



Estd : 1989
NCISM College Code : AYU0153
MUHS College Code : 3401

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छत्रपती शाहू महाराज शिक्षण संस्था संचलित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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Course Outcomes

CO for all UG courses

AyUG-PV Course- Padarth Vidnyan

Course learning outcomes

CO	Course learning Outcomes (CO) AyUG-PV At the end of the course AyUG-PV, the student should be able to-
CO 1	Illustrate the scope and utility of Ayurveda
CO 2	Explain Philosophical foundation of Ayurveda, Principles (Siddhantha) of Darshana along with their similarities and relevance in Ayurveda and contemporary sciences.
CO 3	Analyse and interpret Padartha (Prameya) in Darshana and Ayurveda. Recognize their applications in Ayurveda.
CO 4	Distinguish, analyse and apply concept of Pramana shastra (Epistemology) in Darshana and Ayurveda. Demonstrate their applications in Ayurveda.
CO 5	Analyse and apply concept of Karya Karana Bhava in Ayurveda.



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Course Code and Name of Course

Course code	Name of Course
AyUG-SA1	Samhita Adhyayan 1

AyUG SA1 Course

Course learning outcomes.

SR1CO No	A1 Course learning Outcomes (CO) AyUG SA1 At the end of the course AyUG-SA1, the students should be able to-
CO1	Distinguish the different <i>Samhitas</i> , their importance and methodology and familiarize with the tools of <i>Samhita Adhyayan</i> . (eg: <i>tantrayukti</i>)
CO2	Interpret and apply the <i>sutras</i> from the <i>Samhitas</i> .
CO3	Apply and evaluate the <i>Tridosha</i> , <i>Saptadhatu</i> and <i>Mala</i> principles(theory).
CO4	Practice and prescribe <i>Dincharya</i> (daily regimen), <i>Ritucharya</i> (seasonal regimen) and dietary principles for preservation of health.
CO5	Explore and distinguish different types of food, food groups and medicinal <i>dravyas</i> mentioned in <i>Samhitas</i> .
CO6	Identify various etiopathological factors and predict different treatment principles
CO7	Recognize and explain the fundamentals behind various therapeutics (<i>Shodhan</i> and allied) and parasurgical therapies.
CO8	Develop a code of behavior and show mature behaviour in particular to the scientific deliberations.



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Course Code and Name of Course

Course code	Name of Course
AyUG SN & AI	Sanskrit and Ayurved Itihas

AyUG SN & AI Course

Course learning outcomes.

SR1 CO No	A1 Course learning Outcome (CO) AyUG SN & AI At the end of the course AyUG SN & AI, the student should be able to-
Sanskrit CO1	Read and recite Prose and poem with the appropriate accent
CO 2	Apply various Technical Terms in Ayurveda ,Nouns & Pronouns, Verbs, suffixes ,Grammatical Terms ,Syntax and Compounds from Sanskrit Grammar for enhanced interpretation of Ayurveda texts
CO 3	Discriminate and interpret the Cases & meanings used in various verses of Ayurveda texts
CO 4	Formulate the Prose order of Slokas/Sutras in Ayurveda Textbooks to derive the meaning ,to determine the Scientific Meaning and to Translate (Regional or other language).
CO 5	Interpret the Synonyms and Derivations of Ayurveda Terms using samskrita dictionaries
CO 6	Speak, Write and Summarize and Express in Samskrit
CO 7	Develop the ethical responsibility towards the profession, society and human being.
AI CO 8	Analyse and explain the important milestones in the history of Ayurveda
CO 9	Appreciate the status of Ayurveda in different time periods and Contributions made by different Acharyas to Ayurveda.



[Signature]
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Course Code and Name of Course

Course code	Name of Course
AyUG KS	Kriya Sharir (Human Physiology)

AyUG KS Course

Course learning outcomes

SR1CO No	A1 Course learning Outcomes (CO) AyUG KS At the end of the course AyUG-KS, the student should be able to-
CO 1	Explain all basic principles & concepts of Kriya Sharir along with essentials of contemporary human physiology and biochemistry related to all organ systems.
CO 2	Demonstrate and communicate normal and abnormal variables pertaining to Kriya Sharir such as Sara, Agni, Koshtha, Srotas etc.
CO 3	Differentiate between Prakriti and Vikriti in the individuals after carrying out relevant clinical examinations.
CO 4	Carry out clinical examination and experiments using equipments with interpretation of their results
CO 5	Differentiate the strengths & limitations of Ayurved and contemporary sciences
CO 6	Present a short project work / research activity covering the role of Kriya Sharir in preventive and promotive healthcare.
CO 7	Show a sense of curiosity and questioning attitude towards the life processes and to display compassion and ethical behavior
CO 8	Effectively communicate verbally and in writing preferably using Ayurvedic terminology along with contemporary terminology among peers, teachers and community



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Course Code and Name of Course

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

AyUG RS

Course learning outcomes

SR1CO No	A1 Course learning Outcome (CO) AyUG RS At the end of the course AyUG RS, the student should be able to-
CO1	Describe the fundamentals of Rachana Sharir, interpret and analyze it in relevant context and recognize its significance in Ayurveda
CO 2	Explain Garbha Sharir and Embryology in Ayurveda and modern science respectively with clinical significance
CO 3	Describe and demonstrate all the bones and joints with attachments of associated structures and its clinical application
CO 4	Explain the concept of Sira-Dhamani-Strotas, their organization in the human body and its applied aspect
CO 5	Identify the Marma and understand its classification along with its importance in preventive and therapeutic aspect
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
CO 7	Explain the Indriya Sharir and Sensory organs with its application in preventive and therapeutic domain.
CO 8	Identify and locate all the structures of body and mark the topography of the living Sharir.
CO 9	Respect the cadaver and perform dissection with commitment to reiterate the theoretical aspect of Ayurved Rachana Sharir and contemporary sciences.
CO 10	Describe the basic principles of imaging technologies and identify the anatomical structures in the radiograph

