

# CENTRAL COUNCIL OF INDIAN MEDICINE

## SIDDHA MARUTHUVA PERARINGNAR (M.D. (SIDDHA) COURSE

### SYLLABUS FOR POTHUMARUTHUVAM (GENERAL MEDICINE) SPECIALITY

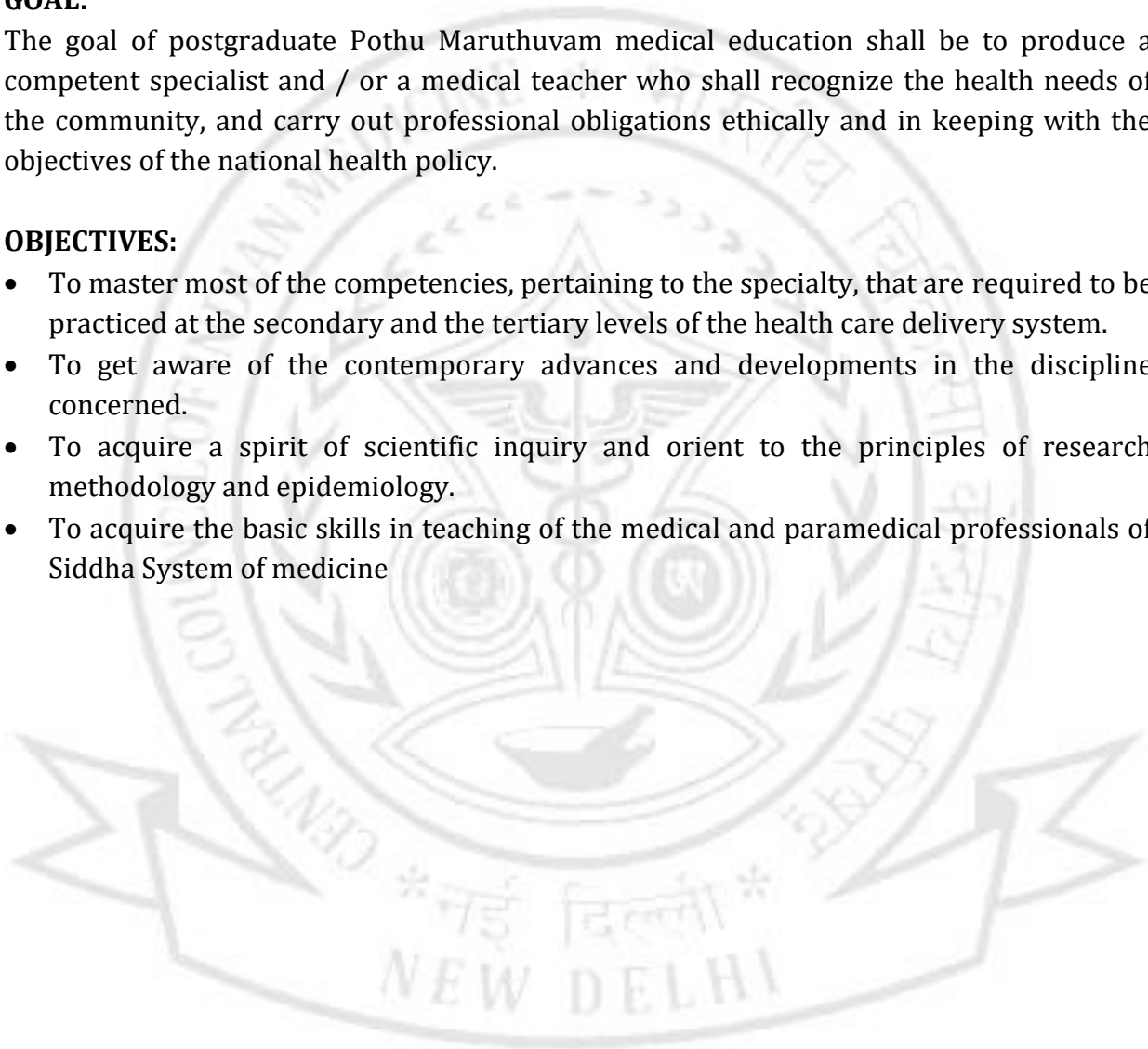
[UNDER THE INDIAN MEDICINE CENTRAL COUNCIL (POST GRADUATE SIDDHA EDUCATION) REGULATIONS, 2016.]

