written/ viva-voce/ Open book test	F&S	Ι	
CO1	Describe the concept of various Numbers of Ashaya as per Samhitas	Cognitive/ Comprehensi ve	МК	Knows	Lecture/ TT/ GD	Written/ viva-voce/	F&S	Ι	

						Open book test			
CO1	Describe and explain applied aspects of Koshtha and Ashaya.	Cognitive/ Comprehensi ve application	NK	Knows How	Lecture/ GD/ ECE	Written/ viva-voce/ Assignments/ Open book test	F&S	I	Kayacki tsa
Topic 3	- Sira sharir [Time: Lecture: 03	hours, non-lect	ure 01 ho	urs]					
CO 4	Define Sira, Enumerate the sira & state its Nirukti	Cognitive /Recall	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	II	
CO 4	Explain the classification of Sira	Cognitive / Comprehensi on	МК	Knows how	Lecture	Written / viva-voce/ Open book test	F & S	II	
CO 4	Define Vedhya Sira and Enumerate Vedhya Sira	Cognitive /Recall	МК	Knows	Lecture/ GD	viva-voce/ Open book test	F & S	II	
CO 4	Define Avedhya sira and Enumerate the Avedhya Sira	Cognitive / Recall	МК	Knows	Lecture	Written / viva-voce/ Open book test	F & S	Π	
CO 4	Locate the Vedhya Sira in the body according to region	Cognitive / application Psychomotor	МК	Shows	Lecture/ Demonstration/ IT	viva-voce/ Practical performance	F & S	II	Shalyatan tra
CO 4	Describe the applied aspect of Siravedha	Cognitive - application	DK	Knows how	Lecture/ ECE/ IT/ CBL	Written / viva-voce/ Assignment / Open book test	F & S	п	Shalyatan tra
Topic 4	- Dhamani Sharir [Time: Lectu	re: 02 hours, no	n-lecture	01 hours]					
CO 4	Define Dhamani, and state its Nirukti	Cognitive/ Recall	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	II	

CO 4	Explain the classification of Dhamani	Cognitive/ Comprehensi on	МК	Knows how	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	Π	
CO 4	Locate the Dhamani in the body according to region	Cognitive / application Psychomotor	DK	Shows	Lecture/ Demonstration	Viva-voce/ Practical performance	F & S	Π	
Topic 5	5- Srotasa Sharir [Time: Lecture	e: 08 hours, non-	lecture 0	3 hours]					
CO 4	Define Srotasa and state its Nirukti and types	Cognitive/ Recall	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	Π	
CO 4	Explain the Classification of Srotasa	Cognitive / Comprehensi on	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	II	
CO 4	State the Moolsthana of all Srotasa as per Acharya Sushrut and Charak and its clinical aspect	Cognitive / Recall	МК	Knows how	Lecture/ Seminar/ ECE	Written / viva-voce/ Assignment/ Open book test	F & S	II	Kayachi kitsa/ Panchak arma
Topic 6	6- Kala Sharir [Time: Lecture:0	2 hours, non-lect	ure 02 h	ours] Practical-	03 hours				
CO1	Define Kala and explain the formation & functions of seven Kala	Cognitive –/ comprehensi on	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F&S	III	
CO1	Describe Saptakalas with its applied aspect	Cognitive /comprehensi on +application	МК	Knows	Lecture/ demonstration/ ECE	Written / viva-voce/ Open book test	F&S	III	Agadtantr a
CO1	Relate the Sapta Kala with Sapta Dhatu	Cognitive – application + affective - awareness	NK	Knows how	Lecture/ Seminar/ IT	Written / viva-voce	F&S	III	

CO 7	Define Indriya. Interpret derivation of Indriya and explain its importance.	Cognitive / comprehensi on	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	III	
CO 7	State the meaning of Indriya- artha and Indriya- adhishthan	Cognitive / knowledge	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	III	
CO 7	Enlist Dnyanendriyas, Karmendriyas and Ubhayendriya	Cognitive / knowledge	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	III	
CO 7	Illustrate classical description of Dnyanendriya Adhishthan – Karna, Twak, Netra, Jivha, Nasa with its clinical perspective	Cognitive / application	МК	Knows how	Lecture/ IT/ ECE/ PBL	Written / viva-voce/ Open book test/ Assignment	F & S	ш	Dept. of Shalaky atantra
Topic 8	- Twacha Sharir [Time: Lecture	e: 02 hours, non-	-lecture 0	2 hours]					
CO 7	DefineTwacha, its types and characteristics with its clinical importance, significance of twacha adhisthana in disease manifestation, its relation with dhatu	Cognitive/ comprehensi on	МК	Knows how	Lecture with demonstration with 3D animated video/ ECE/ SDL	Written/ Viva -voce/ Open book test	F&S	Ш	
Topic 9	- Marma Sharir [Time: Lecture	e: 13 hours, non-	lecture 04	hours] Practio	cal- 12 hours		·		
CO 5	Define Marma and enumerate the Marmas	Cognitive – Recall	МК	Knows	Lecture/ Seminar	Written / viva-voce/ Open book test	F&S	II	
CO 5	Describe the Marma and Prana tatva with its Significance	Cognitive – Comprehensi on	МК	Knows	Lecture	Written / viva-voce/ Open book test	F&S	II	

