FACULTY OF SIDDHA MEDICINE UNDERGRADUATE PROSPECTUS 2022/2023



Trincomalee Campus
Eastern University, Sri Lanka
2024



Undergraduate Prospectus (2022/2023)

FACULTY OF SIDDHA MEDICINE

Trincomalee Campus

Eastern University Sri Lanka

2024



University Vision

World-class knowledge Centre with excellent teaching-learning and research for enhancement of community well-being

University Mission

Producing abled graduates with moral values and enhancing research culture to achieve a sustainable global, national and regional development by creating local and foreign linkages with optimizing the regional resources.

Faculty Vision

To be the genius faculty of excellence of teaching, higher learning research and clinical care with an ultimate target of serving mankind in knowledge.

Faculty Mission

Provide skill and knowledge to produce competent Siddha Medical Graduates to practice Siddha Medicine more effectively for the medical profession with social responsibility and to become compassionate dedicated Siddha Medical professionals by understanding human values, obeying highest ethical conduct and mutual respect in an environment to meet the current needs of the national and global community.

MESSAGE FROM VICE-CHANCELLOR



Trincomalee Campus, Eastern University Sri Lanka, is a higher education institution in the Eastern Province, thriving to achieve its best academic excellence for the last four decades. The Unit of Siddha Medicine which was established in 2008 is now upgraded as Faculty of Siddha Medicine recently, in 2023. The newly established Faculty in Trincomalee Campus, Eastern University, Sri Lanka located in the traditional city of Sri Lanka where the father of Siddha Medicine "Akashtheyer started his own Siddha Medicine Kurukulam in Kanguweli" 2000 years

ago. Siddha Medicine is an important part of well-being with a rich cultural heritage, and it has been used to treat a wide range of ailments for thousands of years. In general, it is an 'One Health' approach which is an internationally accepted health approach for a healthy life. The Faculty of Siddha Medicine provides the Bachelor of Siddha Medicine and Surgery (BSMS) degree program with a wide curriculum, that address the demands of diverse learners in the national and international communities, to face the current challenges. The staff of the Faculty are dedicated to give a top-notch education in a positive learning atmosphere.

One of the fundamental components of the United Nations' Sustainable Development 2030 agenda is quality education. It is ensured in the latest version of the curriculum. I am excited to invite you all for enrolling to the new curriculum is a road map for academic staff and students which was designed with unique features such as a semester-based programme & the medium of instruction is in English. In addition, you will be exposed to teaching hospital for practical and clinical trainings. Moreover the Faculty will offer exposure to Herbal Garden and experience with Yoga & Meditation throughout your academic programme.

This undergraduate prospectus is an essential guide that will enable to navigate your way through the institution. It includes important information about the degree program, policies, and procedures, as well as the resources and services available to students. It includes details about academic requirements, Campus life, student support services, etc. We believe that the information contained in this undergraduate prospectus will help the students to achieve all their academic goals.

I am appreciating Prof S Sutharsan Acting Dean, Dr V Anavarathan, Former Head and other staff of Faculty of Siddha Medicine for their tireless efforts to bring this revised curriculum into practice from the academic year 2021/22.

Good Luck to all.

Prof. V. Kanagasingam (AMIPM-SL), Ph.D. (PIM-USJP), M Sc. (Management) (USJP), BBA (Hons.) EUSL, CTHE (UoC), CRHEM (Thailand)





It is a matter of immense pleasure to be me a part of the Trincomalee Campus, Eastern University, Sri Lanka as Rector. I take this opportunity for welcoming the students from all over the Island of Sri Lanka to Trincomalee Campus which is surrounded with commercial and economical hub. Bachelor of Siddha Medicine and Surgery (BSMS) degree programme was delivered from the academic year 2007 / 2008 with the student number 20

initially by the Faculty of Applied Science, Trincomalee Campus. Since the medium of instruction is English in Trincomalee Campus, students numbers increased gradually and reached 75 students in the academic year 2015/2016. The Siddha Medicine has immense potential and a promising future as it is traditional and indigenous herbal medicine. The Siddha medical system is very deep-rooted system in Eastern province and long felt need of the people who dwell in Eastern part of Sri Lanka since the father of Siddha medicine Saint Ahathiyar lived in East and established Siddha medicine in South India. BSMS programme offering by the faculty of Siddha Medicine, Trincomalee Campus, Eastern University, Sri Lanka, is enabling students to develop an analytical mind, intellectual curiosity, moral integrity, a strong sense of values and a disciplined lifestyle that will transcend social, cultural cohesion and prejudices. With the earnest efforts of the competent Faculty of Siddha Medicine, the students will accomplish their academic goals with acquiring knowledge on traditional medicine and will self- reliant to cope up with the pressures of the modern times. Students who are enrolling to the Bachelor of Siddha Medicine and Surgery would excel academically and clinically. My best regards to the Dean, Heads, and the staff for bringing out the prospectus with dynamic curriculum and extend my best wishes to the students for their future endeavors.

Prof (Mrs) Chandravathany .G. Devadason , PhD, MPhil, MSc, BSc(Hons) Rector/Trincomalee Campus, Eastern University, Sri Lanka

MESSAGE FROM THE DEAN

It is with great pleasure that I welcome you to the Faculty of Siddha Medicine at Trincomalee Campus, Eastern University, Sri Lanka, for the academic year 2022/2023. As you begin this exciting journey, you are stepping into a world where the ancient wisdom of Siddha Medicine meets contemporary scientific advancements, offering a unique and holistic approach to health and healing.

This combined prospectus serves as your comprehensive guide to the academic programs, policies, and opportunities that await you. It is designed to help you navigate your studies and make the most of your time at our faculty. Within these pages, you will find valuable information on our curriculum, academic resources, and support services, all aimed at helping you succeed in your academic and professional endeavors.

The Faculty of Siddha Medicine is committed to providing an education that is both rigorous and nurturing. Our curriculum integrates the timeless principles of Siddha Medicine with modern healthcare practices, preparing you to become knowledgeable, skilled, and compassionate practitioners. We encourage you to immerse yourself fully in your studies, engage in research, and take advantage of the diverse learning experiences available to you.

As you progress through your academic journey, remember that education is not just about acquiring knowledge; it is also about developing character, critical thinking, and a commitment to ethical practice. Our dedicated faculty and staff are here to support you every step of the way, ensuring that you have the guidance and resources needed to achieve your goals.

Your time at the Faculty of Siddha Medicine will be transformative, filled with opportunities for learning, growth, and personal development. I urge you to embrace these opportunities with enthusiasm and determination. The challenges you encounter will shape you into a well-rounded professional, ready to contribute meaningfully to the field of healthcare and the well-being of society.

I wish you all the best for a successful and fulfilling academic year. May your journey at the Faculty of Siddha Medicine be one of discovery, inspiration, and achievement.

Warm regards,

Dr. V. Anavarathan Dean / Faculty of Siddha Medicine, Trincomalee Campus, Eastern University Sri Lanka.



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1. INTRODUCTION

1.1. EASTERN UNIVERSITY



The Eastern University Sri Lanka was established on the 1st October 1986 by a University order dated 26th September 1986 issued under Section 2 of the University Act No: 16 of 1978. The University was preceded by the Batticaloa University College established on the 1st of August 1981 to fulfill the long felt need for the development of the Higher Educatioal Institution in the Eastern Province of Sri Lanka. The Batticaloa University College began with two Faculties: The Faculty of Agriculture and the Faculty of Science, both these faculties were affiliated to University of Peradeniya. In October 1986, the Batticaloa University College was elevated to the status of University under the name of Eastern University Sri Lanka. Two new Faculties, the Faculty of Commerce and Management and the Faculty of Cultural Studies were established in 1988. The Faculty of Cultural studies was then expanded and renamed as Faculty of Arts and Culture in 1991. In 2005, the Faculty of Health Care Science was established in the University and located in Batticaloa town. A Campus of the Eastern University functions at Trincomalee with the Faculty of Applied Science, Communication and Business Studies and Siddha Medicine. The Swami Vipulananda College of Music and Dance was established in 1981 and was subsequently handed over to the Eastern University in 2001. The SVCMD was then converted to a separate Institute and renamed as Swami Vipulananda Institute of Aesthetics Studies (SVIAS) offering degree programmes in Music and Dance. The Faculty of Technology was started in 2014 as sixth faculty of Eastern University, Sri Lanka.

1.1.1. OFFICERS OF THE EASTERN UNIVERSITY SRI LANKA

Chancellor **Prof. M. Selvarajah**

B.Ed. Hons. (UPDN), PGDEM (NIE), M.Ed. (CMB), M.Ed. (Admin.& Mgt.)(UL-UK), M.Phil. (CMB)

Vice Chancellor **Prof. V. Kanagasingam** (AMIPM-SL)

Ph.D. (PIM-USJP), M Sc. (Management) (USJP),

BBA (Hons.) EUSL, CTHE (UoC), CRHEM (Thailand)

Rector Prof (Mrs) C. G. Devadason

Ph.D (Food Science and Technology, LK &JP) M.Phil (Fish

Microbiology, UK), M.Sc(Aquatic Pathobiology, UK), B.Sc(Hons)

Registrar Mr. A. Pahirathan

B Com., MBA

Bursar Mr. M. M. Mohamed Fareez

BBA (Hon), ACMA (UK), CGMA (USA), ACMA (SL)

1.2. TRINCOMALEE CAMPUS

The Trincomalee Campus served as an Associated University College (AUC) during its formative years, functioning under the patronages of affiliated colleges financed by the University Grants Commission in the early 1990s to assist students whose conventional universities had closed their doors. In turn, the Trincomalee Affiliated University College

provided two diploma programs, the Diploma in English and the Diploma in Accounting and Finance, the former under the auspices of the University of Sri Jayewardenepura and the latter under the auspices of the Eastern University of Sri Lanka. As the affiliated University college structure was dismantled, Trincomalee AUC found itself vested with the Eastern University. Subsequently, this college got its identity as Trincomalee Campus of the Eastern University, Sri Lanka through a gazette notification from mid-2001 with provision for two faculties, Faculty of Communication & Business Studies, and Faculty of Applied Science as its primary educational institutions. Furthermore, the Unit of Siddha Medicine was established in 2008 and now in 2023 upgraded as Faculty of Siddha Medicine.



Vision and Mission of the Campus

Vision

World recognized educational and research institute/ institution with academic excellence and human values.

Mission

Creating transforming and disseminating knowledge through teaching, learning and research to fulfill the needs of the dynamic stakeholders and to meet new challenges while upholding the human values for the sustainable development of the region, nation, and globe with a good governance.

Goals

- To pursue excellence in teaching, research, and dissemination of knowledge
- To enhance the institutional capacity through human resources, infrastructure, and other resource development
- To serve socio-economic and cultural needs of the community
- To maintain and enhance good governance.

1.3. FACULTY OF SIDDHA MEDICINE

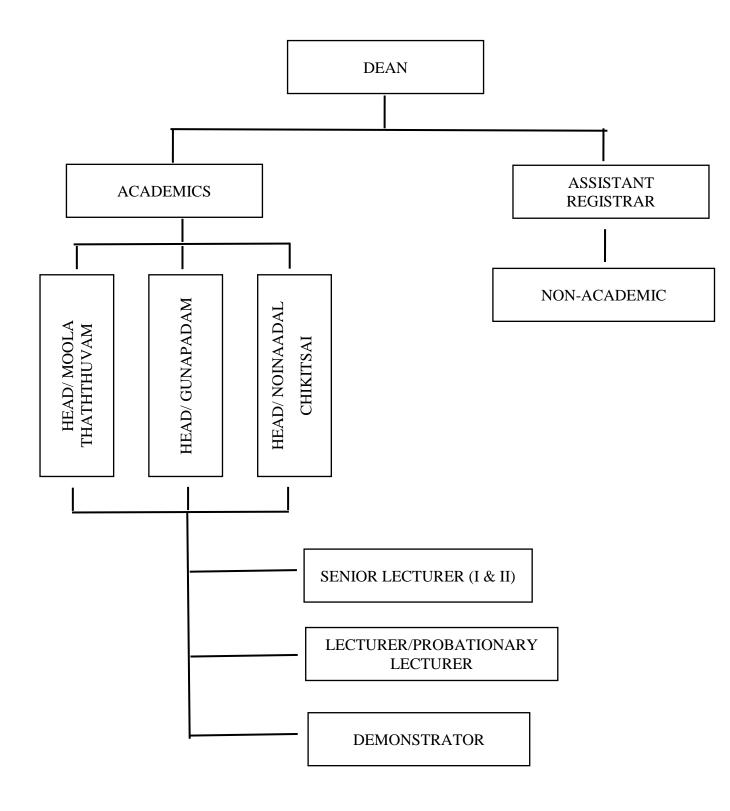
1.3.1. HISTORY OF SIDDHA MEDICINE



The Faculty of Siddha Medicine is the foremost Higher Education Institute in Sri Lanka that provides instructions in the Siddha system of Medicine in English medium for undergraduates. It was established in 2008 at Trincomalee Campus, Eastern University, Sri Lanka with the approval of the University Grants Commission and Ministry of Higher Education for training and research in Siddha Medicine.

The Faculty of Siddha Medicine produce qualified graduates to maximize the contribution of Siddha Medicine to global health and sustainable development. Furthermore, the Faculty of Siddha Medicine has focused on evidence-based learning with research. At the same time, the Faculty of Siddha Medicine maintains its local heritages, resources, and traditional principles. In addition, the syllabi contain study material on Siddha Medicine and other integrative medicine approaches to produce a competent Siddha Medical graduate to enhance the Siddha Medical system in Sri Lanka and meet the current challenges in health.

1.3.2. ORGANIZATINAL STRUCTURE



1.3.3. OFFICE OF THE DEAN

Dean Dr. V. Anavarathan

MD (Siddha) (India), M.Phil (UoJ),

Dip.in.Coun.Psy, BSMS (UoJ)

Senior Asst. Registrar Mr. V. Mugunthan,

B.A. (General) (SEUSL)

Heads of Departments

Gunapadam Dr. N. Varnakulendran

(Siddha Pharmacology) PhD in Siddha Medicine, MD (Siddha) in

Gunapadam (India), BSMS (UoJ)

Noinaadal Chikitsai Dr. B. Uthayanan

(Pathology & Clinical Sciences) MD (Siddha) (India), BSMS (UoJ)

Moola Thaththuvam Dr. S. Ushakhanthan

(Basic Philosophy) MD (Siddha) (India), BSMS (UoJ)

1.3.4. ACADEMIC STAFF OF THE DEPARTMENTS

1.3.4.1. DEPARTMENT OF GUNAPADAM

Dr. N. Varnakulendran	PhD in Siddha Medicine,	Senior Lecturer Gr. I
	MD (Siddha) in Gunapadam	
	(India), BSMS (UoJ)	
Dr. S. Ushakhanthan	MD (Siddha) (India),	Senior Lecturer Gr. I
	BSMS (UoJ)	
Dr. S. Janani	MD (Siddha) (India),	Senior Lecturer Gr. II
	BSMS (EUSL)	

1.3.4.2. DEPARTMENT OF MOOLA THATHTHUVAM

Dr. V. Paheerathan	M.Phil (UoJ), BSMS (UoJ)	Senior Lecturer Gr. I
Dr. R. Pratheepkumar	M. Sc in Clinical Biochemistry (Up), BSMS (UoJ)	Lecturer (Confirmed)
Dr. V. Varuna	BSMS (EUSL)	Lecturer (Probationary)

1.3.4.3. DEPARTMENT OF NOINAADAL CHIKITSAI

Dr. V. Anavarathan	MD (Siddha) (India),	Senior Lecturer Gr. II
	M.Phil (UoJ), Dip.in.Coun.Psy,	
	BSMS (UoJ)	
Dr. B. Uthayanan	MD (Siddha) (India), BSMS (UoJ)	Senior Lecturer Gr. II
Dr. K. Vidya dharshini	MD (Siddha) (India),	Senior Lecturer Gr. II
	BSMS (UoJ), D.Ac.	
Dr. B. Mithurendran	MD (Siddha) (India), BSMS	Senior Lecturer Gr. II
	(EUSL)	

1.3.5. COMPOSITION OF THE FACULTY BOARD

Dr. V. Anavarathan Dean/ Faculty of Siddha Medicine

Dr. N. Varnakulendran Head /Dept. of Gunapadam

Dr. S. Ushakhanthan Head/Dept. of Moola Thaththuvam

Dr. B. Uthayanan Head/Dept. of Noinaadal Chikitsai

Senior Lecturer Gr. I

Dr. V. Paheerathan

Senior Lecturer Gr. II

Dr. B. Uthayanan

Dr. K. Vidya dharshini

Dr. B. Mithurendran

Dr. S. Janani

Lecturer Confirmed

Dr. R. Pratheepkumar

Two members elected from the Probationary Lectures

Dr. V. Varuna

Appointed Members

Prof. R. Sivakanesan

Dr. R. Srithar

Dr. A. Manoraj

Senior Assistant Registrar - Convener

Mr. V. Mugunthan

1.3.6. LINKAGES AND SERVICES

1.3.6.1. SKILLS - LABORATORIES

Laboratories for Anatomy, Physiology, Biochemistry, Gunapadam, Pharmacy, Pharmacology, Pathology, Toxicology, and Research laboratory are available with adequate facilities. These laboratories are used for teaching and research purpose.









1.3.6.2. HOSPITALS AVAILABLE FOR CLINICAL ATTACHMENTS AND TEACHING

The students receive their clinical training at the following hospital.

1. Siddha Teaching Hospital - Konesapuri

This is situated around 02 km from the main entrance of the Trincomalee Campus. It provides medical care to the patients. In addition to providing medical care to patients, it provides learning opportunities to the Siddha Medical students. The hospital provides several special clinics for patients benefit.

2. Base Ayurveda Hospital – Kappalthurai

This is situated in Kappalthurai, around 17 km away from Trincomalee Campus, offering wide range of medical services and conducts undergraduate training for students of the Faculty of Siddha Medicine. The hospital has 06 wards, and 04 special units as well as outpatients' services and specialized clinics. The large number of patients visiting the Base Ayurveda Hospital, Kappalthurai provides ample learning material for students.

3. District Siddha Ayurveda hospital - Gopalapuram

Located in Gopalapuram, Nilaveli about 10 km from Trincomalee Campus, hospital provides a comprehensive range of medical services as well as undergraduate training for Faculty of Siddha Medicine students. Along with unique clinics and outpatient services, the hospital has two wards and one special Unit.

2. ADMISSION OF STUDENTS TO THE FACULTY OF SIDDHA MEDICINE

2.1. REGISTRATION, RE-REGISTRATION AND STUDENTSHIP

The Trincomalee Campus, Eastern University Sri Lanka shall register the new students at a date determined by the faculty upon the receipt of the list of selected students from the University Grants Commission.

