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Course Outcomes for all Courses UG & PG

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Course Outcomes for all courses

DEPARTMENT OF SAMHITA SIDDHANT

SANSKRIT (03121A, 03121B)

- Will get basic knowledge of Sanskrit language.
- Application of Sanskrit for reading and understanding Ayurved Granthas profoundly.

PADARTHA VIDNYAN EVUM AYURVED ITHAS (03122A, 03122B)

- Understand fundamental concepts of Ayurveda.
- Understand Indian philosophy and its correlation with Ayurveda.
- Will get knowledge of Ayurved History.

MAULIK SIDDHANTA EVUM ASTANG HRIDAYA (3133)

- Understand fundamental concepts of Ayurveda.
- Will get knowledge of Astang Ayurveda.
- Will get knowledge of Tantrayukti to understand shastra.
- Will understand preventive and curative measures in Ayurvedic chikitsa.

CHARAK SAMHITA PURVARDHA (3234)

- Will get knowledge of Triskandha Ayurveda (Etiology, symptomology & therapeutics)
- Will perceive learning & teaching procedures

CHARAK SAMHITA UTTARARDHA (3325)

- Thorough knowledge of Ayurved chikitsa (shaman, shodhan, Rasayan, vajikaran etc.)
- Therapeutic detail knowledge of Vaman, virechan dravya.
- Proper knowledge of successful panchakarma treatment

RACHANA SHARIR (03134A, 03134B)

- Knowledge capability (understanding the general principles, terminologies & basic concepts of Ayurvedic and Modern Anatomy which will serve as a foundation for the knowledge of Human Anatomy).
- Surgical skill development (with the help of Cadaveric dissection).
- Professional application of the knowledge for Diagnostic purpose (with the help of Surface marking & Radiological anatomy).
- Correlate the basic principles & terminologies of Rachana Sharir with Modern human anatomy.

Apply the basic knowledge and modern techniques (like Plastination, Mounting technology) for the preparation of various specimens.





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KRIYA SHARIR (03135A, 03135B)

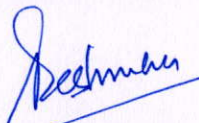
- Kriya Sharir course can be the gateway to a gratifying career in host of health related profession.
- Kriya Sharir subject provides a strong foundation for understanding the complexities of the human body.
- Kriya Sharir subject provides organization of the human body to understand the structural and functional level of body from molecules to organ systems.
- Principle of support and movement analyses the Kriya Sharir of bones, joint and muscles.
- Control systems of the body emphasizes the importance of neural communication in the immediate maintenance of homeostasis.
- Maintenance of the human body explains how body systems function to maintain homeostasis on a moment to moment basis through the processes of circulation, respiration, digestion, cellular metabolism, urinary function and buffer system.
- Physical exercise can produce favorable change in some anatomical structures and enhance many physiological functions hence we know about of exercise as per need.
- Precaution is better than cure, is the first line of treatment maintain the health is ease with knowledge of physiology.
- For diagnosis of disease- the ease condition of person is not in normal wellbeing with the knowledge of normal functioning of the body.
- The quantity of doses of medicines is variable according to Ayurvedic basis concepts.
- For diet planning according to disease as well as physical health.
- For increasing mental, physical health and spiritual health.
- For anti-ageing or Anti-oxidant therapy the knowledge of Kriya Sharir is very helpful;.
- To develop approach a vision regarding Ayurvedic practice.

DRAVYAGUNA VIGYAN (03231A, 03231B)

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




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RAS SHASTRA AND B.K (03232A, 03232B)

- Knowledge of general principal of Ras Shastra and Bhaishajya kalpana
- Identity and explain the raw material.
- Demonstrate and understanding of the scientific method and use of ayurvedic formulations (Rasa Aushadhi & Kasta Ausahadhi)
- Explain different type of prepration of ayurvedic formulation
- Knowledge of minerals , precious stones, metals ,its purification calcination in details.
- Knowledge of standardization
- Knowledge of drug dosage, shelf life of ayurvedic formulations.

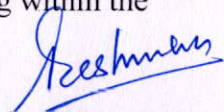
SWASTHAVRITTA: (03224A, 03224B)

- BY THE END OF COURSE, STUDENTS WILL GET FOLLOWING PROFICIENCIES.
- Understanding the dimensions of health in relation with preventive ideology of Dinacharya in Swasthavritta and yoga.
- Technical capabilities---
- Developing skill of performing various shatkarmas and yoga and correlating it with clinical applications for betterment of health.
- Knowing the basics of Ayurvedic dietetics and its application to maintain health status in healthy and diseased individuals as well.
- To know the detailed aspect of epidemiology and applying for it for serving the society.
- To develop communication skill in students to provide clinical care within professional limits.