CO 5	Discuss the classification of Marma	Cognitive – Comprehensi on	МК	Knows	Lecture/ ECE/ PBL	Written / viva-voce/ Open book test	F&S	II	
CO 5	Narrate the importance of marma in Sharir and Shalya vigyan	Cognitive – application	МК	Knows how	Lecture/ ECE/ PBL	Written/ Open book test	F&S	II	Shalyat antra
CO 5	Illustrate the specific location of Marma as per Sushruta Samhita	Cognitive – Comprehensi on	МК	Knows + Shows	Lecture/ Demonstration/ Workshop	Written / viva-voce/ Open book test	F&S	II	
CO 5	Demonstrate the Marma location as per modern anatomy	Cognitive – Application Psychomotor	МК	Knows + Shows	Lecture with 3D animated demonstration/ Seminar/ Workshop	Viva-voce/ Practical performance	F&S	II	Panchaka rma
Topic 1	10- Respiratory system [Time: I	Lecture: 06 hour	s, non-le	cture 04 hours]	Practical- 10 hours				
CO6	Enlist the parts of the Bronchial tree	Cognitive / Recall	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	State the location and dimension of Lungs	Cognitive - Knowledge	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Differentiate between Right and left Lungs	Cognitive -/ comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Describe the Borders, Surfaces and lobes of the Lungs	Cognitive/ comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce/ Open book test	F & S	II	
CO6	Explain the root of Lungs	Cognitive /comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the Bronchopulmonary segments of the lungs	Cognitive /comprehensi on	DK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Describe the Blood supply, Nerve supply, Lymphatics of the Lungs	Cognitive /comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	

CO6	Describe histology and Clinical Anatomy of Lungs	Cognitive / application	МК	Knows how	Lecture/ ECE/ PBL	Written / viva-voce/ Assignment	F & S	II	Kaychik ita
CO6	State the extent and features of Trachea	Cognitive / Recall	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the Relations of Trachea	Cognitive – /comprehensi on	МК	Knows how	Lecture/ Demonstration	Written / viva-voce/ Open book test	F & S	II	
CO6	Describe the Blood supply, Nerve supply and Lymphatics of Trachea	Cognitive /comprehensi on	МК	Knows how	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the histology and Clinical anatomy of Trachea	Cognitive /Application	МК	Knows how	Lecture/ ECE/ PBL	Written / viva-voce/ Assignment	F & S	II	Shalaky atantra
CO6	State the extent of Larynx and its external features	Cognitive / Recall	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Enlist the paired and unpaired cartilages of Larynx	Cognitive / Recall	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the relations of Larynx	Cognitive /comprehensi on	DK	Knows how	Lecture/ Demonstration	Written / viva-voce/ Open book test	F & S	II	
CO6	Write the blood supply, nerve supply and lymphatics of Larynx	Cognitive /comprehensi on	DK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the histology and clinical anatomy of Larynx	Cognitive / application	DK	Knows how	Lecture/ Demonstration	Written / viva-voce/ Assignment	F & S	II	
CO6	State the location of Pleura and enlist its parts	Cognitive/ Recall	MK	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Describe the parts of parietal Pleura	Cognitive/ comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce	F & S	II	
CO6	Explain the Pulmonary ligaments and recesses of Pleura	Cognitive /comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce/	F & S	II	

						Open book test			
CO6	Describe the blood supply, nerve supply, lymphatics of Pleura	Cognitive /comprehensi on	DK	Knows how	Lecture	Written / viva-voce	F & S	II	
CO6	Explain the clinical anatomy of Pleura	Cognitive – Application	DK	Knows how	Lecture/ ECE/ PBL	Written / viva-voce/ Assignment	F & S	II	Kayachi kitsa
Topic 1	11- Digestive system [Time: Le	ecture: 10 hours	, non-lect	ure 06 hours] H	Practical- 22 hours				
CO 6	Describe peritoneum and nine parts of abdomen	Cognitive – application	МК	Knows	Lecture/ Demonstration	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
CO 6	Describe the anatomy of the Oesophagus with relations, histology and clinical anatomy	Cognitive – application	МК	Knows	Lecture/ Demonstration	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
CO 6	Describe the structure of the Stomach, Stomach bed, the interior, histology, blood supply with relations and clinical anatomy	Cognitive – application	МК	Knows	Lecture/ Demonstration/ PBL/ ECE/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
CO 6	Describe the structure of the Duodenum with relations, histology and clinical anatomy.	Cognitive – application	МК	Knows	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
CO 6	Describe the parts, structure, histology and clinical anatomy of Large intestine.	Cognitive – application	МК	Knows how	Lecture/ Demonstration	Written/ Viva-voce/ Open book test/ Assignment	F & S	I	
CO 6	Describe the anatomy of the Rectum, Peritoneal &	Cognitive – application	MK	Knows how	Lecture/	Written/	F & S	Ι	