Registration for course units for the entire academic year commences one week prior to the start of the first semester and continues during the first two week of this semester. Students only have registered are allowed to sit for examinations of that course unit and should registers using the appropriate form on or before a date specified by Office of the Dean, and he/she can offer only these course units to earn credit. The stipulated period and the maximum period need to complete a degree programme shall commence from the registration date.

Students can obtain guidance from Academic Advisors to select course units judiciously. All information regarding above is made available at the Office of the Dean and the students are requested to contact the Assistant Registrar of the Faculty for further information.

2.2. STUDENT IDENTITY CARD AND RECORD BOOK

2.2.1. IDENTITY CARD

All students registered in the Trincomalee campus, Eastern University Sri Lanka are issued an identity card by the Student Affairs Division, Trincomalee campus. Student identity cards are the property of the University. Therefore, students should return them to the Dean' Office at the end of the final BSMS examination. Students should produce the student identity card in proof of identity on request of officers of the faculty, members of academic staff or security personnel of the Trincomalee Campus. Rejection of such a request made by the aforesaid categories of authorities of the Faculty will lead to disciplinary action against such student. Students who lose this identity card must obtain a duplicate card at their own expense. A written request should be made to the Dean's Office along with a duplicate copy of the complaint lodged at the respective Police Station.

2.2.2. RECORD BOOK

Students are issued with a record book. Re-registration is mandatory. Students who lose this record book must obtain a duplicate book and obtain all missing details from the relevant academic staff.

2.3. CANCELLATION AND POSTPONEMENT OF THE PROGRAMME

If a student wishes to withdraw or postpone the degree program, he or she may inform the relevant Head of the Department, providing justification. The Faculty Board will decide in accordance with the recommendation of the head.

Furthermore, to transfer from Eastern University to another University or from another University to the Eastern University, the recommendation of the Deans of the respective Universities and the approval of the UCG are required.

2.4. DEFERMENT OF THE PROGRAMME

The new students after registering for the degree program and before commencing the academic programmes shall be allowed on a case-by-case basis.

2.4.1. DEFERMENT ON MEDICAL GROUNDS

Deferments on medical grounds shall be allowed during all academic years. The period of deferments allowed under medicals approved by the Medical Officer (MO)/Medical Board shall be excluded from computing the stipulated period. A student under this category shall be eligible for class if the degree is completed within the stipulated period. The period of such leave shall be included for calculating the maximum period to complete a degree.

2.4.2. DEFERMENT OF OTHER GROUNDS

Deferments on other grounds shall be allowed for up to 3 years. The period of deferments allowed under this category shall be excluded from computing the stipulated period to complete a degree. A student under this category shall not be eligible for a class if the degree is completed within the stipulated period. The period of such leave shall be included for calculating the maximum period to complete a degree.

All requests for deferments shall be made with valid evidence.

2.5. STUDENT GUIDENCE

2.5.1. SENIOR STUDENT COUNSELOR

The Campus maintains a student counseling service to assist students who require guidance pertaining to academic or personal matters. The student services are offered by senior member of the academic staff. Many students utilize this service, which is totally confidential.

2.5.2. STUDENT COUNSELORS (AT FACULTY)

This may be the first time you are away from home. It's natural to be worried when you are in an unfamiliar environment facing new experiences. **You are not alone.** It will help and provide relief to talk about your worries and anxieties.

The Faculty of Siddha Medicine have Student counsellors. The Faculty annually appoints student counselors for the Faculty to provide counseling and advice to students. Counselors will help you to resolve any concerns you may have adjusting to university life (emotional issues, being away from home, etc.). Your counselor will work with you to help you resolve your issues and offer suggestions for the best course of action. They will pay attention to you, feel your pain, support you, and help you try to solve your situation. Students are encouraged to meet the student counselor to discuss their problems.

Please call / text/ email and make appointment to meet any one of the student counselors if you are faced with any problem.

2.5.3. ACADEMIC ADVISOR

Academic advisor give service to needed students with the concerning their academic plans and progress, academic schedule, academic activities and career goals, to assist the student in making decisions concerning personal educational goals leading to graduation.

2.5.4. ACADEMIC MENTORING

Students will receive academic mentoring throughout their undergraduate careers to help them reach their full potential. In addition to assisting students with whatever challenges they encounter; they also serve as mentors who help students achieve their academic objectives.

One academic staff member will be assigned to a batch of students to serve as their academic mentor during their undergraduate studies. Academic mentoring gives students the chance to speak with an academic staff member privately and individually about certain academic concerns. They might address other problems affecting academic success or recommend ways to boost academic performance. This is an opportunity to talk about academic performance as well as any other issues you may be having. Academic advisors will also point students in the right directions for further resources. It's crucial that the student and mentor connect at least once per semester.

2.5.5. ACADEMIC AFFAIRS BRANCH

In the administrative structure of Campus, a branch named "Students Affairs branch" has been established aimed at providing access of welfare needs to the students. Under the above said branch the following activities being carried out.

- Handling all matters pertaining to student accommodation
- Handling matters regarding providing finical assistance to students. (Mahapola Scholarship, Bursary, and other endowments)
- Coordinating matters relating to health care, recreation, physical education, and sport activities of students in liaison with Campus Medical Officer, Coordinator Physical Education, etc.
- Coordinating matters relating to student's welfare and counselling in liaison with Welfare and Student Counsellor.
- Handling all matters pertaining to student unions and associations.
- Assisting the General Administration Department in Maintenance of Hostels and Canteens.
- Convening the meetings of Board of Discipline and Advisory Board of Student Welfare and follow up work.
- Coordinating all undergraduate student admission matters in liaison with Faculties and the UCG (student registration is to be handled by the faculty concerned).
- Coordinating annual student registration for all batches of students in all faculties.
- Coordinating all matter regarding issuing of identity Cards to students.
- Maintenance of student database for all undergraduate students.

3. DESCRIPTION OF DEGREE PROGRAMME

3. 1. STRUCTURE OF THE DEGREE PROGRAM (INTRODUCTION)

Bachelor of Siddha Medicine & Surgery (BSMS) degree Course is designed to be a semester and stream with Professional system.

The degree program is organized at four professionals namely 1st Professional, 2nd Professional, 3rd Professional and Final Professional. The 1st and 2nd Professionals known as Basic Stream (BS). The 3rd Professional known as Applied Siddha Medical Sciences Stream (AS), each professional consists of two Semesters. The Final Professional known as Siddha Medical Clinical Stream (CS) which consists of four Semesters including two years. Each semester of academic program includes 15 weeks of academic session.

3. 2. PROGRAMME OUTCOMES ALIGNED TO GRADUATE PROFILE

On the completion of the BSMS study programme, the graduate should be competent to practice Siddha Medicine with an in depth knowledge of the Siddha basic principles. They will have a strong sense of intellectual integrity and personal and professional ethics and be able to be critical and creativethinkers, with an aptitude for continued self-directed learning. Specifically, the graduate should have the following skills and attributes.

3.2.1. KNOWLED GE

- Critical thinking for the fundamental importance Siddha Medical knowledge and professional practice.
- Understanding the Siddha basic principles and appreciation of current challenges through Siddha knowledge.

3.2.2 SKILLS

- The capacity to be a critical thinker, capable of weighing, evaluating and integrating new information into his or her understanding of issues.
- Understanding of the legal framework surrounding Siddha medical practice in Sri Lanka.
- Skills in the management of emergencies and other advanced medical conditions.
- Ability to facilitate the learning experience of individuals and communities.
- The ability to be organized and the skills for time management, so that time and resources are used effectively and efficiently.
- A dedication to appropriate ethical behaviour, based on a well-developed awareness of his or her own moral values, and knowledge and application of principles of medical ethics.
- Demonstrate skills for prescription writing.
- Perform in vivo and in vitro animal experiments.
- Be able to analyze and write a research paper.

3.2.3. ATTITUDES

- Dedication and enjoyment of discovering and learning new ideas.
- Ability to work independently as well as competence in teamwork.
- Understanding to accept the roles of health professionals and healthcare teams.
- Respect for the rights and values of patients, different individuals and group.
- Ability to respond to the cultural and social context.

3.2.4. MINDSET

- Able to predict efficacy and adverse effects associated with use of Siddha drugs.
- Understanding of the roles and functions of Siddha, Ayurveda and allied healthcare institutions.
- Ability to communicate effectively with individuals, groups and communities.
- To develop towards becoming a caring, compassionate and competent health professional.
- Identify the importance of self-awareness, attitudes of the Siddha physician and judging.
- Identify interpersonal communication skill needed to face challenging situation.

3. 3. PROGRAMME STRUCTURE

In addition to the Siddha Medical Courses, the non-Siddha Medical Courses were incorporated in 1st, 2nd, and 3rd professional respectively. The **2nd** professional examination will be considered as **Bar Examination**.

- Students will not be allowed to enter into 3rd professional until they pass all the medical courses in the 1st and 2nd professional.
- An immediate repeat exam for 1st and 2nd professional will be scheduled only followed by the 2nd professional examination after 04 weeks from the date of 2nd professional examination (BS2) results release.

3. 4. MEDIUM OF INSTRUCTION

All lectures, practical, clinical and examinations related to course will be conducted in English medium except *Siddhar Elakkiyam* (Tamil medium). Since the *Siddhar Elakkiyam* contains poems in Tamil and it is important for students to be aware of their ancient Tamil ancestors for future references. In addition, the Basic Tamil and Basic Sinhala will be taught in Tamil and Sinhala medium respectively to develop the language profession.

3. 5. CREDIT VALUE

The volume of learning is described in terms of credits. The student workload of a study programme is about 1500 notional learning hours per academic year. The notional learning hours include direct contact hours with teachers and trainers, time spent in self-learning, reparation for assignments, carrying out assignments and assessments.

A. One credit of taught course, laboratory studies or field studies is equivalent to 50 notional learning hours.

- 15 hours of lectures and 35 hours of independent learning and assessments; or
- 30-45 hours of laboratory work or 45 hours of field work with additional time for independent learning and assessments; or
- A blend of 50 notional learning hours of lecture, practical (and/or field work), independent learning and assessments.

B. One credit of industrial training (including time allocated for assessments) or research (including time allocated for literature survey) is considered equivalent to a minimum of 100 notional hours.

Credits must be earned by students after successful completion of the work required and appropriate assessment of learning outcomes.

3. 6. COURSE UNITS

A Course Unit is a selectively organized section of academic activity that may comprise either theory or practical, or a blend of both (50 notional hours per credit). There are few course units that comprise research or industrial training / internship / group project activity (100 notional hours per credit) in the programmes. Content, teaching learning strategies and assessment of a course unit are carefully structured to facilitate the achievement of intended learning outcomes (ILOs) of a course unit, and course units are assessed based on the students 'attainment of ILOs.

3.6.1. COURSE CODES

3.6.1.1. CODE FOR COURSE UNIT

Every course is assigned a subject code. The code will be of the pattern XXX LPPC, Where,

- First three characters (XXX) refer to course.
- Fourth character (L) refers to Level of the Professional
- Fifth and sixth character (PP) refers to **P**hase of each professional
- Seventh character (C) refers to Credit value of the course.

3.6.1.2. CODE FOR THE COURSES IN PROFESSIONAL EXAMINATION

Each course in Professional Examination is assigned a code. The code will be of the pattern XXX PSCC, where,

First three characters (XXX) refer to course, fourth character (P) refer to Professional, fifth character (S) refers to Serial number of the course and sixth and seventh character (CC) refers to the total number of credits of the course.

3. 7. PRINCIPLE COURSE AREAS

The principle courses are undertaken by the department shown in the Table stated below,

The principle courses and Departments

Courses	Department
Siddha Adippadai Thaththuvamum Maruthuva Varalarum	
(Basic Principles of Siddha Medicine and History)	
 Research Methodology 	
• <i>Udalkootriyal</i> (Anatomy)	Department of Moola
• Udalthathuvam & Uyirvediyal (Physiology & Biochemistry)	Thaththuvam
• Addangayogam (Yoga)	
 English for Communication 	
Basic Tamil / Basic Sinhala	
 Information Technology 	
Research Project	
• Gunapadam - Moolikaieyal (Siddha Pharmacology – Herbs)	
• Gunapadam - Thathu Jeeva Vakuppu	
(Siddha Pharmacology - Metal, Minerals, and Animal kingdom)	Department of
• Siddhar Elakkiyam (Siddha Literature)	Gunapadam
 Medical Ethics and Professionalism 	Gunapadam
Gunapadam - Marunthu Seymuraieyal	
(Siddha Pharmacology – Pharmaceutical Sciences)	
• Noi Naadal (Pathology)	
• Chikitsai Adippadaithaththuvam (Fundamentals of Therapeutics in	
Siddha)	
• Samooga Nala Maruththuvam (Community Medicine)	
• Nanchiyalum Sadda Maruthuvamum (Forensic Medicine &	
Toxicology)	
• Siddha Maruthuvam- Pothu (Medicine-General)	Department of
• Siddha Maruthuvam - Sirappu (Medicine – Special)	Noinaadal Chikitsai
• Kuzhanthai Maruththuvam (Paediatrics)	Tromadar Cinkitsar
• Siroroga Maruththuvam (ENT)	
• Paramparai Maruthuvam (Traditional Medicine)	
• Aruvai Maruththuvam (Surgery)	
 Mahalir Maruthuvamum Sool Maruththuvamum 	
 (Gynaecology & Obstetrics) 	

3. 8. PROGRAMME DESIGN

Outline of Programme

Name of the degree: Bachelor of Siddha Medicine and Surgery

Abbreviation: BSMS

Duration: 05 years

Subject Benchmark Statements are aligned with graduate profile and Sri Lanka Qualification Framework (SLQF)

The course design is aligned with the Subject Benchmark statement Indigenous Medicine, University Grants Commission.

1st Professional (Basic Stream-BS1)

	Semester I			
Course Code	Course Title	Hours T/P/IL	Credit	
SAT 1013	Siddha Adippadai Thaththuvamum Maruthuva Varalarum- I (Basic Principles of Siddha Medicine and History -I)	30/30/90	3	
GNA 1013	Gunapadam- I Moolikaieyal (Siddha Pharmacology – I Herbs)	30/30/90	3	
UDK 1012	Udalkootriyal- I (Anatomy - I)	15/30/55	2	
UDT 1012	Udalthathuvam & Uyirvediyal I (Physiology & Biochemistry I)	15/30/55	2	
ADY 1012	Addangayogam - I (Yoga - I)	15/30/55	2	
ENG 1012	English for Communication - I	30/00/70	2	
TAM 1011 / SIN 1011	Basic Tamil - I / Basic Sinhala – I	15/00/35	1	
	Total	150/150/450	15	

	Semester II			
Course Code	Course Title	Hours T/P/IL	Credit	
SAT 1023	Siddha Adippadai Thaththuvamum Maruthuva Varalarum-II (Basic Principles of Siddha Medicine and History -II)	30/30/90	3	
GNA 1023	Gunapadam-II Moolikaieyal (Siddha Pharmacology – II Herbs)	30/30/90	3	
UDK 1022	Udalkootriyal- II (Anatomy -II)	15/30/55	2	
UDT 1022	Udalthathuvam & Uyirvediyal II Physiology & Biochemistry II	15/30/55	2	
ADY 1022	Addangayogam - II (Yoga - II)	15/30/55	2	
ENG 1022	English for communication - II	30/00/70	2	
TAM 1021 / SIN 1021	Tamil - II / Sinhala – II	15/00/35	1	
	Total	150/150/450	15	

2nd Professional (Basic Stream- BS2)

Semester III				
Course Code	Course Title	Hours	Credit	
		L/P/IL		
SEK 2031	Siddhar Elakkiyam-I	15/00/35	1	
	(Siddha Literature - I)			
GNA 2033	Gunapadam III - Thathu Jeeva Vakuppu (Siddha Pharmacology - III Metal, Minerals, and Animal kingdom)	30/30/90	3	
UDK 2032	Udalkootriyal III (Anatomy -III)	15/30/55	2	
UDT 2033	Udalthathuvam & Uyirvediyal III Physiology & Biochemistry III	30/30/90	3	
INT 2032	Information Technology - I	15/30/55	2	
MEP 2032	Medical Ethics and Professionalism - I	30/00/70	2	
RMS 2032	Research Methodology	30/00/70	2	
	Total	165/120/465	15	

	Semester IV			
Course Code	Course Title	Hours	Credit	
	Course Title	T/P/IL		
SEK 2041	Siddhar Elakkiyam II (Siddha Literature - II)	15/00/35	1	
GNA 2044	Gunapadam-IV Thathu Jeeva Vakuppu (Siddha Pharmacology- IV - Metal, Minerals, and Animal kingdom)	30/60/110	4	
UDK 2043	Udalkootriyal- IV (Anatomy - IV)	30/30/90	3	
UDT 2043	Udalthathuvam & Uyirvediyal – IV (Physiology & Biochemistry – IV)	30/30/90	3	
INT 2042	Information Technology - II	15/30/55	2	
MEP 2042	Medical ethics and professionalism - II	30/00/70	2	
	Total 150/150/450 15			

3rd Professional (Applied Stream-AS)

	Semester V		
Course Code	Course Title	Hours T/(P/FV)/IL	Credit
NNL 3054	Noi Naadal - I (Pathology - I)	45/30/125	4
CHA 3051	Chikitsai Adippadaithaththuvam - I (Fundamentals of Therapeutics in Siddha - I)	15/00/35	1
GNA 3054	Gunapadam -V Marunthu Seymuraieyal (Siddha Pharmacology – V Pharmaceutical Sciences)	30/60/110	4
SNM 3053	Samooga Nala Maruththuvam - I (Community Medicine - I)	30/30/90	3
NSM 3053	Nanchiyalum Sadda Maruthuvamum – I (Forensic Medicine &Toxicology) - I	30/30/90	3
	Total	150/150/450	15

	Semester VI				
Course Code	Course Title	Hours	Credit		
NNL3064	Noi Naadal- II (Pathology-II)	T / (P / FV) / IL 45/30/125	4		
CHA 3061	Chikitsai Adippadaithaththuvam- II (Fundamentals of Therapeutics in Siddha –II)	15/00/35	1		
GNA3064	Gunapadam-VI Marunthu Seymuraieyal (Siddha Pharmacology – VI Pharmaceutical sciences)	30/60/110	4		
SNM3063	Samooga Nala Maruththuvam – II (Community Medicine – II)	30/30/90	3		
NSM 3063	Nanchiyalum Sadda Maruthuvamum – II (Forensic medicine &Toxicology – II)	30/30/90	3		
	Total	150/150/450	15		

Final Professional (Clinical Stream-CS)

	Semester VII				
Course Code	Course Title	Hours T/P/IL	Credit		
SMP 4073	Siddha Maruthuvam- Pothu - I (Medicine – General - I)	30/45/75	3		
SMS 4073	Siddha Maruthuvam- Sirappu - I (Kayakarpam, Yoga & Psychiatric) (Medicine – Special - I)	30/45/75	3		
KUM 4073	Kuzhanthai Maruththuvam-I (Paediatrics - I)	30/45/75	3		
SRM 4073	Siroroga Maruththuvam – I (ENT- I)	30/45/75	3		
PPM 4071	Paramparai Maruthuvam - I (Traditional Medicine - I)	00/45/05	1		
RPT 4072	Research Project I	00/200/00	2		
	Total	120/425/305	15		

	Semester VIII				
Course Code	Course Title	Hours T/P/IL	Credit		
SMP 4083	Siddha Maruthuvam - Pothu- II (Medicine -General - II)	30/45/75	3		
SMS 4083	Siddha Maruthuvam - Sirappu (External therapy & Varmam) - II (Medicine-Special - II)	30/45/75	3		
KUM 4083	Kuzhanthai Maruththuvam-II (Paediatrics - II)	30/45/75	3		
SRM 4083	Siroroga Maruththuvam - II (ENT - II)	30/45/75	3		
PPM 4081	Paramparai Maruthuvam - II (Traditional Medicine - II)	00/45/05	1		
RPT 4082	Research Project II	00/200/00	2		
	Total	120/425/305	15		

	Semester IX		
Course Code	Course Title	Hours	Credit
	Course Tide	T/P/IL	
SMP 4094	Siddha Maruthuvam – Pothu –III (Medicine - General - III)	45/45/110	4
SMS 4093	Siddha Maruthuvam – Sirappu - III (Skin) (Medicine - Special - III)	30/45/75	3
ARM 4093	Aruvai Maruththuvam - I (Surgery - I)	30/45/75	3
MMS 4093	Mahalir Maruthuvamum Sool Maruththuvamum – I (Gynaecology & Obstetrics - I)	30/45/75	3
RPT 4092	Research Project III	00/200/00	2
Total		135/380/335	15

	Semester X				
Course Code	Course Title	Hours	Credit		
	000230 2330	T/P/IL	0_0,00		
SMP 4104	Siddha Maruthuvam- Pothu -IV (Medicine-General - IV)	00/180/20	4		
SMS 4103	Siddha Maruthuvam - Sirappu IV (Medicine – Special - IV)	00/135/15	3		
ARM 4104	Aruvai Maruththuvam - II (Surgery - II)	00/180/20	4		
MMS 4104	Mahalir Maruthuvamum Sool Maruthuvamum II (Gynaecology & Obstetrics II)	00/180/20	4		
	Total	00/675/75	15		

^{*}T,P,C,IL, FV -Theory hours, Practical hours, Clinical hours, Independent Learning hours and Field Visit.