AGAD TANTRA & V.V. (03233)

- 1) Demonstrate competency in the collection ,processing ,analyses evaluation of evidences
 - i) TOXICOLOGY – identification of poisonous plants/substances ,symptoms of poisoning ,diagnosis, general line of treatment , fatal dose , period & MLA ,emergency management of poisoning . application of 24 treatment modalities as state in ancient texts.
 - ii) Preparation Of Agad Kalpas-knowledge of pratvish and its preparation ,allergic manifestation .
 - iii) Visha parikshan (according to ancient texts , panchbhautik parikshan)
 - iv) Detail knowledge about vishajanyajanapadhodhvansavyadhi.
- 2) Demonstrate competency in the principle of crime scenes including the recognition , preservation, collection, identification, of physical evidence.
- 3) Demonstrate an understanding of the scientific method &use of problem solving within the field of forensic science.




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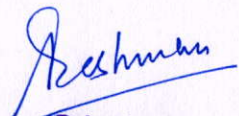
- 4) Identify and examine current & emerging concept and practices within the field of forensic science.
- 5) Able to judge the type of injury ,severity ,age of injury for the purpose of escape of innocent person and trap the guilty person in front of the court.
- 6) Develope competency in physician regarding medical evidence ,procedure ,precaution ,& record keeping.
- 7) competant and able to decide negligence.
- 8) competent to settle indemnity insurance

ROGNIDAN (03223A, 03223B)

- Knowledge capability (understanding the general principles, terminology, diagnostic procedures, and basic concepts of pathology, which will serve as a foundation for the study of systemic pathology).
- Technical capability (identifying pathological processes at the cellular and gross anatomical level and correlating these with the clinical symptoms and signs).
- Professional work practices (demonstrating correct handling and disposal of biological materials and maintaining a high standard of ethics, informed consent and consultation).
- Relate the general principles, terminology and modes of spread of disease to the study of systemic pathology.
- Apply a basic understanding of histopathology and morbid anatomy to the examination of microscopic sections and gross specimens, respectively, displaying pathological processes.
- Apply the diagnostic procedure in pathology, through introduction of the differential diagnostic methods at the clinical level.
- Correlate basic disease states studied at a cellular and gross anatomical level with the overt clinical signs and symptoms seen in those disorders.
- Relate ways in which pathology contributes to the understanding of patient presentation in a clinical setting.

PRASUTI TANTRA & STREE ROG (03321A, 03321B)

- Able to do independent private practice.
- Able to give/appear for competitive exam as well as entrance exam of PG & Ph.D.
- Able to work as a medical effect at Phc, rural area etc.
- Able to work in social health services.
- Able to work in private companies.
- Able to work in research area.
- Able to work in manage emergency.
- Able to take PTS history, investigation routine as well as special (like Pap smear, Needle as per biopsy etc), preventive as well as curative T/T.
- Able to prevention of recurrence.
- Able to counsel the PT.



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- Able to use appropriate tools in diagnosis.
- Able to do progress in science & technology.
- Able to do work in academic section.

*** Course Outcome (Knowledge) :-**

- 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.
- Knowledge of Artava Vyapada, Yoni Vyapada, Shukra Vigyana Vandhyatva, Stana Roga, Sthanik Chikitsa, Shashtra in detail.
- Applied Anatomy for perfect surgery.
- Definition, causes, Lakshan, D/D, Complication & T/T on diseases related to Stree Rog & Prasuti Vyadhi.

*** Course Outcome Skill :-**

- Shroni mapana (Pelvic assessment).
- ANC Checkup.
- ANC P/A exam: Lie, Presentation, Position and Attitude.
- Placated observation.
- Management of APH; PPH.
- Pumsavana Vidhi.
- Preoperative, operative and postoperative management during labour procedure, Major & minor procedure complications & management.
- Maintain Partogram.
- Jatamatraparicharya. (Care & resuscitation of new born).
- Emergency care in obstetrics.
- ART = Assisted Reproductive Technology. Practical knowledge of performing.
- Sthanik Chikitsa & panchakarma in stree roga.
- Basic knowledge of laparoscopy hysteroscopy, hysterosalpingography, USG, X-Ray, Colposcopy, Garbhanirodhaka upay.
- Identification, uses, demonstration of surgical instruments & methods of Sterilization.

