

**Syllabus for Siddha Maruthuva Arignar (BSMS) Course
Final Professional BSMS
(2013 Scheme)**

SUBJECT: MARUTHUVAM (MEDICINE)

Total Hours : 150

Study of following disease with clinical demonstration, their various names, Definition, causes, premonitory signs, signs & symptoms , description about the humoural disorders, pulse reading , complications , Associated disease, fatal signs, Line of treatment, prognosis, specific or special medicines, regimen and diet. Necessary modern scientific correlations shall also be incorporated as and when required.

- | | |
|--|------------|
| 1. Kural kammal (Hoarseness of voice) | (2 hours) |
| 2. Mookkadaippu (Sinusitis and Nasal block) | (2 hours) |
| 3. Irumal noi (Cough) | (2 hours) |
| 4. Eraippu noi (Bronchial asthma) | (2 hours) |
| 5. Elaippu noi (Tuberculosis) | (2 hours) |
| 6. Kuruthiazhal noi (Bleeding disorders and abnormalities of blood pressure) | (2 hours) |
| 7. Thamaraga noi (pertaining with heart diseases) | (3 hours) |
| 8. Veluppu noi (Anaemia) | (2 hours) |
| 9. Oodhal noi (Dropsy) | (2 hours) |
| 10. Ulaimanthai (Acute / chronic enteritis) | (2 hours) |
| 11. Suvayinmai (Disorder of tastes) | (2 hours) |
| 12. Seriyamai (Indigestion) | (2 hours) |
| 13. Neervetkai (Polydipsia) | (2 hours) |
| 14. Vikkal (Hiccup) | (2 hours) |
| 15. Vanthi (Vomitting) | (2 hours) |
| 16. Mantham (Dyspepsia) | (2 hours) |
| 17. Gunmam (Pain abdomen) | (3 hours) |
| 18. Manneeral noi (Diseases of spleen) | (2 hours) |
| 19. Kalleeral noi (Diseases of liver) | (2 hours) |
| 20. Manjal noi (Jaundice) | (2 hours) |
| 21. Peruvayiru (Abdominal distension) | (4 hours) |
| 22. Kudalpidippu (Abdominal colic) | (2 hours) |
| 23. Perunkalichal noi (Diarrhoea) | (2 hours) |

24. Ninakalichal noi (Amoebic dysentery) (2 hours)
 25. Kaduppu kalichal noi (Bacillary dysentery) (2 hours)
 26. Oozhi noi (Cholera) (2 hours)
 27. Soolai (Pricking pain of varied aetiology) (3 hours)

28. Siruneer noikal

28 (I) Neerinai arukkal noikal (Conditions of reduced urinary output)

- a) Kalladaippu noi (Renal calculi) (3 hours)
 b) Neeradaippu noi (Retension of urine) (3hours)
 c) Neerkattu (Anuria) (3 hours)
 d) Sottu neer (Incontinence of urine) (3 hours)
 e) Neersurukku (Oliguria) (3 hours)
 f) Vellai noi (Urethritis/ inflammation of the uro-genital organs) (3 hours)

28 (II) Neerinai perukkal noikal (Conditions of increased urinary output)

- a) Meganeer/Athimoothiram(Polyuria) (4 hours)
 b) Neerizhivu (Diabetes mellitus) (3 hours)
 c) Thelineer (Diabetes insipidus) (2 hours)
 d) Venneer (Spermatorrhoea) (2 hours)
29. Keel vayu (Arthritis) (4 hours)
 30. Suram – 64 (Fever – 64 types) (7 hours)
 31. Mukkutra noi (Delirium) (3 hours)
 32. Ammai noi (Viral infections) (3 hours)
 33. Vatha noi (Rheumatic diseases and other neurological disorders) & Pakkavatham (Hemiplegia) (8 hours)
 34. Pitha noi (Pitha diseases) (5 hours)
 35. Iya noi (Kapha diseases) (4 hours)
 36. Endocrine (diseases) (8 hours)
- (i) Hyper pituitarism
 (ii) Hypo pituitarism
 (iii) Hyper thyroidism
 (iv) Hypo thyroidism
 (v) Cushing's syndrome
 (vi) Adrenal insufficiency
 (vii) Hyper parathyroidism
 (viii) Hypo parathyroidism

37. Infectious diseases (5 hours)
38. Sexually transmitted diseases
- 38.1 Korrukku noi (Syphilis) – 38.2 Mega vettai noi – (Gonorrhoea) (5 hours)
39. Ema kurai noi/ Theivu noi – HIV & AIDS (3 hours)
40. Life style disorders (7 hours)

PRACTICALS: (200 hours)

1. Practical training in the general examination and systemic examination.
2. Maintaining clinical records
3. Envagai thervu
4. Nadi parisothanai
5. Application of Neerkuri and Neikuri
6. Application of Manikkadai nool
7. Application of Clinical investigations and interpretations
8. Practical training in common medical emergencies
9. Practical application of puramaruthuvam in medical cases

REFERENCE BOOKS:

1. Siddha Maruthuvam, Kuppusamy Muthaliar (1st Edn. 1954), Tamilnadu Siddha medical council, Chennai, 2nd Edn. 1987.
2. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
3. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
4. Siddha Maruthuvaanga Surukkam, C. S. Uthamarayan, H.P.I.M., Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai,
5. Noikalukku Siddha parikaram Part I & II, Shanmugavelu, Indian medicine and homeopathy department, Chennai – 106, (1st Edn. 1972, Reprint: 2012)
6. Davidson's principle and practice of medicine, 2014, 22nd Edn., Churchill Livingstone, Elsevier, ISBN NO.- 9780702050473
7. Hutchison's Clinical Methods, Saunders Ltd. ISBN: 978-0-7020-4091-7.
8. Practical Medicine, PJ Mehta, The National Book Depot, 20th Edn., 2013, ISBN : 9788190704618

DISTRIBUTION OF MARKS (WEIGHTAGE OF MARKS) FOR UNIVERSITY THEORY EXAMINATION

60 Marks from the following chapters

1. Mookkadaippu
2. Irumal noi
3. Eraippu noi
4. Elaippu noi
5. Kuruthi azhal noi
6. Thamaraga noi
7. Veluppu noi
8. Oodhal noi
9. Seriyamai
10. Gunmam
11. Manjal noi
12. Peruvayiru
13. Perunkalichal noi
14. Ninakalichal noi
15. Kaduppu kalichal noi
16. Oozhi noi
17. Siruneer noikal
18. Keel vayu
19. Suram-64

30 Marks from the following chapters

1. Kural kammal
2. Ulaimanthai
3. Suvayinmai
4. Neervetkai
5. Vikkal
6. Vanthi
7. Mantham
8. Manneeral noi
9. Kalleeral noi
10. Kudalpidippu
11. Soolai
12. Mukkutra noi
13. Ammai noi

10 Marks from the following chapters

1. Vatha noi
2. Pitha noi
3. Iya noi
4. Endocrine diseases
5. Infectious diseases
6. Sexually transmitted diseases
7. Ema kurai noi/ Theivu noi (HIV & AIDS)
8. Lifestyle disorders

DISTRUBUTION OF MARKS IN UNIVERSITY CLINICAL EXAMINATIONS

Clinical	70 Marks
Viva voce	20 Marks
Record	10 Marks
Total	100 Marks

SUBJECT: VARMAM, PURAMARUTHUVAM AND SIRAPPUMARUTHUVAM
(Varmam Therapy, External Therapy and Special Medicine)

Total Hours : 150

I KAYAKALPAM

(15 hours)

Definition – Description – Regimen – uses & etc.

- 1) Kalpa medicines (Rejuvenation Therapy) - Classification – General & special karpam.
 - Mooligai karpam – (Herbal origin)
 - Thatu Karpam (minerals origin)
 - Jeeva Karpam – (Animal origin)
- 2) Attanga yogam - Iyamam- Niyamam- Asanam- Pranayamam- Prathiyakaram- Thaaranaithiyanam-Samadhi
- 3) Pranayamam – Definition – Philosophy – method – Regimen – Uses
- 4) Yoga –Definition – Principles of yoga practice- yoga postures – types - explanation– philosophy – uses.
- 5) Muppu - Definition – philosophies – classification – description – uses.

II. VARMAM:

(10 hours)

1. Definition – Description about the importance of Varmam – why it is called as Unique feature of Siddha system : - Basic Philosophies related to the formation of Varma points – classification based on three humours – based on anatomical locations – based on signs & symptoms – special & particular physical manipulation techniques & massage pertaining to Varma therapy – pulse diagnosis of varma patients – Important medicines used in varma therapy – Specific food items prescribed for the patients.
2. Detailed study about the following Varma points:- (it includes location – signs & symptoms – necessary manipulation techniques – medicines)

Paduvarmam (12)

(6 hours)

- | | |
|----------------------|-------------------------------|
| 1) Uchi varmam | 7) Urakka kaalam |
| 2) Pidari kaalam | 8) Thummi kaalam |
| 3) Chevikuthikaalam | 9) Ner Varmam |
| 4) Natchathirakaalam | 10) Adappa kaalam |
| 5) Thilartha kaalam | 11) Periya athisurikki kaalam |
| 6) Kannaadikaalam | 12) Kallidai kaalam |

Thodu varmam (96)

(34 hours)

I. Varma points located in Head & Neck :(22)

- | | |
|-----------------------|--------------------------------|
| 1) Pootellu Varmam | 12) Aayama kaalam |
| 2) Mun chuvadi varmam | 13) Nadi kaalam |
| 3) Nettri kaalam | 14) Chenni Varmam |
| 4) Pin chuvadi varmam | 15) Poigai kaalam |
| 5) Porichal varmam | 16) Kurunthukuthi kaalam |
| 6) Puruva kaalam | 17) Alavattukona chenni Varmam |

- 7) kannakaalam
- 8) Kumbidum kaalam
- 9) Bala varmam
- 10) Chuliyadi Varmam
- 11) Moorthi kaalam
- 18) Vettu Varmam
- 19) Kokki kaalam.
- 20) Manthira kaalam
- 21) Kannu varmam
- 22) Arukukaalam.

II Varma Points located in Trunk : (37)

- 23) Malar varmam
- 24) Vilangu varmam
- 25) Kulir varmam
- 26) Arangu varmam
- 27) Maattraan kaalam
- 28) Thivalai varmam
- 29) Kaareeral varmam
- 30) Velleeral varmam
- 31) Koombu varmam
- 32) Nenchadaippan varmam
- 33) Villu varmam
- 34) Mundellu varmam
- 35) Urumi varmam
- 36) Kuttri varmam
- 37) Kakotta kaalam
- 38) Chippi varmam
- 39) Changu thirikaalam
- 40) Vaayu kaalam
- 41) Manthira kaalam
- 42) Chiriya Athichuriki
- 43) Iruppu varmam
- 44) Villu varmam
- 45) Andakkaalam
- 46) Kaccha varmam
- 47) Thandu varmam
- 48) Thandinadi varmam
- 49) Pandri varmam
- 50) Ada varmam
- 51) Mothira kaalam
- 52) Vaanthi kaalam
- 53) Valamburi kaalam
- 54) Chorutheenda kaalam
- 55) Naabi varmam
- 56) Hanuman varmam
- 57) Pushti kaalam
- 58) Chuli varmam
- 59) Kurunthukuthi kaalam.

III The Varma points located in the Extremities: (37)

- 60) Thuthikai varmam
- 61) Dhakshana kaalam
- 62) Kavali varmam
- 63) Peruviral mayya varmam
- 64) Manikattu varmam
- 65) Kannu varmam
- 66) Muzhankai varmam
- 67) Muttu varmam
- 68) Kochu varmam
- 69) Chulukku varmam
- 70) Puja varmam
- 71) Mozhi varmam
- 72) Aani varmam
- 73) Pathakkala varmam
- 74) Chulukku varmam
- 75) Kochu varmam
- 76) Aama kaalam
- 77) Thundu varmam
- 78) Chirattai varmam
- 79) Muttu varmam
- 80) Channi varmam
- 81) Naai thalai varmam
- 82) Visha varmam
- 83) Uppu Kuttri varmam
- 84) Kaal kannu varmam
- 85) Kuthikaal varmam
- 86) Nadai varmam
- 87) Kulachu varmam
- 88) Mudichu Varmam
- 89) Boomi kaalam
- 90) Naduviral chulukku varmam
- 91) Kaal kavali
- 92) Peruviral mayya varmam
- 93) Adakka varmam
- 94) Konachanni
- 95) Komberi kaalam
- 96) Paathachakkaram.

III. GERIATRICS

(5 hours)

Definition – Description – Care and management physical & mental disorder – Care – External changes.

IV. PSYCHIATRY:

(25 hours)

1) Classification of psychiatric disorders – Aetiological factors – Examination of mental state – Manifestations of psychiatric illness – Delusions and hallucinations – symptoms of depression – Anxiety symptoms – Deliberate self harm and Suicidal ideation – Schizophrenia & Delusional disorders – Mood disorders – Neurotic, stress related and Somatoform disorders – Disorders of Adult personality and behaviour.