3. 9. ACADEMIC PROGRESSION

Five years duration with four Professionals (10 Semesters) as mentioned below.

- First Professional (02 Semesters) 48 Weeks
- Second Professional (02 Semesters) 56 Weeks
- Third Professional (02 Semesters) 52 Weeks
- Final Professional (04 Semesters) 104Weeks

3.9.1. FALL BACK OPTION

Award of fall back Qualification

Fall back qualification should be available to any undergraduate students only after completion of the course period of study (05 Academic Years) of the program for which those students have been registered.

The effective date of a fall-back qualification should be the 1st day of the month after which the Senate of Eastern University Sri Lanka has approved award of the qualification, at the request of student and on the recommendation of the Faculty Board of Siddha Medicine. Provision for the fallback option will be accordance with the By-laws of Faculty of Siddha Medicine, EUSL and the UGC circular No: 04/2021.

Requirements

Accumulated grade of 'C' or better in course unit aggregate at least 60 credits at SLQF level 4

3. 10. CURRICULUM MAP

Courses in the Curriculum			Graduat	e Profile	
Course Code	Courses	Knowledge	Skills	Attitudes	Mind-set
SAT 1013	Siddha Adippadai Thaththuvamum maruthuva varalarum- I (Basic Principles of Siddha Medicine and History -I)	V			
GNA1013	Gunapadam- I Moolikaieyal (Siddha Pharmacology – I Herbs)	V	$\sqrt{}$		
UDK1012	Udalkootriyal- I (Anatomy - I)	V	V		
UDT 1012	Udalthathuvam & Uyirvediyal I (Physiology & Biochemistry I)	V	V		
ADY1012	Addangayogam - I (Yoga - I)	V	√		
ENG1012	English for Communication - I	V	V		
TAM1011 / SIN 1011	Tamil – I / Sinhala – I	V	V		
SAT 1023	Siddha Adippadai Thaththuvamum maruthuvavaralarum-II (Basic Principles of Siddha Medicine andHistory -II)	V			
GNA 1023	Gunapadam-II Moolikaieyal (Siddha Pharmacology – II Herbs)	$\sqrt{}$	$\sqrt{}$		
UDK 1022	Udalkootriyal- II (Anatomy -II)	V	V		
UDT 1022	Udalthathuvam & Uyirvediyal II Physiology & Biochemistry II	V	V		
ADY 1022	Addangayogam - II (Yoga - II)	$\sqrt{}$	V		
ENG 1022	English for communication - II	V	V		
TAM 1021 / SIN 1021	Tamil – II / Sinhala – II	V	V		
SEK 2031	Siddhar Elakkiyam-I (SiddhaLiterature - I)	$\sqrt{}$	√		
GNA 2033	Gunapadam III - Thathu Jeeva Vakuppu (Siddha Pharmacology - III Metal, Minerals, and Animal kingdom)	V	V		
UDK 2032	Udalkootriyal III (Anatomy -III)	V	\checkmark		
UDT 2033	Udalthathuvam & Uyirvediyal III Physiology & Biochemistry III	V	√		

Course Code	Courses	Knowledge	Skills	Attitudes	Mind-set
INT 2032	Information Technology - I	V	V		
MEP 2032	Medical Ethics and Professionalism - I	V	V	V	V
RMS 2032	Research Methodology	V	V		
SEK 2041	Siddhar Elakkiyam II (SiddhaLiterature - II)	V			
GNA 2044	Gunapadam-IV ThathuJeevaVakuppu (SiddhaPharmacology- IV -Metal, Minerals, and Animal kingdom)	√	$\sqrt{}$		
UDK 2043	Udalkootriyal- IV (Anatomy - IV)	√	V		
UDT 2043	Udalthathuvam & Uyirvediyal IV Physiology & Biochemistry - IV	V	V		
INT 2042	Information Technology - II	√	V		
MEP 2042	Medical ethics and professionalism - II	V	V	V	V
NNL 3054	Noi Naadal - I (Pathology - I)	V	V	V	V
CHA 3051	Chikitsai Adippadaithaththuvam - I (Fundamentals of Therapeutics in Siddha - I)	V			
GNA 3054	Gunapadam -V Marunthu seymuraieyal (Siddha Pharmacology – V Pharmaceutical sciences)	V	V		
SNM 3053	Samooga Nala Maruththuvam - I (Community Medicine - I)	V	V	V	
NSM 3053	Nanchiyalum Sadda Maruthuvamum – I (Forensic Medicine &Toxicology) - I	V	V		
NNL3064	Noi Naadal- II (Pathology-II)	V	$\sqrt{}$	V	V
CHA 3061	Chikitsai Adippadaithaththuvam- II (Fundamentals of therapeutics in Siddha –II)	V			
GNA 3064	Gunapadam-VI Marunthu seymuraieyal (Siddha Pharmacology – VI Pharmaceutical sciences)	V	V		
SNM3063	Samooga Nala Maruththuvam – II (Community Medicine – II)	V	V	V	
NSM3063	Nanchiyalum Sadda Maruthuvamum – II (Forensic medicine &Toxicology – II)	V	V		
SMP 4073	Siddha Maruthuvam- Pothu - I (Medicine–General - I)	V	V	V	V
SMS 4073	Siddha Maruthuvam- Sirappu (Kayakarpam, Yoga & Psychiatric) - I (Medicine – Special - I)	V	V	V	V

Course Code	Courses	Knowledge	Skills	Attitudes	Mind-set
KUM 4073	Kuzhanthai Maruththuvam-I (Paediatrics - I)	V	V	V	V
SRM 4073	Siroroga Maruththuvam – I (ENT- I)	V	√	√	V
PPM 4071	Paramparai Maruthuvam -I (Traditional Medicine -I)	V	V	V	V
RPT 4072	Research Project I	V	V		
SMP4083	Siddha Maruthuvam -Pothu- II (Medicine -General - II)	V	V	V	V
SMS 4083	Siddha Maruthuvam - Sirappu (External therapy,& Varmam) -II (Medicine-Special - II)	V	V	V	V
KUM 4083	Kuzhanthai Maruththuvam-II (Paediatrics - II)	V	V	V	√
SRM 4083	Siroroga Maruththuvam- II(ENT - II)	V	V	V	√
PPM 4081	PPM 4081		V	V	V
RPT 4082	Research Project II	V	V		
SMP 4094	SMP 4094 Siddha Maruthuvam – Pothu –III (Medicine - General - III)		V	V	V
SMS 4093 Siddha Maruthuvam – Sirappu -III (Skin) (Medicine - Special - III)		V	V	√	√
ARM 4093	Aruvai Maruththuvam - I (Surgery - I)	V	V	V	V
MMS 4093 <i>Mahalir Maruthuvamum Sool Maruththuvamum</i> –I (Gynaecology & Obstetrics - I)		V	V	V	V
RPT 4092	Research Project III	V	V		
SMP 4104	Siddha Maruthuvam- Pothu -IV (Medicine-General - IV)	√	√	V	V
SMS 4103	Siddha Maruthuvam - Sirappu IV (Medicine – Special - IV)	V	V	V	V
ARM 4104	Aruvai Maruththuvam - II (Surgery - II)	√	√	V	V
MMS 4104	Mahalir Maruthuvamum Sool Maruthuvamum II (Gynaecology &Obstetrics II)	$\sqrt{}$	√ 	√ 	√

3. 11. CURRICULUM MATRIX

Degree and Year	Level of	Nun	aber of c	eredits i	n princ	cipal co	ourses	rses Enhancement (EN) courses & credits		Total
	offered courses	SAT	GNA	UDK	Ul	DT	ADY	Courses	Credit	credits for the award
Bachelor of	First							ENG 1012 - English for Communication - I	2	
Siddha Medicine and Surgery	Semester	3	3	2	2	2	2	TAM 1011 / SIN 1011 - Tamil — I / Sinhala — I	1	24 + 6
(BSMS)	G 1							ENG 1022 - English for Communication - II	2	24 + 6
1 st Professional	Second Semester	3	3	2	2	2	2	TAM 1021 / SIN 1021 – Tamil - II / Sinhala – II	1	
Bachelor of Siddha Medicine	Third Semester	SEK	GNA	UDK	UDT	RMS	MEP	Courses	Credit	06
and Surgery		1	3	2	3	2	2	INT 2032 - Information Technology - I	2	26 + 04
(BSMS) 2 nd Professional	Fourth Semester	1	4	3	3	-	2	INT 2032 - Information Technology – II	2	01
Bachelor of	Fifth	NNL	СНА	GNA	SN	IM	NSM	Courses	Credit	
Siddha Medicine and Surgery (BSMS)	Semester	4	1	4	3	3	3	-	-	30
3 rd Professional	Sixth Semester	4	1	4	3	3	3	-	-	

4. EXAMINATION AND EVALUATION

4.1. EXAMINATION

4.1.1. TYPES OF EXAMINATION AND EVALUATION PROCEDURE

The examination procedure of the BSMS Programme consists of ten Continuous Assessment Test (CAT) and four professional examinations.

4.1.1.1. CONTINUOUS ASSESSMENT TEST (CAT)

The CAT will be conducted at the end of each course. The average CAT marks (20%) will be added in each Professional examination. The CAT marks will only be considered for 1st repeat examination.

The method of CAT and marks distribution is as follows,

Method of CAT for Siddha Medical Courses

Evaluation method	Marks
MCQ / SEQ / OSPE / OSCE	20%

Method of Semester Assessment for Non-Siddha Medical courses

Evaluation method	Marks
Presentation / Communication skill / Quiz / Debate / MCQ /	20%
SEQ	

4.1.1.2. PROFESSIONAL EXAMINATION

There are four professional examinations. A professional examination will be conducted at the end of each profession.

Allocation of marks as is follows.

(a) Marks distribution for professional Examination for Siddha Medical courses

Method of assessment	Written	Practical/ Clinical	CAT (Average)	Total
All four Professional Examination	40%	40%	20%	100%

(b) Marks distribution for Professional Examination subjects without Practical / Clinical courses

Method of	Written	CAT (Average)	Total
assessment			
1 st , 2 nd and 3 rd Professional	80%	20%	100%
Examination			

4.1.1.2.1. Research project

Research project will be begins at Semester VII and ends in semester IX for consecutive 3 Semesters, the evaluation will be in final professional. Method of evaluation as follows:

• Supervisor Assessment - 15%

• Dissertation - 60%

• Viva - Voce Presentation - 25%

Can refer the Guidelines for research Project (RPT) with Curriculum

Guidelines for Research project

- Student is allowed to undertake the work in the project with the title of the RPT which must be registered at the Faculty of Siddha Medicine.
- Students are allowed to begin RPT work at the beginning of the 7th Semester
- The title should be based on the quotation from the authenticated Siddha literature or conceptsof the Siddha literature
- The student should engage in research work within their knowledge of the study.
- The progress of the research project will be evaluated at the end of the 9th Semester by the three Siddha Senior Academic Panel / Supervisors.
- The research project work will be representing the outline of methodology and scientific pursued by the students on the problem selected by the students with the concurrence of the supervisor.
- The student will be required to submit the Research project certified by the supervisor to the Headof the department eight weeks before the scheduled final professional examination.

4.1.1.2.2. Elective appointment

Guidelines for the Electives Appointment

The Electives programmer is an integral part of the Clinical Sciences Stream. It consists of a four-week continuous period. During this period, it will be a self-guided training under supervision on an area of interest of the student. It is essential that the topic must be directly related to health.

The Electives program is placed before your final professorial appointments. If a student wishes to do the electives appointment at an alternative time or for a longer period due to a genuine reason, approval should be obtained from the Faculty after ensuring that it is not interfering with any other scheduled academic teaching / learning activity or assessment.

Planning your elective appointment should be done prior to the commencement of the Electives Programme. An elective project should be carried out by a single student or collaboratively by two students.

Selection of Title

Select a topic based on students' interests that will allow them to broaden their perspectives and lead to personal development. Students should show evidence that you have considerably advanced your abilities in the subject topic beyond the standard curriculum. The work planned should be sufficient to cover four weeks of full-time work.

Selection of Supervisor

Identify a suitable internal supervisor from University and External supervisor from workplace who are knowledgeable and skilled in guiding you through the proposed elective, and also capable of supervising and evaluating your progress during the elective.

In Semester IX, the students will be following a mandatory elective program of four weeks.

- 1. Ayurvedic Medicine
- 2. Unani Medicine
- 3. Acupuncture
- 4. Modern Medicine
- 5. Traditional Medicine (Different specialty)

4.1.1.3. REPEAT PROFESSIONAL EXAMINATION

- A student may submit any justifiable reason for the absent of schedule examinations
 which must be recommended by the Faculty Board, Campus Board and approved by the
 University Senate or under the medical ground supported by a valid medical certificate
 the chance will be retained. Other than this, a student absent for scheduled examinations
 will be treated as a repeat candidate.
- A student who obtains grades less than "C" in a medical coursess must be repeated the professional examination for that respective course and the maximum grade for the repeat examination shall be "C".
- A student who obtains grades less than "D+" in a non- Siddha Medical courses must be repeated the examination for that respective course and the maximum grade for the repeat examination shallbe "D+".
- A student who failed in a course (s) in the 2nd / final professional examination at the 1st attempt an immediate repeat examination will be scheduled after 04 weeks from the release of results to complete the barrier / commence their internship training respectively.
- Students are allowed to repeat the professional examinations of any subject only **Thrice** at the next available opportunity. One grace chance per course may be granted in exceptional circumstances with the approval of the Senate on the recommendation of the Faculty Board and Campus Board.
- Repeat students may be allowed to follow the lectures / practical / clinical with the
 permission of the Head of the Department and concurrence of the concerned Lecturer /
 Consultant.
- The Programme of study should be completed within 10 Academic years including grace chances

4.1.2. TYPES OF EXAMINATION AND EVALUATION PROCEDURE

4.1.2. ATTENDANCE

4.1.2.1. Professional examination

80% of attendance for lectures, and practical sessions in every Semester and 100 % attendance for clinical sessions in every Semester are compulsory to sit the professional examinations. A student who has less than the above-mentioned attendance shall allow sitting the relevant professional examination at the next available opportunity with deferment subjected to submitting the re-work records for the practical session and clinical to sit the exam.

4.1.2.2. Continuous Assessment Test (CAT)

Students must attend all the lectures, practical and clinical sessions of all course. The student must have minimum 80% of attendance for theory and practical sessions and 100 % attendance in clinical component to sit the Semester assessment. Each Semester 10% absentee (minimum attendance of 70% for theory and practical and 90% for clinical) may be permitted with the medical or valid reason approved by the Faculty Board subjected to submit the re-work records for clinical to sit the Semester assessment which is submitted by the Head of the Departments via concerned lecturer.

4.1.2.3. Medical Certificates

Academic activity

A student who is unable to attend the academic activity due to a medical reason / valid reason should be evidenced within 10 working days to the Head of the relevant department.

Examination

A student who is unable to appear for the professional examination due to medical reasons / valid real reasons should submit the evidence to the Head of the relevant department within10 working days. The request based on a medical certificate should be certified by the University Medical Officer, Trincomalee Campus. And it has to be recommended by the Faculty Board and Campus Board and approved by the Senate. For any other valid reason supported by the evidence will be referred to the recommendation of the Faculty Board and Campus Board and approved by the Senate of the EUSL.

Note: For disabled students

The University will make reasonable Appropriate Adjustment to course content, delivery and assessment methods without compromising the academic standards.

4.2. EVOLUATION

4.2.1. THE RANGE OF MARKS, GRADE AND GRADE POINT

The range of marks and grade for the course is as follows;

Marks	Grade	Grade Point
85 - 100	A^{+}	4.00
70 - 84	A	4.00
66 - 69	A ⁻	3.70
62 - 65	\mathbf{B}^{+}	3.30
58 - 61	В	3.00
54 - 57	B ⁻	2.70
50 - 53	C^+	2.30
46 - 49	С	2.00
42 -45	C-	1.70
38 - 41	D^{+}	1.30
34 - 37	D	1.00
00 - 33	Е	0.00

4.2.1.1. Pass / Fail criteria

- Grade C (GPA 2.00) or better grades in all Siddha Medical courses including Research Methodology are considered as pass.
- Grade D⁺ (GPA 1.30) or better grades in Non-Siddha Medical courses (English,
 Basic Tamil / Basic Sinhala and Information Technology) is considered as pass.