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Course Code and Name of Course

Course code	Name of Course
AyUG SA2	Samhita Adhyayan 2

AyUG SA2

Course learning outcomes

Sr. No.	Course learning Outcomes (CO) AyUG-SA2 At the end of the course AyUG-SA2, the students should be able to-
CO1	Justify the Methodology of structuring samhitas and appraise the importance of tools of decoding Charakasamhita (Tantrayukti and vyakhyana)
CO2	Relate and interpret various references of concepts in Charakasamhita
CO3	Explain and interpret biological factors and their measurements in the manifestation of diseases.
CO4	Explain and utilize various siddhantas in different dimensions of clinical practice.
CO5	Demonstrate the knowledge of dravya and adravya based therapeutics.
CO6	Apply diagnostic guidelines regarding diseases including arishta lakshana based on the principles mentioned in Charakasamhita
CO7	Explore the determinants of health in the background of Charakasamhita.
CO8	Develop ethical professional and moral codes and conducts as a physician.



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Course Code and Name of Course

	Course code	Name of Course
	AyUG -DG	Dravyaguna

AyUG-DG

Course learning outcomes : Attached PO.

Sr. No.	Course learning Outcomes (CO) AyUG-DG At the end of the course AyUG-DG, the students should be able to-
CO1	Demonstrate the application of principles of Dravyaguna in clinical practice.
CO2	Analyze and justify the fundamental principles of Dravyaguna in relevance to contemporary sciences
CO3	Analyze and interpret Rasa Panchaka of Dravya with their application in clinical practice.
CO4	Interrelate the knowledge on Karma (pharmacological actions) with Rasa panchaka and basic contemporary clinical pharmacology.
CO5	Demonstrate and Justify the ability to select the specific Dravyas, Prashata Bhesaja with different dosage forms in different clinical conditions.
CO6	Demonstrate knowledge of quality control methods of drug.
CO7	Demonstrate knowledge and skills about Apamishrana (adulterants), Abhava pratinidhidravya (substitutes), Prashastabhesaja (ideal drug) and plant extracts.
CO8	Identify the medicinal plants and orient about conservation, cultivation, sustainable utilization & Pharmacovigilance
CO9	Demonstrate fundamental principles of applied Pharmacology.



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Course Code and Name of Course

Course code	Name of Course
AyUG -RB	Rasashastra Bhaishajyakalpana

AyUG-RB

Course learning outcomes

Sr. No.	Course learning Outcomes (CO) AyUG-RB At the end of the course AyUG-RB, the students should be able to-
CO1	Demonstrate application of principles of Ayurvediya Aushadhi Nirmana (Ayurvedic Pharmaceutics)
CO2	Demonstrate application of principles of Ayurvediya Aushadhi Prayoga Vigyana (Clinical Pharmacology)
CO3	Prepare Ayurvedic formulations in adherence to quality control parameters for raw materials, in-process and finished products.
CO4	Justify rationality of selection and administration of Ayurvedic formulations.
CO5	Demonstrate application of ethical, legal and regulatory aspects of manufacturing and sale of Ayurvedic formulations.
CO6	Appraise research in current and emerging trend in Ayurvedic pharmaceuticals and allied sciences.



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Course Code and Name of Course

Course code	Name of Course
AyUG -SW	Swasthawritta

AyUG-SW

Course learning outcomes

Sr. No.	Course learning Outcomes (CO) AyUG-SW At the end of the course AyUG-SW, the students should be able to-
CO1	Demonstrate application of principles of Swasthavritta in lifestyle modifications.
CO2	Assess the health status and advise preventive & promotive measures according to Ayurveda principles.
CO3	Demonstrate and advise Yoga and Naturopathy as health promotive and disease preventive regimen.
CO4	Understand and apply the principles and components of primary health care and health policies to achieve the goal of health for all.
CO5	Advocate and propagate preventive principles of Ayurveda and contemporary sciences through Information, Education and Communication (IEC).
CO6	Conduct community surveys and apply epidemiological principles for the assessment of health & morbidity as a community physician.
CO7	Understand and apply the principles of environmental health and its effects on public health with control measures.
CO8	Demonstrate skills and research aptitude for the promotion of health and prevention of diseases.



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Course Code and Name of Course

Course code	Name of Course
AyUG -AT	Agadtantra

AyUG-AT

Course learning outcomes

Sr. No.	Course learning Outcomes (CO) AyUG-AT At the end of the course AyUG-AT, the students should be able to-
CO1	Demonstrate application of fundamental concepts of Agada Tantra, Vyavahara Ayurveda and Vidhi vaidyaka in real life situations.
CO2	Diagnose and manage acute and chronic poisoning due to Sthavara, Jangama and Kritrima visha along with their contemporary relevance.
CO3	Demonstrate application of concepts of Dushivisha, Garavisha and Viruddha ahara in prevention, diagnosis and management of diseases.
CO4	Demonstrate application of principles of Agada Tantra and therapeutic administration of common Agada yoga and Visha dravya in Clinical practice.
CO5	Appreciate research updates in relevance to Agada Tantra and apply for healthcare promotion and social awareness.
CO6	Demonstrate application of professional skills of Forensic Medicine in handling medico legal issues
CO7	Demonstrate professional and ethical behavior in discharging the medicolegal duties and responsibilities in abidance to the law.



