

### **3.4. SHALYA -TANTRA**

**Theory Two Papers – 90 Marks Each**

**Theory Internal Assessment -20 Marks**

**Practical/Viva voce – 90 Marks**

**Practical Internal Assessment -10 Marks**

**Number of Lectures - 210**

**Hospital Training / Clinical Posting – 6 Months**

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#### **PAPER - I**

1. Introduction to Shalya Tantra - Historical background and progress made.
2. Definition of Shalya, Shalya Tantra and its importance.
3. Description of Yantras, Shastras, Anushastras – Definition, number, types, uses, Doshas, Gunas, Karmas. Relevant modern instruments.
4. Nirjantukarana – Sterilization – Methods, Types and O.T. fumigation
5. Sangyahanana– Anaesthesia - Definition, Types, anaesthetic agents, indications, contraindications, procedures, complications and management.
6. Trividha Karma – Poorva Karma, Pradhana Karma and Paschat Karma.
7. Ashtavidha Shastra Karma - Operative procedures
8. Yogya Vidhi - Experimental Surgery.
9. Marma – Nirukti, types, description and importance.
10. Kshara and Kshara Karma – Nirukti, Pradhanyata, Guna, Dosha, Karma, Prakara, Nirmana Vidhi, Yogya, Ayogya, Vidhi and Upadrava Chikitsa. Knowledge of Kshara Varti, Taila and Pichu.
11. Kshara Sutra – Preparation, indications, contraindications and method of application, complications and their management.
12. Agnikarma - Mahatva, Upakrama, Vyadhis, Vidhi, Akruiti bheda, Yogya, Ayogya and Upadrava Chikitsa.

13. Raktamokshana – Mahatva, Prakara-Siravyadha, Pracchanna, Shringa, Alabu, Jaloukavacharana (Jalouka parichaya) – Yogya, Ayogya, Vidhi and Upadrava Chikitsa.
14. Bandha Vidhi – Prayojana, Dravya, Yogya, Ayogya, Prakara, Abandya and Upadrava. Pichu, Plota, Kavalika, Vikeshika.
15. Sandhana Karma - Karna, Nasa, Oshtha Sandhana Vidhi. Principles and procedures of reconstructive and cosmetic surgery.
16. Pranasta Shalya and Nirharana Upayas.
17. Fluid, electrolyte and Acid Base Balance, Nutrition –
  - Introduction to physiology of fluids and electrolytes
  - Dehydration and over hydration,
  - Specific electrolyte losses and symptomatology and management of Acidosis, Alkalosis and Acid balance.
  - Electrolyte changes in specific diseases like pyloric stenosis, intestinal obstruction and anuria.
  - Various replacement fluids in surgery, mode of administration and complications.
  - Nutrition – pre-operative, post-operative and intravenous alimentation.
18. Rakata Mahatwa, Raktasrava- Prakara and laksahana. Raktastambhana - Haemostasis.
19. Blood Transfusion –Blood groups, components, compatibility, indications, contraindications and complications with management.
20. Knowledge about Vranitagara and Rakshakarma.
21. Knowledge of antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.
22. Knowledge of diagnostic techniques – X-ray, Imaging techniques, Ultra Sonography, CAT Scan, MRI, Biopsy/ cytological study.
23. Knowledge of Shat Kriya Kala in surgical practice.
24. Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa of the following disorders.
  - a. Vranashotha - Inflammation
  - b. Vidhradi – Abscess
  - c. Pidika – Boils

- d. Nadi Vrana - Sinus
- e. Dagdha Vrana - Burns and scalds
- f. Marmagata - Shock
- g. Kotha – Gangrene
- h. Granthi- Cyst.
- i. Arbuda – Tumour.