	visceral relations and applied anatomy of the Rectum.				Demonstration/ ECE/ PBL/ IT	Viva-voce/ Open book test/ Assignment			
CO 6	Describe the anatomy and musculature of the anal canal, histology with its blood supply, venous drainage and applied anatomy	Cognitive – application	МК	Knows how	Lecture/ Demonstration	Written/ Viva-voce/ Open book test/ Assignment	F & S	I	
CO 6	Describe the structure of the Pancreas, Pancreatic ducts, applied anatomy, along with histology of endocrine & exocrine part.	Cognitive – application	MK	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	I	
CO 6	Describe external features, anatomy histology and clinical anatomy of Liver	Cognitive – application	MK	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	I	
CO 6	Describe the structure, peritoneal & visceral relations histology and applied anatomy of the Spleen.	Cognitive – application	МК	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
CO 6	Enlist the salivary glands and describe the anatomy of Parotid gland, Submandibular gland and Sublingual gland with its & Clinical anatomy	Cognitive – application	DK	Knows how	Lecture/ Demonstration	Written/ Viva-voce/ Open book test/ Assignment	F & S	Ι	
Topic 1	12- Cardiovascular System [Tin	ne: Lecture: 08 h	nours, non	lecture 03 hou	urs]				
CO 6	Describe pericardium with its clinical anatomy	Cognitive – application	MK	Knows how	Lecture/ Demonstration	Written/ Viva-voce	F & S	II	
CO 6	Describe external features of the Heart.	Cognitive – recall	МК	Knows	Lecture/ Demonstration	Written/	F & S	II	

						Viva-voce/ Open book test/ Assignment			
CO 6	Describe internal features of the chambers, valve and auscultatory areas of Heart and its applied anatomy	Cognitive – application	МК	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	II	
CO 6	Describe the major arteries and veins of Heart.	Cognitive – Recall	MK	Knows	Lecture/ Demonstration	Written/ Viva-voce	F & S	II	
CO 6	Describe the histology and applied anatomy of Heart.	Cognitive – application	МК	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written/ Viva-voce/ Open book test/ Assignment	F & S	II	
Topic 1	3- Urinary System [Time: Lect	ure: 08 hours, n	on-lectur	re 03 hours] Pra	ctical- 04 hours				
CO 6	Enlist the components of Urinary System	Cognitive / Recall	MK	Knows	Lecture	Written / viva-voce	F & S	II	
CO 6	Describe the anatomical structure of Kidney, Ureter, Urinary bladder, Urethra	Cognitive / Comprehensi on	МК	Knows	Lecture/ Demonstration	Written / viva-voce/ Open book test/ Assignment	F & S	II	Kayachik itsa /Panchkai ma/Shala ya-Tantra
CO 6	Explain histology and clinical anatomy of Kidney, Ureter, Urinary bladder, Urethra and its importance	Cognitive / Comprehensi on & Application	МК	Knows how	Lecture/ Demonstration/ ECE/ PBL/ IT	Written / viva-voce/ Open book test/ Assignment	F & S	II	
CO 6	Enlist developmental anomalies of Kidney, Ureter, Urinary bladder, Urethra	Cognitive / Recall	NK	Knows	Lecture	Written / viva-voce/ Open book test/ Assignment	F & S	II	

CO 6	Enlist the anatomical structures of male reproductive system and discuss its Ayurved Sharir	Cognitive / Comprehensi on	МК	knows how	Lecture	Written / viva-voce/ Open book test	F & S	III	
CO 6	Describe the male reproductive organs – Testes, Scrotum, Epididymis, Ductus deference, Ejaculatory duct, penis, Spermatic cord with histology and applied aspect	Cognitive / application	МК	knows how	Lecture	Written / viva-voce/ Open book test	F & S	III	
CO 6	Enlist the anatomical structures of female reproductive system and discuss its Ayurved Sharir.	Cognitive / Comprehensi on	МК	knows how	Lecture/ Seminar	Written / viva-voce/ Open book test	F & S	III	
CO 6	Describe external female reproductive organs	Cognitive / Comprehensi on	МК	knows	Lecture/ Seminar	Written / viva-voce	F & S	III	
CO 6	Explain Internal reproductive organs in detail with histology and its applied anatomy (Uterus, Fallopian tube, Cervix, Vagina, Ovary)	Cognitive / application	МК	knows how	Lecture/ ECE/ PBL/ IT	Written / viva-voce/ Open book test/ Assignment	F & S	III	
CO 6	Explain histology of Uterus, Fallopian tube, Cervix, Vagina, Ovary	Cognitive / application	DK	knows how	Lecture/ Demonstration	Written / viva-voce/ Open book test/ Assignment	F & S	III	
Topic 1	15- Sensory organ [Time: Lectur	e: 14 hours, non	lecture ()5 hours]					
C07	Explain five sensory receptors, hierarchy of development of five senses and need of five senses	Cognitive - comprehensi on	МК	Knows how	Lecture with 3D animated demonstration	Written / viva-voce/ Open book test/ Assignment	F&S	III	
CO7	Describe structural aspect of five sensory organ	Cognitive – comprehensi on	МК	Knows	Lecture	Written / viva-voce/ Open book	F&S	III	

						test/ Assignment			
CO7	Describe the pathways of each sense in understanding of its functional anatomy	Cognitive - comprehensi on	NK	Knows how	Lecture with 3D animated demonstration/ ECE/ PBL/ IT	Written / viva-voce/ Open book test/ Assignment	F&S	III	
CO7	Determine Method of examination, tool of examination and Importance of sensory organ in systemic examination	Cognitive - comprehensi on + Psychomotor	DK	Knows + Shows	Lecture with practical demonstration of tools/ ECE/ PBL/ IT	Written / viva-voce/ Open book test/ Assignment	F&S	III	Shalakya dept. Kaya chikitsa dept

*MK-Must Know, DK- Desirable to Know, NK- Nice to Know, TT- Tutorial, GD- Group Discussion, PBL- Problem Based Learning, IT- Integrated Teaching, ECE- Early Clinical Exposure, SDL- Self Directed Learning, CBL- Case Base Learning (P)-Practical