Introduction – Definition – Types – Treatment of the following diseases.

2) Paithiyam noi - 18 types

- | | | |
|------------------------|---------------------------|------------------------|
| 1. Aavesa Paithiyam | 2. Abikasa Paithiyam | 3. Mavuna Paithiyam |
| 4. Suronitha Paithiyam | 5. Vihaara Paithiyam | 6. Thaaga Paithiyam |
| 7. Azhal Paithiyam | 8. Murka Paithiyam | 9. Naduku Paithiyam |
| 10. Visha Paithiyam | 11. Pralaaba Paithiyam | 12. Pitha Paithiyam |
| 13. Aankaara Paithiyam | 14. Gnana Paithiyam | 15. Kaivisha Paithiyam |
| 16. Kama Paithiyam | 17. Visha Thaga Paithiyam | 18. Siddha Paithiyam |

3)a) Kirigai noi

b) Unmatham noi c)

Brammai noi d)

Matha noi

e) Mathathiyam noi f)

Soothika vatham

g) Moorchai – Apasmaram – mayakkam.

4) Seizure disorders a)

Valippu noi

b) Kakai Valippu noi

V. PURA MARUTHUVAM (External Therapy) 32 types

(15 hours) Definition

– Types – THOKKANAM – (Physical manipulation) Descriptions according to Therantharu – practical training – Steam therapy - Fume therapy- Bandages- Patru (Plaster) – Ottradam (Fomentation) – Poochu (paste) – Podi thimirdhal (powder massage)- Kalikkam- Anjanam (eye applications) – Nasika paranam (Medicated snuff)- Nasiyam (Nasal drops) – Murichal (Surgical correction of malunited fracture) – kombu kattal (splinting) – peechu (enema/douche) Oothal (blowing), Podi thimirthal-(Massage with herbal grains or paste)

VI. BONE AND JOINT DISEASES:

(25 hours)

Injuries to bones : Fracture – varieties – X-ray findings – complications – indications for surgical treatment – fracture of childhood – reduction procedures with splints – POP and modern techniques – practical training.

Diseases of bones:-Osteomyelitis – Tuberculosis – Rickets – Scurvy – Paget's disease – Osteochondritis –Acromegaly–Tumours of bones–(Benign and malignant)–Secondary tumours.

Injury to Joints: Dislocation of shoulder joint, Jaw etc.

Diseases of Joints: Acute suppurative, Gonococcal, syphilitic arthritis, chronic arthritis - T B gummatous, Rheumatoid and osteo arthritis – X-ray findings.

Injuries to muscles and tendons

Deformities -Scoliosis, kyphosis, cubitus valgus, Dupuytren’s contracture, Coxa vara, Genu valgum, flat foot.

Injury to vertebrae – complications

Skull fracture

VII. Diseases of Central Nervous System : (15 hours)

1. Hemiplegia
2. Parkinsonism
3. Poliomyelitis
4. Cranial nerve disorders
5. Paraplegia
6. Quadriplegia
7. Cerebellar ataxia
8. Myopathy
9. Motor neuron disease

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (200 hours)

- 1) Clinical examination of Neurological, Psychiatry and Orthopedics cases.
- 2) Practical training on Varma Therapy.
- 3) Practical training on Puramaruthuvam – (External therapy) Steam therapy - Fume therapy- Bandages- Patru (Plaster) – Ottradam (Fomentation) – Poochu (paste) – Podi thimirdhal (Massage with herbal grains or paste) - Kalikkam- Anjanam (eye applications) – Nasika paranam- Nasiyam (Nasal applications) – Murichal (Surgical correction of malunited fracture) – kombu kattal (splinting) – peeche (enema/douche)
- 4) Practical training on Therapeutic applications of Yoga.
- 5) Writing case records.

Text Book:

1. Siddha Maruthuvam Sirappu, Dr.R.Thiagarajan, Directorate of Indian Medicine & Homeopathy, Chennai, 1995.
2. Varma Soothiram (A Tamil text on martial arts), Institute of Asian Studies, Chennai, 2007
3. Light on Yoga, Shri BKS Iyengar, HarperCollins Publishers, 2001, ISBN: 9780007107001
4. Siddhar Kaya Karpam – Central Council for Research in Ayurveda & Siddha, New Delhi, 1985
5. External Therapies of Siddha Medicine, Dr.Thirunarayanan, Centre for Traditional Medicine and Research, Chennai, 2010
6. Sanni, Vaisoori, Paithiyam & Oozhinoi Thoguthi (Paithya Roga Nidaanam), T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN :9789380288079

Reference Book

1. Sanni, Vaisoori, Paithiyam & Oozhinoi Thoguthi, T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN :9789380288079
2. Varmam marthuvam – Dr. Kannan Rajaram, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN: 9788190868433

3. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
4. Vatha Noi Thoguthi, T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN :9789380288079
5. Varma Odivu Murivu Saari suthiram 1500, T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN -9789380288062
6. Asana Paranayama Muthira Bantha, Swami Sathyanananda Saraswasthi, Yoga Publications Trust, Bihar, 2008, ISBN: 9788186336144
7. A Short Text Book of psychiatry, M S Bhatia, CBS publishers and distributors Pvt. Ltd., New Delhi 2011. ISBN 9788123920450
8. Text Book of Neurology, Navneet Kumar, PHI learning Pvt. Ltd., New Delhi, 2011, ISBN: 9788120342439
9. Davidson's principle and practice of medicine, 2014, 22nd Edn., Churchill Livingstone, Elsevier, ISBN NO: 9780702050473
10. Text book of orthopaedics and traumatology, Mayilvahanan Natarajan, Wolter Kluwer India | Lippincott William, 2011, ISBN:9788184734430

DISTRIBUTION OF MARKS (MARKS WEIGHTAGE) FOR UNIVERSITY THEORY EXAMINATION

Chapter – 1	20 Marks
Chapter – 2	20 Marks
Chapter – 3 & 4	20 Marks
Chapter – 5	10 Marks
Chapter – 6	20 Marks
Chapter – 7	10 Marks
Total	100 Marks

DISTRUBUTION OF MARKS IN UNIVERSITY CLINICAL EXAMINATIONS

Clinical	70 Marks
Viva voce	20 Marks
Record	10 Marks
Total	100 Marks

ARUVAI, THOL MARUTHUVAM

(SURGERY INCLUDING DENTISTRY AND DERMATOLOGY)

Total Hours : 150

ARUVAI MARUTHUVAM (GENERAL SURGERY)

(60 hours)

1. Literary evidences for the antiquity of surgical practice in Siddha medicine (1 hour)
2. Classification on the practice of treatment. Divine method (Vinnavarurai) – Rational method (Manidarurai) – Surgical method (Asurarurai) – (Aruvai, Agni, Karam and 25 sub divisions). (1 hour)
3. Study on Aruvai (Surgical excision)- Keeral (Incision)- Kuruthi vangal (Blood letting)- Attai vidal(Leech therapy)- Salagai(Probing)- Varthi (Medicated wick)- Oodhal (Blowing)- Peechu - (enema/ douch) -Urinal(Sucking)--Kattudhal(bandaging)- Chuttigai(cauterization)-Vedhu (Steam therapy)- Pugai (Fumigation)- Karam (caustic applications)(2hours)
4. General principles of surgery – Pre and post operative care – its management. (1 hour)
5. Study of causes, clinical features, classification, diagnosis, treatment (medical & surgical) with scientific correlations – clinical examination and investigations for the following diseases.
 - a. Veekam – (Inflammation) (2 hours)
 - b. Punkal – (Ulcers) (2 hours)
 - c. Kattigal- (Tumours) (2 hours)
 - d. Silaippun- (Sinus ulcers & its treatment with karanool) (2 hours)
 - e. Moolanoikal- (Ano-rectal diseases) (2 hours)
 - f. Arpaviranam –(koppulam – mugapparau – Thavalaichori – Akkul koppulam Akkul katti – Akkul nilapoosani katti – Akkul erichal katti – Putru vanmegam Aani – Naga chutru – Setrupun – Maru – Attathar kopulam – Varagu koppulam) (5 hours)
 - g. Pavuthiram – Fistula-in-ano (2 hours)
 - h. Mega kattikal – Diabetic skin lesions, STD (1 hour)
 - i. Yanaikkal – Filariasis (1hour)
 - j. Kandamalai – Cervical adenitis (1 hour)
 - k. Nagil katti – Benign & malignant tumours of the breast (1 hour)
 - l. Vithai noi – Diseases of scrotum (1 hour)
 - m. Kiranthi noi – Chronic ulcers (1 hour)
 - n. Kalladaippu - Renal calculi (1 Hour)
 - o. Aankuri noigal – Diseases of the male genitalia. (1 hour)
6. Naakku noigal (Diseases of the tongue) – Ulnakku noigal (Diseases of the uvula). (2 hours)
7. Acute specific infections – Tetanus, Gas gangrene, Cellulitis, Septicaemia, Bactremia, Pyemia, Wounds. (2 hours)
8. Non- specific infectious diseases: Cellulitis, Carbuncle, Ulceration and gangrene. (2 hours)
9. Tumours and cysts – Benign and malignant tumours. (2 hours)
10. Fluid electrolyte and acid base balance – Parenteral fluid therapy – contra indications to I.V therapy – clinical guide to fluid requirement – Alternative route for parenteral fluid therapy – Proctolysis, Transnasal intragastric tube – Acidosis & Alkalosis. (5 hours)
11. Burns and Scalds – Haemorrhage – Types of Shock (2 hours)
12. a) Diseases of arteries – Aneurysm, Embolism, Thrombosis (5 hours)
b) Diseases of veins – Thrombosis of vein, Varicose vein, Venous ulcer, Thrombophlebitis
c) Diseases of lymphatic vessels and lymph nodes – Lymphoedema, lymphadenitis, lymphadenoma (Hodgekin's disease)

13. Infections of Hand & Foot (1 hour)
14. Diseases of breast – Breast abscess, Fibroadenoma, ANDI, Carcinoma breast. (2 hours)
15. 1) Diseases of Rectum, Anus, Fissure in ano etc. (2 hours)
2) Diseases of urinary bladder, Prostatic gland, retention of urine. (2 hours)
16. Diseases of urethra, Phymosis, Paraphymosis. (1 hour)
17. Diseases of testis & scrotum – Orchitis, Hydrocele, Haematocele, Varicocele, Herniae (2 hours)

KAN, KATHU, MOOKKU, THONDAI MARUTHUVAM

KAN MARUTHUVAM (Eye diseases & Management) (20 hours)

1. Definition of normal healthy eye
2. Names of 96 eye diseases according to “Agasthiyar nayana vithi”
3. Prophylactic measures for healthy vision
4. Causes of eye diseases
5. Classification of eye diseases according to Agasthiyar and Nagamuni nayana vithi – Including their names, signs & symptoms, surgical treatment techniques and medicines
6. Surgical treatment for Pitha kasam
7. Suttigai or Ratchai treatment for Padalam
8. Surgical treatment for Karunagappadalam
9. Ratchai treatment for Ezhuchinoi
10. Surgical treatment for Mudamayir
11. Medicines commonly used for Eye diseases:
 - a) Padalathi mathirai
 - b) Kankasa mathirai
 - c) Matcha Rethinadhi mathirai
 - d) Ilaneer kuzhambu
 - e) Chandrodhaya mathirai
 - f) Narikelanjanam
 - g) Pazha kirambu pakkuva vennai
 - h) Kandu Parpam
 - i) Anda neer
 - j) Kan thailam
12. Comparison with modern diagnosis:
 - a) Suzhal vanderithal - Vitreous opacities
 - b) Naga padalam - Pterygium
 - c) Mayir puzhuvettu - Ulcerative blepharitis
 - d) Amaram - Ophthalmia neonatorum
 - e) Kuvalai vippuruthi - Dacryocystitis
 - f) Vellezhuthu - Presbyopia
 - g) Thurmamisa valarchi – Episcleritis
 - h) Mudamayir - Trichiasis
13. Cataract and its surgical treatment.
14. Conjunctivitis and its treatment.
15. Glaucoma and its treatment.
16. Presbyopia, Myopia, Astigmatism, Nystagmus.
17. The causes and prevention of blindness.
18. Hygiene of Eye.
19. Viral infections of Eye

KATHU MARUTHUVAM (Ear diseases & Management)

(10 hours)

Study of the following ear diseases with internal and external medicines: Sevi vatha noi – sevi soolai noi – sevi sannai noi – sevi vippuruthi noi – Sevi yezhuchi, Sevi Karappan - sevikkuttam – seviparu – sevipilavai

1. Diseases of the external ear.
2. Diseases of Middle Ear
3. Tinnitus
4. Deafness

MOOKKU MARUTHUVAM (Nasal diseases& Management)

(5 hours)

1. Peenisam - Nasal and paranasal sinus diseases.
2. Epistaxis
3. Rhinitis, nasal polyp.
4. Head ache

THONDAI MARUTHUVAM (THROAT DISEASES& Management)

(5 hours)

1. Infections of nasopharynx, Tonsils, Adenoids, Esophagus.
2. Acute and chronic laryngitis
3. Disorders of voice.

PAL MARUTHUVAM (DENTISTRY)

(15 hours)

1. Pal noigal (Dental diseases) – Eeru noigal (Diseases of the gums) –Aids to Oral Hygiene.
2. Abnormalities of Structure – Hypoplasia of the deciduous and permanent dentition – classification of aetiological factors in hypoplasia – Fluorosis – Prevention of fluorosis.
3. Attrition, Abrasion and erosion of the Teeth.
4. Dental caries.
5. Inflammation, Necrosis and Gangrene of pulp.
6. Acute and chronic periapical abscess.
7. Resorption of the Teeth.
8. Cementum abnormalities associated with its formation.
9. Stains and discolouration of the Teeth.
10. Gingivitis – supra gingival and sub gingival calculus – Stomatitis.
11. Congenital abnormalities of salivary glands – congenital atresia of the ducts.

