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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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### ANNUAL TEACHING PLAN (ATP) FOR THEORY FINAL M.S.

YEAR:2023-24

#### 1 DR. B. N. GADVE

1. Thorough study of the Sushruta Samhita including other relevant portions of Brihatrayee and Laghutrayee.
2. Knowledge and importance of Surgical Audit and Research.
3. Medico legal issues – Understanding the implications of acts of omission and commission in practice. Issues regarding Consumer Protection Act, medical profession, national health policy - Implications in a medico-legal case like accidents, assaults etc.
4. Surgical ethics including Informed consent.
5. Yogya Vidhi – Practical and Experimental training on different types of Surgical Models for Research in Surgery.
6. 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.
7. Concept of Sandhana Karma – Plastic reconstructive and cosmetic surgery. Fundamentals of Sandhana Karma –
  - i. Karna Sandhana – Auroplasty
  - ii. Nasa Sandhana – Rhinoplasty
  - iii. Oostasandhana – Cheiloplasty
  - iv. Grafts and Flaps – Techniques and applications.
  - v. Vascular anastomosis and grafts.
8. Recent development on Sushruta's surgical principles and practices.

#### MUTRA ROGA – UROLOGY

1. Anatomical and physiological knowledge of kidney, ureter, urinary bladder, prostate, seminal vesicles, urethra and penis.
2. Investigations of Mutravaha Srotas – Urinary tract.
3. Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and management of Āshmari – Urinary stone diseases.
4. Kidney and ureter – Clinical presentation, Investigations and Management

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Tel.: (0240) 2379246, 2646464, 2379035 Fax : (0240) 2646222.

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H.O.D. & Professor  
Dept. of Shalya Tantra  
Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



*[Signature]*

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
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of Congenital anomalies, Trauma, Infection, Neoplasm, Hydronephrosis, Hydroureter and Haematuria.

5. Urinary bladder - Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Neoplasm, Diverticulum, Vesico-vaginal fistula,
6. Atony, Schistosomiasis, Urinary diversions, Retention of urine – Mutraghata and Mutrakruccha.
7. Urethra - Clinical presentation, Investigations and Management of Congenital anomalies – Hypospadias, Epispadias, Posterior urethral valve, Trauma, Infection, and Neoplasm.
8. Prostate and seminal vesicles – Benign and malignant enlargement of prostate, Prostatitis, Prostatic abscess and Calculi.
9. Penis – Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Phimosis, Paraphimosis, Peyronie's disease and Neoplasm.
10. Testis and scrotum-Clinical presentation, Investigations and Management of Congenital anomalies, Ectopic testis, Trauma, Infection, Neoplasm, Testicular torsion, Hydrocele, Varicocele, Spermatocele, Chylocele, Pyocele, Haematocele, Epididymal cyst and Fournier's gangrene.
11. Renal failure – Causes, Diagnosis, Investigations and Management.

DR. R. N. GUNDRE

PAPER – II - SHALYA TANTRA  
VIGYAN

1. Vrana – Wound management
  - i. Management of Nija Vrana, Dushta Vrana and Nadi Vrana.
  - ii. Vrana Chikitsa – Shasti upakramas, Pathya-apathya.
  - iii. Wound and Ulcer.
  - iv. Dagdha Vrana – Burns, scalds, Dhumopaghata, Ushnavata, Frost bite, electric burns and their management.
  - v. Prameha Pidaka – Diabetic carbuncle, Diabetic wound and its management.
  - vi. Kotha – Gangrene and Principles of Amputation.

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- vii. Sadyo Vrana - Traumatic wounds – Nidana, Prakara, Lakshana, Upadrava and Chikitsa, Bites and stings and its management.
2. Pranasta Shalya – Diagnosis and management.
3. Vranashopha-Inflammation, Vidradhi – Abscesses and Pidika – Boils.
4. Granthi – Cyst and Arbuda – Benign and malignant Neoplasm.
5. Bhagna - Classification, Clinical features, Complications and Management.
6. Sandimoksha – Classification, Clinical features, Complications and Management.
7. Udara Roga - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.
8. Gulma Roga - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
9. Shoola vyadhi - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
10. Diseases of Rectum and Anal Canal – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Arshas, Parikartika, Bhagandara, Guda Vidradi, Gudabhramsa and Sanniruddaguda.
11. Ashmari - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.
12. Mutraghata and Mutrakrichhra - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.
13. Niruddhaprakasha - Phimosis, Parivartika – Paraphimosis and Avapatika - Prepucealulcer.
14. Vriddhi Roga - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.