*** Course Outcome Attitude:-**

- Counsel the patient & relatives regarding the benefits & hazards of procedures.
- Counsel the Patient & relative about complication, benefits of discuses.
- Importance of MCH.
- Ethics; PNDT Act & MTP Act, law of adoption.
- Advice on parivar niyojan reproductive child health care.
- AIDS / HIV control programme.
- Importance of current national programme.



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KAUMARBHRITYA (3322)

- Student get proper knowledge, basic concepts- terminology-principles of Pediatrics regarding age group, growth & development, vaccination, various diseases & treatment.
- Technical capabilities & skill development in procedures of resuscitation, vaccination, various process in Panchakarma, drugs preparation & administration in Pediatric age group.
- For improvement of immunity use of various a Rasayana-Dravya.
- Some specific Examination-
 - New Born Examination.
 - Pre –mature baby Examination & management.
 - Neurological Examination in specific patient.


SHALYATANTRA (03702A, 03702B)

- Graduate and Post Graduates should be well acclimatized with ancient texts i.e. Samhitas.
- Should have thorough knowledge of diagnosing surgical entities from view point of Ayurved as well as Modern surgery.
- Should be able to treat the Surgical entities through Ayurvedic Surgical, parasurgical as well as modern surgical techniques.
- Post graduates should be able to run training centers for Special Surgical skills.
- Should be able to provide appropriate answers for complicated and challenging surgical diseases through Ayurvedic Practical knowledge.
- Should be able to practice the Marma chikitsa effectively.

SHALAKYATANTRA (03703A, 03703B)

- Knowledge capability (understanding the general principles, terminology, pathology, diagnosis, and management of Urdhwajatrugat diseases.
- 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..)
- 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).
- Knowledge of different diagnostic ailments for differentiation and treatment of Urdhwajatrugat vyadhis.
- To inculcate the idea about specialization in shalakyatantra in the minds of students.




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KAYACHIKITSA (03313A, 03313B)

After completion of Fourth Professional Level of BAMS course the student will be able -

- Work as a responsible Family Physician.
- To serve in State and Central Govt. Health Services.
- To pursue his post graduate studies.
- To create health awareness in people for prevention of various communicable and non-communicable diseases.
- To contribute in National Health Mission by his active participation.
- To work with various government and non-government organizations for promotion of Ayurveda.
- To work and perform effectively as a Counselor for government and non-government bodies to deal with various health issues.
- To contribute in the field of Ayurveda by virtue of research-full activity.

PANCHAKARMA (03704)

- 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]
- 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.
- To Manage vyapada [emergency]
- To describe physiotherapy.
- To describe list of physiotherapy.
- To describe tools and equipment of physiotherapy
- To undertake Pathya pathya sankalpana - aahara sankalpana and Vihara sankalpana.



Prakash

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COURSE OUTCOME (CO) FOR ALL PG PROGRAMME

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 Subject

P.G. - C.O

Year: Final year - MD

Paper I – गर्भशारीरम् (33111)

Ability/Skill : Ability to understand & co-relate Ayurvedic & Modern

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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, strota, 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 vigan.

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 अन्तबहिर्स्त्रीवी 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.

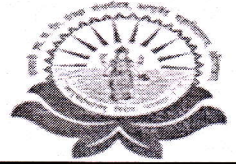
Paper – 3rd Prayog Vigyan (Pharmacotherapeutics / Clinical Pharmacology) (33133)




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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, Dooshi, Gara, Kritrima 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.

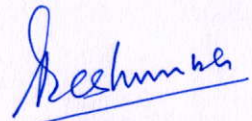
Knowledge –

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

Application –

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

Paper IV: Aushadha Yoga Vigyan (33064)



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Ability/Skill –

1. Ability to prepare all 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.

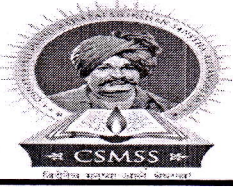
Application:

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

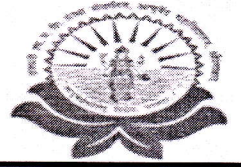


Reshmi

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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 Sadhyasadhyata 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 Sadhyasadhyata of diseases
- Knowledge of concept and tools for the study of Anukta Vyadhi-unexplained and newly emerging diseases

Application:

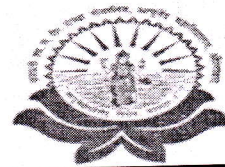
- Application of Knowledge in diagnosing diseases of different Strotasas.
- Application of Knowledge in differential diagnosis of various Vyadhis .
- Co relation between diseases explained in Ayurveda and Modern Medicine.