THOL MARUTHUVAM (SKIN DISEASES & Management)

(35 hours)

1. Classification of Kutta noigal according to “Yugi chinthamani”
2. Definition for common Dermatological terms Macule – Papule – Vesicles – Wheal – Pustule – Scales – Crust – Excoriations – Fissure –Ulcer - Scar – Alopecia Areata – Atrophy – Burrow – Comedone – Circinata – Erythema – Erythroderma – Erythemato – Squamous – Granuloma etc.
3. Aids to healthy skin
4. Karappaan - Dermatitis and Eczema.
5. Padarthamarai – Tinea infections - Pimples(Acnes)- Verkuru (Prickly heat)
6. Kanakkadi, Silvida thadippu- Urticaria
7. Puzhu vettu-Alopaecia

8. Podugu-Dandruf, Palunni-Molluscum, Maru-Wart
9. Venpadai – Vitis and leucoderma
10. Kalanjaga Padai - Psoriasis
11. Sirangu- Scabies
12. Perunoi – Leprosy
13. Bacterial, Viral, Fungal infections of the skin
14. Drug eruption and Bullous eruptions.
15. Diseases of the hair and scalp – Nails – Sebaceous glands – Sweat glands.
16. Skin disorders due to metabolic, nutritional, vascular, atrophic, endocrinal dysfunction and poisons.

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (200 hours)

- 1) Aruvai (Surgical excision)- Keeral (Incision)- Kuruthi vungal (Blood letting)- Attai vidal (Leech therapy)- Salagai(Probing)- Varthi (Medicated wick)- Oodhal (Blowing)- Peechu (Douch/enema)- Urinchal(Sucking)- Kattudhal (bandaging)- Chuttigai(cauterization)-Vedhu (Steam therapy)- Pugai (Fumigation)- Karam (caustic medicines)
- 2) Sterilization – Anti sepsis – Sepsis – Surgical Instruments
- 3) Dressing of Ulcers and wounds.
- 4) Hospital infection and preventions
- 5) I.V. fluids infusion and blood transfusion
- 6) Modern surgical instruments – Various Forceps – Retractors – Needle holders – Urinary Catheters - Proctoscope – nasogastric tube – Suture needles and Threads.
- 7) Suture materials – varieties of suture – practical training in suturing.
- 8) Preparation and application of Karanool.
- 9) A knowledge of anaesthesia of general & local.
- 10) Examination of surgical cases – Acute abdomen- wounds – tumours etc.
- 11) Examination of Eye – Ear – Nose – Throat – Skin etc.
- 12) Writing case sheets of surgical cases.
- 13) Practical training in reading, X-rays, Ultra sonogram, CT scan & MRI.
- 14) 1st aid – to aid unconscious patients – CPR – bandages – snake bite – scorpion sting – burns – scalds – haemorrhages and etc.

REFERENCE BOOKS

1. Siddhar Aruvai Maruthuvam, Dr.C.S. Uthamarayan, Department of Indian Medicine and Homeopathy, Chennai, 3rd Edn., 1999,
2. Siddha Maruthuvam Sirappu, Dr.R.Thiagarajan, Directorate of Indian Medicine & Homeopathy, Chennai, 1995.
3. Kan Maruthuvam, Mohammed Iqbal, .
4. Agathiar Nayana Vidhi 500, Amirthalingam Pillai, T.S. Manoranjani Press, Chennai, 1936.
5. Nagamunivar Nayana Vidhi 200, Amirthalingam Pillai, T.S. Manoranjani Press, Chennai, 1936
6. Sarabendra Vaidya Muraigal-Nayana Roga Sigichai, Amirthalingam Pillai, T.S. and Vengatranjan, S. Saraswathi Mahal Library Publication, Thanjavur, 1959.
7. Kann Maruthuvam, Madhavan, V.R, International Institute of Tamil Studies, Chennai, 1982.
8. Siddhar Aruvai Maruthuvam, Uthamarayan, C.S. Dept. of Indian Medicine and Homeopathy, Chennai, 1968

9. Agathiar 2000, Vengatraman, S., Sarasvati Mahal Library Publication, Thanjavur, 1981, pp. 219-319.
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12. Theran Thylavarka Churakkam, Ramachandiran S P., Thamarai Noolagam, Chennai, 2012.
13. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
14. Baily & love's Short practice of surgery, Norman S Williams, CRC Press, ISBN: 9781444121278
15. A Manual on Clinical surgery, S. Das, S. Das's Publications, ISBN: 9788190568104
16. SRB's Manual of surgery, Sriram Bhatt, Jaypee Brothers Medical Publishers Pvt. Ltd. ISBN: 9789351524168
17. Text book of Diseases of Eye, Vasudev Anantha Rao, All India Publishers & Distributors, 2015, ISBN : 9788180040481
18. Diseases of Ear, Nose, Throat – Dr. Muhammed Iqbal
19. Practice of Dermatology, Dr. Bhel, CBS Publishers & Distributors, 2002, ISBN: 9788123905723
20. Essentials in Dermatology, D. M. Thappa, Jaypeebrothers, 2009, ISBN: 9788184485585
21. A concise text book of surgery, Das S., Dr Somen Das – Kolkata, 2014, ISBN: 9788190568128,

DISTRIBUTION OF MARKS (WEIGHTAGE OF MARKS) FOR UNIVERSITY THEORY EXAMINATION

- A) Questions shall be framed for Siddha aspect- 50 marks
B) Questions shall be framed for Modern aspect- 50 marks

A) Siddha aspect

- a) Introduction- Chapter 2 & 3 of the syllabus - 10 Marks
- b) Study of surgical diseases- chapter 5 of the syllabus- 25 Marks
- c) Kan, Kathu, Mooku and Thol Maruthuvam- 15 Marks

In which, questions can be framed for any categories up to the maximum instructed. Maximum marks should not be exceeded beyond 50 marks.

The questions shall be for Siddha aspect as follows:

- a) One essay question – $1 \times 10 = 10$
- b) Five short notes - $5 \times 5 = 25$
- c) Five brief answers- $5 \times 3 = 15$

B) Modern aspect

Questions shall be framed for Modern aspect- 50 marks

- a) General surgery - 30 Marks
- b) Dermatology - 10 Marks
- c) ENT and Ophthalmology- 10 Marks

In which, questions can be framed for any categories up to the maximum instructed. Maximum marks should not be exceeded beyond 50 marks.



SUBJECT: SOOL, MAGALIR MARUTHUVAM
(Obstetrics and Gynaecology)

Total Hours : 100

SOOL MARUTHUVAM (Obstetrics)

- I. Koopagam (Anatomy and Physiology) : (3 hrs)
 1. Applied Anatomy of Pelvis – Types – Divisions - True & False Pelvis – pelvic floor – Perineum.
 2. External Genital organs – Internal Genital organs
 3. Breast – Physiology of ovulation and Menstruation.
- II. Karu Urpathy : (4hrs)

(Development of Embryo) According to Siddha aspect – Early development of Embryo in Modern aspect – Fertilization – Morula – Blastocyst- Implantation – Trophoblast – Decidua – Chorion and chorionic villi – Amnion – Amniotic fluid - Development of inner cell mass – Umbilical cord transport – Placental development – Placental hormones and Functions - Maternal and fetal circulation.
- III. Karpini Urupugalin Maruthalgal: (Maternal changes due to Pregnancy) (4hrs)

Role of hormones in pregnancy. Management of disorders and treatment
- IV. Sool Kanippu: (Diagnosis of Pregnancy): (4hrs)

First, Second & Third trimester – Subjective – Objective – confirmative signs – Assessment of duration of pregnancy – Calculation of Estimated Date of confinement – Pseudocyesis – Difference between Primi and multigravidae.
- V. Karpini Tharkaapu (Antenatal care): (5hrs)

Abdominal and pelvic examination – Antenatal visits – Advice – Obstetric grips – Vaginal examination – Minor ailments in pregnancy - Siddha treatment and Yogasanas during pregnancy. Contraception – Siddha and modern concepts – Oral – Injectables – Implants - IUCDs. Etc – Management and treatment

vi. Magavu: (Foetus) : (2hrs)

Attitude – lie – Presentation – Position – Sizes of embryo and Foetus during gestation.
Diameters of fetal skull – term baby – Preterm baby. – Management and treatment

vii. Irattai Magavu and Pan Sool: (Twins and Multiple pregnancy). (2hrs)

viii. Magaperu Kukaranam: (Complications of Pregnancy): (9hrs)

Hyperemesis gravidarum – Hydatidiform mole – Oligohydramnios – Polyhydramnios - Anaemia
– Abnormalities of placenta and cord – Hypertensive disorders of pregnancy – Gestational
Hypertension - Pre eclampsia – Eclampsia – Gunava avathanagam (Stanza 324 of Yugi vaithiya
chinthamani) – Preterm labour – Premature Rupture of Membrane (PROM) – Intra Uterine
Growth Retardation (IUGR) – Rhesus isoimmunisation. – Management and treatment -Maternal
infection – TORCH – Sexually Transmitted Diseases (STD) – Syphilis – HIV – Gonorrhoea –
Chicken pox – Malaria – Diabetes – Heart disease – Liver disease – Tuberculosis – Urinary Tract
infections. – Management and treatment

ix. Karuchithaivu: (Abortion) : (4hrs)

Types, Kandagava avathanagam (Stanza 323 of Yugi vaithiya chinthamani) – Differential
diagnosis — Management and treatment – Ectopic Pregnancy – Tubal – abdominal – ovarian.

x. Magapperu Mun Uthirasalai: (Antepartum Hemorrhage): (2hrs)

a. Abruptio placenta b. Placenta previa. – Management and treatment

xi. Sukha Magaperu Nadai: (Stages of Normal Labour): (3hrs)

Role of hormones in Labour – Uterine action. – Management students are to be exposed to
sufficient number of deliveries.

xii. Sukha Magaperu Nigalchikal: (Mechanism of Normal Labour): (2hrs)

Descent – flexion – Internal rotation – Extension – restitution – external rotation.

xiii. Sukha Magaperu Kanippu: (Management of Normal Labour): (3hrs)

Diagnosis of Labour – Management of First Stage – Aseptic and Antiseptic precautions - Second
stage of Labour – Delivery position- Episiotomy – Ligation of cord – Management of third stage.

xiv. Asatharana Magaperu: (Abnormal Labour): (6hrs)

Occipito posterior presentation – Face – brow – Breech – Transverse or oblique lie – Compound
presentation – Cesarean procedures – Management

xv. Sool Poopu Sugaranam: (Normal Puerperium): (3hrs)

Involution of uterus – other pelvic Structures - Lochia – Lactation – Physiology of Lactation –
Advantages of breast feeding – care of puerperium – care of the newborn. – Management and
treatment

xvi. Magaperu Pin Uthirasalai: (Postpartum hemorrhage): (1hr)

Retained placenta. – Management and treatment

xvii. Sool Poopu Kukaranam: (Abnormalities of the Puerperium) (3hrs)

Puerperal pyrexia – Puerperal sepsis – subinvolution – Predisposing causes – Organisms – venous complications in the puerperium – Deep vein Thrombosis – Thrombophlebitis – Cerebral venous Thrombosis – Mastitis and breast abscess – Postpartum pituitary Necrosis – Psychiatric disorders during puerperium. – Management and treatment

I. Text books :

1. Sool Maruthuvam, P.M. Venugopal, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 5th Edn. 2007.
2. DC Dutta's Textbook of Obstetrics, DC Dutta, Hiralal Konar, 8th Edn. JAY PEE Bros. Medical Publishers Pvt. Ltd., ISBN:9789351527237
3. Mudaliar and Menon's Clinical Obstetrics, Universities Press Pvt Ltd., Hyderabad, 12th Edn., 2015

II. Reference books:

1. Agathiyar vaithiya chinthamani, Dr.Prema, Thamarai noolakam, March 1996
2. Chikicha rathina deepam 4000, C. Kannusami pillai, Rathnanayagar & sons, Chennai. 1st Edn., 2007.
3. Maadhar Maruthuvam, Dr.Chidambarathanu pillai Siddha Medical Literature Research Centre, Chennai, 2nd Edn., Nov. 1984.
4. Arivaiyar chinthamani, Dr.P.Mohan raj, ATSVS Siddha medical college, Munchirai, May 2008.
5. Yacob vaithiya chinthamani 700, S.P. Ramachandran, Thamarai noolakam, May 1996.
6. Theraiyar vagadam, B.Ramachandran, Thamarai noolakam, October 2000.
7. Theraiyar thailavarukka surukkam, C.T.Subramaniya pandithar, Rathnanayagar & sons, Chennai, 4th Edn., 2006.
8. Theraiyar vaithiya kaaviyam 1500, S.P. Ramachandran, Thamarai noolakam, 2nd Edn., Aug 2000.
9. Yugimuni vaithiya kaaviyaam, P.C Mohan, Thamarai noolakam, 2nd Edn., October 2014.
10. Birammamuni vaithiya soothiram Vol. II, Dr.K.Maruthamuthu, Saraswathy mahal noolakam, Thanjavur, 2nd Edn., 2006.
11. Pulippani vaithiyam 500, S.P. Ramachandran, Thamarai noolakam, 1st Edn., Dec 1999.
12. Eliya vaithiya muraikal 800, Dr.Prema, Tamil university, Thanjavur, 2nd Edn., May 2010.
13. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998.