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Course Code and Name of Course

Course code	Name of Course
AyUG -RN	Rognidan & Vikruti Vigyan

AyUG-RN

Course learning outcomes

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



Reeshmesh

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PRASUTI TANTRA & STREE ROG (03321A, 03321B) AyUG-PS

CO	Course learning Outcomes (CO) AyUG-PS At the end of the course AyUG-PS, the student should be able to-
CO 1	Knowledge of Strisharir Vigyana, Rajo Vigyana, Garbha Vigyana, Garbhini Vigyana, Garbha Vyapada, Garbhini Vyapada, Prasava Vigyana, Prasava Vyapada, Sutikavigyana, Sutika Roga, Atyayika Chikitsa in Prasuti in detail.
CO 2	Definition, causes, Lakshan, D/D, Complication & T/T on diseases related to Stree Rog & Prasuti Vyadhi.
CO 3	Shroni mapana (Pelvic assessment).ANC Checkup. ANC P/A exam: Lie, Presentation, Position and Attitude. Placated observation.
CO 4	Preoperative, operative and postoperative management during labour procedure, Major & minor procedure complications & management.
CO 5	Basic knowledge of laparoscopy hysteroscopy, hysterosalpingography, USG, X-Ray, Colposcopy, Garbhanirodhaka upay.
CO6	Counsel the patient & relatives regarding the benefits & hazards of procedures.
CO7	Ethics; PNDT Act & MTP Act, law of adoption.
CO8	Importance of current national program.



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KAUMARBHRITYA (3322) AyUG-KB

CO	Course learning Outcomes (CO) AyUG-KB At the end of the course AyUG-KB, the student should be able to-
CO 1	Student get proper knowledge, basic concepts- terminology-principles of Pediatrics regarding age group, growth & development, vaccination, various diseases & treatment.
CO 2	Technical capabilities & skill development in procedures of resuscitation, vaccination, various process in Panchakarma, drugs preparation & administration in Pediatric age group.
CO 3	For improvement of immunity use of various a Rasayana-Dravya.
CO 4	Some specific Examination- New Born Examination. Pre -mature baby Examination & management.
CO 5	Neurological Examination in specific patient.



Deeshmish

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SHALYATANTRA (03702A, 03702B) AyUG-ST

CO	Course learning Outcomes (CO) AyUG-ST At the end of the course AyUG-ST, the student should be able to-
CO 1	Acclimatized with ancient texts i.e. Samhitas.
CO 2	Should have thorough knowledge of diagnosing surgical entities from view point of Ayurved as well as Modern surgery
CO 3	Should be able to treat the surgical entities through Ayurvedic Surgical, parasurgical as well as modern surgical techniques.
CO 4	Should be able to provide appropriate answers for complicated and challenging surgical diseases through Ayurvedic Practical knowledge.
CO 5	Should be able to practice the Marma chikitsa effectively.



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SHALAKYATANTRA (03703A, 03703B) AYUG-SKT

CO	Course learning Outcomes (CO) AyUG-SKT At the end of the course AyUG-SKT, the student should be able to-
CO 1	Knowledge capability; understanding the general principles, terminology, pathology, diagnosis, and management of Urdhwajatrugat diseases.
CO 2	Procedural skill development (various kriyakalpas like tarpan anjan, nasya etc. Minor procedures like tonometry, sac syringing, F. B. removal from conjunctiva, nose, ear and karnapuran, karnadhupan kawal gandush etc...)
CO 3	Professional work practices (demonstrating correct handling of various diagnostic and treatment equipment and instrument and maintaining a high standard of ethics, informed consent and consultation).
CO 4	Knowledge of different diagnostic ailments for differentiation and treatment of Urdhwajatrugat vyadhis.
CO 5	To inculcate the idea about specialization in Shalakyatantra in the minds of students.



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KAYACHIKITSA (03313A, 03313B) AYUG-KC

CO	Course learning Outcomes (CO) AyUG-KC At the end of the course AyUG-KC, the student should be able to-
CO 1	Work as a responsible Family Physician. To serve in State and Central Govt. Health Services.
CO 2	To create health awareness in people for prevention of various communicable and non-communicable diseases.
CO 3	To contribute in National Health Mission by his active participation. To work with various government and non-government organizations for promotion of Ayurveda.
CO 4	To work and perform effectively as a Counselor for government and non-government bodies to deal with various health issues.
CO 5	To contribute in the field of Ayurveda by virtue of research-full activity.



Reshmi

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PANCHAKARMA (03704) AyUG-PK

CO	Course learning Outcomes (CO) AyUG-PK At the end of the course AyUG-PK, the student should be able to-
CO 1	Main task – diagnosis of disease and line out the plan of treatment Sub-task- to treat the disease as per disease activity [shaman] and Panchakarma [shodhana]
CO 2	To diagnosis the disease and describe the list of Panchakarma treatment. To perform Panchakarma on various types of diseases. To demonstrate competency and solution of Panchakarma.
CO 3	To Manage vyapada [emergency]
CO 4	To describe list of physiotherapy.
CO 5	To undertake Pathya pathya sankalpna - aahara sankalpna and Vihara sankalpna.