j. **Vrana** – Nirukti and Prakara

- a. **Nija Vrana** – Nidana, Samprapthi, Vrana Vasthu, Prakara, Lakshana, Vrana Pariksha – Sthan, Akrti, Srava, Gandha, Vedana. Vrana Avastha- Dustavrana, Shuddha Vrana, Ruhyamana Vrana, Samyak Roodha Vrana, Vyadhi Janya Vrana, Vrana Sadhya-asadhyatha and Vrana Upadrava.
- b. Vrana Chikitsa – Pathya-apathya and Shashti Upakramas.
- c. Ulcer types and their management
- d. Wound healing stages and management.
- e. Agantuja Vrana
  - i) Sadhyo vrana - Traumatic wounds – Nidana, Prakara, Lakshana, Upadrava and Chikitsa
  - ii) Management of bites and strings

25. **Twak Vikara** Nidina, Samprapti, Lakshana and Chikitsa of Pramehapidaka- Diabetic carbuncle, Chippa -Paronychia, Kadara – Corn, Vrana Granthi – Keloid .

26. **Manya Vikara** – Nidina, Samprapti, Lakshana and Chikitsa of Galaganda - Goitre, Gandamala, Apachi –Lymphadenitis, Pashanagardhabha – Parotitis .

27. **Sira Vikara** - Venous disorders – Superficial and Deep venous thrombosis, haemangioma, varicose veins, Venous Ulcers and their management.

28. **Dhamani Vikara** - Arterial disorders – Nidina, Samprapti, Lakshana and Chikitsa of Aneurysm, Burger’s disease, Raynaud’s disease.

29. **Snayu Vikara** - Diseases of tendons and ligaments – Tendinitis, tenosynovitis, ganglion and their management.

30. Principles of Amputation.

31. Surgical practice in AIDS - HIV and hepatitis patients.

## **Paper II**

1. **Asthi Bhagna** - Fracture: Prakara including pathological fracture, Samanya Lakshana, Upadrava and Chikitsa. Description of fracture of following bones with clinical features, diagnosis, complications and management – scapula, clavicle, humerus, radius, ulna, carpals, metacarpals, phalanges, femur, patella, tibia, fibula, tarsals, metatarsals, vertebrae, ribs, mandible, pelvis and skull bones.
2. **Sandimoksha** - Dislocation: Prakara, Samanyalakshana, Upadrava and Chikitsa. Dislocation of following joints with clinical features, diagnosis, complications and management of shoulder, elbow, wrist, hip, knee, ankle, mandible, vertebrae and Phalanges.
3. **Diseases of bone** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Congenital anomalies Osteomyelitis, cysts, tumours and tuberculosis.
4. **Cranio-cerebral injuries** – mechanism, pathology, investigations, complications and management. Cerebral concussion, contusion and laceration. Acute extradural haematoma, Acute intracerebral and chronic subdural haematoma.
5. Brain tumors and their management.
6. **Diseases of breast** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Sthan Vidradhi- Breast Abscess, Sthan Arbuda-Breast tumors and their management.
7. **Diseases of chest** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Pleural abscess, pleural effusion, tumors, pleurisy and their management.
8. **Diseases of esophagus** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Congenital Anomalies, Oesophagitis, ulcer, varices, tumors and their management.
9. **Gulma Roga** – Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
10. **Diseases of stomach and duodenum** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Congenital pyloric stenosis, peptic ulcer, tumors and their management.