#### GOAL:

The goal of postgraduate Pothu Maruthuvam medical education shall be to produce a competent specialist and / or a medical teacher who shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy.

#### OBJECTIVES:

- To master most of the competencies, pertaining to the specialty, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system.
- To get aware of the contemporary advances and developments in the discipline concerned.
- To acquire a spirit of scientific inquiry and orient to the principles of research methodology and epidemiology.
- To acquire the basic skills in teaching of the medical and paramedical professionals of Siddha System of medicine



<b>FIRST YEAR (Preliminary Examination)</b>					
S.NO	SUBJECT	THEORY	PRACTICAL/CLINICAL	VIVA	TOTAL MARKS
1.	PAPER - I Research Methodology and Bio - Medical Statistics	100	Minor Project - 100(Submission of report -60 marks, Publication/Presentation- 20 marks, Oral-20 Marks)	--	200
2.	PAPER - II Siddha Diagnostic Principles and Modern Clinical Diagnostic Methods	100	100(Clinical 70+Oral-30)	50	250
<b>SECOND YEAR</b>					
	<b>Essential:</b> Obtain CME credit points through Seminars/Workshops/Conferences(National/International) <b>Desirable:</b> Publication/ Visits or internship at Industry / Lab / Research institute /other AYUSH Institutions/ Journal club/ Teaching under graduate Students				
<b>THIRD YEAR (Final Examination)</b>					
S.NO	SUBJECT	THEORY	PRACTICAL/CLINICAL	VIVA	
1.	PAPER-ISiddha Maruthuvam Part- I	100	100(Clinical 70+Oral-30)	50	250
2.	PAPE-II Siddha Maruthuvam Part - II	100	100(Clinical 70+Oral-30)	50	250
3.	PAPER - III Introduction to Pharmacology with Therapeutic Emphasis	100	--	50	150
4.	PAPER -IV Recent Advances in Modern Medicine	100	100(Clinical 70+Oral-30)	50	250

### **Dissertation**

Maximum marks will be 100 and Minimum marks for passing will be fifty percent.

## FIRST YEAR

### PAPER- I RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS

#### CLINICAL RESEARCH METHODS UNIT-I

- Measures of disease frequency
- Measures of association/impact in clinical research
- Measurement errors in clinical research
- Validity in clinical research
- Bias in clinical research
- Descriptive bio-statistics
- Inferential bio-statistics
- Formulating research question
- Descriptive studies
- Analytical studies
- Pre-clinical studies
- Experimental studies
- Sampling and sample size estimation
- Survival analysis

#### CLINICAL RESEARCH METHODS UNIT-II

- Bio-medical literature search / Organization of Literature search (Zoteroetc)
- Developing data collection instruments/Case Record Form (CRF)
- Developing analysis plan
- Use of statistical software for data analysis
- Writing protocol: Principles and Guidelines
- Ethics in clinical research (Siddha, International/National)
- Scientific writing/ Writing the Dissertation (Including University Guidelines)
- Scientific presentation (oral/visual/poster)
- Case report writing / presentation
- Journal critique
- Writing research grants
- Comparative study of traditional medical systems (specifically Chinese, Ayurveda, Homeopathy, Unani)
- Mentorship
- Pedagogic methods

#### CLINICAL RESEARCH METHODS UNIT-III

- Introduction to National health programmes/health system including AYUSH
- Indian health/medical research systems/bodies including AYUSH ICMR, CCRAS, CCRS, Clinical Trials Registry of India etc
- Orientation to National clinical research guidelines/regulatory bodies CDSCO/DCGI/NABH/QCI Indian GCP for ASU
- Drug standardization as per Pharmacopoeial Laboratory for Indian Medicine (PLIM)
- International guidelines ICH-GCP; WHO guidelines for traditional medicine; WHO/OECD guidelines for animal studies