SUBJECT: MAGALIR MARUTHUVAM (Gynaecology)

1. History, Examination and diagnostic procedure of a Gynecological patient. (1hr)
2. Congenital malformation of female genital organs. (1hr)
Vaginal – Uterine – Fallopian tube – ovarian anomalies – other anomalies.
3. Muthal Poopu(Sukharanam & Kukaranam): (1hr)
Puberty – Normal and abnormal. – Management and treatment
4. Poopu: (2hrs)
Menstruation –Menstrual cycle-Hypothalamo-pituitary-Ovarian axis (H-P-O axis) –
Premenstrual syndrome. – Management and treatment
5. Kadai Poopu: (1hr)
Menopause – organ changes – Menopausal symptoms – Management in siddha.
6. Neuroendocrinology in relation to Reproduction. (1hr)
7. Poopu Kolarugal: (Disorders of Menstruation). (2hrs)
Amennorrhoea – Menorrhagia – Metrorrhagia – Dysfunctional Uterine bleeding – Types –
DD – – Management and treatment
8. Soothagavali: (Dysmenorrhoea): (1hr)
Siddha and modern concepts– Management and treatment
9. Karuppai Adithallal:(Displacement of Uterus). (1hr)
Genital prolapse – Retroversion – chronic inversion. – Management and treatment
10. Maladu: (4hrs)
Infertility in Siddha and modern aspects – Types, Treatment and Management
11. Yoni Rogangal: Diseases of the Vagina in Siddha aspect and treatment. (2hrs)
12. Koopaga Urupugallin azharchi: Infections of the pelvic organs. (4hrs)
Vellai -(Leucorrhoea) – Vulvitis – Bartholinitis – Vaginitis – Cervicitis – Endometritis –
Salpingitis – Oophoritis – Parametritis – Genital Tuberculosis – Management and treatment
Sexually Transmitted Infections.
Gonorrhoea – Syphilis – AIDS – Hepatitis B & C – Bacterial vaginosis – Trichomonas Vaginitis
– monilial vaginitis – Management and treatment
13. Siruneer vega Kolarugal: Urinary problems in Gynecology. (2hrs)
Urinary Tract Infections – Incontinence – Fistula – Vesico vaginal fistula and Recto vaginal
fistula (VVF & RVF). – Management and treatment
14. Nan Maravai Kattigal-Karuppai (Benign lesions of the Uterus) (2hrs)
Fibroid – polyps. – Management and treatment

15. Nachu Maravai Kattigal- Karuppai (Malignant lesions of the Uterus) Cancer of cervix, Uterus and Vagina. – Management and treatment	(6hrs)
16. Nan Maravai Kattigal- Sinaippai (Benign lesions of the ovary) Polycystic ovarian Disease (PCOD) – Siddha treatment. Follicular cyst – Endometrial (Chocolate cyst) – Dermoid cyst. – Management and treatment	(2hrs)
17. Nachu Maravai Kattigal – Sinaippai: (Malignant Ovarian Tumors) Management and treatment	(2hrs)
18. Nagil Sothanai: Breast Examination – Fibroadenoma – Carcinoma. – Management and treatment	(3hrs)
19. Miscellaneous: Post menopausal bleeding – Lowbackache – Dyspareunia – Pruritus Vulvae – Hirsutism. – Management and treatment– Hermaphroditism, Turner’s syndrome, Klinefelter’s syndrome- Virilism – Management	(2hr)

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (175 hours)

1. Examination of Ante natal and Post natal Cases
2. Practical training on handling instruments like speculum, uterine sound, vulsalum etc.,
3. Vaginal smear
4. Clinical examination of Breast.
5. Writing of case records.
6. Training on Ultrasonogram ,necessary investigations and interpretations.
7. Application of Puramauthuvam in OG conditions

Text books :

1. Magalir Maruthuvam, P.M. Venugopal, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 4th Edn., Reprint, 2013.
2. DC Dutta’s Textbook of Gynaecology, DC Dutta, Hiralal Konar, 7th Edn. JAY PEE Bros. Medical Publishers Pvt. Ltd., ISBN: 9789385891595
3. Shaw’s Text book of Gynecology, Shirish N. Daftary & V.G. Padubidri, Reed Elsiwer India Pvt. Ltd, 16th Edn 2015, ISBN: 9788131238721.

Reference books:

1. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
2. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn., 1998.
3. Agathiyar vaithiya chinthamani 4000, S. Prema, Thamarai noolakam, March 1996.
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5. Maadhar Maruthuvam, Dr.Chidambarathanu pillai Siddha Medical Literature Research Centre, Chennai, 2nd Edn., Nov 1984.Yacob vaithiya chinthamani 700, S.P. Ramachandran, Thamarai noolakam,May 1996.
6. Theraiyar vagadam, B.Ramachandran, Thamarai noolakam,October 2000.
7. Theraiyar thailavarukka surukkam, C.T.Subramaniya pandithar, Rathnanayagar & sons, Chennai. 4th edition-2006.
8. Theraiyar vaithiya kaaviyam 1500, S.P. Ramachandran, Thamarai noolakam,Sec. Edition, Aug 2000.
9. Yugimuni vaithiya kaaviyaam, P.C Mohan, Thamarai noolakam,Sec. Edition, October 2014.
10. Birammamuni vaithiya soothiram Vol. II, K.Maruthamuthu, Saraswathy mahal noolakam, Thanjavur, 2nd Edn., 2006.
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12. Eliya vaithiya muraikal 800, S.Prema, Tamil university, Thanjavur, 2nd Edn.,May2010.
13. Thanvanthiri vaithiya kummi -300, V.R.Madhavan, Tamil university, Thanjavur, 1st Edn., July 2004.

DISTRIBUTION OF MARKS (MARKS WEIGHTAGE) FOR UNIVERSITY THEORY EXAMINATION

SOOL MARUTHUVAM

Chapter – 1 & 2	5 Marks
Chapter – 3 & 4	5 Marks
Chapter – 5	5 Marks
Chapter – 6, 7 & 8	15 Marks
Chapter – 9, 10 & 11	10 Marks
Chapter – 12, 13 & 14	10 Marks
Chapter – 15, 16 & 17	15 Marks

MAGALIR MARUTHUVAM

Chapter – 1, 2, 3, 4, 5 & 6	5 Marks
Chapter – 7, 8 & 9	5 Marks
Chapter – 10, 11, 12, & 13	10 Marks
Chapter – 14, 15, 16 & 17	10 Marks
Chapter – 18 & 19	5 Marks
Total	100 Marks

DISTRIBUTION OF MARKS IN UNIVERSITY CLINICAL EXAMINATIONS

Clinical	70 Marks
Viva voce	20 Marks
Record	10 Marks
Total	100 Marks

**SUBJECT: KUZHANTHAI MARUTHUVAM
(PAEDIATRICS)**

Total Hours : 100

- 1. Neo natal care, Infant care, Child care. (4hrs)**
- 2. Breast milk (3hrs)**
composition, advantages and disadvantages to the children and mother.
- 3. New born (6hrs)**
Term baby-preterm baby-Low birth weight-Minor problems in pediatric age group.-Intrauterine infections.-Respiratory disorders.-Icterus.-Neonatal seizures.-Rh incompatibility-ABO incompatibility.-Undescended testis.-Phimosis.-Hydrocele.-Ambiguous genitalia.-APGAR score.- Neonatal reflexes
- 4. Immunization (3hrs)**
Immunization schedule. (IAP, WHO)-complication of immunisation-other schedules of immunisation-Urai maathirai, Chei ennai
- 5. Growth and development (6hrs)**
Introduction-factors affecting growth and development.-periods of growth-assessment of physical growth-assessment of bone age.-eruption of teeth-behavioural development.- developmental milestones.-developmental delay.
-Disorders of growth and development
 - short stature-failure to thrive
 - behavioural disorders-nail biting, thumb sucking, pica eating
 - poor school achievers.
 - breath holding spells.
- 6. Adolescent (3hrs)**
Physiology.-Stages of sexual maturation.-Hormonal changes.-Health problems during adolescence.-Psychological problems.-Juvenile delinquency-management and line of treatment
- 7. Nutritional deficiency disorders (4hrs)**
Protein energy malnutrition.-Vitamin and mineral deficiency diseases.-management and line of treatment-Study of causes, clinical features, classification, diagnosis, treatment (medical & surgical) with scientific correlations – clinical examination and investigations for the following diseases.
- 8. Agakaarana noigal according to yugimuni (32hrs)**
Kiranthi (2 types)– Thodam(25 types) – Maantham(33 types) – Kanam(24 types) - Karappan(18 types) – Suram(20 types) – Sanni(9 types) – Valippu(4 types) – Akkaram(8 types) - Paandu, Sobai, Kamalai(3 types) – Kazhichal(3)types– Kakkuvan -Amaram-Maalaikann

9.Purakaarana noigal according to yugimuni

(2hr)

Seeri seeri azhuthal – Vikkal – Vayiru porumal- Vayitru noi - Kottaavi – Malakkattu – Neerkkattu -Vayiruveengal – Paal Kudiyaamai - Paal ethireduthal - Thodam

10.Infectious diseases.

(8hrs)

Diphtheria-Pertussis-Tetanus-Mumps-Measles-Chicken pox-AIDS in children.

11.Infestations:

(2hrs)

Naaku poochi -Keeri poochi-Masaraipuzhu-Other infestations-management and line of treatment

12. Gastro intestinal system.

(6hrs)

Seriyamai - Vaanthi – Vikkal - Lactose intolerance - Malabsorption syndrome – Dysentery - Rectal prolapse - Congenital pyloric stenosis - management and line of treatment

13.Cardio vascular system.

(6hrs)

Congenital cardiac diseases. -cyanotic and acyanotic heart diseases -management and line of treatment

14. Central nervous system.

(8hrs)

Baala vaatham and its types-Cerebral palsy. -Mental retardation. Hyperactivity disorders- ADHD, Autism-Temper tantrum. -management and line of treatment

15. Musculo skeletal disorder.

(2hr)

Muscular dystrophy -management and line of treatment

16. Genetic disorder

(2hr)

Down's syndrome & its management, other common genetic disorders

17. Endocrine disorder.

(3hr)

Cushing's syndrome. -Juvenile diabetes mellitus. management and line of treatment

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING

(175 hours)

1. Examination of Infantile and Neonatal cases.
2. Practical training on handling instruments like incubator, suction tube etc.,
3. Practical application on Immunization schedule
4. Training on General and Systemic Examinations of Pediatric cases
5. Writing of case records.
6. Training on Ultrasonogram ,necessary investigations and interpretations.
7. Application of puramaruthuvam in peadiatric ailments.