11. **Diseases of small intestine** Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Mickel's Diverticulitis, Tuberculosis, obstruction, perforation and their management.
12. **Diseases of large intestine** Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Tuberculosis, obstruction, perforation, tumor, appendicitis, crohn's disease, ulcerative colitis and their management.
13. **Udara rogas** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Jalodara - Ascitis, Chidrodara - Perforation and Peritonitis, Badhagudodara - Obstruction and their management.
14. **Diseases of rectum and anal canal** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of - Congenital disorders, Arshas -Haemorrhoids, Rectal polyp, Parikartika - Fissure in ano, Bhagandara - Fistula-in-ano, Guda Vidradi - Anorectal abscess, Gudabhramsa - Rectal prolapse, Sanniruddaguda - Anal stricture, Incontinance. Gudarbuda - tumor and their management.
15. Abdominal Injuries and management
16. **Diseases of liver** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Abscess, cysts, tumors, obstructive jaundice and Yakritdalyodar -Hepatomegaly .
17. **Diseases of gall bladder** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Cholecystitis, cholelithiasis, tumors.
18. **Diseases of pancreas** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Pancreatitis, pseudo pancreatic cyst, tumors .
19. **Diseases of Spleen** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Pleehodara - Spleenomegaly, splenic rupture.
20. **Diseases of Kidney** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Congenital anomalies, polycystic kidney, perinephric abscess, tumor, renal calculus, renal injury .

21. **Diseases of Ureter** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Calculus, obstruction.
22. **Diseases of Urinary bladder** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Congenital anomalies, Ashmari -Vesicle calculus, Cystitis, tumor and Injury.
23. **Mutragata & Mutrakrichra**- Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management. Retention of urine.
24. **Diseases of Prostate** - Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Prostatitis, Prostatic abscess, Benign prostatic hypertrophy, carcinoma of prostate.
25. **Diseases of Urethra** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Urethritis, Stricture and rupture.
26. **Diseases of Penis** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Niruddhaprakasha - Phimosi, Parivartika -Paraphimosi, Avapatika - Prepuceal ulcer, Arbuda-tumor, Lingarsha -Venereal warts.
27. **Diseases of Scrotum and Testis** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Mutravridhi - Hydrocele, Vrushana shotha-epididimo-orchitis, Vrushana granthi- epididimal cyst, Scrotal filaria, Shukrashmari -Seminal calculus, torsion of testis, ectopic testis, undescended testis and tumors .
28. **Vridhi Roga** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management.
29. **AntraVridhi** – Aetiopathogenesis, classification, Clinical Features, Diagnosis, Complications and management of Hernia - Inguinal, femoral, epigastric, umbilical, incisional and rare forms of Hernias.

❖ **TERM WISE DISTRIBUTION OF THEORY SYLLABUS**

<b><u>FIRST TERM</u></b>	<b>Paper- I</b>	<b>Paper- II</b>
Point No.	1, 2, 3, 4.5, 6,7,8,9.	1,2,3,4,5.

<b><u>SECOND TERM</u></b>	<b>Paper- I</b>	<b>Paper- II</b>
Point No.	10,11,12,13,14,15,16, 17,18,19,20,21,22,23,24.	6,7,8,9,10,11,12,13,14,15, 16,17,18,19

<b><u>THIRD TERM</u></b>	<b>Paper- I</b>	<b>Paper- II</b>
Point No.	25,26,27,28,29,30,31.	20,21,22,23,24,25,26, 27,28,29.

❖ **THEORY EXAMINATION (To be conducted by University)**

There will be Two Papers Paper I & paper II for each 90 Marks as follows. The examiners are directed to set a question paper in such a way that it shall covers all points of syllabus. On any syllabus group maximum 5 SAQ and maximum 10 MCQ can be included in the question paper by Paper setter.

- a. **SECTION-A. (M.C.Q.)** - 15 MARKS
  - IT CONTAINS **30 M.C.Q.s** – CARRYING ½ (half), MARK EACH.
- b. **SECTION-B. (S.A.Q.)** - 30 MARKS
  - IT CONTAINS **12 S.A.Q.s** – EACH CARRYING 3 MARKS AND ANY 10 SAQs SHOULD BE SOLVED BY STUDENT.
- c. **SECTION-C. (L.A.Q.)** - 45 MARKS
  - IT CONTAINS **4 L.A.Q.s** –EACH CARRYING 15 MARKS AND ANY 3 LAQs SHOULD BE SOLVED BY STUDENT.