## CLINICAL RESEARCH METHODS UNIT-IV (MINOR PROJECT)

- Cross-sectional study (Hospital-based)
  - Patients; Care-takers; Physicians
  - Cross-sectional study (Community-based)
  - Local traditional health traditions, including traditional bone-setting
  - Community (including tribal populations)
  - Studies using qualitative research methods
  - Clinical epidemiological studies (Hospital-based)
  - Secondary data analysis of clinical data with report
  - Case report/Case-series writing
  - Systematic review
  - Literary research
  - Comparative study of traditional medical systems
  - Report on visit to industry / entrepreneurship ideas
- Publication of any of the above work will get 20 marks

### References:

S.No.	Name of the book, Language, Publishers & Year of publication	Author
1	Health research methodology: A Guide for Training in Research Methods, (English), Second Edition, World Health Organization, Manila, 2001	World Health Organization
2	General Guidelines for Methodologies on Research and Evaluation of Traditional Medicine, (English), First Edition, World Health Organization, 2000	World Health Organization
3	Designing clinical research. (English), Third Edition, Philadelphia: Lippincott Williams and Wilkins; 2013	Hulley SB, Cummings SR, Browner SR, Grady D, Newman TB
4	Biostatistics – Principles and Practice, (English), Elsevier, 2017	B Antonisamy, Solomon Christopher, Prasanna Samuel

## PAPER- II SIDDHA DISAGNOSTIC PRINCIPLES AND MODERN CLINICAL DIAGNOSTIC METHODS

### SIDDHA DISAGNOSTIC PRINCIPLES

- 1) Five elements and its clinical correlations:
- 2) Creation of five elements–Panchabhootha Panchekaranam-Manifestation of five elements in our body–correlation of five elements with three humours–Six tastes and seven physical constituents
- 3) Taste and its description:
- 4) Taste–potency (veeriyam)–five elements and tastes–characters of six tastes–features of imbalanced intake of six tastes–Three humours and six tastes.
- 5) Regulation of breathing– Pranayamam thathuvam.
- 6) Complaints that occur in every month of gestational period and its treatment.
- 7) Details of 96 Thathuvas– Manifestation of five elements into three humours– Aetiology & Pathology of diseases.
- 8) Eight Kinds of diagnostic methods (Ennvagaitervu)

- 9) Nadi(Pulse Examination)–Sparisam(Palpation)–Naa(Tongue) – Niram(Colour)–Mozhi(Speech)– Vizhi(Eye) – Malam(Stools) – Moothiram(Urine) and its details.
- 10) Nadi:Definition– locations– pulseratio – Vatha, Pitha, Kapha, Nadi & Conjoined Nadi–pulse variation according to season–Boothanadi–GuruNadi–Preponderant period of vatha,pitha & KaphaNadi–Saathya - Asaathya Naadi..
- 11) Marana Kuri Kunangal (Fatal signs&symptoms).Thodakurikunangal (Complicated signs & symptoms). Avathaikal (progressof a disease) and their details.
- 12) Three humoral theory-Vatham–Pitham–Kapham-dominant locations–functional varieties–physio-pathological conditions (increased decreased features) Thanilaivalarchi– Vetrnilaivalarchi– Thannilaiadaithal.
- 13) Seven physical constituents (Udal thathukkal) & faeces, & sweat increased & decreased features.
- 14) Fourteen Natural Urges –Vatham (flatusair)–Thummal (sneezing)–Neer (micturition)–Malam(defecation)–Kottavi(yawning)–Pasi(hunger)–Neervetkai (Thirst) –Kasam (cough)–Illaippu (exhaustion)– Nithirai (sleep)–Vanthi (vomiting)–Kaneer (tears)–Sukkilam (semen)–Suwasam (breathing)–clinical features occur while controlling the natural forces.
- 15) Digestive fire(Udalthee)–Geographical distribution & Seasonal variations (Nilamum pozhuthum)– Appropriate time for medications.
- 16) Determine the fatal conditions of an individual based on Saliva, Taste, Voice, Vision Hearing, Smell, Quality of semen and twitching.
- 17) Urine examination–Neerkuri,Nirakuri& Neikuri –According to Theraiyar and other Siddhars.
- 18) Neerkuri- (Urine general examination):Quality,Niram(colour),Manam(odour),Nurai(froth), Edai(specific gravity)– Enjal(deposits).
- 19) Nirakuri:Urine examination with the help of colour difference.
- 20) Neikuri: The different changes in the oil dropped on the urine to be observed. Prognosis of a disease based on some tests performed by breast milk, Pig's fat and blood of the diseased.
- 21) Primary etiology of various diseases according to Therayar.
- 22) Prognosis of a patient by observing the messenger (Thoothuvan Ilakkanam).
- 23) Determination of some disease based on Manikadai Nool.
- 24) Worms and infectious diseases (Ottu Noikal).