List of Practicals AyUG-RS Marks: 200 Hours: 240

SN	Name of Practical	Term	Hours
P1	Branches of anatomy. History of Anatomy	Ι	2
	• Ethics in dissection hall	1	2
P2	Anatomical Terminologies		
	Anatomical position, Planes, and explanation of anatomical terms related to skin,	Ι	4
	fasciae, bones, joints and their movements, muscles, ligaments, tendons, blood	1	4
	vessels, nerves.		
P3	Preservation methods of the cadaver, Mrut sharir Samshodhan		
	• Different methods of preservation techniques.	Ι	2
	Brief introduction of chemical composition of preservative fluid.		
P4	Introduction of Anatomy Act and Brief detailing about Bio medical waste management act 1960	Ι	2
P5	Shava vichhedana – detailed dissection of the whole body		
	• Line of incision		
	Dissection technique	Ι	32
	• Identification of different tools and its Uses		
	• Identification and characteristics of Different layers and its relation		
	In Extremities: Dissection of extremities & Identification of related structures	II	40
	In Trunk region: Demonstration of visceral relation of thoracic, abdominal and pelvic organ	II	38
	In Head Region: Dissection of head,		
	Identification of Meninges, Major Sulci and gyri, Superficial origin of Cranial Nerve and and	III	14
	venous Sinus.		
	Dissection of sensory organs	III	22
P6	Practical study of vital organs, Histological slides		0.6
	• Identification of external features of thoracic, abdominal and pelvic viscera	II	06
P7	Practical study of bones	Ι	36

	Identification of external features of bones and different attachment		
	Surface and Radiological anatomy		
	In Radiology Anatomy: Characteristics of radio imaging film and detailing about its color		
	contrasting		
	Identification of Normal alignment of bodily structure – X ray film		
	a. Chest X Ray – A.P And P.A view	III	22
	b. Detailing of A.P view of Shoulder joint, Elbow Joint, Wrist joint, Hip joint, knee joint, Ankle joint.		
	c. Identification of basic clinical finding through X ray film related to long bones and		
	joints		
P8	In Surface Anatomy Section:		
	 Identification of Underlying viscera of Nine region based upon Cadaveric and Living 	III	6
	Anatomy		0
	 Surface marking of thoracic, abdominal and pelvic viscera 		
P9	Practical study of Marma	III	12
	Surface markings of all Marma points and its anatomical demarcation.	111	12
P10	Brief detailing about body donation, organ donation and its awareness	III	2
	(Communication skills)	111	2

*Note: one practical should not be less than 2 hrs.

Table 4: Learning objectives (Practical) of AyUG- RS

A4 Course outcome	B4 Learning Objective (At the end of the session, the students should be able to) - Definition and branche	C4 Domain/s ub	D4 Must to know/ desirabl e to know/N ice to know y History	E4 Level Does/ Shows how/ Knows how/ Know	F4 T-L method	G4 Assessment	H4 Form ative /sum mativ e	I4 Te rm	J4 Integration			
CO1	Define and describe branches of anatomy and its history	Cognitive / knowledge / recall	MK	Know	Lecture/ Tutorial	Written +viva-voce	F&S	I				
CO9	Practice of ethics in the context of human dissection	Cognitive / knowledge / recall/ Affective/ psychomot or	МК	Knows Shows	Tutorial/ Demonstration	viva-voce	F&S	Ι				
Practical 2	Anatomical Terminologies [Time: Practical- 2 hours and other activity 2 hours]											
CO1	Demonstrate anatomical position, Planes, and explanation of anatomical terms related to skin, fasciae, bones, joints and their movements, muscles, ligaments, tendons, blood vessels, nerves.	Cognitive / knowledge / recall	МК	Knows	Tutorial/ Demonstration/ Simulation	Written +viva-voce/ Open book test/ Assignments	F&S	Ι				

Practical	3- Preservation methods	of the cadav	er, Mrut s	sharir Samsh	odhan [Time: Pra	ctical or other	activity -	02 hours]	
CO9	Describe and demonstrate preservation methods	Cognitive / knowledge / recall	МК	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce	F&S		
	of the cadaver and Mrut sharir Samshodhan							I	
CO9	Describe the different methods of preservation techniques and give brief introduction of chemical composition of preservative fluid.	Cognitive / knowledge / recall	МК	Knows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE	F&S	Ι	
	4- Introduction of Anator ractical or other activity - 02		Brief deta	iling about B	io medical waste	management	act 1960		
CO9	Describe and follow the Anatomy Act and Bio medical waste management act 1960	Cognitive - comprehen sion, Affective/ psychomot or	NK	Knows, know how, Shows	Lecture/ Tutorial/ Demonstration	Written +viva-voce/ Practical performance/ Public awareness	F&S	I	
Practical	l 5- Shava vichhedana – de	etailed dissec	tion of th	e whole body	[Time: Practical-	126 hours and	other act	ivity 20 hours]	
CO9	Demonstrate the line of incision, dissection technique, different tools and their uses	Cognitive / knowledge / recall	МК	Knows/ Shows/ Shows How	Tutorial/ Demonstration / Cadaveric dissection	Written +viva-voce, spotting, OSPE	F&S	I	
CO9	Identify and characteristics of Different layers and its relation	Cognitive / knowledge / recall	DK	Knows	Tutorial/ Demonstration / Simulations /	Written +viva-voce, spotting, OSPE	F&S	Ι	