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COURSE OUTCOME (CO) FOR ALL PG PROGRAM

AYURVED SAMHITA & SIDDHANT.

PRELIMINARY M.D. – Samhita – Siddhant (33002)

- Critical knowledge of Darshan Shastra related to Ayurved.
- Knowledge of fundamentals of Ayurveda.
- Applicability of Nyaya.
- Understand basic knowledge of manuscriptology .
- Importance and utility of Samhita in present Era.

Paper I – CHARAK Samihita (33101)

- Will get critical knowledge of Charak Samhita with its applicability.
- Study of all available common trees in Charak Samhita.

Paper II – SUSHRUT & VAGBHAT Samhita (33102)

- Will get critical knowledge of sutrasthana and sharirsthan of Sushrut Samhita.
- Will get critical knowledge of sutrasthana of Ashtang sangrah and Ashtang hriday.

Paper III – DARSHANIK SIDDHANT (33103)

- Understanding of Indian philosophical principles available in Ayurved.
- Clinical importance of Darshonokta vada related to Ayurved.
- Practical applicability of various Darshanas.

Paper IV – PRAYOGIK (33104)

- Will get comparative knowledge of samprapti and chikitsa Sutra of various diseases.
- Critical analysis and applicability of various Ayurvedic concepts.
- Knowledge of laghutrayi.

RACHANA SHARIR

Course Outcome (CO) of preliminary MD Ayurved examination
Year: Ist year, Pre MD – paper IInd Rachana Sharir Subject (33003)

Ability/Skill : Ability to understand basic Principles of Rachana Sharir.

Knowledge : Able to apply the basic Principles to the further research work.

Application : Can attain micro knowledge of Rachana Sharir.

Course Outcome –P.G. Course - Rachana Sharir

P.G. - C.O

Year: Final year - MD

Paper I – गर्भशरीरम् (33111)

Seshmush

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Ability/Skill : Ability to understand & co-relate Ayurvedic & Modern Embryological concepts of embryology.

Knowledge : Can able to get knowledge about Ayurved & Modern embryology & genetics.

Application : Can apply the knowledge to understand the various developmental anomalies & genetic disorders with reasoning.

P.G. - C.O

Paper- II कोष्ठांगे सिरा धमनी स्रोतस शरीरम् (33112)

Ability/Skill : Have ability to elaborate the basic principles like Aashaya, kala, sira, strotas, etc.

Knowledge : Can able to get detail knowledge of various complicated concepts of structure like kloma, sira, dhamni etc.

Application : Can be able to apply the knowledge of various organ disorders, function during clinical & surgical practice.

P.G.- C.O

Paper- III- मर्म अस्थि संधिपेशी शरीरम् (33113)

Ability/Skill : To understand the specific knowledge of Marma location with detail Rachana & its surgical aspect & definition of asthi, sandgi peshias per Ayurved science.

Knowledge : Can able to elaborate the concept of Marma sharir with its clinical Anatomy & Asthi, sandhi, peshi vigyan.

Application : Can apply this knowledge for the special research area like Marma chikitsa, sports injury, acupressure therapy, surgical procedure.

P.G. - C.O

Paper- IV- तंत्रशरीर अन्तर्बहिस्त्रावी ग्रंथी (33114)

Ability/Skill : Can able to elaborate various yogic concepts like ida, pingla, sushumna, shat chakras etc.

Knowledge : Can acquire knowledge to correlate Ayurvedic Tantra sharir with Modern Neuro – Anatomy.

Application : Can apply the knowledge of yogic chikitsa for various psychological & hormonal disorders.

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DRAVYAGUNA

After completion of course student of Dravyaguna will be able to work as -

- Practitioner
- Good teacher in Ayurvedic colleges
- Researcher in Pharma sector
- Farming of medicinal plant
- Trading of crude drugs
- Can set up research lab

Course outcome (CO) – MD Dravyaguna Vigyan

Year -1st year Pre MD (33005)

Ability/ Skill: Able to understand basic principle of Dravyaguna Vigyan, Pharmacognosy and Pharmacology.

Knowledge : Knowledge of Dravyaguna Vigyan, Pharmacognosy, Pharmacology , Cultivation and Collection practices of Medicinal plant .

Application: Can apply the knowledge in Drug research in Bhaishajya Prayog and ADR issues.

Year – Final year MD

Paper – 1st Namarupa Vigyan (Ayurved and Modern Pharmacognosy) (33131)

Ability/ Skill: Able to distinguishing Medicinal plants from their Morphological characters.

Knowledge: Drug standardization, quality control, tissue culture techniques, Advances Cultivation in Medicinal plant.

Application: Can apply the knowledge in Identification of Anukta Dravya and Sandigdha Dravya (Controversial Drug).

Paper – 2nd Guna Karma Vigyan (Ayurved and Modern Pharmacology) (33132)

Ability/ Skill: Able to elaborate basic principal of Dravyaguna and Modern pharmacology.

Knowledge: 1. Knowledge of Ras, Guna, Virya, Vipak, Prabhav and Karma with their applied aspect, knowledge of Aahar Varga and Kruttan Varga.

2. Knowledge of fundamental principal of Pharmacology, basic knowledge of experimental Pharmacology.

Application: Application of basic principles of Ayurved and Modern Pharmacology in treatment of patients.

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Paper – 3rd Prayog Vigyan (Pharmacotherapeutics / Clinical Pharmacology) (33133)

Ability/ Skill: To understand knowledge of therapeutic uses of Medicinal plants , principles of Drug administration.