Reference books

1. Pillaipini maruthuvam, S.sundhar rajan, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 1st edn. 1993
2. Kuzhanthai maruthuvam Vol. I to V, Chidambarathanu pillai, Siddha Medical Literature Research Centre, Chennai, 2003-2004
3. Balavatha nidhanam, Chidambarathanu pillai, Siddha Medical Literature Research Centre, Chennai
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5. Maadhar Maruthuvam, Dr.Chidambarathanu Pillai, Siddha Medical Literature Research Centre, Chennai
6. Mooligai Iyal, Arunachalam V., Pothigai Pathippagam, Ambasamuthiram, 1st Edn., 1994.
7. Pregnancy, childbirth, postpartum and newborn care - A guide for essential practice, WHO, United Nations Population Fund & UNICEF, 3rd edn., 2015
8. Managing complications in pregnancy and childbirth - A guide for midwives and doctors, WHO; United Nations Population Fund; UNICEF & World Bank, 2003, ISBN: 9241545879
9. Managing newborn problems -A guide for doctors, nurses and midwives, World Health Organization, Dept. of Reproductive Health and Research; United Nations Population Fund; UNICEF, ISBN: 9241546220
10. WHO recommended interventions for improving maternal and newborn health -Integrated management of pregnancy and childbirth, WHO, 2007
11. Standards for maternal and neonatal care - Group 1: General standards of care for healthy pregnancy and childbirth, World Health Organization, Department of Making Pregnancy Safer and Department of Reproductive Health and Research, 2007 (Web only version as a part of WHO Integrated Management of Pregnancy and Childbirth Care (IMPAC) Package)
12. Balavagadam, C.S. Murugesu Mudaliar (Au.), Pon Kurusironmani (Ed.), Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
13. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
14. Aathmaratchaamirthamennum Vaithiya Saara Sangiragam, Kandasamy Mudaliar, Sri Shenbaga Pathipagam, 2012
15. Kuzhanthai Nala Maruthuvam, Dr. N. Rajarajeswari, Dr. A. Jagadeesan, Tamil University, Thanjavoor, 2003, ICBN: 9788170903154
16. Mathalai Noi thoguthi, Dr. P. Mohanraj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, 2008 (Vol. I, II), 2009 Vol. III, ISBN : 9789380288109
17. Guide to Child Care (Parenting the Indian way), R.K. Anand, Vakils Feffer And Simons Ltd., 2nd Edn. 2008, ISBN: 9788184620085
18. Siddha Maruthuvam, Dr. Kuppusamy Mudhaliar, Tamilnadu Siddha medical council, Chennai, 2nd edn, 1987.
19. Ghai Essential Pediatrics, Vinod K Paul, CBS Publishers & Distributors-New Delhi ISBN: 9788123923345,
20. Achar's Textbook of Pediatrics, Swarna Rekha Bhat (ed.), Universities Press, 4th Edn., 2009

DISTRIBUTION OF MARKS (MARKS WEIGHTAGE) FOR UNIVERSITY THEORY EXAMINATION

Chapter – 1, 2 & 3	3 Marks
Chapter – 4	5 Marks
Chapter – 5 & 6	5 Marks
Chapter – 7	5 Marks
Chapter – 8	45 Marks
Chapter – 9	5 Marks
Chapter – 10	5 Marks
Chapter – 11	3 Marks
Chapter – 12	5 Marks
Chapter – 13	3 Marks
Chapter – 14	5 Marks
Chapter – 15	3 Marks
Chapter – 16	5 Marks
Chapter – 17	3 Marks
Total	100 Marks

DISTRIBUTION OF MARKS IN UNIVERSITY CLINICAL EXAMINATIONS

Clinical	70 Marks
Viva voce	20 Marks
Record	10 Marks
Total	100 Marks

Syllabus for Siddha Maruthuva Arignar (BSMS) Course
Final Professional BSMS
(2013 Scheme)

SUBJECT: MARUTHUVAM (MEDICINE)

Total Hours : 150

Study of following disease with clinical demonstration, their various names, Definition, causes, premonitory signs, signs & symptoms, description about the humoral disorders, pulse reading, complications, Associated disease, fatal signs, Line of treatment, prognosis, specific or special medicines, regimen and diet. Necessary modern scientific correlations shall also be incorporated as and when required.

1. Kural kammal (Hoarseness of voice) (2 hours)
2. Mookkadaippu (Sinusitis and Nasal block) (2 hours)
3. Irumal noi (Cough) (2 hours)
4. Eraippu noi (Bronchial asthma) (2 hours)
5. Elaippu noi (Tuberculosis) (2 hours)
6. Kuruthiazhal noi (Bleeding disorders and abnormalities of blood pressure) (2 hours)
7. Thamaraga noi (pertaining with heart diseases) (3 hours)
8. Veluppu noi (Anaemia) (2 hours)
9. Oodhal noi (Dropsy) (2 hours)
10. Ulaimanthai (Acute / chronic enteritis) (2 hours)
11. Suvayinmai (Disorder of tastes) (2 hours)
12. Seriyamai (Indigestion) (2 hours)
13. Neervetkai (Polydipsia) (2 hours)
14. Vikkal (Hiccup) (2 hours)
15. Vanthi (Vomitting) (2 hours)
16. Mantham (Dyspepsia) (2 hours)
17. Gunmam (Pain abdomen) (3 hours)
18. Manneeral noi (Diseases of spleen) (2 hours)
19. Kalleeral noi (Diseases of liver) (2 hours)
20. Manjal noi (Jaundice) (2 hours)
21. Peruvayiru (Abdominal distension) (4 hours)
22. Kudalpidippu (Abdominal colic) (2 hours)
23. Perunkalichal noi (Diarrhoea) (2 hours)

24. Ninakalichal noi (Amoebic dysentery) (2 hours)
 25. Kaduppu kalichal noi (Bacillary dysentery) (2 hours)
 26. Oozhi noi (Cholera) (2 hours)
 27. Soolai (Pricking pain of varied aetiology) (3 hours)

28. Siruneer noikal

28 (I) Neerinai arukkal noikal (Conditions of reduced urinary output)

- a) Kalladaippu noi (Renal calculi) (3 hours)
 b) Neeradaippu noi (Retension of urine) (3hours)
 c) Neerkattu (Anuria) (3 hours)
 d) Sottu neer (Incontinence of urine) (3 hours)
 e) Neersurukku (Oliguria) (3 hours)
 f) Vellai noi (Urethritis/ inflammation of the uro-genital organs) (3 hours)

28 (II) Neerinai perukkal noikal (Conditions of increased urinary output)

- a) Meganeer/Athimoothiram(Polyuria) (4 hours)
 b) Neerizhivu (Diabetes mellitus) (3 hours)
 c) Thelineer (Diabetes insipidus) (2 hours)
 d) Venneer (Spermatorrhoea) (2 hours)
29. Keel vayu (Arthritis) (4 hours)
 30. Suram – 64 (Fever – 64 types) (7 hours)
 31. Mukkuttra noi (Delirium) (3 hours)
 32. Ammai noi (Viral infections) (3 hours)
 33. Vatha noi (Rheumatic diseases and other neurological disorders) & Pakkavatham (Hemiplegia) (8 hours)
 34. Pitha noi (Pitha diseases) (5 hours)
 35. Iya noi (Kapha diseases) (4 hours)
 36. Endocrine (diseases) (8 hours)
- (i) Hyper pituitarism
 (ii) Hypo pituitarism
 (iii) Hyper thyroidism
 (iv) Hypo thyroidism
 (v) Cushing's syndrome
 (vi) Adrenal insufficiency
 (vii) Hyper parathyroidism
 (viii) Hypo parathyroidism

37. Infectious diseases (5 hours)
38. Sexually transmitted diseases
- 38.1 Korrukku noi (Syphilis) – 38.2 Mega vettai noi – (Gonorrhoea) (5 hours)
39. Ema kurai noi/ Theivu noi – HIV & AIDS (3 hours)
40. Life style disorders (7 hours)

PRACTICALS: (200 hours)

1. Practical training in the general examination and systemic examination.
2. Maintaining clinical records
3. Envagai thervu
4. Nadi parisothanai
5. Application of Neerkuri and Neikuri
6. Application of Manikkadai nool
7. Application of Clinical investigations and interpretations
8. Practical training in common medical emergencies
9. Practical application of puramaruthuvam in medical cases

REFERENCE BOOKS:

1. Siddha Maruthuvam, Kuppusamy Muthaliar (1st Edn. 1954), Tamilnadu Siddha medical council, Chennai, 2nd Edn. 1987.
2. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
3. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
4. Siddha Maruthuvaanga Surukkam, C. S. Uthamarayan, H.P.I.M., Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai,
5. Noikalukku Siddha parikaram Part I & II, Shanmugavelu, Indian medicine and homeopathy department, Chennai – 106, (1st Edn. 1972, Reprint: 2012)
6. Davidson's principle and practice of medicine, 2014, 22nd Edn., Churchill Livingstone, Elsevier, ISBN NO.- 9780702050473
7. Hutchison's Clinical Methods, Saunders Ltd. ISBN: 978-0-7020-4091-7.
8. Practical Medicine, PJ Mehta, The National Book Depot, 20th Edn., 2013, ISBN : 9788190704618

SUBJECT: VARMAM, PURAMARUTHUVAM AND SIRAPPUMARUTHUVAM
(Varmam Therapy, External Therapy and Special Medicine)

Total Hours : 150

I KAYAKALPAM

(15 hours)

Definition – Description – Regimen – uses & etc.

- 1) Kalpa medicines (Rejuvenation Therapy) - Classification – General & special karpam.
 - Mooligai karpam – (Herbal origin)
 - Thathu Karpam (minerals origin)
 - Jeeva Karpam – (Animal origin)
- 2) Attanga yogam - Iyamam- Niyamam- Asanam- Pranayamam- Prathiyakaram- Thaaranaithiyanam-Samadhi
- 3) Pranayamam – Definition – Philosophy – method – Regimen – Uses
- 4) Yoga –Definition – Principles of yoga practice- yoga postures – types - explanation– philosophy – uses.
- 5) Muppu - Definition – philosophies – classification – description – uses.

II. VARMAM:

(10 hours)

1. Definition – Description about the importance of Varmam – why it is called as Unique feature of Siddha system : - Basic Philosophies related to the formation of Varma points – classification based on three humours – based on anatomical locations – based on signs & symptoms – special & particular physical manipulation techniques & massage pertaining to Varma therapy – pulse diagnosis of varma patients – Important medicines used in varma therapy – Specific food items prescribed for the patients.
2. Detailed study about the following Varma points:- (it includes location – signs & symptoms – necessary manipulation techniques – medicines)

Paduvarmam (12)

(6 hours)

- | | |
|----------------------|-------------------------------|
| 1) Uchi varmam | 7) Urakka kaalam |
| 2) Pidari kaalam | 8) Thummi kaalam |
| 3) Chevikuthikaalam | 9) Ner Varmam |
| 4) Natchathirakaalam | 10) Adappa kaalam |
| 5) Thilartha kaalam | 11) Periya athisurikki kaalam |
| 6) Kannaadikaalam | 12) Kallidai kaalam |

Thodu varmam (96)

(34 hours)

- I. Varma points located in Head & Neck :(22)

- | | |
|-----------------------|--------------------------------|
| 1) Pootellu Varmam | 12) Aayama kaalam |
| 2) Mun chuvadi varmam | 13) Nadi kaalam |
| 3) Nettri kaalam | 14) Chenni Varmam |
| 4) Pin chuvadi varmam | 15) Poigai kaalam |
| 5) Porichal varmam | 16) Kurunthukuthi kaalam |
| 6) Puruva kaalam | 17) Alavattukona chenni Varmam |

- 7) kannakaalam
- 8) Kumbidum kaalam
- 9) Bala varmam
- 10) Chuliyadi Varmam
- 11) Moorthi kaalam
- 18) Vettu Varmam
- 19) Kokki kaalam.
- 20) Manthira kaalam
- 21) Kannu varmam
- 22) Arukukaalam.

II Varma Points located in Trunk : (37)

- 23) Malar varmam
- 24) Vilangu varmam
- 25) Kulir varmam
- 26) Arangu varmam
- 27) Maattraan kaalam
- 28) Thivalai varmam
- 29) Kaareeral varmam
- 30) Velleeral varmam
- 31) Koombu varmam
- 32) Nenchadaippan varmam
- 33) Villu varmam
- 34) Mundellu varmam
- 35) Urumi varmam
- 36) Kuttri varmam
- 37) Kakotta kaalam
- 38) Chippi varmam
- 39) Changu thirikaalam
- 40) Vaayu kaalam
- 41) Manthira kaalam
- 42) Chiriya Athichuriki
- 43) Iruppu varmam
- 44) Villu varmam
- 45) Andakkaalam
- 46) Kaccha varmam
- 47) Thandu varmam
- 48) Thandinadi varmam
- 49) Pandri varmam
- 50) Ada varmam
- 51) Mothira kaalam
- 52) Vaanthi kaalam
- 53) Valamburi kaalam
- 54) Chorutheenda kaalam
- 55) Naabi varmam
- 56) Hanuman varmam
- 57) Pushti kaalam
- 58) Chuli varmam
- 59) Kurunthukuthi kaalam.

III The Varma points located in the Extremities: (37)

- 60) Thuthikai varmam
- 61) Dhakshana kaalam
- 62) Kavali varmam
- 63) Peruviral mayya varmam
- 64) Manikattu varmam
- 65) Kannu varmam
- 66) Muzhankai varmam
- 67) Muttu varmam
- 68) Kochu varmam
- 69) Chulukku varmam
- 70) Puja varmam
- 71) Mozhi varmam
- 72) Aani varmam
- 73) Pathakkala varmam
- 74) Chulukku varmam
- 75) Kochu varmam
- 76) Aama kaalam
- 77) Thundu varmam
- 78) Chirattai varmam
- 79) Muttu varmam
- 80) Channi varmam
- 81) Naai thalai varmam
- 82) Visha varmam
- 83) Uppu Kuttri varmam
- 84) Kaal kannu varmam
- 85) Kuthikaal varmam
- 86) Nadai varmam
- 87) Kulachu varmam
- 88) Mudichu Varmam
- 89) Boomi kaalam
- 90) Naduviral chulukku varmam
- 91) Kaal kavali
- 92) Peruviral mayya varmam
- 93) Adakka varmam
- 94) Konachanni
- 95) Komberi kaalam
- 96) Paathachakkaram.