	demonstrate the	comprehen sion +		Shows		+viva-voce, spotting,		II	
CO6	Describe and	Cognitive -	MK	Knows	Demonstration	Written	F&S		
CO6	Focus the histological slides of identified organs	Cognitive / knowledge / recall	DK	Knows	Tutorial/ Demonstration	Written +viva-voce spotting, OSPE	F&S	П	
[Time: Prac	ctical- 04 hours and other	activity 02 h	ours]		_				
Practical 6	5- Practical study of vital	organs, Hist	tological s	lides and ide	entification of exte		of thora	cic and abdo	minal viscera
		or			dissection	Practical performance			
	sensory organs	sion + psychomot			Cadaveric	spotting, OSPE/		III	
CO6	Describe, dissect and demonstrate the	Cognitive - comprehen	МК	Knows, Shows	Demonstration / Simulations/	Written +viva-voce,	F&S		
	nerve and meninges and venous sinus.								
	of brain, major sulci and gyri, superficial origin of cranial	or			uissection	Practical performance	III	III	
	identification of parts	sion + psychomot			Cadaveric dissection	spotting, OSPE/			
CO6	Describe and demonstrate surface	Cognitive - comprehen	MK	Knows, Shows	Demonstration / Simulations/	Written +viva-voce,	F&S		
	thoracic and abdominal organ	or				Practical performance			
	visceral relation of	sion + psychomot			Cadaveric dissection	spotting, OSPE/		II	
CO6	Describe and demonstrate the	Cognitive - comprehen	DK	Knows, Shows	Demonstration / Simulations /	Written +viva-voce,	F&S		
	demonstrate muscles of extremities and its related structures	knowledge / recall		Shows	Demonstration / Cadaveric dissection	+viva-voce		п	
CO9	Identify and	Cognitive /	DK	Knows,	dissection Tutorial/	Written	F&S		
					Cadaveric dissection				
	external features of thoracic and abdominal viscera	psychomot or				OSPE/ Practical performance			
-----------	--	---	--------------	-----------------	---	--	--------------	-----	------------------------------
Practical	7- Practical study of bone	es [Time: Pra	ctical- 30 l	nours or other	r activity 06 hours				
CO3	Describe and demonstrate external features of bones and muscle attachments	Cognitive - comprehen sion + psychomot or	МК	Knows, Shows	Demonstration / Simulations	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	Ι	
CO10	Describe the characteristics of radio imaging film and difference in color contrasting	Cognitive / knowledge / recall	DK	Knows	Tutorial/ Demonstration / Simulations	Written +viva-voce spotting, OSPE	F&S	Ι	
	8- Surface and Radiologi		-			-	F 0.0		1
CO10	Describe and demonstrate the normal alignment of chest X Ray – A.P And P.A view	Cognitive - comprehen sion + psychomot or	МК	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	Ш	
CO10	Describe and demonstrate the normal alignment of A.P view of Shoulder joint, Elbow Joint, Wrist joint, Hip joint, knee joint, Ankle joint	Cognitive - comprehen sion + psychomot or	МК	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	III	
CO10	Identify the basic clinical finding through X ray film	Cognitive - comprehen sion +	NK	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE/	F&S	III	Kaychikitas, Shalyatantra

	related to long bones and joints	Psychomot or				Practical performance			
CO8	Describe and demonstrate underlying viscera of Nine region based upon cadaveric and Living Anatomy	Cognitive - comprehen sion + psychomot or	DK	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	III	
CO8	Describe and demonstrate surface marking of thoracic and abdominal viscera	Cognitive - comprehen sion + psychomot or	DK	Knows, Shows	Tutorial/ Demonstration	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	III	
Practical 9-	· Practical study of Mar	ma [Time: P	ractical or	other activity	- 12 hours]	· •			
CO5, CO8	Describe and demonstrate surface markings of Marma points and its anatomical demarcation of all Marma as per Shadang sharir	Cognitive - comprehen sion + psychomot or	МК	Knows + Shows	Tutorial/ Demonstration / Cadaveric dissection	Written +viva-voce, spotting, OSPE/ Practical performance	F&S	III	Panchakarma
Practical 1	0- Body donation, organ	donation a	nd its awa	reness [Time	: Practical or other	r activity - 02 h	ours]		
CO9	Describe body donation and organ donation process with respect to specific organ and its	Affective/ psychomot or	DK	Knows, know how, Shows	Tutorial/ Demonstration	Written +viva-voce/ Public awareness/ social work	F&S	III	Shalyatantra and Shalakyatan tra
	awareness Demonstrate process of communication	Psychomot oe	МК		Role Play			III	

process in awareness				
speech or cousellinf				
for Body donation.				

1	List non lecture Teaching-Learning methods	No of Activities (Values in hours)
a	Seminar / Workshop	14
b	Tutorial (TT) / Group Discussion (GD)	14
с	Problem based learning (PBL)	8
d	Integrated teaching (IT)	8
e	Early Clinical Exposure (ECE)/ Case Base Learning (CBL)	18
f	Self-Directed Learning (SDL) / Summary writing	12
g	Field visit	6
		80
2	Practical (refer Table 4)	240
	Total	320

Table 5: Non-Lecture Activities Course AyUG-RS

Other Educational Activities(Additional):

- Field visit (community/anatomy museum) II & III term
- Practical journal II & III term
- Summary/ Essay writing (Research papers/Samhitas literature review)- II or III term