### **MODERN CLINICAL DIAGNOSTIC METHODS**

1. Collection of blood
2. Haemopoiesis
3. Haemoglobin estimation
4. Total WBC count, RBC
5. Peripheral Blood Smear Examination
6. Investigations for anaemia
7. Leukaemia
8. Blood grouping & blood transfusion
9. Investigation of haemorrhagic disorders
10. Examination of urine, stools, sputum and semen Analysis

11. Examination of vaginal smear.
12. Lipid profile, Thyroid profile and Renal profile.
13. 13.Liver function test
14. 14.Pulmonary function test.
15. 15. Immunological Assay  
X-Ray, Ultra sonogram, ECG, EEG, MRI and CT Scan
16. General Examination
17. Examination of the Respiratory System, Cardio vascular System, Gastrontestinaltract, and Central Nervous System

**References:**

<b>S.No</b>	<b>Name of Books, Language, Publishers &amp; Year of Publication</b>	<b>Author</b>
1.	Siddha Maruthuva Noi Nadal Noi Mudhal Nadal: Part-I (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai(1967)	Dr.P.Shanmugavelu
2.	Siddha Maruthuvanga Surukkam, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1953)	Dr.Ka.Su.Uthama Rayan
3.	Theraiyar Neerkuri Vaidhiyam, Thamarai Noolagam (2000)	S.P.Ramachandran
4.	Comparison of Siddha Medicines, (Tamil) Kavikuil Pathipagam, Chennai-40.(2005)	D/M. Anavari Andandan
5.	Robbins and Cotran Pathologic Basis of Disease	Kumar, Abbas, Fausto
6.	Textbook of Pathology	Harsh Mohan
7.	Rubins-Clinico-pathologic foundation of Medicine	David S.Strayer,Emanuel Rubin
8.	Henry's Clinical Diagnosis and Management by Laboratory Methods	McPhersonPincus
9.	Understanding Clinical Investigations 2 <sup>nd</sup> edition, Metha publication 2005	
10.	Parasitology	Chatterji
11.	Clinical Hutchison Methods	Hutchison's
12.	Manual of Practical Medicin	Dr. R. Alagappan
13.	Macleod's Clinical Examination	Macleods's

**THIRD YEAR**  
**PAPER-I: SIDDHA MARUTHUVAM-PART-I**

Study of following disease with their synonyms, definition, causes, signs, and symptoms, description about the humoural Variations, pulse reading, complications, Line of treatment, internal and external medicines, special medicines, prognosis, diet & Regimen