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Principal  
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### PAPER – IV - SPECIALITY NO-02

#### ASTHI SANDHI EVAM MARMA VIGYAN – ORTHOPAEDICS

1. Asthi Sharira - Etymology, Embryology, Applied Anatomy and Physiology of Asthi. Its Panchbhautik constitution, Poshan (Nutrition), Asthivaha Srotas, Upadhatu and Mala. Total Number and classification of Asthi. Concept of Dhatwagni in Ayurveda. Asthi Dhatu Kshaya and Vriddhi lakshana. Knowledge about Tarunasthi. Embryology, Ossification, Histology, Metabolism, Blood Supply, Types and Biomechanics of Bone and cartilage.
2. Healing mechanism of bone and factors influencing the bone healing according to Ayurvedic and Modern concept. Biological and Biophysical technologies for the Enhancement of Fracture Repair. Knowledge of Sandhaniya and Ropaniya drugs.
3. Sandhi Sharira – Classification, Applied Anatomy and Physiology of Asthi Sandhi. Classification, Applied Anatomy and Physiology of Joints and Healing Mechanism of a joint.
4. Knowledge of Splints, Orthotics & Prosthetics.
5. Knowledge of Orthopedic implants (*e.g. wires, screws, plates, nails*) and Instruments. Knowledge of equipments (*e.g. C-arm image intensifier and drill machines etc*).
6. Concept of Pain according to Ayurved and Modern Medical science.
7. Principles of Reconstruction, Transplantation, Bone grafting, Bone Banking, Bone transportation and Amputation.
8. Vata Vikara – Asthi, Sandhi and Marma related Vata Vikara like Gridhrasi, Bisvachi, Avabahuka, Manyastambha, Khalvi, Dhatugata vata, Snayugata vata, Katishoola, Katigraha.
9. Diseases pertaining to Muscles, Tendons, Ligaments, Fascia and Bursae.
10. Diseases and Congenital anomalies of Spine e.g. Ankylosing spondylitis, Infective conditions, Tuberculosis, Spondylolisthesis, Inter-vertebral Disc Prolapse, Spondylosis, Scoliosis, Kyphosis, spina bifida, Hemivertebra, Block vertebra, Sacralisation and Lumbrisation.

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H.O.D. & Professor  
Dept. of Shalya Tantra

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



*Jeshmab*

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
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11. Diseases and Congenital anomalies of Cervical Spine
12. Diseases and Congenital anomalies Sacroiliac Joint and Bony Pelvis.
13. Diseases and Congenital anomalies of Hand.
14. Diseases and Congenital anomalies of Foot.
15. Diseases and Congenital anomalies of Limbs.
16. Orthopedic Neurological Disorders. Post Polio Paralysis & Cerebral Palsy.
17. Snehana, Swedana and Panchakarma in Marma, Asthi and Sandhi Vyadhi.
18. Yogic Practices in Orthopedics.
19. Principles of Arthroplasty- Joint Replacement.
20. Introduction of Peripheral Vascular Diseases.
21. Bhagna - Etiology, classification and General Management principles and Prognosis.
22. Modern concept of Bone and Joint injuries - Etiology, Epidemiology, Classification and General management principles.

23. Individual Bone and Joint injuries - Etiology, Epidemiology, Classification and management principles.
24. External immobilization techniques - Classical and traditional Kusha -splints, Plaster of Paris Technique, Knowledge of different splints and Plasters.
25. Pathological Fractures including Fragility fractures, Stress Fractures and Peri- prosthetic Fractures.
26. Fractures in Children – Etiology, Epidemiology, Diagnosis, management and complications.
27. Prognosis of skeletal injuries, Complications of Fractures and Joint Injuries e.g. Myositis ossificans, Volkman's ischemic contracture, Compartment syndrome, Crush Syndrome, DVT, Thromboembolism, Fat Embolism.
28. Rehabilitation of trauma patient and Principles of Sukhchestaprachara - Physiotherapy and its use in skeletal injuries.
29. Treatment Principles of Asahanta Bhagna - Non-unions, Vishmolvana Sahanta - Malunions and Ignored or un-reduced dislocations.
30. Diagnosis and management principles of injuries of Vessels, Nerves, Tendons and Ligaments.
31. Head, Chest and Abdominal Injuries and management principles.
32. Pelvis and Spine injuries and their management principles.
33. Sports medicine and sports injures – Sports medicine and sports related

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Dept. of Shalya Tantra

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



*Reshmas*  
Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
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Shoulder injuries, Elbow injuries, Knee injuries, Ankle Injuries, Recurrent Dislocations and other sports related injuries.