Table 6: Assessment Summary

6 A - Number of Papers and Marks Distribution

				Practical/Clinical Assessment					Grand
S.No.	Subject Code	Papers	Theory	Practical/ Clinical	Viva	Electives	IA	Sub Total	Total
1.	AyUG-RS	2	200	100	70	-	30	200	400

6 B - Scheme of Assessment (formative and Summative) AyUG-RS

	DDODECCIONAL	DURATION OF PROFESSIONAL COURSE					
SR.NO.	PROFESSIONAL COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)			
1	First	3 PA & First TT	3 PA & Second TT	3 PA & UE			

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

		PERIC	DDICAL A	TERM TEST**		TERM ASSESSMENT		
	Α	В	С	D	Ε	F	G	Н
TERM					Converted to	Term Test	Sub	Tom
	1 (15	2 (15	3 (15	Average	30	(Marks	Total	Term Assessment
	Marks)	Marks)	Marks)	(A+B+C/3)	Marks	converted	_/60	
					(D/15*30)	to 30)	Marks	(/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		E
Final IA		Avera	ge of Thr	ee Term Asse	ssment Marks a	s Shown in 'I	H' Colum	n.
	Maximun	n Marks in	Parenthese	es				
	*Select an	*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)	Marks)						
	Then con	vert to 30 r	narks.					

6 C - Calculation Method for Internal assessment Marks (30 Marks) AyUG-RS

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods for Periodical Assessment
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
10.	Other activities explained in Table 3 Column G3 as per indicated term and objective of the topic.

6 E - Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-RS

PAPER-1

Time: 3 HoursMaximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100

		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

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-RS

PAPER-1I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory TOTAL MARKS 100

		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

				D Type of Questions "Yes" can be asked.		
	Donor I					
	Paper I					
				"No" s	should not b	e asked.
	Α	В	С	MCQ	SAQ	LAQ
	List of Topics	Term	Marks	(1 Mark)	(5	(10 Marks)
					Marks)	
1	Shariropkramaniya Shaarira	Ι		Yes	Yes	No
2	Paribhasha Shaarira	Ι		Yes	Yes	No
3.	Garbha Shaarira	Ι		Yes	Yes	Yes
4.	Asthi Shaarira	Ι		Yes	Yes	Yes
5.	Sandhi Shaarira	II		Yes	Yes	Yes
6.	Snayu sharir	II		Yes	Yes	No
7.	Peshi Shaarira	II	Refer	Yes	Yes	No
8.	Kesha, Danta, Nakha Sharir	II	Next table	Yes	Yes	No
9	Embryology	Ι		Yes	Yes	Yes
10	Osteology	Ι		Yes	Yes	Yes
11	Arthrology.	II		Yes	Yes	Yes
12	Myology	II		Yes	Yes	No
13	Nervous System.	III		Yes	Yes	Yes
14	Endocrinology	III		Yes	Yes	Yes
15	Lymphatic system	III		Yes	No	Yes

6 F – I -	Distribution	of Theory exam	AvUG-RS
•		or incory chain	1,00 10

	Paper II			D Type of Questions "Yes" can be asked. "No" should not be asked.		ked.
	Α	В	С	MCQ	SAQ	LAQ
	List of Topics	Term	Marks	(1 Mark)	(5 Marks)	(10 Marks)
1	Pramana Shaarira:	II		Yes	No	No
2	Koshtha Evam Ashaya Shaarira	Ι		Yes	Yes	Yes
3.	Sira Sharir	II		Yes	Yes	Yes
4.	Dhamani Sharir	II	Defer	Yes	Yes	Yes
5.	Strotas Shaarira	II	Refer	Yes	Yes	Yes
6.	Kalaa Shaarira	III	Next Table	Yes	Yes	Yes
7.	Indriya Shaarira	III	Table	Yes	Yes	Yes
8.	Twacha Sharir	III	1	Yes	Yes	Yes
9	Marma Shaarira	II	1	Yes	Yes	Yes
10	Respiratory System	II	1	Yes	Yes	Yes

11	Digestive system	Ι	Yes	Yes	Yes
12	Cardiovascular system	II	Yes	Yes	Yes
13	Urinary System	II	Yes	Yes	Yes
14	Reproductive system	III	Yes	Yes	Yes
15	Sensory organs	III	Yes	Yes	Yes

6 F – II - Theme table

Paper-I:

aper-1.						
Theme*	Topics	Term	Marks	MCQ	SAQ	LAQ
а	1) Shariropakramaniya 2) Paribhasha Sharir	Ι	10	YES	YES	NO
b	3) Garbha Sharir9) Embryology	Ι	20	YES	YES	YES
с	4) Asthi Sharir10) Osteology	Ι	16	YES	YES	YES
d	 Kesh, Dant, Nakha Sharir Peshi Sharir Myology 	Π	11	YES	YES	NO
е	5) Sandhi Sharir 6) Shayu Sharir 11) Arthrology	Π	17	YES	YES	YES
f	13) Nervous System	III	14	YES	YES	YES
g	14) Endocrinology 15) Lymphatic	III	12	YES	YES	YES
*Ther	ne: is group of similar topics in Ayurv	ed Sharir	and Anator	ny. Used in 6G qu	uestion paper b	lue print