III. GERIATRICS

(5 hours)

Definition – Description – Care and management physical & mental disorder – Care – External changes.

IV. PSYCHIATRY:

(25 hours)

1) Classification of psychiatric disorders – Aetiological factors – Examination of mental state – Manifestations of psychiatric illness – Delusions and hallucinations – symptoms of depression – Anxiety symptoms – Deliberate self harm and Suicidal ideation – Schizophrenia & Delusional disorders – Mood disorders – Neurotic, stress related and Somatoform disorders – Disorders of Adult personality and behaviour.

Introduction – Definition – Types – Treatment of the following diseases.

2) Paithiyam noi - 18 types

- | | | |
|------------------------|---------------------------|------------------------|
| 1. Aavesa Paithiyam | 2. Abikasa Paithiyam | 3. Mavuna Paithiyam |
| 4. Suronitha Paithiyam | 5. Vihaara Paithiyam | 6. Thaaga Paithiyam |
| 7. Azhal Paithiyam | 8. Murka Paithiyam | 9. Naduku Paithiyam |
| 10. Visha Paithiyam | 11. Pralaaba Paithiyam | 12. Pitha Paithiyam |
| 13. Aankaara Paithiyam | 14. Gnana Paithiyam | 15. Kaivisha Paithiyam |
| 16. Kama Paithiyam | 17. Visha Thaga Paithiyam | 18. Siddha Paithiyam |

3)a) Kirigai noi

b) Unmatham noi c)

Brammai noi d)

Matha noi

e) Mathathiyam noi f)

Soothika vatham

g) Moorchai – Apasmaram – mayakkam.

4) Seizure disorders a)

Valippu noi

b) Kakai Valippu noi

V. PURA MARUTHUVAM (External Therapy) 32 types

(15 hours) Definition

– Types – THOKKANAM – (Physical manipulation) Descriptions according to Therantharu – practical training – Steam therapy - Fume therapy- Bandages- Patru (Plaster) – Ottradam (Fomentation) – Poochu (paste) – Podi thimirdhal (powder massage)- Kalikkam- Anjanam (eye applications) – Nasika paranam (Medicated snuff)- Nasiyam (Nasal drops) – Murichal (Surgical correction of malunited fracture) – kombu kattal (splinting) – peechu (enema/douche) Oothal (blowing), Podi thimirthal-(Massage with herbal grains or paste)

VI. BONE AND JOINT DISEASES:

(25 hours)

Injuries to bones : Fracture – varieties – X-ray findings – complications – indications for surgical treatment – fracture of childhood – reduction procedures with splints – POP and modern techniques – practical training.

Diseases of bones:-Osteomyelitis – Tuberculosis – Rickets – Scurvy – Paget's disease – Osteochondritis –Acromegaly–Tumours of bones–(Benign and malignant)–Secondary tumours.

Injury to Joints: Dislocation of shoulder joint, Jaw etc.

Diseases of Joints: Acute suppurative, Gonococcal, syphilitic arthritis, chronic arthritis - T B gummatous, Rheumatoid and osteo arthritis – X-ray findings.

Injuries to muscles and tendons

Deformities -Scoliosis, kyphosis, cubitus valgus, Dupuytren’s contracture, Coxa vara, Genu valgum, flat foot.

Injury to vertebrae – complications

Skull fracture

VII. Diseases of Central Nervous System : (15 hours)

1. Hemiplegia
2. Parkinsonism
3. Poliomyelitis
4. Cranial nerve disorders
5. Paraplegia
6. Quadriplegia
7. Cerebellar ataxia
8. Myopathy
9. Motor neuron disease

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (200 hours)

- 1) Clinical examination of Neurological, Psychiatry and Orthopedics cases.
- 2) Practical training on Varma Therapy.
- 3) Practical training on Puramaruthuvam – (External therapy) Steam therapy - Fume therapy- Bandages- Patru (Plaster) – Ottradam (Fomentation) – Poochu (paste) – Podi thimirdhal (Massage with herbal grains or paste) - Kalikkam- Anjanam (eye applications) – Nasika paranam- Nasiyam (Nasal applications) – Murichal (Surgical correction of malunited fracture) – kombu kattal (splinting) – peeche (enema/douche)
- 4) Practical training on Therapeutic applications of Yoga.
- 5) Writing case records.

Text Book:

1. Siddha Maruthuvam Sirappu, Dr.R.Thiagarajan, Directorate of Indian Medicine & Homeopathy, Chennai, 1995.
2. Varma Soothiram (A Tamil text on martial arts), Institute of Asian Studies, Chennai, 2007
3. Light on Yoga, Shri BKS Iyengar, HarperCollins Publishers, 2001, ISBN: 9780007107001
4. Siddhar Kaya Karpam – Central Council for Research in Ayurveda & Siddha, New Delhi, 1985
5. External Therapies of Siddha Medicine, Dr.Thirunarayanan, Centre for Traditional Medicine and Research, Chennai, 2010
6. Sanni, Vaisoori, Paithiyam & Oozhinoi Thoguthi (Paithya Roga Nidaanam), T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN :9789380288079

Reference Book

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2. Varmam marthuvam – Dr. Kannan Rajaram, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN: 9788190868433

3. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
4. Vatha Noi Thoguthi, T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN :9789380288079
5. Varma Odivu Murivu Saari suthiram 1500, T.Mohana Raj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, ISBN -9789380288062
6. Asana Paranayama Muthira Bantha, Swami Sathyanananda Saraswathi, Yoga Publications Trust, Bihar, 2008, ISBN: 9788186336144
7. A Short Text Book of psychiatry, M S Bhatia, CBS publishers and distributors Pvt. Ltd., New Delhi 2011. ISBN 9788123920450
8. Text Book of Neurology, Navneet Kumar, PHI learning Pvt. Ltd., New Delhi, 2011, ISBN: 9788120342439
9. Davidson's principle and practice of medicine, 2014, 22nd Edn., Churchill Livingstone, Elsevier, ISBN NO: 9780702050473
10. Text book of orthopaedics and traumatology, Mayilvahanan Natarajan, Wolter Kluwer India | Lippincott William, 2011, ISBN:9788184734430

ARUVAI, THOL MARUTHUVAM

(SURGERY INCLUDING DENTISTRY AND DERMATOLOGY)

Total Hours : 150

ARUVAI MARUTHUVAM (GENERAL SURGERY)

(60 hours)

1. Literary evidences for the antiquity of surgical practice in Siddha medicine (1 hour)
2. Classification on the practice of treatment. Divine method (Vinnavarurai) – Rational method (Manidarurai) – Surgical method (Asurarurai) – (Aruvai, Agni, Karam and 25 sub divisions). (1 hour)
3. Study on Aruvai (Surgical excision)- Keeral (Incision)- Kuruthi vungal (Blood letting)- Attai vidal (Leech therapy)- Salagai (Probing)- Varthi (Medicated wick)- Oodhal (Blowing)- Peechu - (enema/ douch) -Urinal (Sucking)--Kattudhal (bandaging)- Chuttigai (cauterization)-Vedhu (Steam therapy)- Pugai (Fumigation)- Karam (caustic applications)(2hours)
4. General principles of surgery – Pre and post operative care – its management. (1 hour)
5. Study of causes, clinical features, classification, diagnosis, treatment (medical & surgical) with scientific correlations – clinical examination and investigations for the following diseases.
 - a. Veekam – (Inflammation) (2 hours)
 - b. Punkal – (Ulcers) (2 hours)
 - c. Kattigal- (Tumours) (2 hours)
 - d. Silaippun- (Sinus ulcers & its treatment with karanool) (2 hours)
 - e. Moolanoikal- (Ano-rectal diseases) (2 hours)
 - f. Arpaviranam –(koppulam – mugapparu – Thavalaichori – Akkul koppulam Akkul katti – Akkul nilapoosani katti – Akkul erichal katti – Putru vanmegam Aani – Naga chutru – Setrupun – Maru – Attathar kopulam – Varagu koppulam) (5 hours)
 - g. Pavuthiram – Fistula-in-ano (2 hours)
 - h. Mega kattikal – Diabetic skin lesions, STD (1 hour)
 - i. Yanaikkal – Filariasis (1hour)
 - j. Kandamalai – Cervical adenitis (1 hour)
 - k. Nagil katti – Benign & malignant tumours of the breast (1 hour)
 - l. Vithai noi – Diseases of scrotum (1 hour)
 - m. Kiranthi noi – Chronic ulcers (1 hour)
 - n. Kalladaippu - Renal calculi (1 Hour)
 - o. Aankuri noigal – Diseases of the male genitalia. (1 hour)
6. Naakku noigal (Diseases of the tongue) – Ulnakku noigal (Diseases of the uvula). (2 hours)
7. Acute specific infections – Tetanus, Gas gangrene, Cellulitis, Septicaemia, Bactremia, Pyemia, Wounds. (2 hours)
8. Non- specific infectious diseases: Cellulitis, Carbuncle, Ulceration and gangrene. (2 hours)
9. Tumours and cysts – Benign and malignant tumours. (2 hours)
10. Fluid electrolyte and acid base balance – Parenteral fluid therapy – contra indications to I.V therapy – clinical guide to fluid requirement – Alternative route for parenteral fluid therapy – Proctolysis, Transnasal intragastric tube – Acidosis & Alkalosis. (5 hours)
11. Burns and Scalds – Haemorrhage – Types of Shock (2 hours)
12. a) Diseases of arteries – Aneurysm, Embolism, Thrombosis (5 hours)
b) Diseases of veins – Thrombosis of vein, Varicose vein, Venous ulcer, Thrombophlebitis
c) Diseases of lymphatic vessels and lymph nodes – Lymphoedema, lymphadenitis, lymphadenoma (Hodgekin's disease)

13. Infections of Hand & Foot (1 hour)
14. Diseases of breast – Breast abscess, Fibroadenoma, ANDI, Carcinoma breast. (2 hours)
15. 1) Diseases of Rectum, Anus, Fissure in ano etc. (2 hours)
2) Diseases of urinary bladder, Prostatic gland, retention of urine. (2 hours)
16. Diseases of urethra, Phymosis, Paraphymosis. (1 hour)
17. Diseases of testis & scrotum – Orchitis, Hydrocele, Haematocele, Varicocele, Herniae (2 hours)

KAN, KATHU, MOOKKU, THONDAI MARUTHUVAM

KAN MARUTHUVAM (Eye diseases & Management) (20 hours)

1. Definition of normal healthy eye
2. Names of 96 eye diseases according to “Agasthiyar nayana vithi”
3. Prophylactic measures for healthy vision
4. Causes of eye diseases
5. Classification of eye diseases according to Agasthiyar and Nagamuni nayana vithi – Including their names, signs & symptoms, surgical treatment techniques and medicines
6. Surgical treatment for Pitha kasam
7. Suttigai or Ratchai treatment for Padalam
8. Surgical treatment for Karunagappadalam
9. Ratchai treatment for Ezhuchinoi
10. Surgical treatment for Mudamayir
11. Medicines commonly used for Eye diseases:
 - a) Padalathi mathirai
 - b) Kankasa mathirai
 - c) Matcha Rethinadhi mathirai
 - d) Ilaneer kuzhambu
 - e) Chandrodhaya mathirai
 - f) Narikelanjanam
 - g) Pazha kirambu pakkuva vennai
 - h) Kandu Parpam
 - i) Anda neer
 - j) Kan thailam
12. Comparison with modern diagnosis:
 - a) Suzhal vanderithal - Vitreous opacities
 - b) Naga padalam - Pterygium
 - c) Mayir puzhuvettu - Ulcerative blepharitis
 - d) Amaram - Ophthalmia neonatorum
 - e) Kuvalai vippuruthi - Dacryocystitis
 - f) Vellezhuthu - Presbyopia
 - g) Thurmamisa valarchi – Episcleritis
 - h) Mudamayir - Trichiasis
13. Cataract and its surgical treatment.
14. Conjunctivitis and its treatment.
15. Glaucoma and its treatment.
16. Presbyopia, Myopia, Astigmatism, Nystagmus.
17. The causes and prevention of blindness.
18. Hygiene of Eye.
19. Viral infections of Eye

KATHU MARUTHUVAM (Ear diseases & Management)

(10 hours)

Study of the following ear diseases with internal and external medicines: Sevi vatha noi – sevi soolai noi – sevi sannai noi – sevi vippuruthi noi – Sevi yezhuchi, Sevi Karappan - sevikkuttam – seviparu – sevipilavai

1. Diseases of the external ear.
2. Diseases of Middle Ear
3. Tinnitus
4. Deafness

MOOKKU MARUTHUVAM (Nasal diseases& Management)

(5 hours)

1. Peenisam - Nasal and paranasal sinus diseases.
2. Epistaxis
3. Rhinitis, nasal polyp.
4. Head ache

THONDAI MARUTHUVAM (THROAT DISEASES& Management)

(5 hours)

1. Infections of nasopharynx, Tonsils, Adenoids, Esophagus.
2. Acute and chronic laryngitis
3. Disorders of voice.

PAL MARUTHUVAM (DENTISTRY)

(15 hours)

1. Pal noigal (Dental diseases) – Eeru noigal (Diseases of the gums) –Aids to Oral Hygiene.
2. Abnormalities of Structure – Hypoplasia of the deciduous and permanent dentition – classification of aetiological factors in hypoplasia – Fluorosis – Prevention of fluorosis.
3. Attrition, Abrasion and erosion of the Teeth.
4. Dental caries.
5. Inflammation, Necrosis and Gangrene of pulp.
6. Acute and chronic periapical abscess.
7. Resorption of the Teeth.
8. Cementum abnormalities associated with its formation.
9. Stains and discolouration of the Teeth.
10. Gingivitis – supra gingival and sub gingival calculus – Stomatitis.
11. Congenital abnormalities of salivary glands – congenital atresia of the ducts.