4.2.2. COMPUTATION OF GRADE POINT AVERAGE (GPA)

The GPA for each Professional for the degree program shall be calculated as follows, there are Four Summative assessments of learning in four Professional of BSMS Programme.

- 1st Professional Examination (P1) will be held at the end of the Semester II (**BS1**)
- 2nd Professional Examination (P2) will be held at the end of the Semester IV (**BS2**)
- 3rd Professional Examination (P3) will be held at the end of the Semester VI (AS)
- Final Professional Examination (P4) will be held at the end of the Semester X (CS)

NOTE: Non-Siddha Medical courses will not be considered for the calculation of GPA.

Average GPA of Professional (AGPA) shall be computed as follows:

$$AGPA^{J} = \frac{\sum_{1}^{n} GPA_{i} \times C_{i}}{\sum_{i}^{n} C_{i}}$$

The Overall GPA (OGPA) of the degree shall be calculated as follows:

$$OGPA = \frac{(AGPA^1 + AGPA^2 + AGPA^3 + 2AGPA^4)}{5}$$

where,

 C_i is the number of credits of i^{th} Course

GPA_i - Grade Point Average of ith Course

 $AGPA^{J}$ - Average GPA for the j^{th} Professional (calculated by rounding for four decimal points)

OGPA- Overall GPA (calculated by rounding for two decimal points)

4.3. AWARD OF DEGREE AND CLASS

4.3.1. AWARD OF DEGREE

A student will be awarded the BSMS Degree if he / she has obtained the following within Ten Academic years:

- a. C or better grades in all Siddha Medical courses including Research Methodology and Elective Appointment
- b. D⁺ or better grades in Non-Siddha Medical courses (English, Information Technology, Basic Tamil / Basic Sinhala)

4.3.2. CRITERIA FOR AWARD FOR BSMS PROGRAM

At the completion of BSMS Degree program.

4.3.3. AWARD OF CLASS AT THE END OF BSMS DEGREE

A student who has fulfilled all the conditions for the award of a degree within five academic years, except for the situation accepted by the Faculty Board and approved by the Senate, shall be awarded a class if he/she fulfills the following requirement,

Awards	GPA
First Class	3.70 or above
Second (Upper division)	3.30 - 3.69
Second (Lower)	3.00 - 3.29
Pass	2.00 - 2.99

Note: A student who is punished for the offences by the authority of the Eastern University, Sri Lanka, will not be eligible to get a class.

4.4. EFFECTIVE DATE OF THE DEFREE

The effective date of the degree shall be the date of the viva voice presentation of dissertation or last date of the examination of the particular Professional examination whichever comes latest.

4.5. OFFICIAL TRANSCRIPT

The grades obtained in all subjects including the elective should be appeared in the transcript. The transcript should include the class with OGPA.

4.6. AYURVEDA MEDICAL COUNCIL (AMC) REGISTRATION

In order to practice as a Siddha Medical Practitioner in Sri Lanka, all BSMS graduates must be registered with the Ayurveda Medical Council (AMC). Ayurveda act No.31 of 1961, which deals with registration of medical practitioners, stipulates that applicants must be "of good character".

5. COURSE SPECIFICATION

5.1. PRINCIPLES SUBJECTS

5.1.1. SUBJECTS OFFERED BY DEPARTMENT

5.1.1.1. DEPARTMENT OF MOOLA THATHTHUVAM

- Siddha Adippadai Thaththuvamum Maruthuva Varalarum (Basic Principles of Siddha Medicine and History)
- *Udalkootriyal* (Anatomy)
- *Udalthathuvam & Uyirvediyal* (Physiology & Biochemistry)
- *Addangayogam* (Yoga)
- Research Methodology
- English for Communication
- Basic Tamil / Basic Sinhala
- Information Technology
- Research Project

5.1.1.2. DEPARTMENT OF GUNAPADAM

- Gunapadam Moolikaieyal (Siddha Pharmacology Herbs)
- *Gunapadam Thathu Jeeva Vakuppu* (Siddha Pharmacology Metal, Minerals, and Animal kingdom)
- *Gunapadam Marunthu Seymuraieyal -* (Siddha Pharmacology Pharmaceutical Sciences)
- Siddhar Elakkiyam (Siddha Literature)
- Medical Ethics and Professionalism

5.1.1.3. DEPARTMENT OF NOINAADAL CHIKITSAI

- *Noi Naadal* (Pathology)
- Chikitsai Adippadaithaththuvam (Fundamentals of Therapeutics in Siddha)
- Samooga Nala Maruththuvam (Community Medicine)
- Nanchiyalum Sadda Maruthuvamum (Forensic Medicine &Toxicology)
- Siddha Maruthuvam- Pothu (Medicine-General)
- Siddha Maruthuvam Sirappu (Medicine Special)
- Kuzhanthai Maruththuvam (Paediatrics)
- Siroroga Maruththuvam (ENT)
- Paramparai Maruthuvam (Traditional Medicine)
- Aruvai Maruththuvam (Surgery)
- Mahalir Maruthuvamum Sool Maruththuvamum (Gynaecology & Obstetrics)

Subject Title	: Siddha Adippadai Thaththuvamum maruthuvavaralarum I
	(Basic Principles of Siddha Medicine and History I)
Subject Code	: SAT 1013
Year & Semester	: Profession I Semester I
Credits	: 03
Status	: Basic Stream (BS1)

To:

- 1. Understand the basic concepts of Siddha Adippadai Thaththuvamum
- 2. Understand the *maruthuvavaralaru* (History of Siddha Medicine)
- 3. Comprehend the specialty of Siddha Medicine
- 4. Get practical knowledge in Siddha Adippadai Thaththuvamum
- 5. Develop skill in PBL based on Siddha Adippadai Thaththuvamum

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *Siddha Adippadai Thaththuvamum* and the foundations of Siddha Medicine including the basic concepts of *Siddha Adippadai Thaththuvamum* and specialty of Siddha Medicine

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ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
• Gain through knowledge in the basic concepts of	Knowledge	1, 2
Siddha Adippadai Thaththuvamum and		
maruthuvavaralaru		
• Able to interpret the Siddha Adippadai	Skills	3, 4, 5, 8
Thaththuvamum		, , ,
• Establish the basic concepts of Siddha Adippadai	Attitude	9,10,11
Thaththuvamum		, ,
2		
• Explore the knowledge in Adippadai	Mindset	12
Thaththuvamum towards Siddha system of		
medicine medicine		
medicine		

Content:

- 1. Introduction of Siddha Medicine and related *Thaththuvamum* to Siddha Medicine
- 2. *Siddharkalin muthatkotpaadu uyilkalin thotram* (origin of life)
 - 2.1 Siddharkalin koorpu kolgai (evolution theory according to Saints)
- 3. *Iympootha kolkai / Panchabhootham* (five element theory)
 - 3.1 *Iympoothankal*
 - 3.2 Combination of *impori* and *impulangal* and relations between them
 - 3.3 Combination of five elements and relation among five elements with medicine
 - 3.4 Theory of *Panchabhootha panchekaranam*

- 4. Mukkutrankal (trihumours) Vatham, Piththam and Kabham
 - 4.1 Formation of *Mukkutrangal*
 - 4.2 Relations among the Mukkutrangal, Panchabhootham and Suvaihal
- 5. Anda pinda thathuvam (theory of connection between universe and body)
- 6. Thottramum odukkamum (origin and condensation)
 - 6.1 Matraththal aayathu ulakam
 - 6.2 Pahuthikalal aayathu ulakam
 - 6.3 Anukkalal aayathu ulakam
- 7. History of Siddha Medicine
 - 7.1 *Kumarikkandam* (Lemuria)
 - 7.2 Siddhu veli nagarikam
 - 7.3 Sanga kaalam,
 - 7.4 Sankamaruviya kalam
 - 7.5 Siddhar kalam
 - 7.6 Status of Siddha Medicine after 20th Century
 - 7.7 Current status of Siddha Medicine in Sri Lanka
 - 7.8 Siddha literature in Sri Lanka
- 8. Detail study of *Pathinen Siddhars*
 - 8.1 Classification of Siddhars
 - 8.2 Pathinen Siddhars (Saints)
 - 8.3 Ellaththu Siddharkal (Sri Lankan Saints)
 - 8.4 Siddharkalin thanich sirappu (specialty of Saints)
 - 8.5 *Siddharkalin kanmani* (rasavatham)
 - 8.6 *Siddharkalin manimakudam* (muppu)
 - 8.7 Enperum siddhikal (attama siddhi)
 - 8.8 Attanka yogam
- 9. Excellence of Siddha Medicine

Methods of Teaching and	Methods	Notional	
Learning:		Learning Hours	
	1. LMS based learning	1. LMS based learning	
	2. Self-study using study g	guide	50
	3. Case Study/Problem Ba	sed Learning	15
	4. Virtual/Real Group Dis	cussion	20
	5. Resource based Learnin	35	
	Total	150	
Methods of Assessments :	Methods	Marks	Hours
	Formative Assessment: 20 %		01
	Summative Assessment:	80 %	03
Recommended Readings:			
	1. Uththamanarayanan	K.S.	Thortrakirama
	arayichchiyum Si	ddha marutht	huva varalaarum,

- Department of Indian Medicine and Homoepathy, Chennai.
- 2. Anaivaari R.Anandan. A Compedium of Siddha Doctrine, Department of Indian Medicine and Homoepathy, Chennai.
- 3. Uththamanarayanan K.S. Siddha Maruththuvankach sukkam. Department of Indian Medicine and Homoepathy, Chennai.
- 4. Atarajan K and Anaivaari R.Anandan. Principles of diagnosis in Siddha. Department of Indian Medicine and Homoepathy, Chennai.
- 5. Pon. Ramanathan. Siddha Maruthtuvaththin Thotramum valarchchiyum. Jaffna.
- 6. S. Sivashanmugaraja. Irupatham nootrandil elaththuch siddha maruththuvam. Siddha Medical development Society, Jaffna.
- 7. Pon. Ramanathan. Maruththuva nokkil Siddharkalum ththuva Sinthanaikalum. Jaffna.
- 8. Related Journals

Subject Title	:	Siddha Adippadai Thaththuvamum maruthuvavaralarum II
		(Basic Principles of Siddha Medicine and History II)
Subject Code	:	SAT 1023
Year & Semester	•	Profession I Semester II
Credits	:	03
Status	:	Basic Stream (BS1)

To:

- 1. Understand the basic concepts of Siddha Adippadai Thaththuvamum
- 2. Get practical knowledge in Siddha Adippadai Thaththuvamum
- 3. Develop experience in Siddha Adippadai Thaththuvamum in modern science

Intended Learning Outcomes:

At the end of this course students should be able obtain the knowledge on *Siddha Adippadai Thaththuvamum* and the foundations of Siddha Medicine including the basic concepts of *Siddha Adippadai Thaththuvamum* and specialty of Siddha Medicine

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Gain through knowledge in the basic concepts of Siddha Adippadai Thaththuvamum and maruthuvavaralaru	Knowledge	1, 2
• Able to interpret the Siddha Adippadai Thaththuvamum	Skills	3, 4, 5, 8
• Establish the basic concepts of Siddha Adippadai Thaththuvamum	Attitude	9,10,11
• Explore the knowledge in <i>Adippadai Thaththuvamum</i> towards Siddha system of medicine	Mindset	12

Content:

- 1. Siddha thaththuvamkal
 - 1.1 Udal thaththuvam
 - 1.2 Porul thaththuvam
 - 1.3 Aruvapporul,
 - 1.4 Uruvapporul
 - 1.5 Pathi, pasu, and paasam
- 2. Siddharkalin anukk kolkai (Atomic theory of Siddhars)
- 3. *Uyir* (sole)
- 4. *Manam* (mind)
- 5. Siddhantha Alavaikal (logic) and Siddha maruththuvam (Siddha Medicine)

- 6. Different school of thoughts on medical aspect of Siddha literatures
 - 6.1 Thirukkural
 - 6.1.1. Marunthu Athikaaram with Siddha Medicine
 - 6.1.2 Scientific aspect of Thirukkural in health
 - 6.2 Thirumanthiram and Siddha Medicine
- 7. Indian philosophy in Siddha Medicine
 - 7.1 Vaitheega thaththuvam
 - 7.1.2 Sankhyam
 - 7.1.3 *Yogam*
 - 7.1.4 *Nyaya*
 - 7.1.5 Vaisheshika
 - 7.1.6 Mimamsa
 - 7.1.7 Vedantam
 - 7.2 Avaitheega thaththuvam
 - 8.2.1 Jainism
 - 8.2.2 Buddhism
 - 8.2.3 *Lokayata*
- 8 Vethankal and upanidathankal
- 9 Siddha maruththuvanin illakkanam (moral code of Siddha physician) and its application
- 10 Ivagai nilangal (geographical divisions of land)
 - 10.1 Detail study on Ivagai nilangal

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
	1. LMS based l	earning	30
	2. Self-study us	sing study guide	40
	3. Case Stu	dy/Problem Bas	sed 20
	Learning		
	4. Virtual/Real	Group Discussion	10
	5. Resource bas	sed Learning	50
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80 %	03
	Assessment:		
Recommended Readings :			
	1. Uththamanarayanan K.S. Thortrakirama		
	arayichchiyum Siddha maruththuva varalaarum,		
	Department of Indian Medicine and Homoepathy,		
	Chennai.		

- 2. Anaivaari R.Anandan. A Compedium of Siddha Doctrine, Department of Indian Medicine and Homoepathy, Chennai.
- 3. Uththamanarayanan K.S. Siddha Maruththuvankach sukkam. Department of Indian Medicine and Homoepathy, Chennai.
- 4. Atarajan K and Anaivaari R.Anandan. Principles of diagnosis in Siddha. Department of Indian Medicine and Homoepathy, Chennai.
- 5. Pon. Ramanathan. Siddha Maruthtuvaththin Thotramum valarchchiyum. Jaffna.
- 6. S. Sivashanmugaraja. Irupatham nootrandil elaththuch siddha maruththuvam. Siddha Medical development Society, Jaffna.
- 7. Pon. Ramanathan. Maruththuva nokkil Siddharkalum ththuva Sinthanaikalum. Jaffna.
- 8. Shanmugavelu, M. (1967). *Noi nadal noi mudal nadal thirattu* I. Chennai: Department of Indian Medicine and Homoeopathy, Chennai.
- 9. Related Journals

Subject Title	: <i>Udalkootriyal</i> - I (Anatomy I)	
Subject Code	: UDK 1012	
Year & Semester	: Professional I Semester I	
Credits	: 02	
Status	: Basic Stream (BS1)	

To:

- 1. To study about the Siddha principles of anatomy
- 2. To study about the Pectoral region, Axilla and Scapula region

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *Siddha Adippadai Thaththuvamum* and the foundations of Siddha Medicine including the basic concepts of *Siddha Adippadai Thaththuvamum* and specialty of Siddha Medicine

11		
ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
Describe the Siddha principles of anatomy	Knowledge	1, 2
Describe the Pectoral region, Axilla and		
Scapula region		
Dissect and demonstrate the upper limb	Skills	3, 4, 5, 8
Perform the dissection	Attitude	9,10,11
Apply the theoretical knowledge with practical	Mindset	12

Content:

Part I

Ankathipatham

- 1. Siddha principles of anatomy
- 2. Concept of excellence of body propounded by Siddha saints.
- 3. Karu urpathi and Yakkai
- 4. Pulan Uruppukal (sensory organs) and Jeerana uruppukkal (Digestive organs)
- 5. Study on locations of Varma points in human body (Vital points)
 - 5.1.Briefly study on Varma points
 - 5.2. Varma points located in the head
 - 5.2.1. Thilarththa varmam
 - 5.2.2. Serum kolli varmam
 - 5.2.3. Ottu varmam
 - 5.2.4. Utchi varmam
 - 5.2.5. Poikai Varmam
 - 5.2.6. Sevikkuththi varmam
 - 5.2.7. Kurunthu Kuththi varmam
 - 5.2.8. Alavaadi varmam
 - 5.2.9. Natchaththira kalam
 - 5.2.10. Pinvetti varmam
 - 5.2.11. Komberik kalam
 - 5.2.12. Sulumunai varmam

- 5.2.13. Poochanthi varmam
- 5.2.14. Kanmani varmam
- 5.2.15. Paala varmam
- 5.2.16. Kannadi yarmam
- 5.2.17. Pidari Varmam
- 5.2.18. Valaimudintha varmam
- 5.2.19. Netti Varmam
- 5.2.20. Kaakkattai Varmam
- 5.3. Varma points located in the neck
 - 5.3.1. Mun naakku thalli varmam
 - 5.3.2. Pin kaluththu nadukku varmam
 - 5.3.3. Pakka kaluthtu nadukku varmam
 - 5.3.4. Kaaraikkuli varmam
 - 5.3.5. Thummi varmam
 - 5.3.6. Urakka kalam
 - 5.3.7. Muli thoori varmam

Part II

Introduction of Anatomy

- 6. Anatomical position, median sagittal, Horizontal, coronal plane.
- 7. Meaning of Anterior- Posterior, Medial lateral, Proximal- distal, Exterior- interior, palmar dorsal, Plantar- Dorsal surface, Superficial deep, Superior- inferior, Ipsilateral- contralateral, flexion- extension, Abduction adduction, lateral rotation-medial rotation, inversion- eversion, Protraction- retraction.
- 8. Describe the Skin, Fascia, type of muscle, bone and joints skin should be described in detail.
- 9. Upper limb
 - 9.1. Description, muscles attachments and clinical aspects of clavicle, scapula, humerus, radius, ulna and hand bone, shoulder girdle, Shoulder joint, Acromioclavicularjoint, Sternoclavicular joint, Elbow joint, Wrist joint and interphalangeal joint
 - 9.2. Surface landmark anterior and posterior compartment muscles, Nerves (Radial nerve, ulna Nerve, Median nerve)
 - 9.3. Radial Artery, ulna artery and brachial artery and its branches, Anastomosis around elbow joint, Superficial and deep veins of upper limb
 - 9.4. Hand palmar aponeurosis, muscles, Flexor Retinaculum Superficial & deep Palmar arch
- 10. Pectoral region, axilla, scapula region

- 10.1. Pectoral region- Surface landmarks mammary gland, muscles of the pectoral region
- 10.2. Axilla- Boundaries of axilla, study of contents of axilla, brachial plexus.
- 10.3. Back and scapula region- land marks skin & facia of back, muscles connecting upper limb with the vertebral column