Paper-II

Theme	Topics	Term	Marks	MCQ	SAQ	LAQ
а	2) Koshta Evam Ashay Sharir11) Digestive system	Ι	16	YES	YES	YES
b	 Praman Sharir Marma Sharir 	II	17	YES	YES	YES
с	 3) Sira Sharir 4) Dhamani Sharir 5) Strotas Sharir 12) Cardiovascular System 	Π	21	YES	YES	YES
d	10) Respiratory System	II	10	YES	YES	YES
e	13) Urinary System	II	10	YES	YES	YES
f	14) Reproductive System	III	6	YES	YES	NO
g	 6) Kala Shair 7) Indriya Sharir 8) Twacha Sharir 15) Sensory organs 	III	20	YES	YES	YES

PAPER-I	В	C
A	_	
Question	Type of Question	Question Paper Format
Sr. No		(Refer table 6 F II Theme table for themes)
Q1	Multiple choice Questions	1. Theme a
	(MCQ)	2. Theme a
		3. Theme a
	20 Questions	4. Theme a
		5. Theme a
	1 mark each	6. Theme b
		7. Theme b
	All compulsory	8. Theme b
		9. Theme b
	Must know part: 15 MCQ	10. Theme b
	Desirable to know: 3 MCQ.	11. Theme c
	Nice to know: 2 MCQ	12. Theme d
		13. Theme e
		14. Theme e
		15. Theme f
		16. Theme f
		17. Theme f
		18. Theme f
		19. Theme g
		20. Theme g
Q2	Short answer Questions	1. Theme a
	(SAQ)	2. Theme b
	Eight Questions	3. Theme c
	5 Marks Each	4. Theme d
	All compulsory	5. Theme d
	Must know part: 7 SAQ	6. Theme e
	Desirable to know: 1 SAQ	7. Theme g/f
	Nice to know: Nil	8. Theme g/f
	nice to know: mi	
Q3	Long answer Questions	
	(LAQ)	1. Theme b
	Four Questions	2. Theme c
	10 marks each	3. Theme e
	All compulsory	4. Theme f/g
	All questions on must know	
	No Questions on Nice to know and Desirable to	
	know	

6 G Question paper Blue print for AyU-RS: PAPER-I

PAPER-II

Question Sr. No		SET
Q1	Multiple choice Questions	1. Theme a
	(MCQ)	2. Theme b
		3. Theme b
	20 Questions	4. Theme c
		5. Theme c
	1 mark each	6. Theme c
		7. Theme c
	All compulsory	8. Theme c
		9. Theme c
	Must know part: 15 MCQ	10. Theme d/e
	Desirable to know: 3 MCQ.	11. Theme d/e
	Nice to know: 2 MCQ	12. Theme d/e
		13. Theme e/d
		14. Theme e/d
		15. Theme f
		16. Theme g
		17. Theme g
		18. Theme g
		19. Theme g
		20. Theme g
Q2	Short answer Questions	1. Theme a
	(SAQ)	2. Theme b
	Eight Questions	3. Theme c
	5 Marks Each	4. Theme d/e
	All compulsory	5. Theme e/d
	Must know part: 7 SAQ	6. Theme e/d
	Desirable to know: 1 SAQ	7. Theme f
	Nice to know: Nil	8. Theme g
Q3	Long answer Questions	1. Theme a
	(LAQ)	2. Theme b
	Four Questions	3. Theme c
	10 marks each	4. Theme g
	All compulsory	
	All questions on Must to know	
	No Questions on Nice to know	
	and Desirable to know	

6 H - I - Distribution of Practical Exam

Practical 100 Marks + (Viva 70 + IA 30) Marks

SN	Heads	Marks	
1	Spotting (Refer Table 6 H II below)	20	
3	Kostha Ashay Sharir, Dissected organs and histology slides	20	
4	Ashti, Sandhi, Peshi, Bones and Joints,	Bones and Joints, 20	
5	Marma Sharir, Surface & Radiological anatomy	20	
6	Practical record (15 Marks) and Communication Skill (5 Marks)	ication Skill (5 Marks) 20	
7	Viva-Voce (Objective Structured) (Refer table 6 H – III)	70	
8	Internal assessment	30	
	Total Marks	200	
	I Practical Spot examination Questions – (20 marks)		
SN Topic	Question - Garbha/Sira/Kala	Mark allotment	
1 1	Identify the structure & give the Drushtant/ Metaphor related with it. e.g Gunja Phala- Artava, Spatik-Shukra, etc	Identification- 1 Drushtant- 1	
Topic	- Marma		
1	Identify the Marma & write its type as per Parinama & Rachana	Identification- 1 Type-1	
2	Identify the Marma & write its Pariman & any two anatomical structures related to the Marma		
3	Identify the Marma & write its applied aspect	Identification- 1 Viddha-1	
Topic	- Bones, Muscles	vidunu i	
1	Identify the bone & write its peculiarities (Any 2) e.g Atlas vertebra	Identification- 0.5 Peculiarities- 1.5	
2	Identify the indicated part on the bone & write its attachment (Any 2) e.g., Scapula spine	Identification- 1 Attachment- 1	
3	Identify the side of the given bone & write side determination points	Side identification- 0.5 Points- 1.5	
4	Identify the side of the given bone & write its applied anatomy (Any 2 points)	Identification-1 Applied -1	
5	Write the type of the given bone as per Ayurved & Modern science e.g., Tibia- Nalakasthi, long bone	Ayu. Type- 1 Modern type- 1	
6	Identify the indicated muscle on the bone & write whether it originates or inserts there	r Muscle identification- 1 Origin/insertion- 1	
7	Identify the indicated muscle & write its action (Any 2)	Identification- 1 Action-1	
8	Identify the indicated muscle& write its blood supply/nerve supply	Identification-1	