THOL MARUTHUVAM (SKIN DISEASES & Management)

(35 hours)

1. Classification of Kutta noigal according to “Yugi chinthamani”
2. Definition for common Dermatological terms Macule – Papule – Vesicles – Wheal – Pustule – Scales – Crust – Excoriations – Fissure –Ulcer - Scar – Alopecia Areata – Atrophy – Burrow – Comedone – Circinata – Erythema – Erythroderma – Erythemato – Squamous – Granuloma etc.
3. Aids to healthy skin
4. Karappaan - Dermatitis and Eczema.
5. Padarthamarai – Tinea infections - Pimples(Acnes)- Verkuru (Prickly heat)
6. Kanakkadi, Silvida thadippu- Urticaria
7. Puzhu vettu-Alopaecia

8. Podugu-Dandruf, Palunni-Molluscum, Maru-Wart
9. Venpadai – Vitis and leucoderma
10. Kalanjaga Padai - Psoriasis
11. Sirangu- Scabies
12. Perunoi – Leprosy
13. Bacterial, Viral, Fungal infections of the skin
14. Drug eruption and Bullous eruptions.
15. Diseases of the hair and scalp – Nails – Sebaceous glands – Sweat glands.
16. Skin disorders due to metabolic, nutritional, vascular, atrophic, endocrinal dysfunction and poisons.

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (200 hours)

- 1) Aruvai (Surgical excision)- Keeral (Incision)- Kuruthi vungal (Blood letting)- Attai vidal (Leech therapy)- Salagai(Probing)- Varthi (Medicated wick)- Oodhal (Blowing)- Peechu (Douch/enema)- Urinchal(Sucking)- Kattudhal (bandaging)- Chuttigai(cauterization)-Vedhu (Steam therapy)- Pugai (Fumigation)- Karam (caustic medicines)
- 2) Sterilization – Anti sepsis – Sepsis – Surgical Instruments
- 3) Dressing of Ulcers and wounds.
- 4) Hospital infection and preventions
- 5) I.V. fluids infusion and blood transfusion
- 6) Modern surgical instruments – Various Forceps – Retractors – Needle holders – Urinary Catheters - Proctoscope – nasogastric tube – Suture needles and Threads.
- 7) Suture materials – varieties of suture – practical training in suturing.
- 8) Preparation and application of Karanool.
- 9) A knowledge of anaesthesia of general & local.
- 10) Examination of surgical cases – Acute abdomen- wounds – tumours etc.
- 11) Examination of Eye – Ear – Nose – Throat – Skin etc.
- 12) Writing case sheets of surgical cases.
- 13) Practical training in reading, X-rays, Ultra sonogram, CT scan & MRI.
- 14) 1st aid – to aid unconscious patients – CPR – bandages – snake bite – scorpion sting – burns – scalds – haemorrhages and etc.

REFERENCE BOOKS

1. Siddhar Aruvai Maruthuvam, Dr.C.S. Uthamarayan, Department of Indian Medicine and Homeopathy, Chennai, 3rd Edn., 1999,
2. Siddha Maruthuvam Sirappu, Dr.R.Thiagarajan, Directorate of Indian Medicine & Homeopathy, Chennai, 1995.
3. Kan Maruthuvam, Mohammed Iqbal, .
4. Agathiar Nayana Vidhi 500, Amirthalingam Pillai, T.S. Manoranjani Press, Chennai, 1936.
5. Nagamunivar Nayana Vidhi 200, Amirthalingam Pillai, T.S. Manoranjani Press, Chennai, 1936
6. Sarabendra Vaidya Muraigal-Nayana Roga Sigichai, Amirthalingam Pillai, T.S. and Vengatranjan, S. Saraswathi Mahal Library Publication, Thanjavur, 1959.
7. Kann Maruthuvam, Madhavan, V.R, International Institute of Tamil Studies, Chennai, 1982.
8. Siddhar Aruvai Maruthuvam, Uthamarayan, C.S. Dept. of Indian Medicine and Homeopathy, Chennai, 1968

9. Agathiar 2000, Vengatraman, S., Sarasvati Mahal Library Publication, Thanjavur, 1981, pp. 219-319.
10. Agasthiar Rana Vaidhyam, Vaithiyar.V.R.Sundaram,
11. Siddha Vaidya Thirattu, K.N.Kuppusamy Mudaliar, Dept. of Indian Medicine and Homeopathy, Chennai
12. Theran Thylavarka Churakkam, Ramachandiran S P., Thamarai Noolagam, Chennai, 2012.
13. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
14. Baily & love's Short practice of surgery, Norman S Williams, CRC Press, ISBN: 9781444121278
15. A Manual on Clinical surgery, S. Das, S. Das's Publications, ISBN: 9788190568104
16. SRB's Manual of surgery, Sriram Bhatt, Jaypee Brothers Medical Publishers Pvt. Ltd. ISBN: 9789351524168
17. Text book of Diseases of Eye, Vasudev Anantha Rao, All India Publishers & Distributors, 2015, ISBN : 9788180040481
18. Diseases of Ear, Nose, Throat – Dr. Muhammed Iqbal
19. Practice of Dermatology, Dr. Bhel, CBS Publishers & Distributors, 2002, ISBN: 9788123905723
20. Essentials in Dermatology, D. M. Thappa, Jaypeebrothers, 2009, ISBN: 9788184485585
21. A concise text book of surgery, Das S., Dr Somen Das – Kolkata, 2014, ISBN: 9788190568128,

SUBJECT: SOOL, MAGALIR MARUTHUVAM
(Obstetrics and Gynaecology)

Total Hours : 100

SOOL MARUTHUVAM (Obstetrics)

- I. Koopagam (Anatomy and Physiology) : (3 hrs)
 1. Applied Anatomy of Pelvis – Types – Divisions - True & False Pelvis – pelvic floor – Perineum.
 2. External Genital organs – Internal Genital organs
 3. Breast – Physiology of ovulation and Menstruation.
- II. Karu Urpathy : (4hrs)

(Development of Embryo) According to Siddha aspect – Early development of Embryo in Modern aspect – Fertilization – Morula – Blastocyst- Implantation – Trophoblast – Decidua – Chorion and chorionic villi – Amnion – Amniotic fluid - Development of inner cell mass – Umbilical cord transport – Placental development – Placental hormones and Functions - Maternal and fetal circulation.
- III. Karpini Urupugalin Maruthalgal: (Maternal changes due to Pregnancy) (4hrs)

Role of hormones in pregnancy. Management of disorders and treatment
- IV. Sool Kanippu: (Diagnosis of Pregnancy): (4hrs)

First, Second & Third trimester – Subjective – Objective – confirmative signs – Assessment of duration of pregnancy – Calculation of Estimated Date of confinement – Pseudocyesis – Difference between Primi and multigravidae.
- V. Karpini Tharkaapu (Antenatal care): (5hrs)

Abdominal and pelvic examination – Antenatal visits – Advice – Obstetric grips – Vaginal examination – Minor ailments in pregnancy - Siddha treatment and Yogasanas during pregnancy. Contraception – Siddha and modern concepts – Oral – Injectables – Implants - IUCDs. Etc – Management and treatment

vi. Magavu: (Foetus) : (2hrs)

Attitude – lie – Presentation – Position – Sizes of embryo and Foetus during gestation.
Diameters of fetal skull – term baby – Preterm baby. – Management and treatment

vii. Irattai Magavu and Pan Sool: (Twins and Multiple pregnancy). (2hrs)

viii. Magaperu Kukaranam: (Complications of Pregnancy): (9hrs)

Hyperemesis gravidarum – Hydatidiform mole – Oligohydramnios – Polyhydramnios - Anaemia
– Abnormalities of placenta and cord – Hypertensive disorders of pregnancy – Gestational
Hypertension - Pre eclampsia – Eclampsia – Gunava avathanagam (Stanza 324 of Yugi vaithiya
chinthamani) – Preterm labour – Premature Rupture of Membrane (PROM) – Intra Uterine
Growth Retardation (IUGR) – Rhesus isoimmunisation. – Management and treatment -Maternal
infection – TORCH – Sexually Transmitted Diseases (STD) – Syphilis – HIV – Gonorrhoea –
Chicken pox – Malaria – Diabetes – Heart disease – Liver disease – Tuberculosis – Urinary Tract
infections. – Management and treatment

ix. Karuchithaivu: (Abortion) : (4hrs)

Types, Kandagava avathanagam (Stanza 323 of Yugi vaithiya chinthamani) – Differential
diagnosis — Management and treatment – Ectopic Pregnancy – Tubal – abdominal – ovarian.

x. Magapperu Mun Uthirasalai: (Antepartum Hemorrhage): (2hrs)

a. Abruptio placenta b. Placenta previa. – Management and treatment

xi. Sukha Magaperu Nadai: (Stages of Normal Labour): (3hrs)

Role of hormones in Labour – Uterine action. – Management students are to be exposed to
sufficient number of deliveries.

xii. Sukha Magaperu Nigalchikal: (Mechanism of Normal Labour): (2hrs)

Descent – flexion – Internal rotation – Extension – restitution – external rotation.

xiii. Sukha Magaperu Kanippu: (Management of Normal Labour): (3hrs)

Diagnosis of Labour – Management of First Stage – Aseptic and Antiseptic precautions - Second
stage of Labour – Delivery position- Episiotomy – Ligation of cord – Management of third stage.

xiv. Asatharana Magaperu: (Abnormal Labour): (6hrs)

Occipito posterior presentation – Face – brow – Breech – Transverse or oblique lie – Compound
presentation – Cesarean procedures – Management

xv. Sool Poopu Sugaranam: (Normal Puerperium): (3hrs)

Involution of uterus – other pelvic Structures - Lochia – Lactation – Physiology of Lactation –
Advantages of breast feeding – care of puerperium – care of the newborn. – Management and
treatment

xvi. Magaperu Pin Uthirasalai: (Postpartum hemorrhage): (1hr)

Retained placenta. – Management and treatment

xvii. Sool Poopu Kukaranam: (Abnormalities of the Puerperium) (3hrs)

Puerperal pyrexia – Puerperal sepsis – subinvolution – Predisposing causes – Organisms – venous complications in the puerperium – Deep vein Thrombosis – Thrombophlebitis – Cerebral venous Thrombosis – Mastitis and breast abscess – Postpartum pituitary Necrosis – Psychiatric disorders during puerperium. – Management and treatment

I. Text books :

1. Sool Maruthuvam, P.M. Venugopal, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 5th Edn. 2007.
2. DC Dutta's Textbook of Obstetrics, DC Dutta, Hiralal Konar, 8th Edn. JAY PEE Bros. Medical Publishers Pvt. Ltd., ISBN:9789351527237
3. Mudaliar and Menon's Clinical Obstetrics, Universities Press Pvt Ltd., Hyderabad, 12th Edn., 2015

II. Reference books:

1. Agathiyar vaithiya chinthamani, Dr.Prema, Thamarai noolakam, March 1996
2. Chikicha rathina deepam 4000, C. Kannusami pillai, Rathnanayagar & sons, Chennai. 1st Edn., 2007.
3. Maadhar Maruthuvam, Dr.Chidambarathanu pillai Siddha Medical Literature Research Centre, Chennai, 2nd Edn., Nov. 1984.
4. Arivaiyar chinthamani, Dr.P.Mohan raj, ATSVS Siddha medical college, Munchirai, May 2008.
5. Yacob vaithiya chinthamani 700, S.P. Ramachandran, Thamarai noolakam, May 1996.
6. Theraiyar vagadam, B.Ramachandran, Thamarai noolakam, October 2000.
7. Theraiyar thailavarukka surukkam, C.T.Subramaniya pandithar, Rathnanayagar & sons, Chennai, 4th Edn., 2006.
8. Theraiyar vaithiya kaaviyam 1500, S.P. Ramachandran, Thamarai noolakam, 2nd Edn., Aug 2000.
9. Yugimuni vaithiya kaaviyaam, P.C Mohan, Thamarai noolakam, 2nd Edn., October 2014.
10. Birammamuni vaithiya soothiram Vol. II, Dr.K.Maruthamuthu, Saraswathy mahal noolakam, Thanjavur, 2nd Edn., 2006.
11. Pulippani vaithiyam 500, S.P. Ramachandran, Thamarai noolakam, 1st Edn., Dec 1999.
12. Eliya vaithiya muraikal 800, Dr.Prema, Tamil university, Thanjavur, 2nd Edn., May 2010.
13. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998.