Knowledge: knowledge of Amayik Prayog , Bhaishajya prayog siddhant , Pharmacovigilance in Ayurveda and Modern Medicine.

Application: 1. Application of Bhaishajya prayog siddhant in treatment of patient .

2. Application of knowledge of Pharmacovigilance in ADR issues.

Paper – 4th Nighantu and Yoga Vigyan (material Medica and Formulation) (33134)

Ability/ Skill: Able to understand Nighantus and their relevance .

Knowledge: Knowledge of Nighantus Ekal Auashadh kalpana , pharmacopeias of different countries and important scientific publications of various department and mysteries of government of India.

Application: 1. Application of Ekal Dravya Chikitsa in treatment of patients.

2. Application of Knowledge of Medicinal plants Nutraceuticals and cosmoceuticals.

AGADTANTRA & V.V.

Ability/Skill –

1. Able to diagnose, identify and management of Jangama , Sthavara Visha
2. Able to identify Suicidal, Homicidal, Accidental cases.

Knowledge –

1. Knowledge of Examination of poison according to ancient and contemporary methods.
2. Knowledge of Act related to Criminal matter for e.g. – Abortion.

Application –

1. Application of medical Ethics and code of conduct in practice.
2. Application of recent amended act and rule by central council and State council.
3. He should be updated with current Issues like covid-19 and other Infectious diseases.

COURSE OUTCOME (CO) –FINAL MD

Paper I: Agad Tantra (Ayurvedic and Contemporary Toxicology) (33161)

Ability/Skill-

1. Ability to understand and correlate Jangama, Sthavara, Doosh, Gara, Krittima Visha, Upavisha.
2. To differentiate Snake bite whether poisonous or non-poisonous and poisonous to poisonous.
3. Able to diagnose insect bite, Scorpion bite and rabies and various Jangama Visha.

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4. Able to diagnose poisoning with allergic manifestation like metals, non-metals, various substances like pollen grain, dust.

Knowledge –

1. Knowledge of all toxic substances according to modern science and Ayurveda.
2. Concrete fundamental toxicology.
3. Knowledge of Pharmacovigilance.
4. Knowledge of Vishajanya Janapadodhvansiya roga.

Application –

1. Application of toxic substances, formation of Ayurvedic medicine. (Purified).

Paper II: Visha Chikitsa Vigyan (33162)

Ability/Skill –

1. Ability to treat cases of poisoning due to visha like Jangama, Sthavara, Kritrima, Gara, Dooshi, Upavisha, Food poisoning.
2. Able to treat the Allergic manifestation due to metal, non-metal or other toxic substances.
3. Able to handle emergency cases.

Knowledge –

1. Knowledge of preparation of Agad kalpas; Antivenom/Antisera.
2. Knowledge of drug induced toxicity.
3. Knowledge to handle suspected case of poisoning in practice.

Application –

1. Application of Charkokta 24 Upakrama for the treatment of poisoning.

Paper III: Vyavahar Ayurved Avum Vidhi Vaidyaka (33163)

Ability/Skill –

1. Ability to differentiate MLC and non MLC.
2. Able to conduct PM.
3. Able to differentiate & analyse types of Injuries and Wounds.
4. Doctor patient relationship
5. Skilled Physician
6. Ability to handle critical cases with high precaution and quality management.
7. Able to diagnose nature of Injury.

Knowledge –

1. Knowledge of different IPC's like 320, 376, 302 etc. and acts like PNDD, MTP, IEA, etc.
2. Knowledge of negligence and their complications.

Application –

1. Application of all acts according to MLC and non MLC cases.



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Paper IV: Aushadha Yoga Vigyan (33064)

Ability/Skill –

1. Ability to prepare al type of Agada according to Granthas

Knowledge –

1. Knowledge of Pharmaceutics, pharmacology of Antidotes, Ayurvedic and Contemporary.
2. Knowledge of Chemical analysis of the viscera in FSL.
3. Knowledge of Instruments and equipments used in examination of poisoning – TLC, UV-Spectrophotometer.
4. Knowledge of clinical toxicology, toxicogenomics.
5. Knowledge to identify identity of a person.
6. Knowledge of Criminology.
7. Knowledge of Visha chikitsa sampradaya.

Application –

1. Application of Agad kalpas.
2. Use of various Analytical instruments for detection of poison.

Course Outcome: MD ROGNIDAN & VV

Pre. M.D. Rognidan (33009)

Ability/Skill:

- Skill to examine patient thoroughly.
- Skill to understand various laboratory Investigations
- Skill to perform various laboratory Investigations.

Knowledge:

- Knowledge of basic principles of Rognidan & V. V.
- Knowledge of Samprapti of various diseases explained in Ayurvedic Samhitas.
- Knowledge of current diagnostic tools like E.C.G., E.E.G., M.R.I., C.T. scan, U.S.G. etc.

Application:

- Application of basic principles of Ayurveda in diagnosis of various diseases.
- Interpretation of various laboratory investigations and Rugnapariksha.

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Course Outcome: Final year M.D. Rognidan

Paper-I (33171)

Ability/Skill:

- Skill to diagnose Patient on Ayurvedic Nidanpanchak
- Ability to understand Vyadhighatak like Aam, Agni, strotas, Dosha and Dushya in patients by examination.
- Ability to understand different stages of Samprapti.

Knowledge:

- Knowledge of basic principles of Rognidan & V. V
- Knowledge of applied aspect of Dosha, Dushya, Trayorogmarg etc.
- Knowledge of Nidan Panchak to diagnose Vyadhi.