Dissect and demonstrate the upper limb

Methods of Teaching and	Methods		Notional
Learning:	1. Seminar		Learning Hours
	2. LMS based learning		15
	3. Self-study using stud	ly mide	20
	4. Case Study/Probl		
	Learning	.cm Dasc	10
	5. Virtual/Real Group I	Discussion	10
	6. Resource based Lear		35
	Total		100
Methods of Assessments :	Methods	Marks	Hours
	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory 03,
			Practical 01
Recommended Readings:	1. Chummy S Sinnata	• `	•
		pplied. E	dinburgh: Churchill
	Livingstone.		
	2. Kanagasundaram,R.	(1980).A ne	w approach to
	dissection of the human Body. Singapore: PGPublishing3. Anne M R Agur, (2005). Grant's atlas of Anatomy.		
	Philadelphia: Lippino	cott William	ns & Wilkins,.
	4. Harold Ellis. (2002).	Clinical And	atomy. Oxford:
	Blackwells,		
	5. Sadler, T W. (2006).	Langman's	Medical
	Embryology. Philade	lphia: Lippi	ncott Williams &
	Wilkins,		
	6. Inderber Singh. (200	6).Text book	k of Human Neuro
	Anatomy. New Delhi	: Jaypee,.	
	Keith L Moore, (200	5). Clinical	ly oriented anatomy.
	Philadelphia: Lippino	cott William	ns & Wilkins

Richard L Drake. (2005). Gray's anatomy for students.
 Philadelphia: Churchill Livingstone

 Green. S.P, Thiyagarajan. R, Udatkooru, Indian
 Medicine and Homeopathy Chennai

 Snell, Richard.S, Clinical Anatomy by regions,
 Baltimore, MD: wolters Kluwer/ Lippincott willams
 & wilkins

Subject Title	:	Udalkootriyal- II (Anatomy II)
Subject Code	:	UDK 1022
Year & Semester	:	Professional I Semester II
Credits	:	02
Status	:	Basic Stream (BS1)

To:

- 1. To study about the Siddha principles of anatomy
- 2. To study about the leg and foot

Intended Learning Outcomes:

At the end of this course students should be able to,

ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
• Describe the Siddha principles of anatomy,	Knowledge	1, 2
leg and foot		
Dissect and demonstrate the lower limb	Skills	3, 4, 5, 8
Perform the dissection	Attitude	9,10,11
Apply the theoretical knowledge with	Mindset	12
practical		

Content:

Part II

Ankathipatham II

- 1. Locations of Vatham, Piththam & Kapam
- 2. Saptha thathukkal Charam, Cenneer, Oon, Kozhuppu, Enbu, Moolai, Sukkilam/ Sronitham
- 3. Study on locations of Varma points in human body (Vital points)
 - 3.1. Varma points located in the thorax and abdomen
 - 3.1.1. *Unthi varmam*
 - 3.1.2. Ner varmam
 - 3.1.3. Adappu varmam
 - 3.1.4. Sarithi varmam
 - 3.1.5. Puja varmam
 - 3.1.6. Nenju nadukku varmam
 - 3.1.7. Ellu komberi varmam
 - 3.1.8. Urumi varmam
 - 3.1.9. Mun marbu varmam
 - 3.1.10. Kuththi varmam
 - 3.1.11. Thivalai varmam
 - 3.1.12. Velleral varmam
 - 3.1.13. Kaareral varmam
 - 3.1.14. Chithira varmam
 - 3.1.15. Ellurukki varmam

3.1.16. Aththikaanthaari varmam

3.2. Varma points located in the abdomen

- 3.2.1. Sadayantha varmam
- 3.2.2. Siriya aththisurukki varmam
- 3.2.3. Periya aththisurukki varmam
- 3.2.4. Mundellu varmam
- 3.2.5. Seppu varmam

3.3. Varma points located in the back

- 3.3.1. *Ilankuruththu varmam*
- 3.3.2. Komberi maru varmam
- 3.3.3. Nenju nadukku varmam
- 3.3.4. Urumi maru varmam
- 3.3.5. Kulippoottu thallelumbu varmam
- 3.3.6. Sippi thoonguthasai varmamSippi varmam
- 3.3.7. Naavaari ellu varmam
- 3.3.8. Akaththuvara varmam
- 3.3.9. Kaikuli varmam
- 3.3.10. Sippi asaivu varmam
- 3.3.11. Kaipuja poruththu varmam

3.4. Varma points of located in pelvis

- 3.4.1. Kalladai varmam
- 3.4.2. Mummoorththi varmam
- 3.4.3. *Mooththira varmam*
- 3.4.4. Pathaippu varmam
- 3.4.5. Aka urulai visai naranbu varmam
- 3.4.6. Viththu varmam
- 3.4.7. Ilinga nadukku varmam
- 3.4.8. Thumbu varmam

3.5. Varma points located in the thigh

- 3.5.1. Thodai maiya varmam
- 3.5.2. Mel thodai maiya varmam
- 3.5.3. Keel thodai maiya varmam

3.6. Varma points located in the knee joint

- 3.6.1. Mootukannu varmam
- 3.6.2. *Moottusirattai varmam*
- 3.6.3. Mulankal mootu pathaippu varmam
- 3.6.4. Mulankaal moottu moliporuthtu varmam

3.7. Varma points located in the knee

- 3.7.1. Kuthiraimuka varmam
- 3.7.2. Kuthirai nuninaakku varmam
- 3.7.3. Vayiruthi varmam
- 3.7.4. Thumbikkala varmam

- 3.7.5. Kuthirai adinakku varamam
- 3.7.6. Kanapathi muga varmam
- 3.8. Varma points located in the foot
 - 3.8.1. Karandai kannu varmam
 - 3.8.2. Pathasakkara yarmam
 - 3.8.3. Karandai moli poruthtu varmam
 - 3.8.4. *Kuthikkal varmam*
 - 3.8.5. Narambu nadukku mudichchi varnmam
 - 3.8.6. Kaal nerukku varmam
 - 3.8.7. Pruviral manjal varmam
- 3.9. Varma points located in the arm
 - 3.9.1. Puya nadukku varmam
 - 3.9.2. Puya mel nadukku varmam
 - 3.9.3. Puja keel nadukku varmam
- 3.10. Varma points located in the forearm
 - 3.10.1. Mulangai nadukku varmam
 - 3.10.2. Mulankai mel nadukku varmam
 - 3.10.3. Mulankai keel nadukku varmam
 - 3.10.4. Naadi sooththira varmam
- 3.11. Varma points located in the elbow
 - 3.11.1. Mulangai moottu pathaippu varmam
 - 3.11.2. Mulangai mootu purathaarai visai narampu varmam
 - 3.11.3. Mulangai mootu moliporuththu varmam
 - 3.11.4. Mulangai mootu kaimandai varmam
- 3.12. Varma points located in the hand
 - 3.12.1. *Kaiperuviral moliporuththu varmam*
 - 3.12.2. Kaiperuviral pathakkai varma
 - 3.12.3. Kaiperuviral akathaarai pyurathaarai varmam
 - 3.12.4. Sorna vetrilai varmam
 - 3.12.5. Kai nerukku varmam
 - 3.12.6. Kai kavuli varmam
- 3.13. Varma points located in the wrist
 - 3.13.1. Kolikkaluthu varmam
 - 3.13.2. Kolikkaluthu kannu varmam
 - 3.13.3. Kolikkaluthu aka puratharai varmam

Part II

Lower limb

4. Osteology of the lower limbs (Hip bone, femur, ibia, fibula, paella, tarsal bone, meta tarsal and phalenges) and relevant applied anatomy

- 5. Joints of lower limbs (hip joint, knee joint, tibia fibular joint, ankle joint, joints in the foot) and its applied anatomy
- 6. Surface anatomy, Muscles attachment, Nerve supply, blood supply and applied anatomy of Hip, Thigh, Leg and foot and is relevant applied anatomy

Dissect and demonstrate the lower limb

Methods of Teaching and	Methods		Notional
Learning:	1 0		Learning Hours
	1. Seminar	10	
	2. LMS based learning		15
	3. Self-study using stu4. Case Study/Prob		20 sed 10
	Learning	neili bas	sed 10
	5. Virtual/Real Group	Discussion	10
	6. Resource based Lea	rning	35
	Total		100
Methods of Assessments :	Methods	Marks	Hours
	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory 03,
	4 61 6 61		Practical 01
Recommended Readings:			2006). Last's Anatomy:
		Applied.	Edinburgh: Churchill
	Livingstone.	D (1000)	
	2. Kanagasundarar	n,R. (1980)	A new approach to
	dissection of the	human Boo	dy. Singapore: PG
	Publishing		
	3. Anne M R Agur, (2005). Grant's atlas of Anatomy.		
	Philadelphia: Li	ppincott Wi	lliams & Wilkins,.
	4. Harold Ellis. (20	002).Clinica	al Anatomy. Oxford:
	Blackwells,		
	5. Sadler, T W. (20	006). <i>Langn</i>	nan's Medical
	Embryology. Ph	iladelphia: l	Lippincott Williams &
	Wilkins,		
	6. Inderber Singh.	(2006).Text	book of Human Neuro
	Anatomy. New 1	Delhi: Jaype	ee,.
	Keith L Moore,	(2005). Clin	nically oriented
	anatomy. Philad	lelphia: Lipp	oincott Williams &
	Wilkins		

- 7. Richard L Drake. (2005). *Gray's anatomy for students*. Philadelphia: Churchill Livingstone
- 8. Green. S.P, Thiyagarajan. R, *Udatkooru*, Indian Medicine and Homeopathy Chennai
- Snell, Richard.S, Clinical Anatomy by regions,
 Baltimore, MD: wolters Kluwer/ Lippincott
 willams & wilkins

Subject Title	: Udalkootriyal- III (Anatomy III)
Subject Code	: UDK 2032
Year & Semester	: Professional II Semester III
Credits	: 02
Status	: Basic Stream (BS2)

- 1. To study about the Siddha principles of anatomy
- 2. To study about the Thorax, Abdomen and Pelvis

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Describe the Siddha principles of anatomy	Knowledge	1, 2
Describe the Thorax, Abdomen and Pelvis		
• Dissect and demonstrate the Thorax and	Skills	3, 4, 5, 8
Abdomen		
Perform the dissection	Attitude	9,10,11
Apply the theoretical knowledge with practical	Mindset	12

Content:

Part I - *Ankathipatham* III

- 1. The Koshangal
- 2. *Kazhivu neekka uruppukal* such as Kidney, bladder, urinary pathway, Skin, *Malavayasayam*.
- 3. Jeerana uruppukal (Digestive system and their accessory organs)

Part II

- 4. Thorax
 - 4.1. Surface landmarks of thorax, Thoracic cavity, Inlet, outlet of thorax
 - 4.2. Thoracic wall, Costal cartilages, Sternum, ribs, Thoracic vertebrae Osteology of joints
 - 4.3. Mediastinum and its contents.
 - 4.4. Pleura, Lungs and Blood supply
 - 4.5. Diaphragm

5. Abdomen & Pelvis

- 5.1. Osteology of Abdomen & Pelvis
- 5.2. Differentiation of the male & female pelvis
- 5.3. Anterior Abdominal wall and posterior abdominal wall
- 5.4. Abdominal cavity and peritoneum coverings
- 5.5. Abdominal viscera Abdominal part of esophagus & stomach, Duodenum, Small intestine, large intestine, Abdominal aorta & its branches, Portal vein, extra hepatic biliary apparatus, spleen, Pancreas, Supra renal gland, Kidney, Ureter.
- 5.6. Dissection of the thorax and abdomen

Methods of Teaching	Methods	Notional
and Learning:		Learning Hours
	1. Seminar	10
	2. LMS based learning	20

	3. Self-study using study guid	20		
	4. Case Study/Problem Based	10		
	5. Virtual/Real Group Discus	5. Virtual/Real Group Discussion		
	6. Resource based Learning	source based Learning		
	Total		100	
Methods of	Methods	Marks	Hours	
Assessments :	Formative Assessment:	20 %	01	
	Summative Assessment:	80 %	Theory – 03, Practical - 01	
Recommended	1. Chummy S Sinnatamb	y. (2006). <i>La</i>	st's Anatomy:	
Readings:	Regional and Applied.	Edinburgh: C	Churchill Livingstone.	
	2. Kanagasundaram,R. (1	980).A new a	pproach to dissection	
	of the human Body. Sin	ngapore: PG I	Publishing	
	3. Anne M R Agur, (2005)	5).Grant's atl	as of Anatomy.	
	Philadelphia: Lippinco	tt Williams &	wilkins,.	
	4. Harold Ellis. (2002). <i>C</i>	Harold Ellis. (2002). Clinical Anatomy. Oxford:		
	Blackwells,	Blackwells,		
	5. Sadler, T W. (2006). <i>L</i>	5. Sadler, T.W. (2006). Langman's Medical Embryolog		
	Philadelphia: Lippinco	tt Williams &	z Wilkins,	
	6. Inderber Singh. (2006)	.Text book of	Human Neuro	
	Anatomy. New Delhi: .	Jaypee,.		
	Keith L Moore, (2005)	. Clinically o	riented anatomy.	
	Philadelphia: Lippinco	tt Williams &	z Wilkins	
	7. Richard L Drake. (200	5).Gray's and	atomy for students.	
	Philadelphia: Churchil	l Livingstone		
	8. Green. S.P, Thiyagaraj	8. Green. S.P, Thiyagarajan. R, <i>Udatkooru</i> , Indian Medicine and Homeopathy Chennai		
	Medicine and Homeop			
	9. Snell, Richard.S, Clini	cal Anatomy	by regions,	
	Baltimore, MD: wolter	rs Kluwer/ Li _l	ppincott willams &	
	wilkins			

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	:	Udalkootriyal- IV (Anatomy IV)
Subject Code	:	UDK 2043
Year & Semester	:	Professional II Semester IV
Credits	:	03
Status	:	Basic Stream (BS2)

Aim:

- 1. To study about the Siddha principles of anatomy
- 2. To study about the Head and Neck

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
Describe the Siddha principles of anatomy	Knowledge	1, 2
Describe the Head and Neck		
Dissect and demonstrate the Head and Neck	Skills	3, 4, 5, 8
• Perform the dissection with the interaction of	Attitude	9,10,11
other colleagues		
Apply the theoretical knowledge with practical	Mindset	12

Content:

Part I - Ankathipatham IV.

- 1. Relationship between Aatharam with the Nadikal.
- 2. Anatomical locations of Aatharam
- 3. Locations and Structure of Ayul kalam urrupukal.

Part II

- 4. Scalp, Skull and cranial cavity
 - 4.1. The scalp, cavities and fossa in skull.
 - 4.2. Osteology of skull, facial bones and cervical vertebrae.
 - 4.3. The joints of skull
 - 4.4. Applied anatomy of skull and cervical vertebrae.
 - 4.5. Muscles of facial expression.
 - 4.6. Scalp, Skull and Cranial cavity

5. Head

- 5.1. The special senses
- 5.2. The blood vessels and nerves supply of head
- 5.3. Cranial nerves
- 5.4. Meninges and its importance.
- 5.5. Parotid region, styloid region, Intra temporal region and Mouth
- 5.6. Tongue, Pharynx and Larynx

6. Neck

6.1. Anatomy of neck

- 6.2. The Cervical plexus
- 6.3. Spinal cord and Motor & sensory tracts
- 6.4. Sympathetic trunk & ganglia.
- 7. Dissect and demonstrate the head and neck

Methods of Teaching and Learning:	Methods		Notional Learning Hours
	1. Seminar	10	
	2. LMS based learning	20	
	3. Self-study using study	15	
	4. Case Study/Problem Ba		10
	5. Virtual/Real Group Dis		10
	6. Resource based Learnin	ng	35
Methods of Assessments :	Total Methods	Marks	Hours
Methous of Assessments.	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory – 03, Practical - 01
Recommended Readings:	4 64 6 61	1 (2004)	
	1. Chummy S Sinnata	mby. (2006).	Last's Anatomy:
	Regional and Appli	<i>ed</i> . Edinburgh	n: Churchill
	Livingstone.		
	2. Kanagasundaram,R. (1980).A new approach to		
	dissection of the human Body. Singapore: PG		
	Publishing		
	3. Anne M R Agur, (2	2005). <i>Grant's</i>	atlas of Anatomy.
	Philadelphia: Lippincott Williams & Wilkins,.		
	4. Harold Ellis. (2002). Clinical Anatomy. Oxford:		
	Blackwells,		
	5. Sadler, T W. (2006). Langman's	Medical
	Embryology. Philac	lelphia: Lippi	ncott Williams &
	Wilkins,		
	6. Inderber Singh. (20	06).Text book	of Human Neuro
	Anatomy. New Delhi: Jaypee,.		
	Keith L Moore, (2005). Clinically oriented anatomy.		
	Philadelphia: Lippincott Williams & Wilkins		
	7. Richard L Drake. (2	2005). <i>Gray's</i>	anatomy for students.
	Philadelphia: Churd	chill Livingsto	one

8. Green. S.P, Thiyagarajan. R, <i>Udatkooru</i> , Indian
Medicine and Homeopathy Chennai
9. Snell, Richard.S, Clinical Anatomy by regions,
Baltimore, MD: wolters Kluwer/ Lippincott willams
& wilkins

Subject Title	:	Udalthathuvam & Uyirvediyal I - Physiology & Biochemistry I
Subject Code	:	UDT 1012
Year & Semester	:	Professional I Semester I
Credits	:	02
Status	:	Basic Stream (BS1)

To:

- 1. Understand the basic concepts of *Udal thaththuvam* in human body.
- 2. Understand the Uyirthathukkal and Sapthathaathukal.
- 3. Body fluid, Excitable tissue, Blood and Introduction of Biochemistry

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *udal* and its constituents

IL	Os	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
•	Gain through knowledge in the basic concepts of <i>Udal thaththuvam</i> and Uyirthathukkal and Sapthathaathukal, Body fluid, Excitable tissue, Blood and Introduction of Biochemistry	Knowledge	1, 2
•	Able to interpret the basic concepts of <i>Udal thaththuvam</i>	Skills	3, 4, 5, 8
•	Practise the intervention to the health problem based on the basic concepts of <i>Udal thaththuvam</i>	Attitude	9,10,11
•	Explore the knowledge in <i>Udal thaththuvam</i> towards Siddha system of medicine	Mindset	12

Content:

Part I - Udal thaththuvam

- 1. Thaththuva vithi
- 2. Detail studies on 96 *Thaththuvangal* (formation of body according to 96 philosophy)
 - 2.1 First thaththuvangal 30
 - 2.2 Second thathuvangal -30
 - 2.3 Third thathuvangal 36
 - 2.4 Different school thoughts of 96 ththuvagal
- 3. Detail study on *Uyir thathukkal Vatham, Piththam* and *Kabham*
 - 3.1 Vatham
 - 3.1.1 Other names
 - 3.1.2 Abode of *Vatham*
 - 3.1.3 Functions of *Vatham*
 - 3.1.4 Detail study on classification of *Vatham* (*Thasa vayu*)
 - 3.2 Piththam
 - 3.2.1 Other names
 - 3.2.2 Abode of *Piththam*