SUBJECT: MAGALIR MARUTHUVAM (Gynaecology)

1. History, Examination and diagnostic procedure of a Gynecological patient. (1hr)
2. Congenital malformation of female genital organs. (1hr)
Vaginal – Uterine – Fallopian tube – ovarian anomalies – other anomalies.
3. Muthal Poopu(Sukharanam & Kukaranam): (1hr)
Puberty – Normal and abnormal. – Management and treatment
4. Poopu: (2hrs)
Menstruation –Menstrual cycle-Hypothalamo-pituitary-Ovarian axis (H-P-O axis) –
Premenstrual syndrome. – Management and treatment
5. Kadai Poopu: (1hr)
Menopause – organ changes – Menopausal symptoms – Management in siddha.
6. Neuroendocrinology in relation to Reproduction. (1hr)
7. Poopu Kolarugal: (Disorders of Menstruation). (2hrs)
Amennorrhoea – Menorrhagia – Metrorrhagia – Dysfunctional Uterine bleeding – Types –
DD – – Management and treatment
8. Soothagavali: (Dysmenorrhoea): (1hr)
Siddha and modern concepts– Management and treatment
9. Karuppai Adithallal:(Displacement of Uterus). (1hr)
Genital prolapse – Retroversion – chronic inversion. – Management and treatment
10. Maladu: (4hrs)
Infertility in Siddha and modern aspects – Types, Treatment and Management
11. Yoni Rogangal: Diseases of the Vagina in Siddha aspect and treatment. (2hrs)
12. Koopaga Urupugallin azharchi: Infections of the pelvic organs. (4hrs)
Vellai -(Leucorrhoea) – Vulvitis – Bartholinitis – Vaginitis – Cervicitis – Endometritis –
Salpingitis – Oophoritis – Parametritis – Genital Tuberculosis – Management and treatment
Sexually Transmitted Infections.
Gonorrhoea – Syphilis – AIDS – Hepatitis B & C – Bacterial vaginosis – Trichomonas Vaginitis
– monilial vaginitis – Management and treatment
13. Siruneer vega Kolarugal: Urinary problems in Gynecology. (2hrs)
Urinary Tract Infections – Incontinence – Fistula – Vesico vaginal fistula and Recto vaginal
fistula (VVF & RVF). – Management and treatment
14. Nan Maravai Kattigal-Karuppai (Benign lesions of the Uterus) (2hrs)
Fibroid – polyps. – Management and treatment

15. Nachu Maravai Kattigal- Karuppai (Malignant lesions of the Uterus) Cancer of cervix, Uterus and Vagina. – Management and treatment	(6hrs)
16. Nan Maravai Kattigal- Sinaippai (Benign lesions of the ovary) Polycystic ovarian Disease (PCOD) – Siddha treatment. Follicular cyst – Endometrial (Chocolate cyst) – Dermoid cyst. – Management and treatment	(2hrs)
17. Nachu Maravai Kattigal – Sinaippai: (Malignant Ovarian Tumors) Management and treatment	(2hrs)
18. Nagil Sothanai: Breast Examination – Fibroadenoma – Carcinoma. – Management and treatment	(3hrs)
19. Miscellaneous: Post menopausal bleeding – Lowbackache – Dyspareunia – Pruritus Vulvae – Hirsutism. – Management and treatment– Hermaphroditism, Turner’s syndrome, Klinefelter’s syndrome- Virilism – Management	(2hr)

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING (175 hours)

1. Examination of Ante natal and Post natal Cases
2. Practical training on handling instruments like speculum, uterine sound, vulsalum etc.,
3. Vaginal smear
4. Clinical examination of Breast.
5. Writing of case records.
6. Training on Ultrasonogram ,necessary investigations and interpretations.
7. Application of Puramauthuvam in OG conditions

Text books :

1. Magalir Maruthuvam, P.M. Venugopal, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 4th Edn., Reprint, 2013.
2. DC Dutta’s Textbook of Gynaecology, DC Dutta, Hiralal Konar, 7th Edn. JAY PEE Bros. Medical Publishers Pvt. Ltd., ISBN: 9789385891595
3. Shaw’s Text book of Gynecology, Shirish N. Daftary & V.G. Padubidri, Reed Elsiwer India Pvt. Ltd, 16th Edn 2015, ISBN: 9788131238721.

Reference books:

1. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
2. Yugi vaidhya chintamani, Yugimamunivar, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn., 1998.
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4. Chikicha rathina deepam, C.Kannusami pillai, Rathnanayagar & sons, Chennai. 1st Edn., 2007.

5. Maadhar Maruthuvam, Dr.Chidambarathanu pillai Siddha Medical Literature Research Centre, Chennai, 2nd Edn., Nov 1984.Yacob vaithiya chinthamani 700, S.P. Ramachandran, Thamarai noolakam,May 1996.
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7. Theraiyar thailavarukka surukkam, C.T.Subramaniya pandithar, Rathnanayagar & sons, Chennai. 4th edition-2006.
8. Theraiyar vaithiya kaaviyam 1500, S.P. Ramachandran, Thamarai noolakam,Sec. Edition, Aug 2000.
9. Yugimuni vaithiya kaaviyaam, P.C Mohan, Thamarai noolakam,Sec. Edition, October 2014.
10. Birammamuni vaithiya soothiram Vol. II, K.Maruthamuthu, Saraswathy mahal noolakam, Thanjavur, 2nd Edn., 2006.
11. Pulippaani vaithiyam 500, S.P. Ramachandran, Thamarai noolakam, 1st Edn., Dec 1999.
12. Eliya vaithiya muraikal 800, S.Prema, Tamil university, Thanjavur, 2nd Edn.,May2010.
13. Thanvanthiri vaithiya kummi -300, V.R.Madhavan, Tamil university, Thanjavur, 1st Edn., July 2004.

**SUBJECT: KUZHANTHAI MARUTHUVAM
(PAEDIATRICS)**

Total Hours : 100

- 1. Neo natal care, Infant care, Child care. (4hrs)**
- 2. Breast milk (3hrs)**
composition, advantages and disadvantages to the children and mother.
- 3. New born (6hrs)**
Term baby-preterm baby-Low birth weight-Minor problems in pediatric age group.-Intrauterine infections.-Respiratory disorders.-Icterus.-Neonatal seizures.-Rh incompatibility-ABO incompatibility.-Undescended testis.-Phimosis.-Hydrocele.-Ambiguous genitalia.-APGAR score.- Neonatal reflexes
- 4. Immunization (3hrs)**
Immunization schedule. (IAP, WHO)-complication of immunisation-other schedules of immunisation-Urai maathirai, Cheiennai
- 5. Growth and development (6hrs)**
Introduction-factors affecting growth and development.-periods of growth-assessment of physical growth-assessment of bone age.-eruption of teeth-behavioural development.-developmental milestones.-developmental delay.
-Disorders of growth and development
 - short stature-failure to thrive
 - behavioural disorders-nail biting, thumb sucking, pica eating
 - poor school achievers.
 - breath holding spells.
- 6. Adolescent (3hrs)**
Physiology.-Stages of sexual maturation.-Hormonal changes.-Health problems during adolescence.-Psychological problems.-Juvenile delinquency-management and line of treatment
- 7. Nutritional deficiency disorders (4hrs)**
Protein energy malnutrition.-Vitamin and mineral deficiency diseases.-management and line of treatment-Study of causes, clinical features, classification, diagnosis, treatment (medical & surgical) with scientific correlations – clinical examination and investigations for the following diseases.
- 8. Agakaarana noigal according to yugimuni (32hrs)**
Kiranthi (2 types)– Thodam(25 types) – Maantham(33 types) – Kanam(24 types) - Karappan(18 types) – Suram(20 types) – Sanni(9 types) – Valippu(4 types) – Akkaram(8 types) - Paandu, Sobai, Kamalai(3 types) – Kazhichal(3)types– Kakkuvan -Amaram-Maalaikann

9.Purakaarana noigal according to yugimuni

(2hr)

Seeri seeri azhuthal – Vikkal – Vayiru porumal- Vayitru noi - Kottaavi – Malakkattu – Neerkkattu -Vayiruveengal – Paal Kudiyaamai - Paal ethireduthal - Thodam

10.Infectious diseases.

(8hrs)

Diphtheria-Pertussis-Tetanus-Mumps-Measles-Chicken pox-AIDS in children.

11.Infestations:

(2hrs)

Naaku poochi -Keeri poochi-Masaraipuzhu-Other infestations-management and line of treatment

12. Gastro intestinal system.

(6hrs)

Seriyamai - Vaanthi – Vikkal - Lactose intolerance - Malabsorption syndrome – Dysentery - Rectal prolapse - Congenital pyloric stenosis - management and line of treatment

13.Cardio vascular system.

(6hrs)

Congenital cardiac diseases. -cyanotic and acyanotic heart diseases -management and line of treatment

14. Central nervous system.

(8hrs)

Baala vaatham and its types-Cerebral palsy. -Mental retardation. Hyperactivity disorders- ADHD, Autism-Temper tantrum. -management and line of treatment

15. Musculo skeletal disorder.

(2hr)

Muscular dystrophy -management and line of treatment

16. Genetic disorder

(2hr)

Down's syndrome & its management, other common genetic disorders

17. Endocrine disorder.

(3hr)

Cushing's syndrome. -Juvenile diabetes mellitus. management and line of treatment

PRACTICAL TRAINING IN THE ATTACHED HOSPITAL ON THE FOLLOWING

(175 hours)

1. Examination of Infantile and Neonatal cases.
2. Practical training on handling instruments like incubator, suction tube etc.,
3. Practical application on Immunization schedule
4. Training on General and Systemic Examinations of Pediatric cases
5. Writing of case records.
6. Training on Ultrasonogram ,necessary investigations and interpretations.
7. Application of puramaruthuvam in peadiatric ailments.

Reference books

1. Pillaipini maruthuvam, S.sundhar rajan, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, 1st edn. 1993
2. Kuzhanthai maruthuvam Vol. I to V, Chidambarathanu pillai, Siddha Medical Literature Research Centre, Chennai, 2003-2004
3. Balavatha nidhanam, Chidambarathanu pillai, Siddha Medical Literature Research Centre, Chennai
4. Kuzhandhai vaithiyam, Chidambarathanu pillai, Siddha Medical Literature Research Centre, Chennai, 1997
5. Maadhar Maruthuvam, Dr.Chidambarathanu Pillai, Siddha Medical Literature Research Centre, Chennai
6. Mooligai Iyal, Arunachalam V., Pothigai Pathippagam, Ambasamuthiram, 1st Edn., 1994.
7. Pregnancy, childbirth, postpartum and newborn care - A guide for essential practice, WHO, United Nations Population Fund & UNICEF, 3rd edn., 2015
8. Managing complications in pregnancy and childbirth - A guide for midwives and doctors, WHO; United Nations Population Fund; UNICEF & World Bank, 2003, ISBN: 9241545879
9. Managing newborn problems -A guide for doctors, nurses and midwives, World Health Organization, Dept. of Reproductive Health and Research; United Nations Population Fund; UNICEF, ISBN: 9241546220
10. WHO recommended interventions for improving maternal and newborn health -Integrated management of pregnancy and childbirth, WHO, 2007
11. Standards for maternal and neonatal care - Group 1: General standards of care for healthy pregnancy and childbirth, World Health Organization, Department of Making Pregnancy Safer and Department of Reproductive Health and Research, 2007 (Web only version as a part of WHO Integrated Management of Pregnancy and Childbirth Care (IMPAC) Package)
12. Balavagadam, C.S. Murugesu Mudaliar (Au.), Pon Kurusironmani (Ed.), Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai, Revised Edn. 1998
13. Jeeva raktchamirtham, Subramaniya Pandithar, The Arrow Press, Madras, 2nd Edn., 1928
14. Aathmaratchaamirthamennum Vaithiya Saara Sangiragam, Kandasamy Mudaliar, Sri Shenbaga Pathipagam, 2012
15. Kuzhanthai Nala Maruthuvam, Dr. N. Rajarajeswari, Dr. A. Jagadeesan, Tamil University, Thanjavoor, 2003, ICBN: 9788170903154
16. Mathalai Noi thoguthi, Dr. P. Mohanraj, ATSVS Siddha Medical College and Hospital, Kanniyakumari, 2008 (Vol. I, II), 2009 Vol. III, ISBN : 9789380288109
17. Guide to Child Care (Parenting the Indian way), R.K. Anand, Vakils Feffer And Simons Ltd., 2nd Edn. 2008, ISBN: 9788184620085
18. Siddha Maruthuvam, Dr. Kuppusamy Mudhaliar, Tamilnadu Siddha medical council, Chennai, 2nd edn, 1987.
19. Ghai Essential Pediatrics, Vinod K Paul, CBS Publishers & Distributors-New Delhi ISBN: 9788123923345,
20. Achar's Textbook of Pediatrics, Swarna Rekha Bhat (ed.), Universities Press, 4th Edn., 2009