Application:

- Application of basic principles of Rognidan & V. V. in understanding Samprapti of various diseases.
- Application of Nidanpanchak in RogBal Pariksha

Course Outcome: Final year M.D. Rognidan

Paper-II (33172)

Ability/Skill:

- Ability to understand diseases with the help of classical Samprapti
- Ability to decide Sadhyasadyata and Chikitsa sutra
- Ability to interpret Nidanpanchaka of commonly occurring diseases
- Ability to understand unexplained and newly emerging diseases
- Ability to understand geriatric diseases

Knowledge:

- Knowledge of classical Samprapti of diseases
- Knowledge of Upadrava and Arishta of diseases
- Knowledge of Sadhyasadyata of diseases
- Knowledge of concept and tools for the study of Anukta Vyadhi-unexplained and newly emerging diseases

Application

- Application of Knowledge in diagnosing diseases of different Strotasas.
- Application of Knowledge in differential diagnosis of various Vyadhis.

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- Co relation between diseases explained in Ayurveda and Modern Medicine.

Course Outcome: Final year M.D. Rognidan

Paper-III (33173)

Ability/Skill:

- Skill to examine patient on Ayurvedic and Modern parameters.
- Ability to perform all diagnostic laboratory procedures including medical emergencies.
- Ability to interpret findings of modern clinical and laboratory examination in Ayurvedic diagnosis.

Knowledge:

- Knowledge of clinical examination methods by Ayurveda as well as modern science.
- Knowledge of ancillary laboratory investigations.
- Knowledge of communicable diseases and their causative organisms.
- Knowledge of Radio imaging techniques.

Application:

- Application of Rogi Bal Pariksha and clinical examination in management of Patient.
- Application of knowledge of biomarkers in diagnosis and clinical research in Ayurveda.
- Application of knowledge of Radio imaging techniques in clinical interpretation.

Course Outcome: Final year M.D. Rognidan

Paper-IV (33174)

Ability/Skill:

- Ability to understand disease process in Bacterial, Viral and Fungal diseases.
- Skill to diagnose patients having infective diseases.
- Ability to explain Ayurvedic concepts in terms of general pathology.

Knowledge:

- Knowledge of general pathology of diseases.
- Knowledge of Janopadhwans, environmental and communicable diseases.
- Knowledge of Vyadhikshamatva and Bijadoshaj Vikara
- Knowledge of Bacteriology, Virology and Parasitology.

Application:

Reshmesh

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- Application of knowledge of General Pathology, Bacteriology, Virology and Parasitology in diagnosis & understanding of various diseases including infectious and environmental diseases.

PRASUTI TANTRA & STRI ROGA

PRELIMINARY-MS (33016)

PAPER-II

PART-A

The students will be able to understand-

1. Concept of Tridosha, Dhatu, Upadhatu, Agni, Pancha Mahabhuta in relation to Prasuti and Stri Roga.
2. Concept of Artava and Shukra.
3. Concept of Rasa, Guna, Veerya, Vipak and Karma of Dravya used in Prasuti and Stri Roga.
4. Action and adverse drug reaction related to commonly used plants and Rasa Aushadhi in Prasuti and Stri Roga.
5. Concept of Pathya- Apathya in relation to Prasuti and Stri Roga.
6. Concept of Garbhadhan and Garbha.
7. Concept of Vrana and Vrana dushti.
8. Concept of special therapies of Ayurved used in Prasuti and Stri Roga.
9. Concept of Ashtavidha Shastra Karma, Yantra & shastra used in Prasuti and Stri Roga

PART- B

1. Applied anatomy and physiology of genito-urinary system, abdomen, pelvis, pelvic floor, anterior abdominal wall, inguinal ligament, inguinal canal, vulva, rectum and anal canal.
2. Abnormal development, structure and function of female and male urogenital systems
3. Development, structure and function of placenta, umbilical cord and amniotic fluid.
4. Physiological and neuro-endocrinal changes during puberty, adolescence and menstruation.
5. Introduction of hormones related with gynaecology and obstetrics. Ovulation, fertilization, climacteric and menopause. Biophysical and biochemical changes in uterus and cervix during pregnancy and labour.
6. Pre-natal, Natal and Post natal counseling and examination.
7. Pharmacological study of drugs used in gynaecology and obstetrics.
8. Knowledge of diagnostic techniques used in gynaecology and obstetrics.
9. Basic Knowledge of pathological and biochemical investigation used in gynaecology and obstetrics.
10. Ethics, law and Acts Related to gynecology and obstetrics – laws of abortion and adoption.
11. Knowledge of contraception and sterilization procedures.
12. Pre-operative and post-operative care in gynecology and obstetrics.

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COURSE OUTCOME (CO)

FINAL-MS PAPER-I (33231) GARBHA-GARBHINI VIGYANA

The student will be able to understand -

1. The applied anatomy and physiology of female and male urogenital system.
2. Fundamentals of reproduction.
3. Fetal growth and development.
4. Genetic, birth defects and other teratogenic abnormalities.
5. Normal and abnormal pregnancy.
6. Garbhini paricharya and antenatal care.
7. Garbha vyapada and garbhini updrava.
8. Prenatal diagnosis of fetal abnormalities and appropriate care.
9. Medicolegal acts like- MTP, PCPNDT, ADOPTION ACT.