- 3.2.3 Functions of *Piththam*
- 3.2.4 Detail study on classification of *Piththam (Pancha piththam)*
- 3.3 Kabham
 - 3.3.1 Other names
 - 3.3.2 Abode of *Kabham*
 - 3.3.3 Functions of *Kabham*
 - 3.3.4 Detail study on classification of *Kabham (Pancha Kabham)*
- 4. Detail study on *Udal thathukkal* (somatic components of body)
 - 4.1 Saaram
 - 4.2 Senneer
 - 4.3 *Oon*
 - 4.4 Kozhuppu
 - 4.5 *Enbu*
 - 4.6 Moolai
 - 4.7 Vinthu (Sukkilam) / Naatham (Suronitham)
- 5. Relationship among Pancha bhoothamkal, uyir thathukkal, and Udal thathukkal
- 6. Suvasam (Respiration)
- 7. *Udal thee*
 - 7.1 Definition
 - 7.2 Status of *Udal thee* in healthy condition
- 8. Detail study on Saram and Pranayamam
- 9. Ayul Kaalam (Vayathalavu) (life span)
 - 9.1 Ayul Kaalam of human
 - 9.2 Ayul Kaalam related to the Panchabhootham
 - 9.3 Different thoughts of school on Ayul Kaalam

Part II - Physiology

- 10. Body fluid
 - 10.1 Composition and functions of body fluid
 - 10.2 Concepts of Homeostasis
 - 10.3 Mechanism of formation of tissue fluid
 - 10.4 Body water balance, its regulation and estimation
 - 10.5 Transport mechanisms across cell membrane
 - 10.6 Pathophysiology of body fluid
- 11. Excitable tissue
 - 11.1 Muscles
 - 11.1.1. Classification of muscular tissue
 - 11.1.2. Structure & properties of muscles tissue
 - 11.2. Nerves
 - 11.2.1. Mechanism of nerve function
 - 11.2.2. Resting membrane potentials
 - 11.2.3. Action potential
 - 11.2.4. Nerves muscular transmission

- 11.3. Neuro muscular function
 - 11.3.1. Synthesis, release, action and metabolism of acetylcholine
 - 11.3.2. Pathophysiology of Neuro muscular joints
- 12. Blood
- 12.1. Composition of blood
- 12.2. Volume of blood
- 12.3. Red blood cells- RBC
 - 12.3.1. Morphology of red blood cells, red blood count, Hemoglobin concentration, Haematocrit, red cell indices and their diagnostic value
 - 12.3.2. Genesis of RBC and Destruction of RBC
 - 12.3.3. Pathophysiology of RBC
 - 12.3.4. Perform the R.B.C Count
- 12.4. White blood cells- WBC
 - 12.4.1. Morphology and function of White blood cells
 - 12.4.2. Leukocytosis Reticulo endothelial system (RES)
 - 12.4.3. Pathophysiology of WBC
 - 12.4.4. Thrombocyte platelet cells Morphology & function
 - 12.4.5. Clinical important of WBC count
 - 12.4.6. Pathophysiology of Thrombocyte
- 13. Demonstrate the W.B.C Count examination
- 14. Demonstrate the procedures of Differential Count
- 15. Blood groups
- 16. Perform the Blood grouping examination
- 17. Principles of blood Transfusion
- 18. Pathophysiology of following conditions.
 - 18.1. Anaemia
 - 18.2. Jaundice
 - 18.3. Leukaemia
- 19. Demonstrate the procedures of calculation of Heamoglobin Percentag
- 20. Perform the procedures of ESR
- 21. Calculate the Bleeding time & clotting time

Part III - Biochemistry

- 22. Introduction of biochemistry
- 23. Biochemical basis of life and it's important in monitoring health.
- 24. Biochemical tests that assist in diagnosis and monitoring the disease.
- 25. Biochemical functions of each part of cell.
- 26. Similarities and dissimilarities between karyotic and eukaryotic cells.
- 27. Cellular transport- active passive and environment- ECF- ICF.
- 28. Water balance and unique properties of water.
- 29. Dissociation of weak acids.
- 30. Explain how hydrogen ion concentration is expressed as PH.
- 31. Explain how PH is determined.
- 32. Significance of buffering capacity and buffering range.
- 33. Main buffering system in the body.
- 34. Apply the principles of PH and buffer system in human.
- 35. Five elements concept.
- 36. Ancient chemistry / Rasavatham (Alchemy).

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based l	30	
	2. Self-study us	30	
		dy/Problem Bas	ed 10
	Learning		
		Group Discussion	10
	5. Resource bas	sed Learning	20
	Total		100
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80 %	Theory – 03,
	Assessment:	00 70	Practical - 01
Recommended Readings :			
		P.M. <i>Udal Thath</i> ine & Homoeopath;	wwam. Department of y, Chennai.
	2. Anaivaari R. Anandan. A Compedium of Siddha Doctrine, Department of Indian Medicine and Homoepathy, Chennai.		
	3. Kannan Rajaram, T. & Petrisittral rajaram, M.R. Varma points and stimulations methods on the basis of thread – measurement techniques in Varma Therapy (Practical Hand book for beginners in Varma therapy) Centre for Varma medicine & Research.		
	4. Uththamanarayanan K.S. <i>Siddha Maruthuvanga Churukkam</i> . Department of Indian Medicine and Homoepathy, Chennai.		
	5. Shanmugavelu, M. (1967). <i>Noi nadal noi mudal nadal thirattu</i> I. Department of Indian Medicine and Homoeopathy, Chennai.		
	6. Yugiamamunivar. (1998). Yugi vaiththiya sinthamani. Department of Indian Medicine & Homoeopathy. Chennai		
	7. Sembulingam, K. and Prema Sembulingam.(2004). Essentials of Medical Physiology. New Delhi: Jaypee Brothers.		
		(1976). An Intr Oxford: Oxford Univ	roduction to Human versity Press.
		Ganong. (2005). oston: McGraw Hil	Review of Medical

- 10. Arthur C Guyton and John E Hall. (2006). *Textbook of Medical Physiology*. Philadelphia: Saunders.
- 11. Green, J.H. (1978). *Basic Clinical Physiology*. Oxford: Oxford University Press.
- 12. Robert K Muray, Daryl K. Granner and Victor W Rodwell. (2009). *Harper's Illustrated Biochemistry*. Boston: Mc Graw Hill.
- 13. T. W Conway, A. A Spector and D Chapell. (1996). *Biochemistry-A Case Oriented Approach*. Montgomery: Mosby Publishers.
- 14. Delvin, T. M. (2010). *Text Book of Biochemistry with Clinical Correlations*. WileyEliss Publication.
- 15. Smith, C., Marks, A. and Lieberman, M. (2008). *Mark's Basic Medical Biochemistry: A Clinical Approach*. Philadelphia: Lippincott Williams & Wilkins.
- 16. Champe, P.C., Harvey, R. A. and Ferrier, D. R. (2007). Lippincott's Illustrated Reviews- Biochemistry. Philadelphia: Lippincott Williams & Wilkins.

Subject Title: Udalthathuvam & Uyirvediyal II - Physiology & Biochemistry IISubject Code: UDT 1022Year & Semester: Professional I Semester IICredits: 02Status: Basic Stream (BS1)

Aim:

To:

- 1. Understand the basic concepts of *Udal thaththuvam*
- 2. Get practical knowledge on the basic concepts of *Udal thaththuvam*

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *udal* and its constituents

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Gain through knowledge in the basic concepts of <i>Udal thaththuvam</i>	Knowledge	1, 2
• Able to interpret the basic concepts of <i>Udal</i> thaththuvam specially in <i>Thasanaadikal</i> , Atharangal, Yakkaiyin illakkanam	Skills	3, 4, 5, 8
• Practise the intervention to the health problem based on the basic concepts of <i>Udal thaththuvam</i>	Attitude	9,10,11
• Explore the knowledge in <i>Udal thaththuvam</i> towards Siddha system of medicine	Mindset	12

Content:

Part I

- 1. Detail study on Thasanaadikal
 - 1.1.Idakalai
 - 1.2. Pikali
 - 1.3. Sulimunai
 - 1.4. Kaanthaari
 - 1.5.Aththi
 - 1.6.Singuvai
 - 1.7.Alampurudan
 - 1.8. *Kuku*
 - 1.9.Sankini
 - 1.10. Vairavan
 - 1.11. Different thoughts of school on Thasanaadikal
- 2. Detail study of *Atharangal*
 - 2.1.Moolatharam
 - 2.2.Suvathittanam
 - 2.3.Manipooragam
 - 2.4.*Anaagatham*

- 2.5.Visuththi
- 2.6.Angnai
- 2.7. Atharangal in scientific aspect
- 3. Yakkaiyin illakkanam
 - 3.1.Vatha udal
 - 3.2.Piththa udal
 - 3.3.Kabha udal
 - 3.4.Thontha udal

Part II

- 4. Respiratory Physiology
 - 4.1. Mechanism of Breathing-Inspiration and Expiration
 - 4.2. Intra alveolar and intra- pleural pressure changes during respiratory cycle and Complains & its alteration in disease states
 - 4.3. Function of surfactant and consequence of its absence
 Alteration in lung volumes and measurement of lung volumes and capacities by
 spirometer
 - 4.4. Alveolar ventilation and its calculation
 - 4.5.Mechanism of diffusion of oxygen and carbon dioxide on the respiratory membrane Physiological significance of transport of oxygen and carbon dioxide and its pathophysiology.
 - 4.6.Regulations of respiration:
 - 4.7. Ventilator response in the following conditions
 - 4.8. Changes in acid base balance
 - 4.9.Oxygen loss
 - 4.10. Increase alveolar carbon dioxide tension in breath holding
 - 4.11. Respiratory adjustment in health
 - 4.12. Mechanisms of artificial respiration
 - 4.13. Pathophysiology of respiratory system and common diseases of respiratory system.
 - 4.14. Examination of respiratory system
- 5. Gastrointestinal Physiology
 - 5.1. Oral physiology and mechanism Oesophageal motility
 - 5.2. Functions, motility and pathophysiology of stomach
 - 5.3. Physiological mechanism of gastro intestinal tract.
 - 5.4. Functions and pathophysiology of Pancreas and Liver
 - 5.5. Functions and pathophysiology of Small intestine and Large intestine
 - 5.6.Common disorders of GIT

Part III - Biochemistry

- 6. Bio molecules
 - 6.1. Introduction and Biological medical importance of carbohydrates, Disaccharides, Monosaccharide and derivatives.

- 6.2.Identification of the Carbohydrate, Disaccherides, Homopolysaccharides and heteropolysaccharides.
- 6.3.Introduction of fats and its nature and distribution in body.
- 6.4. Structure of cholesterol and ionization of amino acid
- 6.5. Concept of simple and conjugated proteins.
- 6.6.Importance of electrophoresis in diagnosis.
- 6.7. Phospholipids and biological importance
- 6.8. Structure of cholesterol, its numbering and important product derived from cholesterol.
- 6.9.Biological importance, Chemical structure, ionization properties and amino acid of protein.
- 6.10. Myoglobin, hemoglobin, immunoglobin and plasma albumin.
- 6.11. Concept of simple and conjugated proteins
- 6.12. Importance of electrophoresis in diagnosis

Demonstrate the laboratory works

Isolation and qualitative estimation of free sugar Isolation of chromatography separation of sugar

Methods of Teaching	Methods		Notional Learning
and Learning:		Hours	
	1. LMS based learn	ning	30
	2. Self-study using	study guide	30
	3. Case Study/Prob	olem Based Learnin	g 10
	4. Virtual/Real Gro	oup Discussion	10
	5. Resource based	Learning	20
	Total		100
Methods of	Methods	Marks	Hours
Assessments :	Formative	20 %	01
	Assessment:		
	Summative	80 %	Theory - 03
	Assessment:	00 70	Practical - 01
Recommended		P.M. Udal Thathi	wam. Department of Indian
Readings :	~ -	Homoeopathy, Cher	<u>-</u>
	2. Anaivaari R.	Anandan. A Com	pedium of Siddha Doctrine,
	Department of	f Indian Medicine	and Homoepathy, Chennai.
	 Kannan Rajaram, T. & Petrisittral rajaram, M.R. Varma point and stimulations methods on the basis of thread measurement techniques in Varma Therapy (Practical Han book for beginners in Varma therapy) Centre for Varma medicine & Research. Uththamanarayanan K.S. Siddha Maruthuvanga Churukkan Department of Indian Medicine and Homoepathy, Chennai. 		

- 5. Shanmugavelu, M. (1967). *Noi nadal noi mudal nadal thirattu* I. Department of Indian Medicine and Homoeopathy, Chennai.
- 6. Yugiamamunivar. (1998). *Yugi vaiththiya sinthamani*. Department of Indian Medicine & Homoeopathy. Chennai
- 7. Sembulingam, K. and Prema Sembulingam.(2004). *Essentials of Medical Physiology*. New Delhi: Jaypee Brothers.
- 8. Green, J.H. (1976). *An Introduction to Human Physiology*. Oxford: Oxford University Press.
- 9. William, F Ganong. (2005). Review of Medical Physiology.Boston: McGraw Hill.
- 10. Arthur C Guyton and John E Hall. (2006). *Textbook of Medical Physiology*. Philadelphia: Saunders.
- 11. Green, J.H. (1978). *Basic Clinical Physiology*. Oxford: Oxford University Press.
- 12. Robert K Muray, Daryl K. Granner and Victor W Rodwell. (2009). *Harper's Illustrated Biochemistry*. Boston: Mc Graw Hill.
- 13. T. W Conway, A. A Spector and D Chapell. (1996). *Biochemistry-A Case Oriented Approach*. Montgomery: Mosby Publishers.
- 14. Delvin, T. M. (2010). *Text Book of Biochemistry with Clinical Correlations*. WileyEliss Publication.
- 15. Smith, C., Marks, A. and Lieberman, M. (2008). *Mark's Basic Medical Biochemistry: A Clinical Approach*. Philadelphia: Lippincott Williams & Wilkins.
- 16. Champe, P.C., Harvey, R. A. and Ferrier, D. R. (2007). *Lippincott's Illustrated Reviews- Biochemistry*. Philadelphia: Lippincott Williams & Wilkins.

Subject Title	: Udalthathuvam & Uyirvediyal III Physiology & Biochemistry III
Subject Code	: UDT 2033
Year & Semester	: Professional II Semester III
Credits	: 03
Status	: Basic Stream (BS2)

To:

- 1. Understand the basic concepts of *Tattvas*, *Nadikal* and *Ayul kaalam vellum urupugal*
- 2. Understand the functions of Cardio vascular system and Reproducive system

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *udal* and its constituents

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Gain through knowledge in the basic concepts of Udal thaththuvam, Nadikal and Ayul kaalam vellum urupugal,, functions of Cardio vascular system and Reproducive system	Knowledge	1, 2
Able to interpret the basic concepts of <i>Udal thaththuvam</i> , functions of Cardio vascular system and Reproducive system	Skills	3, 4, 5, 8
Practise the intervention to the health problem based on the basic concepts of <i>physiology</i>	Attitude	9,10,11
• Explore the knowledge in <i>physiology</i> towards Siddha system of medicine	Mindset	12

Content:

Part I

- 1. Tattvas, Nadikal and Ayul kaalam vellum urupugal
- 2. Functions of 96 Tattvas
- 3. Siddha concept of food, Nadikal and Ayul kaalam vellum urupugal

Part II

- 4. Cardiovascular System
 - 4.1. Introduction to cardiovascular physiology, Normal Electro Cardiogram, Sinus Arrhythmia, Cardiac cycle, Systole, Diastole and their duration, Heart sounds Origin & timing
 - 4.2. Pressure changes occurring in right atrium, left atrium, right ventricle, left ventricle, aorta & pulmonary artery during cardiac cycle
 - 4.3. Dynamics of blood flow Pressure, resistance, velocity and total cross sectional area of aorta, artery, arteriole, capillary, venule, vein & venacava
 - 4.4. Laminar & turbulent flow
 - 4.5. Pulse presence, diastolic blood pressure & mean pressure

- 4.6. Effects of gravity, age, emotion and exercise on blood pressure, methods of measuring blood pressure
- 4.7. The different pulse locations and reading
- 4.8. Factors affecting heart rate, diastolic volume and stroke volume
- 4.9. Equation of blood pressure cardiac output & peripheral resistance
- 4.10. Method of measurement of cardiac output
- 4.11. Examination method of Blood pressure
- 4.12. The cardiovascular mechanism
- 4.13. Local mechanism, Auto regulation, Systemic mechanism, Effect of sympathetic nervous system
- 4.14. Val salve maneuver and the clinical use
- 4.15. Coronary circulation in following aspects
 - 4.15.1. Blood flow changes in right and left coronary arteries during the cardiac cycle
 - 4.15.2. Chemical and neural factors affecting coronary blood flow
 - 4.15.3. Angina myocardial infarction
 - 4.15.4. Cerebral circulation
 - 4.15.5. Foetal circulation
- 4.16. Cardio vascular homeostasis.
 - 4.16.1. Effects of standing
 - 4.16.2. Postural hypertension
 - 4.16.3. Exercise
 - 4.16.4. Muscle blood flow its changes during exercise
 - 4.16.5. Circulatory changes during isometric and isotonic contraction of muscle
 - 4.16.6. Pathophysiology of cardiovascular homeostasis
 - 4.16.7. Shock
 - 4.16.8. Syncope
 - 4.16.9. Hypertension
 - 4.16.10. Cardiac failure
- 4.17. Examination of cardio vascular System

5. Energy metabolism

- 5.1. Basal metabolic rate
- 5.2. Energy balance
- 5.3. Obesity anorexia
- 5.4. Temperature regulation and variation

6. Reproductive physiology

- 6.1. The influence of fetal hormones on the gender of the foetus and its future behavior
- 6.2. True hermaphrodite and pseudo hermaphrodite
- 6.3. Adrenarche, puberty and adolescence
- 6.4. Ovarian maturation and menstrual circle
- 6.5. The hormones of the pituitary gland (FSH, LH and Prolactin) and ovary and their effects on changes at puberty endometrium, cervical mucosa and vaginal mucosa
- 6.6. Delayed and precocious puberty
- 6.7. Precursors of spermatogenesis and the conditions needed for it
- 6.8. The synthesis and actions of testosterone
- 6.9. Human sexuality and sexual intercourse
- 6.10. Fertilization and pregnancy
- 6.11. Neonatal physiology

Part III: Bio chemistry

- 7. Nucleic acid
 - 7.1. Introduction to nucleic acid, nucleosides, nucleotides and nucleotide derivative.
 - 7.2. Structure and role of DNA in genetic material, Denaturation , Renaturation and hybridization.
 - 7.3. DNA packaging in eukaryote and prokaryotes, Adjustment and DNA packaging during replication and Transcription.
 - 7.4. RNA acts as genetic material, Regulation and gene expression.
 - 7.5. DNA molecular basis of cancer.
 - 7.6. General properties of Enzymes, mechanism of enzymes action, factors affecting the enzyme and the catalyze reactions.
 - 7.7. Enzymes activators, inactivates and Enzymes inhibition.
 - 7.8. Iso- enzymes and protective enzymes.