- **DIVISION OF SYLLABUS POINTS AND GROUP WISE WEIGHTAGES OF MARKS IN UNIVERSITY QUESTION PAPER.**

**PAPER - I**

<b><u>GROUPS</u></b>	<b><u>SYLLABUS POINTS</u></b>	<b><u>ALLOTTED MAXIMUM MARKS</u></b>	<b><u>QUESTION PATTERN</u></b>
A	5,6,7,8,9,10,11,12.	27	1-LAQ +3SAQ +6 MCQ
B	13,14,15,16,18,19,20.	27	1-LAQ +3SAQ +6MCQ
C	21,22,23,24	27	1-LAQ +3SAQ +6MCQ
D	17,25,26,27,28,29,30,31.	24	1-LAQ + 2SAQ +6MCQ
E	1,2,3,4.	06	1SAQ + 6MCQ
-		111 Marks	-

**PAPER - II**

<b><u>GROUPS</u></b>	<b><u>SYLLABUS POINTS</u></b>	<b><u>ALLOTTED MAXIMUM MARKS</u></b>	<b><u>QUESTION PATTERN</u></b>
A	1,2,3,	28	1-LAQ +3SAQ +8MCQ
B	6,7,8,9,10,11,12	28	1-LAQ +3SAQ +8MCQ
C	13,14,15,16,17,18,19	30	1-LAQ +4SAQ +6MCQ
D	20,21,22,23,24,25,26,27,28,29	21	1-LAQ + 1SAQ +6MCQ
E	4,5	04	1SAQ + 2MCQ
-		111 Marks	-



❖ **PRACTICAL TRAINING\CLINICAL POSTING – 6 Months**

Total Duration is 6 Months out of which 3 month should be completed under period of Second B.A.M.S. and remaining 3 months under, Third B.A.M.S.

- ❖ OPD / IPD Posting - 4 Months( 3 month in II-BAMS& 1 Month in III BAMS,)
- ❖ Operation theatre Posting - 1 Month (In III BAMS)
- ❖ Emergency \casualty Posting - 1 Month (In III BAMS)

Under clinical posting, each student has to study and fill 20 long Cases and 20 Short cases and prepare record of it as prescribed in **Annexure – A & B**. Out of these long 20 cases following division should be strictly followed

Major Surgery-5 cases  
Minor Surgery-07 cases  
Other Nonsurgical Patients- 08 cases

❖ **Guidelines for Shalyatantra Practicals/Clinics:**

Under Clinical Posting, following skills should be developed in each student. More trace should be given on direct observation of practical procedures

1. Identification, uses, demonstration of surgical instruments and method of sterilization.

2. Training of case taking, bed side clinics and case presentation.

3. Demonstration and Practical training in Anesthesia.

4. **Training of following Parasurgical procedures**

a. Kshara Karma

b. Kshara Sutra

c. Agnikarma

d. Raktamokshana

5. **Training of following ward procedures**

a. Application of bandages and splints.

b. Catheterization

c. Wound management

d. Ryle's tube aspiration

e. Injections -Intramuscular / intravenous / subcutaneous / intradermal

## 6. Training / Practice of following procedures

- |                                     |                           |
|-------------------------------------|---------------------------|
| a. Incision and drainage of abscess | b. Excision               |
| c. Sutures                          | d. Circumcision           |
| e. Hydrocele                        | f. Hernial repair         |
| g. Haemorrhoidectomy                | h. Fistulectomy           |
| i. Fissurectomy                     | j. Exploratory Laparotomy |

## 7. Training of surgical Procedures and Management.

### ❖ Distribution of Marks –For University Practical Examination.

1. Long case taking & case viva	-30 Marks
2. Short case taking & case viva	-20 Marks
3. Specific Viva Drugs & Instruments	-15 Marks
4. General Viva	-15 Marks
5. Long & Short cases record	-10 Marks