PAPER-II (33232) PRASAVA VIGYANA

The student will be able to understand -

1. Prakrut prasava and krutrim prasava.
2. Prasava avastha evam paricharya.
3. Prasava vyapada.
4. Complications of different stages of labour.
5. Obstetric management of high-risk pregnancies.
6. Still birth and fetal distress – diagnosis, complications and management.
7. Jatamatra/ navajata shishu paricharya.
8. Sutika paricharya and sutika roga.
9. Obstetric shock and management.

PAPER-III (33233) STRI ROGA VIGYANA

The student will be able to understand -

1. Disorders of menstruation and female reproductive system.
2. Yonivyapada.
3. Vandhyatava.
4. Examination of breast, diagnosis and treatment of different breast diseases.
5. Measures of contraception- ayurvedic and modern.
6. Sthanika chikitsa.

Dr. Suresh
Principal

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7. Rajonivrutti- ayurvedic and modern.
8. Modern diagnostic technologies and investigations.
9. Panchakarma and yoga in stri roga.

PAPER-IV (33234)

PRASUTI TANTRA-STREE ROGA- SHALYA KARMA

The student will be able to understand –

1. General principles of gynaecological and obstetrical surgeries.
2. Suture materials and suturing methods.
3. Autoclaving and sterilization.
4. Analgesia and anaesthesia in obstetrics and gynaecology.
5. Obstetric operatives.
6. Gynaecological operatives.
7. Record keeping- ethical and legal issues involved in obstetrics and gynaecology.
8. Emergency care in obstetrics and gynaecology.

KAUMABHRITYA

Year – Preliminary M.D. (33006)

Ability/ Skill

- Ayurvedic and modern clinical methods of examination of healthy And diseased new born and children.
- Ayurvedic and modern concepts of drug doses, administration, Distribution, excretion and other important factors of consideration

Knowledge

- Strength of Ayurveda specific to child health care
- Knowledge of modern diagnostic tools like clinical and laboratory
- Investigations. X-ray, USG, MRI etc National programs related to pediatric

Application

- clinical application of Ayurved chikitsa like dhupana balraksh Karma, single drug uses

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- Methods of peperation of various specific kalpana(leha,syrup common instruments and their application in new born care

Course Outcome (CO) Kaumarbhitya Department

Subject – Kaumabhritya Tantra

Year – Final M.D.

Paper – 1 Kaumarbhritya-Baloga (33201)

Ability/ Skill

- Ability to understand human genetics chromosomal Abnormality,disorders

Knowledge

- Fetal development in utero circulation pre natal care And perinatal comlications

Application

- prenatal diagnosis genetic counseling

Paper – II Navjata shishu vigyana evam poshana (33202)

Ability/ Skill

- General neonatal care, management of pre-term,post term IUGR

- Intubation resucsitation

Knowledge

- new born examination,management of neonatal emergencies

Application

- collecton of blood sample ,intravenous canalization,lumber puncture umblical vein catheterization,naso gastric tube insertion,exchange blood transfusion,neonatal resuscitation procedure like shiro pichu,parisheka

Paper – III Balroga(pediatric disorders) (33203)

Ability/ Skill

- ability to understand disorders of strotasa,infectous diseases
- nutrional disorders,other miscellaneous disease like dog bite snake bite etcc

Knowledge

- scientific study of balgraha,pediatric emergency management

Application

- fluid and electrolyte management,foign body aspiration status
- Asthamaticus management,acute hemorrhage,acute renal failure management

Reshman
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Paper – IV Balposhana samvardhana (Nutrition,growth And development (33204)

Ability/ Skill

- vaccination

Knowledge

- lehan rasayan nutrition

Application :

SHALYATANTRA

PRE- M.S. (33017)

- Get the knowledge of shalyatantra including modern and ancient surgical techniques.
- Get the knowledge of Sushrut samhita in details.
- Introduction of clinical and diagnostic methods in Shalya Tantra- X-rays, U.S.G., Endoscopies (for diagnostic and treatment purposes), MRI, CAT scanning and other recent diagnostic tools.
- Knowledge of life saving drugs.
- Emergency conditions and its management.
- Get the knowledge about Surgical instruments- and recent advances, uses.
- Knowledge about Sterilization for instruments and regarding operation theatre .
- Basic knowledge of Anaesthesia for different types of anaesthesia according to surgery.
- Parasurgical procedure's knowledge like Kshar Sutra, Agnikarma and Raktamokshana and its utility in various disease.
- Surgical cases- observation/ performing.

FINAL M. S.

Paper 1-Knowledge about Fundamentals of surgery (33241)

- Sushruta's contribution in surgical concepts and utilization in practices.
- Knowledge about Surgical infections like Sepsis, Tetanus and Gas gangrene.
- Care of patient suffering from Hepatitis, HIV-AIDS, STD and other associated infectious diseases.
- 4-Get the knowledge about Shock, Haemorrhage and It's management.
- 5-Knowledge about Blood transfusion.
- 7- Knowledge of Fluid, electrolyte, Acid Base balance and nutrition and its utility in therapy.
- 8- Knowledge of antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.

PAPER-2 Knowledge of Shalyatantra Speciality (33242)

- Practical and experimental training.

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Ayurved Mahavidyalaya & Rugnalaya,
Kanchanwadi, Chhatrapati Sambhajinagar



Address : Kanchanwadi, Paithan Road, Chhatrapati Sambhajinagar- 431 011. (M.S.) कांचनवाडी, पैठण रोड, छत्रपती संभाजीनगर - ४३१ ०११ (एम.एस.)