1	Kuralkammal	Acute and chronic pharyngitis
2	Mookadaippu	Acute and chronic Sinusitis nasal polyps
3	Kuruthiazhalnoi	Systemic hypertension and Bleeding disorder
4	Irumalnoi	Dry / productive Cough
5	Eraippunoi	Bronchial asthma, Respiratory air way disorders
6	Elaippunoi	Pulmonary Tuberculosis and extra pulmonary
7	Ulaimanthai	Gastro enteritis.
8	Thamaraganoi	Diseases of heart.
9	Suvayinmai	Tasteless conditions.
10	Neervetkai	Polydipsia.
11	Seriyamai	Indigestion.
12	Vikkal	Hiccough.
13	Vaanthi	Vomiting.
14	Manthanoi	Flatulence (G.I.T. disorders).
15	Gunmam	Pain abdomen.
16	Soolai	Pricking pain of various aetiology.
17	Manneralnoi	Diseases of Spleen.
18	Kalleeralnoi	Diseases of Liver.
19	Velluppunoi	Anaemia.
20	Oodhalnoi	Dropsy.
21	Manjalnoi	Jaundice.
22	Peruvayiru	Ascites.
23	Kudalpidippunoi	Intestinal obstruction
24	Eruvaimulainoi	Ano-rectal diseases.
25	Siruneernoigal: a. Neerinai arukkalnoigal: <ul style="list-style-type: none"> <li>• Kalladaippunoi</li> <li>• Neeradaippunoi</li> <li>• Sottuneer</li> <li>• Neersurukku</li> <li>• Vellainoi</li> </ul>	Urogenital diseases. a. The conditions responsible for decreased output of Urine. Renal calculi Retention of Urine Anuria. Incontinence of urine. Oliguria. Gonorrhoea, Leucorrhoea, etc.
	b. Neerinai perukkalnoikal: <ul style="list-style-type: none"> <li>• Athimoothiram</li> <li>• Neerizhivu</li> <li>• Thelineer</li> <li>• Venneer</li> </ul>	b. The conditions responsible for increased output of urine. Polyurea. Diabetes mellitus Diabetes insipidus Spermatorrhoea and urethral discharge

## References:

S.No	Name of Books, Language, Publishers & Year of Publication	Author
1.	Siddha Maruthuvam (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai	Dr.C.N.Kuppusamy Mudaliar
2.	Yugimuni Vaidhya Chitamani, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1976).Edition 2002	R.C.Mohan
3.	Noikalukku Siddha Parikaram Part I & II, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1976)	Dr.Shunmugavelu
4.	Siddha Vaithya Thirattu, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1998)	1) Kuppusamy Mudaliar, 2) Uthamarayan
5.	Siddha Maruthuva Noi Nadal, Noi Mudal Nadal Part -II, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1967)	Dr.Shunmugavelu
6.	A Complete Manual on Siddha External Therapies,ShanlaxPublications,Maudurai,Tamilnadu,2017	Dr.G.Senthilvel.,M.D(S),Ph.D Dr.J.Jeyavenkatesh.,M.D(S),Ph.D
7.	Sarabendhira Vaithiya Muraigal - Pandu, Kamalai, Kunmarogam, Sayarogam, Ulaimanthai, roga Chikatchai Muraigal, Thanjavur Saraswathi Mahal (2000)	Vasudeva Sastri & Venkatrajan
8.	Kannusamy Parambarai Vaithyam, Rathina Nayakar Sons, Thirumagal Vilasa Achagam	Thiru .Kannusamy pillai
9.	Athma Raktchamirtham ennum Vaithiya Sara Sankiragam, Thamarai Noolagam (2000)	Mr.S.P.Ramachandran.
10.	Pararasa Chekaram, (1999)	Thiru .Ponnaiya Pillai
11.	Agasthiyar Paripooranam 400, Rathina Nayakar Sons, Thirumagal Vilasa Achagam (1965)	Mr.R.S.Mohan.
12.	Anuboga Vaidhiya Devaragasiyam, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1975)	Mr.J.Seetharam prasath.
13.	Anuboga Vaidhya Navaneetham 1 to 10 Volume, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1975)and Thamarai noolagam.	Thiru.P.Mohamed Abdulla Sahib
14.	Siddha formulary - Part I & II, Govt. Of India, Ministry of Health & Family Welfare, New Delhi.	
15.	Jeeva Raktchamirtham	Mr.Sababathi Mudaliar
16.	Siddha Maruthuva Thoguthi	Tamil Kazhagam