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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:

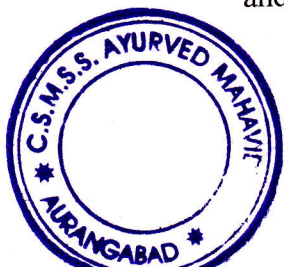
- Ability to understand disease process in Bacterial, Viral and Fungal diseases.
- Skill to diagnose patients having infective diseases.
- Ability to explain Ayurvedic concepts in terms of general pathology.


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:

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




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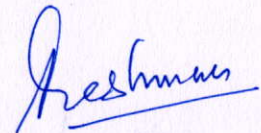
PRASUTI TANTRA & STRI ROGA
PRELIMINARY-MS (33016)
PAPER-II
PART-A

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 gynaecology and obstetrics – laws of abortion and adoption.
11. Knowledge of contraception and sterilization procedures.
12. Pre-operative and post operative care in gynaecology 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.

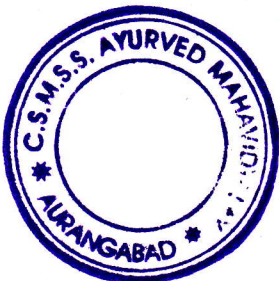
PAPER-III (33233)

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

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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 Ayurvedaspecific 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 balrakshKarma,single drug uses
- 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

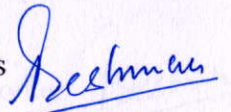
- Ability to understand human genetics chromosomal Abnormality,disorders

Knowledge

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

Application

- Prenatal diagnosis genetic counseling



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Paper – II Navjata shishu vigyana evam poshana (33202)

Ability/ Skill

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

Knowledge

- new born examination, management of neonatal emergencies

Application

- collection of blood sample, intravenous canalization, lumbar puncture, umbilical 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, infectious diseases
- nutritional disorders, other miscellaneous disease like dog bite snake bite etc

Knowledge

- scientific study of balgraha, pediatric emergency management

Application

- fluid and electrolyte management, foreign body aspiration status
- Asthmaticus management, acute hemorrhage, acute renal failure management

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

Ability/ Skill

- vaccination

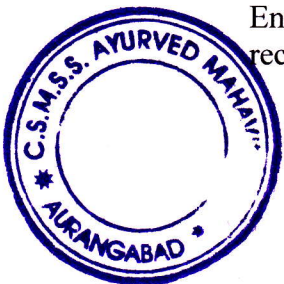
Knowledge

- 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.

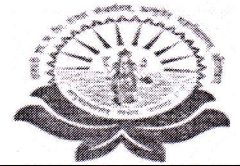




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- Knowledge of life saving drugs.
- Emergency conditions and its management.
- Get the knowledge about Surgical instruments- and recent advances, uses.
- Knowledge about Sterilization for instruments and regarding operation theatre .
- Basic knowledge 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.
- 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 oesophgogstroduodenoscopy, sigmoidoscopy and colonoscopy.
- 10- Knowledge of laproscopic procedures for diagnostic and therapeutic purpose.





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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 be 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 SUBJECT

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.
- 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 Subject

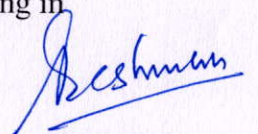
P.G. - C.O

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.





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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 parivarjana pathya, apathy, chikitsa siddhanta, shaman, shodhana, panchakarma,, Rasayan and atyayik chikitsa as per 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.

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 Parimarjana & Bahir Parimarjana Chikitsa
- Knowledge about Quality standard eg: -NABH and Eco friendly Panchakarma theatre.

C O Final MD

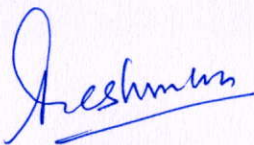
***Paper 1st* (33221)**

- 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)





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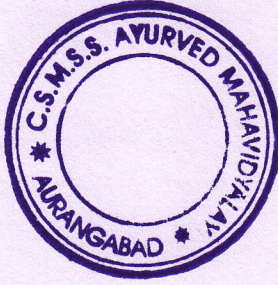


***Paper 3rd* (33223)**

- 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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