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TOTAL -- 90 Marks

### ❖ Reference Books

1. Sushruta Samhita
2. Ashtanga Sangraha
3. Ashtanga Hridaya.
4. Charaka Samhita
5. The Surgical instruments of the Hindus –Girindranath Mukhopadhyaya
6. Shalya Tantra Samuchchaya – Pandit Ramadesh Sharma
7. Shalya Vijyan (Part 1-2) – Dr. Surendra Kumar Sharma
8. Shalya Samanvaya (Part 1-2) – Vd. Anantaram Sharma
9. Shalya Pradeepika – Dr. Mukund Swaroop Verma
10. Sushruti –Dr. Ram Nath Dwivedi
11. Clinical Shalya Vigyan – Dr. Akhilanand Sharma
12. Bhagna Chikitsa – Dr. Prabhakar Janardhan Deshpande
13. Kshara sutra management in anorectal ailments – Dr. S.K. Sharma,  
Dr.K.R.Sharma and Dr. Kulwant singh.
14. Anorectal diseases in Ayurveda – Dr.Sizoria & Dr.Praveen Kumar

Chowdary.

15. Adhunik Shalya Chikitsa Siddanta – Dr. Katil Narshingham Udupa  
16. Agnikarma Technology Inovation – Dr. P.D. Gupta  
17. Shalya tantra Ke Sidhant – Dr. K.K. Takral  
18. Recent advances in the mangement of Arshas / Haemorrhoids  
–Dr. P. Hemantha Kumar
19. Arsha Evam Bhagander Men Sutravacharan – Vd. Kanak Prasad Vyas  
20. Kshara Sutra – Dr. S.N. Pathak.  
21. Surgical ethics of Ayurveda – Dr. S. Sankaran  
22. Shalya Vigyan (Sachitra) – Anantram Sharma  
23. Anushastra Karma – Dr. D.N. Pande  
24. Concept of Vrana is Ayurveda – Dr. Lakshman Singh  
25. Significance for Poorva Karma in Surgical Patient – Dr. Lakshman Singh  
26. Sangyahan Prakash – Dr. D.N. Pande  
27. Short practice of surgery – Bailey and love's  
28. A concise text book of surgery – S. Das  
29. A manual on clinical surgery – S. Das  
30. A system of surgical diagnosis – Prof. Tribhuvan. N. Patel  
31. A practical guide to operative surgery – S. Das  
32. Drugs and equipment for anesthesia – Arun Pal  
33. Manual of surgical instruments and procedures – M. M. Kapur  
34. Ward procedures – Mansukh B. Patel and Yogesh P. Upadhyay  
35. Primary Anesthesia – Maurice king  
36. Synopsis of Anesthesia – Lee  
37. Clinical Anatomy/ Surgical Anatomy – Snell  
38. Surgical Instruments – V.G. Kale  
39. Outline of Orthopedics – J.C. Adams  
40. Outline of Fracture – J.C. Adam  
41. Undergraduates' surgery – A.K. Nan  
42. Text book of Surgery – Surgeons Association of India

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DEPARTMENT OF SHALYA-TANTRA

FORMAT OF- LONG CASE PAPER

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OPD/IPD NO.

Bed No:

Patient's name:

Age/ Sex:

Date of Examination:

Religion:

Desha:

Season:

Education:

Occupation:

Marital status:

Address:

Date of admission:

Date of discharge:

Provisional Diagnosis:

Final Diagnosis:

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**Pradhan Lakshanani** – [ Chief complaints with duration in chronological order]