17.	Man Murukkiyam ennum Tamil Maruthuva nool Part-I	K.Virasa Pandithar Rama subramania Novel
18.	Yugi Vaidhiya Kaviyam 400	
18.	Agasthiyar Kanmakandam	
19.	Peenisam matrum Sura Noi thogudhi, (2000)	Dr.T.Mohanraj
20.	Sanny, Vaisuri, kuttam, baithiyam matrum Oozhi Noi thoguthi, A.T.V.S. Siddha Medical College, Munsirai, Kanyakumari (2009)	Dr.T.Mohanraj
21.	Pitham, Peenisam, Sura Noi thoguthi, A.T.V.S. Siddha Medical College, Munsirai, Kanyakumari (2008)	Dr.Mohandass
22.	Uyir Kakkum Vaithiyam	S.V.Ramachadran
23.	Vatha Noi Thoguthi - Vatha Noi Nithanam 800, (2008)	Dr.T.Mohanraj
24.	Siddha Maruthuvam Vadha Noil thodarpana serkai Part I & II Volume, (2006-2007)	
25.	Siddha Maruthuva Thoguthi- Volume 5, Pitham Thodrapana Noigal, (2005)	Dr.K.Rajeswari, Madras University



## PAPER II: SIDDHA MARUTHUVAM-PART-II

Study of following disease with their Synonyms definition, causes, premonitory signs, and symptoms, description about the humoural variations vitiation, pulse reading, complications, Associated disease, fatal signs, Line of treatment, prognosis, specific or special medicines, diet and regimen.

1	Suram- 64	Fever- 64kinds.
2	MukkuTRANOI	Delirium.
3	Ammainoi	Certain specific Viral infectious diseases.
4	Surakkol	Influence of planets and stars related to fever patients.
5	Perunkalichalnoi	Diarrhoea.
6	Ninakalichalnoi	Bacillary dysentery.
7	Kaduppukalichal	Amoebic dysentery.
8	Oozhinoi	Cholera.
9	Meganeerkattigal	Diabetic skin lesions.
10	Kudiverinoi	Alcoholism.
11	Mayakkanoi	Syncope.
12	Valippunoi	Seizural disorders.
13	Vathanoigal	Vathadiseases.
14	Pakkavayu	Hemiplegia.
15	Keelvayu	Diseases of joints.
16	Azhalnoigal	Pittadiseases
17	Iyanoigal	Kaphadiseases.
18	Perunoi	Hansen's diseases.
19	KuttaNoigal	All relevant skin disorders
20	Puttrunoi	Malignancy.

### References:

S.No	Name of Books, Language, Publishers & Year of Publication	Author
1.	Siddha Maruthuvam, (Tamil), The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai	Dr.C.N.Kuppusamy Mudaliar
2.	Yugimuni Vaidhya Chitamani, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1976).Edition 2002	R.C.Mohan
3.	Noikalukku Siddha Parikaram Part I & II, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1976)	Dr.Shunmugavelu
4.	Siddha Vaithya Thirattu, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1998)	3) Kuppusamy Mudaliar, 4) Uthamarayan
5.	Siddha Maruthuva Noi Nadal, Noi Mudal Nadal Part -II, (Tamil) The Directorate of Indian Medicine and	Dr.Shunmugavelu