8. Nutrition

- 8.1. Nutrition for infant, preschool, school going children, adolescent adult, pregnant, lactating mother and sports men.
- 8.2. Energy requirement and calculation.
- 8.3. Malnutrition
- 8.4. Food of plant and animal origin (Egg, meat, fish), Milk and milk products, Cereals and preservation of cereals, Legumes
- 8.5. Nutritive factors of Root, tubers and vegetables, Nuts, oil, fibers
- 8.6. Food and cancer.
- 8.7. Vitamin A, D, E, and K
- 8.8. Riboflavin, Nicotinic acid and pyredoxol phosphate, Folic acid and Vitamin B12.
- 8.9. Biotin pantothenic acid and Vitamin C.
- 8.10. Oxide reduction steps and mitochondria
- 8.11. Chemy osmotic hypothesis of oxide reduction and other uses of oxygen in the body.

9. Laboratory works

- 9.1. Isolation and Qualitative Extraction of soluble protein in plant tissue (seeds)
- 9.2. Electro phoretic separation of protein
- 9.3. Perform the Titration of amino acid
- 9.4. Estimation of serum protein
- 9.5. Isolation of Quantitative estimation of DNA and RNA
- 9.6. Extraction of DNA from human blood
- 9.7. DNA based technique in medical diagnostics
- 9.8. Gel Electro phoresis- Demonstration
- 9.9. Southern blotting demonstration

Methods of	Methods	Notional Learning
Teaching and		Hours
Learning:	1. LMS based learning	30
	2. Self-study using study guide	50
	3. Case Study/Problem Based Learning	15
	4. Virtual/Real Group Discussion	15
	5. Resource based Learning	40
	Total	150

Methods of	Methods	Marks	Hours			
Assessments :	Formative Assessment:	20 %	01			
	Summative Assessment:	80 %	Theory – 03, Practical - 01			
Recommended Readings :						
		 Anaivaari R. Anandan. A Compedium of Siddha Doctrine, Department of Indian Medicine and Homoepathy, Chennai. 				
		on the basis of herapy (Practical H	thread – measurement and book for beginners			
	4. Uththamanarayanan K Department of Indian N		_			
	5. Shanmugavelu, M. (19 Department of Indian N					
	6. Yugiamamunivar. (199 of Indian Medicine & F					
	7. Sembulingam, K. and <i>Medical Physiology</i> . No	•	•			
	8. Green, J.H. (1976). Oxford: Oxford Univer		o Human Physiology.			
	9. William, F Gano <i>Physiology</i> .Boston: Mc	_	Peview of Medical			
	10. Arthur C Guyton and J <i>Physiology</i> . Philadelph	` '). Textbook of Medical			
	11. Green, J.H. (1978). Bo University Press.	asic Clinical Physi	iology. Oxford: Oxford			
	12. Robert K Muray, Daryl Harper's Illustrated Bi					
	13. T. W Conway, A. A Sp A Case Oriented Appro	-	•			
	14. Delvin, T. M. (2010). **Correlations. WileyEl:		chemistry with Clinical			

- 15. Smith, C., Marks, A. and Lieberman, M. (2008). *Mark's Basic Medical Biochemistry: A Clinical Approach*. Philadelphia: Lippincott Williams & Wilkins.
 - 16. Champe, P.C., Harvey, R. A. and Ferrier, D. R. (2007). Lippincott's Illustrated Reviews- Biochemistry. Philadelphia: Lippincott Williams & Wilkins.

Subject Title	: Udalthathuvam & Uyirvediyal IV (Physiology & Biochemistry – IV)
Subject Code	: UDT 2043
Year & Semester	: Profession II Semester IV
Credits	: 03
Status	: Basic Stream (BS2)

To:

- 1. Understand the basic concepts of Kosam and fourteen impulses
- 2. Stud about the functions of endocrine system, renal system and nervous system

Intended Learning Outcomes:

At the end of this course students should be able to obtain the knowledge on *udal* and its constituents

ILC	ILOs		Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
•	Gain through knowledge in the basic concepts of <i>Kosam and fourteen</i> impulses and functions of endocrine system, renal system and nervous system	Knowledge	1, 2
•	Able to interpret the basic concepts of <i>Kosam</i> and fourteen impulses and functions of endocrine system, renal system and nervous system	Skills	3, 4, 5, 8
•	Practise the intervention to the health problem based on the basic concepts of <i>Kosam and fourteen</i> impulses and functions of endocrine system, renal system and nervous system	Attitude	9,10,11
•	Explore the knowledge in <i>Kosam and fourteen</i> impulses and functions of endocrine system, renal system and nervous system towards Siddha system of medicine	Mindset	12

Content:

Part I

- 1. *Kosam* and fourteen impulses
 - 1.1.Kazhivu neekam
 - 1.2. Fourteen Vaekam (urges)
 - 1.3. *Kosam*

Part II

- 2. Principles of dietics, vitamin and minerals
- 3. Endocrine system
 - 3.1. Anterior pituitary gland and its hormones
 - 3.2. Describe the posterior pituitary gland and its hormones
 - 3.3. Action and disordered physiology (Hypo secretion- myxedema, hyper secretion Thyrotoxicosis) of Thyroid.
 - 3.4. Physiology of Adrenal gland and Disordered adrenal function
- 4. Pancreas and its activity
 - 4.1. Factors regulating insulin secretion

- 4.2. Effects of the following endocrine disorders on blood glucose
- 4.3. Diabetes mellitus
- 4.4. Insulinoma
- 4.5. Cushing's syndrome
- 4.6. The use of G.T.T in the study of normal and pathological metabolism
- 4.7. Major sign and symptoms in patients with absolute insulin deficiency regulation of blood glucose
- 4.8. Regulation of blood glucose
- 5. Parathormone
 - 5.1. Hyper parathyroidism
 - 5.2. Rickets and osteomalacia
- 6. Renal Physiology
 - 6.1. Auto regulation of renal blood flow
 - 6.2. Glomerular capillary pressure and the factors affecting it.
 - 6.3. Glomerular filtration
 - 6.3.1. Adaptation of the glomerulus as a filter
 - 6.3.2. The concepts of clearance
 - 6.3.3. Measurement of glomerular filtration rate using insulin clearance
 - 6.3.4. Creatinine clearance, its advantage & disadvantage
 - 6.3.5. Factors affecting the permeability of glomerular membrane
 - 6.3.6. Factors affecting the Glomerular filtration rate
 - 6.3.7. Composition of glomerular filtrate
 - 6.3.8. Filtration function
 - 6.4. Proximal tubular function
 - 6.5. Mechanism of Concentration and dilution of urine
 - 6.6. Distal tubular function
 - 6.7. Regulation of excretion
 - 6.8. Regulation of hydrogen excretion
 - 6.9. Regulation of sodium excretion
 - 6.10. Regulation of potassium excretion
 - 6.11. Regulation of acid base balance with renal tubular acidosis
 - 6.12. Uncompensated and compensated respiratory acidosis and respiratory alkalosis
 - 6.13. Uncompensated and compensated metabolic acidosis and metabolic alkalosis
 - 6.14. Role of kidney in regulation of blood pressure
 - 6.15. Disordered renal function
 - 6.16. Acute renal failure
 - 6.17. Chronic renal failure
- 7. Neurophysiology and special senses
 - 7.1. Special senses
 - 7.2. Chemical transmission in the nervous system
 - 7.3. Functional anatomy synapse and of a convergence and divergence
 - 7.4. Excitatory post synaptic potential and inhibitory post synaptic potential
 - 7.5. Chemical transmitters
 - 7.6. Sensory system Sensory organs, sensory receptors and sensory modalities

 Touch proprioception and discrimination

- 7.7. Motor system Stretch reflex, Withdrawal reflex, Poly synaption reflexes and mass reflex
- 7.8. Pyramidal system
- 7.9. Spinal cord Ascending and descending tracts of the spinal cord

Neurological manifestation of spinal cord disorders

Complete section at various local and spinal shocks

- 7.10. In syringomyelia, Tabes dorsalis, pernicious anemia, Spinal cord compression
- 7.11. Physiological function of the hypothalamus
- 7.12. Reticular activating system & sleep
- 8. Laboratory work of Renal Physiology & Neurophysiology
 - 8.1. Nervous system examination
 - 8.1.1. Examination of motor system
 - 8.1.2. Examination of sensory system
 - 8.1.3. Examination of vision
 - 8.1.4. Examination of hearing
 - 8.2. Renal function
 - 8.2.1. Urine full report
 - 8.2.2. Urine culture
 - 8.2.3. Diuresis

Part III - Bio chemistry

- 9. Metabolism
 - 9.1. Introduction of metabolism.
 - 9.2. Glycolysis and its regulation, Gluconeogenesis, alcohol metabolism and lactic acidosis.
 - 9.3. Measurement of blood glucose tolerance test and abnormal glucose tolerance curves.
 - 9.4. Glycogen storage diseases.
 - 9.5. Blood lipids, Metabolism and transport of lipids.
 - 9.6. Role of liver and adipose tissue in lipid metabolism
 - 9.7. Metabolism and homeostasis of cholesterol
 - 9.8. Concept of protein and its Significance.
 - 9.9. Metabolism of ammonia, amino acid metabolism
 - 9.10. Concept of positive and negative nitrogen balance.
 - 9.11. Molecular disease
 - 9.12. Biosynthesis of purines and pyrimidine and Purine salvage path
 - 9.13. Hyper uricamia and secondary causes
 - 9.14. Regulation of denovo synthesis of purines and Purine catabolism
 - 9.15. Tools in molecular medicine
 - 9.16. Cloning, stem cells and gene therapy
 - 9.17. Genetically engineered insulin, blotting technique and DNA finger printing and application.
- 10. Micro elements and Digestion
 - 10.1. Position and human body micro and macro elements
 - 10.2. Iron and iron deficiency anemia
 - 10.3. Iodine, Thyroid hormone and test for its function

- 10.4. Calcium, zinc, Copper, Chromium, Fluorine, Selenium, Manganese and Magnesium.
- 10.5. Gastric digestion and control of gastric secretion
- 10.6. Intestine digestion, hormonal control, bile
- 10.7. Carbohydrate, Protein, lipid Digestion and absorption

11. Laboratory work

- 11.1. Solubility test, Benedict test, Barfoed's test for
 - 11.1.1. Glucose
 - 11.1.2. Lactose
 - 11.1.3. Fructose
 - 11.1.4. Sucrose
 - 11.1.5. Starch
- 11.2. Benedicts test for different concentration of glucose
 - 11.2.1. 1% concentration
 - 11.2.2. ½% concentration
 - 11.2.3. 1/4% concentration
 - 11.2.4. 1/8% concentration
 - 11.2.5. 1/16% concentration
- 11.3. Iodine test
- 11.4. Seliwan off's test
 - 11.4.1. Fructose
 - 11.4.2. Glucose
- 11.5. Quantitative estimation of protein in absolution
- 11.6. Ammonium sulphate test
- 11.7. Sulpho salicylic test

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based l	earning	30
	2. Self-study us	sing study guide	50
	3. Case Stud	dy/Problem Bas	sed 20
	Learning	•	
	4. Virtual/Real	Group Discussion	20
	5. Resource bas	sed Learning	30
	Total		150
Methods of Assessments :	Methods Marks Hou		Hours
	Formative	20 %	01
	Assessment:		
	Summative	80 %	Theory - 03,
	Assessment:		Practical - 01
Recommended Readings :	1. Venu gopal, P.M. Udal Thathuvam. De		-
	Indian Medicine & Homoeopathy,		hy, Chennai.
	2 Angiyagri R	Anandan A C	ompedium of Siddha
			*
		Department of In	ndian Medicine and
	Homoepathy, Chennai.		
	3. Kannan Rajaram, T. & Petrisittral rajaram, M.R		
	_		methods on the basis of ues in Varma Therapy

- (Practical Hand book for beginners in Varma therapy) Centre for Varma medicine & Research.
- 4. Uththamanarayanan K.S. *Siddha Maruthuvanga Churukkam*. Department of Indian Medicine and Homoepathy, Chennai.
- 5. Shanmugavelu, M. (1967). *Noi nadal noi mudal nadal thirattu* I. Department of Indian Medicine and Homoeopathy, Chennai.
- 6. Yugiamamunivar. (1998). *Yugi vaiththiya sinthamani*. Department of Indian Medicine & Homoeopathy. Chennai.
- 7. Journals related to the above titles

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	: Addangayogam – I (Yoga -I)	
Subject Code	: ADY 1012	
Year & Semester	: Professional I Semester I	
Credits	: 02	
Status	: Basic Stream (BS1)	

Aim:

1. To study about Addanga yogam with respect to the mental and physical health.

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Understand about the principles, benefits and	Knowledge	1, 2
therapeutic applications of AddangaYogam		
Perform and practice the Pranayamam	Skills	3, 4, 5, 8
Understand the benefits of Pranayamam	Attitude	9,10,11
Realize the importance of AddangaYogam with	Mindset	12
health		

Content:

- 1. Yogam and spirituality
 - 1.1. History and Excellence of Thirumoolar
 - 1.2. Thirumoolar Thriumanthram-Thanthiram III
 - 1.3. Introduction to Addanga Yogam
 - 1.4. Introduction to yogam
 - 1.5. History of Yogam
 - 1.6. Different schools of thought of Yogam
 - 1.7. Principles and philosophy of Siddhar Yogam
 - 1.8. Yogam practice in daily life
- 2. Principles of yogam as Kayakatpam
 - 2.1.Yoga katpam
 - 2.2. Yogam for disease prevention, healing, health promotion and quality of life
 - 2.3. Scientific application Yogakatpam
- 3. Types of Yogam
 - 3.1. Different Schools of thoughts of Yogam
- 4. Detail study of Addanga yogam
 - 4.1. Thirumoolar Thirumanthiram
 - 4.1.1. Know about Thirumanthiram
 - 4.1.2. Learn about Thirumanthiram
 - 4.1.2.1. Iyamam (Code of conduct)-
 - 4.1.2.1.1. Principles of Iyamam
 - 4.1.2.1.2. Practice of Iyamam

- 4.1.2.1.3. Benefits of Iyamam
- 4.1.2.1.4. Therapeutic application of Iyamam
- 4.1.2.1.5. Physiological and bio- chemical changes while observing Iyamam
- 4.1.2.2. Niyamam (Code of Ethics)
 - 4.1.2.2.1. Principles of Niyamam
 - 4.1.2.2.2. Practice of Niyamam
 - 4.1.2.2.3. Benefits of Niyamam
 - 4.1.2.2.4. Therapeutic application of Niyamam
 - 4.1.2.2.5. Physiological and bio- chemical changes while observing Niyamam
- 4.1.2.3. Pranayamam (Aerobic exercise)-
 - 4.1.2.3.1. Definition –Types
 - 4.1.2.3.2. General rules while observing Pranayamam
 - 4.1.2.3.3. Principles of Pranayamam
 - 4.1.2.3.4. Practice of Pranayamam
 - 4.1.2.3.5. Types of Pranayamam
 - 4.1.2.3.6. Therapeutic application of Pranayamam
 - 4.1.2.3.7. Physiological and bio- chemical changes while doing Pranayamam
 - 4.1.2.3.8. Contraindication of Pranayamam
 - 4.1.2.3.9. Dietary regimen
- 5. The Scientific validity of Yogam
 - 5.1. A balance between strength, flexibility and relaxation
 - 5.2. Nerve tensioning and stimulation of nerve reflexes
 - 5.3. Co-activation of opposing muscle groups around joint complex in Yogam
 - 5.4. Principle of stretching in Yogam
 - 5.5. Principle of strengthening in Yogam
 - 5.6. Principle of relaxation in Yogam

Methods of Teaching and Learning:	Methods		Notional Learning Hours	
	1. LMS based learn	ning	15	
	2. Self-study using	study guide	45	
	3. Case Study/Prob	olem Based Learnin	g 15	
	4. Resource based	Learning	25	
	Total		100	
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			
	Summative	80 %	Theory and practical	
	Assessment:		-03 and 01	
Recommended Readings :				
	1. Thiyagarajar	n, R. Siddha m	aruththuvam sirappu,	
	Indiya	maruththuvam	homiyopathi	
	thurai,arump	thurai, arumpakkam, Chennai.		