No.	Details	Duration

**Vartman Vyadhi Vrittanta** – [ History of present illness with onset, duration & progress ]

**Poorva Vritta [ Past history ]-**

**Kul- Vritta [ Family History]-**

Matru-kul-

Pitru-kul –

Swa-kul –

**Drug History [ Allergies , if any ]-**

**Vyasan [ Addictions and Habits ] –**

**Prakruti Vinishchaya –**

**Ashtavidha Parikshan-**

1. Nadi -

2. Mala -

3. Mutra -

4. Jivha -

5. Shabda –

6. Sparsha-

7. Drik –

8. Aakruti –

**General Examination –**

Pallor / Icterus / Lymphadenopathy / Oedema / Cyanosis

Pulse -

B.P. -

Temperature-

R.R.-

**Srotasa Parikshhana –**

1. Pranavaha –[ Ura- parikshan]-

2. Annavaha –[ Udar parikshan]-

3. Udakavaha-

4. Rasavaha-

5. Raktavaha-

6. Mansavaha-

7. Medovaha-

8. Asthivaha-

9. Majjavaha-

10. Shukravaha –

11. Purishavaha-

12. Mutravaha-

13. Swedavaha-

14. Aartav-vaha-

**Vrana- pariksha-**

1. Bheda [ type] - Nij / Aagantu

2. Vrana vastu-

3. Vrana- Aakruti-

4. Vrana Srava-

5. Vrana Gandha-

6. Vrana Avastha - Shuddha / Dushta / Ruhyamana/ Rudha

7. Sadhya/ Asadhya- Sukhasadhya/ Krichhrasadhya/ Yapya / Asadhya

## Nidana – Panchaka

1. Hetu –
2. Poorva- Roopa-
3. Roopa-
4. Samprapti- [ With textual reference]
5. Upashaya- Anupashaya-

## Investigations-

Hb % -	WBC-	DLC-	N-	E-	B-
L- M-					
BSL-	BUL-	Sr. Creatinine-		HIV-	
HBsAG-					
BT-	CT-	Others-			

## Radiological Investigations [ X-ray / USG / CT Scan / MRI ]-----

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**Vyavachhedak Nidan [ Differential Diagnosis]-**

**Antim Nidan [ Final Diagnosis]-**

**Sadhyata -** Aushadhsadhya / Shstrakarma sadhya

**Upadrava-**

**Shastrakarma—**

1. Poorva karma—

2. Pradhan karma- [ Operative notes]

[ Separate sheet may be attached]

3. Pashchat karma- [ Post operative]-

**Itee- Vritta [ Follow up] –**

<b>SR NO</b>	<b>DATE</b>	<b>DETAILS</b>	<b>TREATMENT</b>

**Signature of Teacher**

**Signature of Student**

**DEPARTMENT OF SHALYA-TANTRA**

**FORMAT OF- LONG CASE PAPER**

-----  
**DATE-**

Name-----

Age -

Sex-

Religion-

Address-

Occupation-

Phone no.-

OPD no. -

IPD no.-

DOA-

DOD-

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**Vyadhi-Nidan [ Diagnosis] –**

**Shastrakarma –[ Surgery details]**

**Pradhan Lakshanani – [ Chief complaints with duration in chronological order]**

No.	Details	Duration

**Vartman Vyadhi Vrittanta – [ History of present illness with onset, duration & progress ]**

**Poorva Vritta [ Past history ]-**

**Kul- Vritta [ Family History]-**

**Drug History [ Allergies , if any ]-**

**Vyasan [ Addictions and Habits ] –**

**Prakruti Vinishchaya –**

**Ashtavidha Parikshan-**

1. Nadi -

2. Mala -

3. Mutra -

4. Jivha -

5. Shabda –

6. Sparsha-

7. Drik –

8. Aakruti –

**General Examination –**

Pallor / Icterus / Lymphadenopathy / Oedema / Cyanosis

Pulse -

B.P. -

Temperature-

R.R.-

## **Vikruta Srotasa Parikshana –**

Darshana-

Sparshana-

Prashana-

**Investigations-**

**Vyavachhedak Nidan** [ Differential Diagnosis]-

**Antim Nidan** [ Final Diagnosis]-

**Shastrakarma** [ In short ]

**Itee- Vritta [ Follow up] –**

<b>Sr. No.</b>	<b>Date</b>	<b>Details</b>	<b>Treatment</b>

**Signature of Teacher**

**Signature of Student**

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