	Homoeopathy, Govt. Of Tamil Nadu, Chennai (1967)	
6.	A Complete Manual on Siddha External Therapies, Shanlax Publications, Maudurai, Tamilnadu, 2017	Dr.G.Senthilvel.,M.D(S),Ph.D Dr.J.Jeyavenkatesh.,M.D(S),Ph.D
7.	Sarabendhira Vaithiya Muraigal - Pandu, Kamalai, Kunmarogam, Sayarogam, Ulaimanthai, roga Chikatchai Muraigal, Thanjavur Saraswathi Mahal (2000)	Vasudeva Sasthri & Venkatrajan
8.	Kannusamy Parambarai Vaithyam, Rathina Nayakar Sons, Thirumagal Vilasa Achagam	Thiru .Kannusamy pillai
9.	Athma Raktchamirtham ennum Vaithiya Sara Sankiragam, Thamarai Noolagam (2000)	Mr.S.P.Ramachandran.
10.	Pararasa Chekaram, (1999)	Thiru .Ponnaiya Pillai
11.	Agasthiyar Paripooranam 400, Rathina Nayakar Sons, Thirumagal Vilasa Achagam (1965)	Mr.R.S.Mohan.
12.	Anuboga Vaidhiya Devaragasiyam, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1975)	Mr.J.Seetharam prasath.
13.	Anuboga Vaidhya Navaneetham 1 to 10 Volume, (Tamil) The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu, Chennai (1975)and Thamarai noolagam.	Thiru.P.Mohamed Abdulla Sahib
14.	Siddha formulary - Part I & II, Govt. Of India, Ministry of Health & Family Welfare, New Delhi.	
15.	Jeeva Raktchamirtham	Mr.Sababathi Mudaliar
16.	Siddha Maruthuva Thoguthi	Tamil Kazhagam
17.	Man Murukkiyam ennum Tamil Maruthuva nool Part-I	K.Virasa Pandithar Rama subramania Novel
18.	Yugi Vaidhiya Kaviyam 400	
19.	Agasthiyar Kanmakandam	
19.	Peenisam matrum Sura Noi thogudhi, (2000)	Dr.T.Mohanraj
21.	Sanny, Vaisuri, kuttam, baithiyam matrum Oozhi Noi thoguthi, A.T.V.S. Siddha Medical College, Munsirai, Kanyakumari (2009)	Dr.T.Mohanraj
22.	Pitham, Peenisam, Sura Noi thoguthi, A.T.V.S. Siddha Medical College, Munsirai, Kanyakumari (2008)	Dr.Mohandass
23.	Uyir Kakkum Vaithiyam	S.V.Ramachadran
24.	Vatha Noi Thoguthi - Vatha Noi Nithanam 800, (2008)	Dr.T.Mohanraj
25.	Siddha Maruthuvam Vadha Noil thodarpana serkai Part I & II Volume, (2006-2007)	

### **PAPER-III INTRODUCTION TO PHARMACOLOGY WITH THERAPEUTIC EMPHASIS:-**

1. Essentials of General Pharmacology
2. Limitations of Animal tests
3. Bio assay
4. Evaluation of Analgesics
5. Evaluation of Anti Inflammatory agents
6. Evaluation of drugs used in Mental disorders
7. Evaluation of drugs used in Fever
8. Evaluation of drugs used in Heart diseases
9. Evaluation of drugs used in Blood pressure
10. Evaluation of drugs used in Respiratory disorders

11. Evaluation of drugs used in Oedema
12. Evaluation of Anti Diuretics
13. Evaluation of drugs used in Diabetes Mellitus
14. Evaluation of drugs used in Fertility Control
15. Evaluation of drugs used in Allergy (Anti Histamines)
16. Evaluation of drugs used in Skin disorders
17. Evaluation of Haemostatics
18. Evaluation of Anti Ulcer drugs
19. Evaluation of drugs used in Gastro Intestinal tract Anti Ulcer
20. Evaluation of drugs used in Purgative, Antidiarrheals and Appetizers
21. Microbiological assay
22. Toxicity
23. General Screening

**References:**

S. no	Name of the Reference Book/publications/year	Author
1.	Goodman & Gilman's The Pharmacological Basis of Therapeutics	Goodman and Gilman
2.	Pharmacology and Pharmacotherapeutics	Satoskar Bhandarkar & Ainapure
3.	Basic and Clinical Pharmacology	BG Katzung
4.	Pharmacology: prep. manual for medical graduates	Dr.Tara shanbhag
5.	"Essentials of Pharmacology"	Crossland, J.and Thomson, J.H., Harper and Row
6.	Applied Therapeutics	Kimble, Young, Corelli and Alldredge
7.	Clinical Pharmacology, Jaypee pub 2004	KD Tripathi Jaypee pub 2004
8.	Clinical Pharmacology, 2003	Lawrence Benett
9.	Science and Practice of Pharmacy	Remington
10.	Drug Discovery and Evaluation (Pharmacological assays), Electronic publications under ISBN 2006	HG Vogel
11.	The Pharmaceutical codex principles and practice of pharmaceuticals, Publication; London: The Pharmaceutical Press	Walter Lund,
12.	Indian Pharmacopeia	
13.	British Pharmacopeia	
14.	United States Pharmacopeia	