Tel.: (0240) 2379248, 2646464, 2379035 Fax : (0240) 2646222.

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Estd : 1989
NCISM College Code : AYU0153
MUHS College Code : 3401

NAAC ACCREDITED WITH B++, NABH & ISO 21001:2018 CERTIFIED

छत्रपती शाहू महाराज शिक्षण संस्था संचलित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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



- Get the knowledge of Wound management.
- Ayurvedic urology gives knowledge to students about various urological diseases like Renal calculi, urethral stricture and its management.
- Ayurvedic Orthopaedics gives the knowlwdge about various orthopaedic diseases and its management.

PAPER-3 Knowledge of Modern Surgery (33243)

- It gives the knowledge about Fundamental of modern surgery and treatment of surgical disorders .
- Diagnosis and surgical treatment of head and spine injury, thoracic and abdominal trauma. Blast injuries and management.
- Diagnosis and surgical management of neck disorders, breast diseases , diseases of Gastrointestinal system, Hepatobiliary system, Hernias.
- 7- Diagnosis and surgical measures for disorder of artery, veins, ligaments, muscles and tendons.
- 9- Get the knowledge about Endoscopic procedures like oesophsgogstrodenoscopy, sigmoidoscopy and colonoscopy.
- 10- Knowledge of laproscopic procedures for diagnostic and therapeutic purpose.

PAPER -4 Knowledge of Shalya literature, research and development (33244)

- Knowledge about Sushrut Samhita and relevant portions of shalyatantra in various ancient texts like Brihatrayee and Laghutrayee.
- Knowledge and importance of Surgical Audit that will be useful for management of surgical hospital.
- Knowledge of Medico legal issues will be helpful for safe clinical practice.
- Knowledge of Surgical ethics including informed consent.
- As Sushruta is father of surgery and pioneer of Plastic reconstructive and cosmetic surgery, it will helpful for students to practice various plastic reconstructive and cosmetic surgeries.

KAYACHIKITSA (GENERAL MEDICINE)

Course Outcome (CO) of preliminary MD Ayurved examination

Year: 1st year,

PRE MD – PAPER IIND KAYACHIKITSA SUB

To have thorough knowledge of Fundamentals of Kayachikitsa

- To be able to perform Rogi-Roga Pariksha in Ayurved and Modern perspectives with the help of modern diagnostic parameters.

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- To be able to perform samanya and vishesh roga chikitsa including application of advances in Rasayana and Vajikarana therapies and emerging trends in Panchakarma in various disease management
- To have knowledge of Critical care medicine, Management of medical emergencies, ICU services, Field medical services
- To have thorough knowledge of other systems of AYUSH.
- Basic Knowledge of Underlying principles of various advanced diagnostic methods.
- To have knowledge of common ayurvedic formulations and preparations used in various diseases management.

Course Outcome –P.G. Course - Kayachikitsa P.G. - C.O Year: Final year - MD

PAPER I – FUNDAMENTALS OF KAYACHIKITSA

- Should recognize the importance of Basic Principles of Kayachikitsa in the context of diagnosis, prognosis, management and treatment of the patient & should be able to generate data for documentation.
- To be able to participate in National Health Programmes and recognize prospective role of Ayurveda services and therapeutics in them.
- To be able to perform common medical procedures for handling various emergency conditions
- Able to highlight various aspect of pathya, apathya and anuppana while treating in various diseases.

P.G. - C.O

PAPER- II SAMANYA ROG CHIKITSA

- Should be able to carry out quick assessment of patient on the basis of available clinical and investigational information as well as socio-economic and emotional determinants and its efficient management.
- Should be able to Plan and advice measures for the prevention and rehabilitation of patients suffering from diseases and disability related to the specialty.
- Should be able to nidana and chikitsa including Nidana parivarjan pathya, apathy, chikitsa siddhanta, shaman, shodhana, panchakarma,, Rasayan and atyayik chikitsa as pper ayurvedic and conventional therapeutics.

P.G. - C.O

PAPER- III- VISHISHTA ROGA CHIKITSA

- Able to obtain comprehensive knowledge of nidana panchak i.e. etiology, pathogenesis and symptomatology.
- Able to obtain knowledge about complications, investigations, diagnosis and drug/non drug management of various diseases as per ayurvedic and modern aspects.
- Able to obtain knowledge about autoimmune disorders, neoplastic disorders, metabolic disorders and role of Ayurvedic medicines in treating them.

[Signature]
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PANCHAKARMA

CO (Pre MD) (33010)

- Principle of chikitsa
- Kriya Kaal – Dwividha and shadvidha upakrama.
- Applied aspects of Anatomy & Physiology of System viz. Respiratory, Circulatory etc
- Antah Parimarjan & Bahir Parimarjan Chikitsa
- Knowledge about Quality standard eg: -NABH and Eco friendly Panchakarma theatre.

C O Final MD

Paper 1st (33221)

- Basic Concept of Pancha shodhana.
- Sneha Kalpana & its parameters.
- Swedana Kalpana

Paper 2nd (33222)

- Vamana procedure and concept
- Virechana Procedure & Concept.
- Dietary Measures (Samsarjana krama and tarpanadi krama)


Paper 3rd (33223)

- Basti sankalapana
- Nasya sankalapana
- Applied Anatomy & Various types of Nasya & its use in systemic disorders.
- Pariharya Vishay

IV-Paper (33224)

- Disease wise Panchakarma
- Raktamokshana - Concepts & types
- Physiotherapy
- Disease wise Physiotherapy




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