		Supply-1
	Identify the indicated muscle& write its applied anatomy	Identification-1
9	identify the indicated muscle& write its applied anatomy	
		Applied -1
10	Identify the bone and write any two processes	Identification-1
		Processes -1
11	Identify the bone and write any two angles	Identification-1
11		Angle -1
12	Identify the bone and write any one peculiarity related to gender	Identification-1
12	e.g., Hip bone, Clavicle, Sacrum	Peculiarities- 1
Topic	- Joints	
1	Identify the joint & write its ligaments (Any 3)	Identification- 0.5
1		Ligaments- 1.5
	Identify the joint & write names of actions occurring there (Any 3)	Identification- 0.5
2		Actions- 1.5
	Identify the joint & write the type of joint as per Ayurved & Modern	Identification- 1
3	science	Ayu. Type- 0.5
5		Modern type- 0.5
	Identify the joint & write its clinical anatomy (Any two)	Identification- 1
4	identify the joint & write its chinical anatomy (Any two)	Clinical anatomy-1
	Identify the ising R white its relation (A my true)	Identification- 1
5	Identify the joint & write its relation (Any two)	
		Relation -1
6	Identify the joint & write the movements along with the muscle	Identification- 1
6		Movement -0.5
		Muscle – 0.5
Topic	- Organs	
1	Identify the organ & write name of the Srotas related to it	Identification- 1
1		Sroras-1
2	Identify the organ & write name of the kala related to it	Identification-1
2		Kala-1
3	Identify the organ & write its Utpatti as per Ayurved	Identification-1
3		Utpatti-1
4	Identify the organ & write its visceral impressions (Any 3)	Identification- 0.5
4		Impressions-1.5
~	Identify the organ & write its blood/nerve supply	Identification- 0.5
5		Supply-1.5
	Identify the organ & write it's the borders (Any two)	Identification- 1
6	,	Borders -1
	Identify the organ & write its surfaces (Any two)	Identification- 1
7	actions, the organize white his surfaces (rang two)	Borders -1
	Identify the organ& write its applied anatomy (Any 3 points)	Identification-0.5
8	identity the organice write its applied anatomy (Any 5 points)	Applied -1.5
Topic	Dadialagy	Applied -1.5
Topic	- Radiology	Identification 05
1	Identify the X-ray & write the structures seen in it (Any 3)	Identification- 0.5
		Structures-1.5
2	Identify the view of the X-ray & write the marked structures (Any two)	Identification- 1
	~	Structures-1
Торіс	- Central Nervous System/ Sense organs	
1	Name the lobes of the given organ	Each lobe -0.5
1	e.g., cerebrum	Total -2

2	Identify the sense organ & write its nerve supply	Identification-1
Z	e.g., tongue	Supply-1
2	Identify the marked structure and write its applied aspect (Any two)	Identification-1
3		Applied aspect-1

6 H - III Viva Voce (70 Marks)

Recall Questions	Comprehention Questions	Application Questions
40 Marks	20 Marks	10 Marks
1. Sira-Dhamani-Strotas		
2. Shariropakramaniya Sharir		
3. Paribhasha Shaarir	1. Nervous system	
4. Praman Shaarira	2. Endocrine system	1. Garbha Sharir,
5. Anatomical terminologies	3. Lymphatic system	2. Embryology
6. Kalaa Sharir	4. Cardiovascular system	3. Respiratory system
 Indriya Sharir & Sensory organ 	5. Urinary system	4. Digestive system
8. Reproductive system		
e.g., Definition, types, numbers, planes, parts, Shlokas, etc.	e.g., Relations, Blood supply, Nerve Supply, Venous & Lymphatic drainage, etc.	e.g., Applied anatomy, Clinical anatomy, Surgical anatomy, Congenital anomalies etc.

7. Reference and Resourses

- 1. Parishadhya Shabdarth Sharir
- 2. Pratyaksha shaririram
- 3. Sharisthana of all Samhita
- 4. Sushrut Samhita Sharirshtana- Dr. Bhaskar Govind Ghanekar
- 5. Brihat Shariram Vaidyaratna- P.S. Varrier
- 6. Abhinava Shariram- Acharya Damodar Sharma Gaur
- 7. Manava Sharir (Revised Edition)- Prof. Dinkar Govind Thatte
- 8. Sharir Rachana Vigyan (English)- Vaidya P.G. Athawale
- 9. Manual of Practical Anatomy Cunnigham Practical Manual Vol-1, Vol-2, Vol-3
- 10. Clinical Anatomy in Ayurveda Prof. D.G. Thatte & Prof. Suresh Chandra
- 11. Ayurvedic Human Anatomy Prof. Dr. Giridhar M. Kanthi
- 12. Sharir Rachana Vigyan Vol I & II– Dr. Sunil Kumar Yadav
- 13. Regional Anatomy B. D. Chaurasia
- 14. Rachana Sharir Vigyana Dr. Mahendra Sing
- 15. Relevant chapters of Brihtrayee and Laghuthrayee
- 16. Gray's Anatomy
- 17. Text Book of Human Anatomy- Inderbir Singh
- 18. Clinical Anatomy- Richard S Snell
- 19. Fundamentals of Human Anatomy- Dr. Chakraborthy
- 20. Human Osteology Poddar
- 21. A Handbook of Anatomical Terminology, Dr. Nidhi Shrivastava, Dr. Ravi Kumar Shrivastava, Dr. Rakesh Kumar Sharma.