**PAPER-IV: RECENT ADVANCES IN MODERN MEDICINE**

**1. Common presentation of patients**

- a. Fever, hyperthermia
- b. Cough
- c. Chest pain
- d. Joint pain
- e. Weight loss
- f. Palpitations
- g. Dyspnoea
- h. Edema
- i. Abdominal pain
- j. Diarrhea
- k. Jaundice
- l. As cities

- m. Back and neck pain
- 2. Infectious diseases**
    - a. Bacterial infections
    - b. Viral infections
    - c. Fungal infections
    - d. Protozoa infections
    - e. Helminthes infections
  - 3. Nutritional diseases**
    - a. Protein energy malnutrition
    - b. Vitamin deficiency
    - c. Mineral deficiency
    - d. Micronutrients
  - 4. GIT**
    - a. Acid peptic diseases
    - b. Inflammatory bowel disease
    - c. Colonic and anorectal diseases
    - d. Ca stomach
  - 5. GB, Liver, Pancreas**
    - a. Cholelithiasis, cholecystitis
    - b. Pancreatitis
    - c. Hepatitis
    - d. Cirrhosis and alcoholic liver disease
  - 6. Hematological disorders**
    - a. Anemias
    - b. Leukaemia and lymphoma
    - c. Bleeding disorders
    - d. Clotting disorders
  - 7. Endocrine diseases**
    - a. Thyroid diseases
    - b. Adrenal diseases
    - c. Gonadal disorders
    - d. Diabetes mellitus
    - e. Obesity
  - 8. CVS**
    - a. Valvular heart diseases
    - b. Congenital heart diseases
    - c. Ischemic heart disease
    - d. Hypertension
    - e. Disorders of cardiac rhythm and conduction
    - f. Heart failure and Corpulmonale
  - 9. Respiratory system**
    - a. Pneumonia
    - b. Bronchiectasis, Lung abscess, Cystic fibrosis
    - c. Bronchial asthma
    - d. COPD
    - e. Bronchogenic Carcinoma
    - f. Pleural diseases
  - 10. CNS**
    - a. Seizures, epilepsy
    - b. Parkinsonism
    - c. Movement disorders
    - d. Peripheral neuropathy
    - e. Myasthenia gravis
    - f. Cerebro Vascular Accident

- g. Diseases of muscle
- h. Meningitis , encephalitis

### 11. Kidneys and urinary system

- a. ARF,
- b. CKD
- c. Glomerular diseases
- d. Renal tubular diseases
- e. Nephrolithiasis
- f. UTI

### 12. Allergy, Immunology and rheumatology

- a. SLE
- b. Rheumatoid arthritis
- c. Reactive arthritis
- d. Vasculitis
- e. Ankylosing Spondylitis
- f. Osteoarthritis
- g. Gout, Pseudogout
- h. Sarcoidosis

### 13. Skin

- a. Investigations
- b. Common Skin Conditions

### 14. Cancer

#### References:

S.No	Name of the book, Language, Publisher, Year	Author
1.	Harrison's manual of medicine, Elsevier science ltd	Harrison
2.	Davidson's principles and practices of medicine, Elsevier science ltd	Davidson
3.	Hutchinson's clinical methods, Harcourt publisher ltd	Hutchison
4.	Alagappa's manual of clinical medicine, Jaypee brothers publishers ltd	R. Alagappan MD, FICP
5.	Mehta's clinical examination	Mehta

#### DISSERTATION

Kindly refer the regulation 11 of IMCC (Post-Graduate Siddha Education) regulations, 2016.