34. Knowledge of Conventional and advanced procedures being done for Different Bone and Joint Injuries e.g. Open Reduction and Internal Fixation, Closed Reduction and Internal Fixation, External fixators and other operative techniques.
35. Knowledge of Plastic Surgery in orthopedics and Bone grafting techniques.
36. Knowledge of various surgical procedures being done for Different Bone and Joint Diseases.
37. Hand Surgery for Diseases, Deformities and Injuries.
38. Foot Surgery for Diseases, Deformities and Injuries.
39. Amputations and Arthrodesis – General Principles of Amputations / Arthrodesis and regional Amputations.
40. Knowledge of Diagnostic and Therapeutic Arthroscopy.

*[Signature]*  
Prof. Dr. Professor  
Dept. of Shalya Tantra  
Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



*[Signature]*

Principal

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DR. S. V. MORE

### PAPER – III - ADHUNIK SHALYA KARMA - MODERN SURGERY

1. Fundamentals of modern surgery and treatment of surgical disorders including surgical anatomy, physiology and pathology.
2. Diagnosis and Surgical treatment of head and spine injury, thoracic trauma and abdominal trauma. Blast injuries and Management.
3. Diagnosis and surgical measures for disorders of Artery, Vein, Ligaments, Muscles and Tendons.
4. Diagnosis and Surgical management of neck disorders e.g. salivary glands, thyroid, Thyroglossal cyst and Fistula, Branchial cyst and fistula, Cystic hygroma and Lymphadenopathies.
5. Diagnosis and Surgical management of breast diseases, Benign and Malignant breast tumours.
6. Diagnosis and Surgical measures of diseases of Gastrointestinal system -
  - i. Oral cavity - Oral ulcers, Oral cancer, Precancerous conditions, Submucosal fibrosis, Leukoplakia, Cleft lip and palate, Lip tumours, Mucosal cyst, Nasopharyngeal cancer, Tongue ulcer and cancer.
  - ii. Oesophagus - Oesophageal varices, Dysphagia, Neoplasm, Strictures and Gastro oesophageal reflux.
  - iii. Stomach and duodenum – Congenital anomalies, Injuries, Inflammation, Ulcer, Neoplasm, Pyloric stenosis, Acute dilatation, Hiatus hernia and Foreign bodies.
  - iv. Pancreas - Congenital anomalies, Acute and Chronic pancreatitis, Calculi Neoplasm and Cysts of pancreas.
  - v. Peritoneum, Omentum, Mesentery, Retroperitoneal Space – Peritonitis, Abscess, Neoplasm, Mesenteric cyst, Torsion of mesentery, Vascular thrombosis, Retroperitoneal cyst and Fibrosis.
  - vi. Abdominal mass - Diagnosis and Management.
  - vii. Small intestine - Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Peutz-jeghers syndrome, Chron's disease, Carcinoid tumours, Enteric perforation and Intestinal

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H.O.D. & Professor

Dept. of Shalya Tantra

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- fistula.
- viii. Large intestine - Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Faecal fistula, Amoebiasis and Familial polyposis coli.
  - ix. Caecum and Vermiform appendix- Appendicitis, Appendicular abscess, Appendicular mass, Perforation, Carcinoid Tumor and other Neoplasm.
  - x. Gastrointestinal bleeding – Haemetemesis, Malaena, Haemobilia, Bleeding per anum - Causes, Diagnosis and Management.
  - xi. Rectum and anal canal - Diagnosis and Surgical management of Congenital Anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Prolapse, Haemorrhoids, Fistula-in-ano, Fissure-in-ano, Anorectal Abscess, Incontinence, Injuries, Foreign bodies and Pilonidal sinus.
  7. Umbilicus and abdominal wall – Congenital anomalies, Umbilical infections, Sinus, Neoplasm and Desmoid tumor.
  8. Diagnosis and surgical measures of diseases of Hepatobiliary system -
    - i. Liver – Abscess, Cyst - Hydatid cyst, Primary and Secondary malignant tumours, Portal Hypertension and Budd-Chiari Syndrome.
    - ii. Gall bladder and Bile duct - Congenital anomalies, Acute and Chronic Cholecystitis, Cholelithiasis, Neoplasm, Cholangitis, Stenosis, Choledocholithiasis, Choledochal cyst and Cholangiocarcinoma.
    - iii. Spleen – Splenomegaly and Splenic Injury.
  9. Diagnosis and surgical management of Hernias – Inguinal, Femoral, Umbilical, Incisional, Abdominal wall and other hernias.
  10. Endoscopic procedures - Oesophagogastroduodenoscopy, Sigmoidoscopy and Colonoscopy.
  11. Principles of laproscopic surgery - Diagnostic and therapeutic laparoscopy.

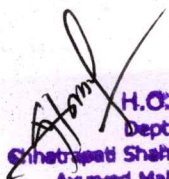
### PAPER – IV - SPECIALITY NO-03 SANGYAHARAN VIGYAN – ANAESTHESIOLOGY

1. Knowledge of disorders like Unmada, Apasmara, Mada, Murrcha, Sanyasa and Stabdhatta etc.

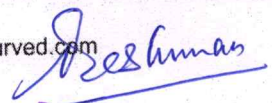
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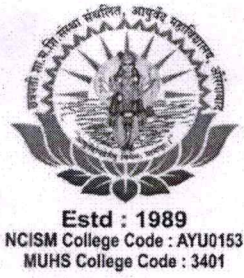
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2. Madataya, Stages of Madataya and its management.
3. Pharmacology of Medhya, Vednasthapak, Madkari, Sangyasthapak, Nidrajanan, Akshepjanan and shamana, Svedjanan, Hridyae, Hridyotejak, Raktbharshamak, Shoolprashaman, Vaman and hrillashar (Antiemetic) dravya as mentioned in Ayurvedic samhita and their application in Sangyaharan.
4. Aroma therapy as complementary and alternative therapy in pain management and Palliative care.
5. Sangyaharan Bshesaja Vigyan (Pharmacology related to Anesthesia) Pharmacology of:
  - Drugs acting on Autonomic nervous system:
    - a. Cholinergic system and drugs- Agonist and antagonist
    - b. Adrenergic system and drugs- Agonist and antagonist
  - Autocoids and related drugs:
    - a. Histamine and Antihistaminic
    - b. 5HT and antagonist
    - c. NSAID'S
    - d. Prostaglandins and leukotrienes
  - Drugs acting on Respiratory system
  - Drugs acting on Somatic nervous system
    - a. Skeletal muscle relaxants - Depolarizer and Non-Depolarizer.
    - b. Local anesthetics
  - Drugs acting on central nervous system
    - a. General Anesthetics- Fixed and Volatile anesthetic agents.
    - b. Sedative and hypnotics
    - c. Anti epileptics
    - d. Anti psychotic and anti-maniacs
    - e. Opioids Analgesics and antagonists
  - Drugs acting on cardiovascular system
    - a. Cardiac glycosides
    - b. Anti arrhythmic drugs
    - c. Anti anginal and other anti ischemic drugs
    - d. Anti hypertensive drugs
  - Drugs acting on Kidneys
    - a. Diuretics
    - b. Anti diuretics
  - Coagulants and anti coagulants
6. Airway management- Intubation, failed intubation drill, LMA, Bag and mask ventilation.

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Tel.: (0240) 2379248, 2646484, 2379035 Fax: (0240) 2646222.

Email : principal@csmsayurved.com, principal@csmsayurved.com Website : www.csmsayurved.com

H.O.D. & Professor  
Dept. of Shalya Tantra

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Chhatrapati Sambhajnagar.





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MUHS College Code : 3401

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# आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

## AYURVED MAHAVIDYALAYA & RUGNALAYA

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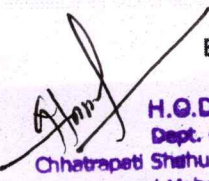


7. Anesthesia For: General surgery, Obstetric and Gynecology, E.N.T. and Ophthalmic, Orthopedic, Dental, Pediatric, Urology, Plastic and Outpatient / Day care surgery.
8. Anesthesia for patients with: Diabetes mellitus, Thyroid diseases, inherited metabolic diseases, Obesity, Respiratory diseases, Cardiac diseases, Renal diseases, Geriatric problems and neuromuscular diseases.
9. Regional anesthesia:
  - Sub-arachnoid and epidural anesthesia, analgesia
  - Plexus and nerve blocks for upper and lower limb
  - Regional anesthesia for thorax and abdomen
  - Surface anesthesia, infiltration and field blocks
10. Complications of Regional and general anesthesia, morbidity, mortality and medico-legal aspects.
11. Anesthesia for Endoscopic, laparoscopic Surgery and Laser Surgery
12. a. Monitoring in anesthesia:
  - Cardiovascular, Respiratory, Renal function, Neurologic and neuromuscular monitoring.
  - Peri-operative Thermo- regulation and monitoring
  - Peri-operative awareness and monitoring depth of anesthesia with BIS.
  - Peri-operative acid-base balance
  - Pt's positioning in anesthesia, its hazards and management
  - Peri-operative Fluid management and Blood transfusion.
  - Risks and hazards of anesthesia
- b. Anesthesia equipments –
  - Medical gas systems
  - Breathing systems
  - Ventilators
  - Anesthesia machine
- c. Post operative management-
  - Post anesthesia care
  - Post operative nausea and vomiting
  - Post operative Intra-Venous fluid therapy
  - Acute post operative pain
- d. Miscellaneous-
  - HDU, ICU, CCPR- BLS & ACLS.
  - Parental nutrition.
  - Environmental factor and electrical safety
- e. Management of Acute / Chronic Pain-
  - Assessment of pain
  - Peri-operative pain
  - Chronic pain syndrome-detection and prevention
  - WHO regime for Cancer pain

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

Email : principal@csmsayurved.com, principal@kanchanwadi.com Website : www.csmsayurved.com

  
H.O.D. & Professor  
Dept. of Shalya Tantra  
Chhatrapati Shahu Maharaj Shikshan Sanstha's  
Ayurved Mahavidyalaya & Rugnalaya,  
Kanchanwadi, Aurangabad.



  
Principal  
Chhatrapati Shahu Maharaj Shikshan Sanstha's  
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- TENS, Behavioral therapy
- f. Anesthesia in remote locations
- g. Clinical care in extreme environments (At high and low pressure and space).
- h. Relevance of Sammohana (Hypnosis), Acupressure and Acupuncture in Sangyahan.
- i. Recent advances in research in Sangyahrana, Pain Management and Palliative Care. Scope and Application of principles of Ayurveda in Sangyahrana Research.

DR P. V. BOCHARE

PAPER – IV - Speciality No - 01 Anushastra Vigyan – Parasurgical Therapeutics

## 1. Kshara Karma and Prayoga – Caustic therapy

- i. Introduction of different types of Kshara, Method of preparation, Standardization, pH value, Application, Complications and its management.
- ii. Surgical Anatomy and Physiology of Anus and Rectum.
- iii. Arshas - Nidana, Purvaroop, Roopa, Samprapti, Prakara and Chikitsa.
- iv. Haemorrhoids - Aetio-pathogenesis, types and its surgical management. Knowledge of different methods of treating Haemorrhoids - Rubber band ligation, D.G.H.A.L, Radiofrequency, Ablation, Cryo-surgery, Cautery, Laser, Infrared coagulation and other advanced techniques.
- v. Bhagandara - Nidana, Purvaroop, Roopa, Samprapti, Prakara, Chikitsa and application of Kshara Sutra.
- vi. Fistula-in-ano - Definition, Aetio-Pathogenesis, Types, Diagnostic methods and its Surgical and parasurgical management including knowledge of Fibrin Glue, Advanced Flap Therapies and other recent techniques.
- vii. Parikartika - Nidana, Samprapti and its Chikitsa.
- viii. Fissure-in-ano - Aetio-pathogenesis, types and its management.
- ix. Sannirudhaguda and its Chikitsa.
- x. Anal Stenosis - Aetio-pathogenesis and its management.
- xi. Gudavidradhi - Nidana, Purvaroop, Roopa, Samprapti, Prakara and its Chikitsa.
- xii. Anorectal abscesses – Aetio- pathogenesis, types, complications and its management.
- xiii. Foreign body in rectum and anal canal - Method of diagnosis and its management.
- xiv. Congenital Anorectal disorders and its management.
- xv. Anorectal tumour - Types and its management.

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### 2. Agnikarma – Thermo therapy

- Introduction, definition and importance of Agnikarma.
- Agnikarma - Poorva, Pradhana and Paschat karma, various substances and Shalaka used for Agnikarma and their indications, contra-indications and complications.
- Knowledge of modern thermal equipment - Diathermy, Laser therapy, Microwave, Ultracission technique, Cryo Technique and its uses.
- Effect of Agnikarma on skin, muscle tissue, nerves, metabolism, blood circulation and infective lesions.

### 3. Raktamokshana – Bloodletting Procedures

- Indications, contraindications and importance of Raktamokshana.
- Justification of usage of different types of Raktamokshana in various therapeutic applications.
- Different types of Raktamokshana – Sastrakritha - Siravyadhana, Prachana and Asastrakritha - Shringa, Jaluka, Alabu and Ghati.
- Jalauka - Nirukti, Paryaya, Bhedha, Sangrahana, Samrakshana, Jalaukavacharana Vidhi - Poorva, Pradhana and Paschat karma.
- Knowledge of Leeches - Morphology, Anatomy, Physiology, Bio-chemical effects of its various constituents present in its saliva.

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Principal

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

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