Yoki rajah.A, Rajamanikam, *Yogakkalai*, Palaniyappa brothers, Chennai
 Ponmaran, *Thinamum Yoga*, Adone publishing Group, Tiruvananthapuram.
 Prakasan.V.K, *Yoga*, Vevekanatha kenthira prakashan trust, Chennai.
 Prahlada reddy, *Yoga for you*, Thomson press, India

Subject Title	: Addangayogam – II (Yoga -II)	
Subject Code	: ADY 1022	
Year & Semester	: Professional I Semester II	
Credits	: 02	
Status	: Basic Stream (BS1)	
1		

1. To study about Addanga yogam with respect to the mental and physical health.

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

	1 -: -:	I
ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Understand about the principles, benefits and	Knowledge	1, 2
therapeutic applications of AddangaYogam		
Perform and practice the Sooriya Namaskara and	Skills	3, 4, 5, 8
other important Asanams		
Understand the benefits of Sooriya Namaskara	Attitude	9,10,11
and other important Asanams		
Realize the importance of AddangaYogam with	Mindset	12
health		

Content:

- 1. Asanam (Posture)
 - 1.1. Principles and practice of Asanam
 - 1.2. Therapeutic application of Asanam
 - 1.3. Contra-indication in Asanam
 - 1.4. Dietary regimen Types of Asanam.
- 2. Prathiyakharam (Controll of senses)
 - 2.1. Principles of Prathiyakharam
 - 2.2. Practice of Prathiyakharam
 - 2.3. Therapeutic application of Prathiyakharam
- 3. Dharanai (Practice of concentration of the mind)
 - 3.1. Principles of Dharanai
 - 3.2. Practice of Dharanai
 - 3.3. Therapeutic application of Dharanai
- 4. Dhiyanam (Meditation)
 - 4.1. Principles of Dhiyanam
 - 4.2. Practice of Dhiyanam
 - 4.3. Types of Dhiyanam
 - 4.4. Therapeutic application of Dhiyanam
 - 4.5. Physiological and bio- chemical changes while doing Dhiyanam
 - 4.6. Contraindication of Dhiyanam

- 5. Samaathi (Rest or super consciousness)
 - 5.1. Principles of Samaathi
 - 5.2. Practice of Samaathi
 - 5.3. Therapeutic application of Samaathi
- 6. Knowledge & Practical skill on Important Asanams, their techniques/methods and benefits:
 - 6.1 Relaxation techniques
 - 6.2 Sooriya Namaskaram
 - 6.3Asanams
 - 6.3.1. Padmasanam
 - 6.3.2. Pathirasanam
 - 6.3.3. Pasumugaasanam (Komugasanam)
 - 6.3.4. Mayilasanam (Mayurasanam)
 - 6.3.5. Singasanam
 - 6.3.6. Veerasanam
 - 6.3.7. Sithasanam
 - 6.3.8. Utkattasanam
 - 6.3.9. Padhahasthasanam
 - 6.3.10. Marasanam
 - 6.3.11.Natrajasanam
 - 6.3.12. Veerapathirasanam
 - 6.3.13. Parchuvakonasanam
 - 6.3.14. Thirikonasanam
 - 6.3.15. Patchimothasanam
 - 6.3.16. Sugasanam
 - 6.3.17. Pavanamukthasanam-
 - 6.3.18. Garudasanam –
 - 6.3.19. Vajrasanam –
 - 6.3.20.Chakkarasanam-
 - 6.3.21. Villasanam (dhanurasanam)
 - 6.3.22. Vittilasanam (salabasanam)
 - 6.3.23. Pambu asanam (bujangasanam)
 - 6.3.24. Sarvangasanam
 - 6.3.25.Kukkudasanam
 - 6.3.26.Thandasanam
 - 6.3.27. Parvadhasanam
 - 6.3.28.Savasanam
 - 6.3.29. Thalai asanam (sirasasanam)
 - 6.3.30. Egapadhasanam
 - 6.4. Santhira Namaskaram
- 7. Yoga Pedagogy
 - 7.1 Four skill
 - 7.1.1. Information skills,
 - 7.1.2. Learning and innovation skills,
 - 7.1.3. Communication skills,
 - 7.1.4. Life and career skills of all learners in the basic education program.
 - 7.2 Five approaches (2C-2I-1R).
 - 7.2.1. Constructive
 - 7.2.2. Collaborative

7.2.3. Integrative 7.2.4. Reflective 7.2.5. Inquiry Based Learning **Methods of Teaching and Methods** Notional Learning: **Learning Hours** 1. LMS based learning 15 2. Self-study using study guide 40 3. Case Study/Problem Based Learning 15 4. Resource based Learning 30 **Total** 100 **Methods of Assessments:** Methods Marks **Hours** 20 % Formative 01 Assessment: Theory and practical Summative 80 % -03 and 01 Assessment: **Recommended Readings:** 1. Thiyagarajan, R. Siththa maruththuvam sirappu, maruththuvam homiyopathi Indiya thurai, arumpakkam, Chennai. 2. Yoki rajah.A, Rajamanikam, Yogakkalai, Palaniyappa brothers, Chennai 3. Ponmaran, *Thinamum Yoga*, Adone publishing Group, Tiruvananthapuram. 4. Prakasan.V.K, Yoga, Vevekanatha kenthira prakashan

trust, Chennai.

5. Prahlada reddy, Yoga for you, Thomson press, India

Subject Title	:	Research Methodology
Subject Code	:	RMS 2032
Year & Semester	:	Professional II Semester III
Credits	:	02
Status	:	Basic Stream (BS 2)

To:

1. At the end of the sessions, the student should be able to explain research and research strategies and its development

Intended Learning Outcomes:

At the end of this course students should be able to know Research Methodology in brief

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Define research, central tendency and Clinical trial	Knowledge	1, 2
Describe the theoretical aspect of hypothesis research proposal	Skills	3, 4, 5, 8
• Explain about the designing questionnaire and Ethics	Attitude	9,10,11
• Explain about the importance of variable , sampling	Mindset	12

Content:

- 1. Define and classify the research
- 2. Describe the research strategies
- 3. Differentiate the Quantitative and Qualitative research
- 4. Study about the research problem
- 5. Explain the research process
- 6. Define the term Hypothesis
- 7. List out the important characteristics of hypothesis
- 8. Explain about three forms of hypothesis
- 9. Describe the theoretical aspect of hypothesis
- 10. Formulate hypothesis of operationalizing variables
- 11. Define and study about objectives
- 12. List out and elaborate the methods of data collection
- 13. Explain about the designing questionnaire

- 14. Describe about the Literature review
- 15. Define variable
- 16. Explain about the importance of variable
- 17. List out the classification of variables
- 18. Explain about indicators
- 19. Measure the central tendency relative positions and dispersion
- 20. Differentiate and describe the descriptive statistics and inferential statistics
- 21. Describe the correlation and regression quantitative of qualitative variables and data analysis exercises
- 22. Explain about Estimation of population parameters
- 23. Describe and estimate the significance difference between two groups
- 24. Explain about the sampling in following aspects:
 - 24.1. Study population and study unit
 - 24.2. Sample
 - 24.3. Sampling method
 - 24.4. Basic sampling
 - 24.5. Sampling error
 - 24.6. Sample size
 - 24.7. Validity and reliability
- 25. Research proposal
 - 25.1. Prepare and write a research proposal
 - 25.2. Formulate the research design
 - 25.3. Write a research report
- 26. Ethics: Explain about the Ethics in following aspects:
 - 26.1. Doctor and ethics
 - 26.2. Ethics in research
 - 26.3. Basic consideration
 - 26.4. Ethical committee
- 27. Clinical trial
 - 27.1. Detailed out the process of clinical trial in research
 - 27.2. Ethical issue of the clinical trial for approval of research
 - 27.3. Study and control groups
 - 27.4. Assignment of patient in groups for comparison.
 - 27.5. Intervention

Assessment of the outcome of research

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based learn	10	
	2. Self-study using	10	
	3. Case Study/Prob	olem Based Learnin	10
	4. Resource based	Learning	10
	5. Presentation		20
	6. Quiz		20
	7. Assignment		20
	Total		100
Methods of Assessments :	Methods	Marks	Notional Learning Hours
	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory 02
Recommended Readings :	Biostatistics 2. Antonisamy Tata Mcgra Delhi,2010 3. Sivagnanasu medical st	and Research Meth B,Biostatistics, Prawhiil EducationP	inciples and Practices, rivate Limited, New g Research-A guide to doctors and related

Subject Title	:	English for communication - I
Subject Code	:	ENG 1012
Year & Semester	:	Professional I Semester I
Credits	:	02
Status	:	Basic Stream (BS1)

To build listening and speaking skills through the pronunciation of phonemes and reading short passages and to develop the ability to comprehend passages and to develop grammatically error free writing through learning grammar. The course addresses the four skills namely Listening, Speaking, Reading and Writing.

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Read the phonetic transcriptions in dictionaries. read articles and reports on common topics, comprehend passages on various subjects, develop the skills of comprehension and speed reading, and develop a sound knowledge in basic grammar for error free writing.	Knowledge	1, 2
Pronounce the 44 phonemes with accuracy and pronounce words with clarity and accuracy	Skills	3, 4, 5, 8
Practice the pronunciation with the interaction of	Attitude	9,10,11
their colleague		
Understand the importance of pronunciation	Mindset	12

Content:

- 1. Listening & Speaking
 - 1.1. The nature of English Pronunciation
 - 1.2. The Speech sounds of English
 - 1.3.Learn English Vowels: monophthongs
 - 1.4.Learn English Vowels: Diphthongs
 - 1.5.Learn English Consonants
- 2. Reading
 - 2.1.Comprehension passages will be given. At first students ought to read them silently. Then the facilitator reads the same passage aloud and each student is to repeat the style and pronunciation of the facilitator in reading it aloud in the class. Facilitator has to correct their pronunciation. The comprehension exercises at the end will help the student to comprehend the passage. Here the facilitator acts only as a monitor, thereby the rest of the passages given in the book have to be read independently by the student which will go into the notional hours. The entire exercises have to be addressed by the student and submitted as a part of their Continuous Assessment.
- 3. Writing
 - 3.1.Parts of Speech
 - 3.2.Parts of Sentence
 - 3.2.1. Subject and Predicate
 - 3.2.2. Complement

- 3.2.3. Negative Sentence
- 3.2.4. Framing Questions
 - 3.2.4.1. Questions with answers 'yes' or 'no'
 - 3.2.4.2.Information Questions
 - 3.2.4.3. Alternative Questions
 - 3.2.4.4.Question Tags
- 3.2.5. Phrase
 - 3.2.5.1.Prepositional Phrases
 - 3.2.5.2.Appositives
 - 3.2.5.3.Infinitives and infinitive phrases
 - 3.2.5.4. Participles and Participle phrases
 - 3.2.5.5.Gerund and gerund phrases
 - 3.2.5.6. Absolute phrases
- 3.2.6. Clauses
 - 3.2.6.1.Main Clause
 - 3.2.6.2.Sub-ordinate Clause
 - 3.2.6.3. Adjective Clause
 - 3.2.6.4. Adverb Clause
 - 3.2.6.5. Noun Clause
- 3.2.7. Kinds of Sentences
 - 3.2.7.1.Sentence Structures
 - 3.2.7.2.Sentence Purposes
- 3.2.8. Sentence Pattern

Methods of Teaching and Learning:	Methods		Notional Learning Hours
	LMS based learn	30	
	2. Self-study using		30
	3. Case Study/Prob	ng 20	
	4. Resource based	20	
	Total	100	
Methods of Assessments :	Methods	Marks	Hours
	Formative	20%	01
	Assessment:		
	Summative	80%	02
	Assessment:		
Recommended Readings :	1. The Department will come out with its own text book		
	for Listening	g, Speaking, Readi	ing and Writing Skills.
	The book is proposed to be accompanied with a		
	Compact Disc, so as to make this book an ideal Self-Learning Material (SLM). 2. Savarimuttu, J. S. Rohan and G. Petricia Alphine		
	Nirmala. English Grammar & Usage: An Ideal		
	Companion for Advanced Learners. Chennai: New		
	Century Boo	ok House, 2016	

- 3. Alderson, J. C. Reading in a Foreign Language. London: Longman, 1984.
- 4. Thomson, A. J. and A. V. Martinet. A Practical English Grammar. New Delhi: OUP, 2002
- 5. Narrayanaswamy, K. R. Success with Grammar and Composition. New Delhi: Orient Longman, 1994.
- 6. Nesfield, J. C. English Grammar Composition & Usage. Chennai: Macmillan, 2011 print
- 7. Pillai, G. Radhakrishna. Emerald English Grammar & Composition. Chennai: Emerald Publishers, 2008 print.
- 8. Krishnamurthy, C. N. and Ashwini Raman. Advanced Grammar and Composition. Chennai: New Century Book House. 2010.
- 9. Alderson, J. C. Assessing Reading. Cambridge: Cambridge University Press, 2000.
- 10. Dudley-Evans, T. & St John, M. J. Developments in ESP: a Multidisciplinary Approach. Cambridge: Cambridge University Press, 1998.
- 11. Urquhart, A. H., & Weir, C. J. Reading in a Second Language: Process, Product, and Practice. London and New York: Longman, 1998.

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	: English for communicati	on- II
Subject Code	: ENG 1022	
Year & Semester	: Professional I Semester I	I
Credits	: 02	
Status	: Basic Stream (BS1)	

Aim:

1. To develop Listening, Speaking, Reading and Writing skills.

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Plural/possessive/third person etc. Word accent, stress change, Read Poetry, Read Short-story, Nuances of grammar with regard to tense forms etc	Knowledge	1, 2
Pronounce past tense and Pronounce words syllable-wise	Skills	3, 4, 5, 8
• Practice the pronunciation and develop Listening, Speaking, Reading and Writing skills with the interaction of their colleague	Attitude	9,10,11
Understand the importance of pronunciation	Mindset	12

Content:

- 1. Listening & Speaking
 - 1.1.The different phonological realizations of plural/possessive/third person singular marker and past tense marker in connected speech.
 - 1.2. Pronounce words syllable-wise
 - 1.3.Word Accent
 - 1.4.Stress change

2. Reading

The facilitator ought to facilitate the reading of poetry/short story aloud followed by students imitating the facilitator, mistakes have to be corrected. Each poem and short story has to be explained so that the target audience understand and enjoy it.

- 2.1.Poetry
- 2.2. Daffodils William Wordsworth
- 2.3. When We Two Parted George Gordon Byron
- 2.4. The Road Not Taken Robert Frost
- 2.5.Break, Break, Break Alfred Tennyson
- 2.6.Stopping by the Woods on a Snowy Evening Robert Frost
- 2.7.Short Story
- 2.8. The Selfish Giant Oscar Wild
- 2.9.An Astrologer's Day R. K. Narayan
- 2.10. How much land does a man need? Leo Tolstoy
- 2.11. The Ant and the Grasshopper W. Somerset Maugham
- 2.12. The Dying Detective Sir Arthur Conan Doyle

3. Writing

- 3.1. Verb
 - 3.1.1. Auxiliary Verbs or Auxiliaries
 - 3.1.2. Modals or Modal Auxiliaries
 - 3.1.3. Participle
 - 3.1.4. Use of the Participle
 - 3.1.5. Gerund
 - 3.1.6. Phrasal Verbs
 - 3.1.7. Tense
 - 3.1.8. Tense in conditional sentences
- 3.2. Preposition
- 3.3. Conjunction
 - 3.3.1. Coordinating Conjunctions
 - 3.3.2. Correlative Conjunctions
 - 3.3.3. Subordinating Conjunctions
- 3.4. Concord
- 3.5. Active and Passive Voices
- 3.6. Direct and Indirect Narration

Methods of Teaching and	Methods Notional					
Learning:		Learning Hours				
	1. LMS based learn	ning	30			
	2. Self-study using	study guide	30			
	3. Case Study/Prob	olem Based Learnin	g 20			
	4. Resource based	Learning	20			
	Total		100			
Methods of Assessments :	Methods	Marks	Hours			
	Formative	20%	01			
	Assessment:					
	<u> </u>	000/	0.2			
	Summative	80%	02			
	Assessment:					
Recommended Readings :	1. The Departn	with its own text book				
	for Listening, Speaking, Reading and Writing Skills.					
	The book is proposed to be accompanied with a					
	Compact Disc, so as to make this book an ideal Self-					
	_	nterial (SLM).				
		, , , ,	G. Petricia Alphine			
			& Usage: An Ideal			
	Companion for Advanced Learners. Chennai: New					
	Century Book House, 2016					
	3. Alderson, J. C. Reading in a Foreign Language.					
	London: Longman, 1984.					
	4. Thomson, A. J. and A. V. Martinet. A Practical English					
			· ·			
	Grannilai. N	Grammar. New Delhi: OUP, 2002				

- 5. Narrayanaswamy, K. R. Success with Grammar and Composition. New Delhi: Orient Longman, 1994.
- 6. Nesfield, J. C. English Grammar Composition & Usage. Chennai: Macmillan, 2011 print
- 7. Pillai, G. Radhakrishna. Emerald English Grammar & Composition. Chennai: Emerald Publishers, 2008 print.
- 8. Krishnamurthy, C. N. and Ashwini Raman. Advanced Grammar and Composition. Chennai: New Century Book House. 2010.
- 9. Alderson, J. C. Assessing Reading. Cambridge: Cambridge University Press, 2000.
- 10. Dudley-Evans, T. & St John, M. J. Developments in ESP: a Multidisciplinary Approach. Cambridge: Cambridge University Press, 1998.
- 11. Urquhart, A. H., & Weir, C. J. Reading in a Second Language: Process, Product, and Practice. London and New York: Longman, 1998.

Subject Title	:	Tamil – I
Subject Code	:	TAM 1011
Year & Semester	:	Professional I Semester I
Credits	:	01
Status	:	Basic Stream (BS1)

- 1. To introduce Tamil alphabets and words
- 2. To study simple sentence structure in Tamil

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Recognizing Tamil alphabets	Knowledge	1, 2
Constructing simple words in Tamil		
• Pronounce the Tamil alphabets and read the	Skills	3, 4, 5, 8
simple words in Tamil		
• Practice the pronunciation with the interaction of	Attitude	9,10,11
their colleague		
• Understand the pronunciation and recognize the	Mindset	12
letters		

- 1. The subject contents of this Module have been designed for non-native Tamil speaking undergraduates who are following their BSMS
- 2. Introducing alphabets (Vowels and consonants in Tamil)
- 3. Constructing simple words (names of things used in home, relationship, etc)
- 4. Introducing noun and verbs
- 5. Simple sentence making and sentence pattern in Tamil

Methods of Teaching and	Methods	Notional			
Learning:					
	1. LMS based lear	ning	15		
	2. Self-study using	study guide	15		
	3. Case Study/Prol	olem Based Learning	10		
	4. Resource based	4. Resource based Learning			
	Total		50		
Methods of Assessments :	Methods	Marks	Hours		
	Formative	20%	01		
	Assessment:				
	Summative 80%		01		
	Assessment:				
Recommended Readings :	1. Noohmaan.M.A. 1999, Adippadaith Tamil Ilakkanam,				
	Vasakar Sar	Vasakar Sangam, Kalmunai, Sri Lanka			

2. Noohmaan.M.A. 1999, Thodarpadal mozhi
Naveenaththathuvamm, Ministry of HIndu Religious
and culturals Affairs, COlombo.
3. Sanmukathas, A, 1982, Tamil Mozhi ilakka iyalbukal,
Jaffna: Muththamil veliyeettu kazhakam.

Subject Title	: Sinhala – I	
Subject Code	: SIN 1011	
Year & Semester	: Professional I Semester I	
Credits	: 01	
Status	: Basic Stream (BS1)	

- 1. Identify the importance and benefits of learning Sinhala as the Second Language.
- 2. Obtain a basic knowledge in the communication aspects of Sinhala language for native Tamil speaker students.
- 3. Communicate in Sinhala languages with native speakers who are patients, families, health- care team and society effectively.
- 4. Apply vocabulary skills in relevant field.
- 5. Apply reading and listening skills in the Second Languages.
- 6. Collect necessary vocabulary for their day-to-day professional life.
- 7. Recognize the Sinhala Language structure, Cultural aspects and social functions of Language in the human societies and be able to use appropriately.

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Study about the basic Sinhala	Knowledge	1, 2
 Communicate with the native speakers with mutual understandings in relevant matters. Apply the language skills sufficiently in listening, speaking, reading and writing in their professional context with patients, families, health- care team and society. 	Skills	3, 4, 5, 8
Counsel medical advices safely and effectively to patients who present for the treatment.	Attitude	9,10,11
Show a familiarity with various aspects of Sinhala culture, literature, cinema and social functions.	Mindset	12

Content:

Subject contents:

The subject contents of this Module have been designed for non-native Sinhala speaking undergraduates who are following their BSMS

1. Structure of Sinhala Language as a second Language

- 2. Alphabetic letters
- 3. Phonetics
- 4. Morphemes
- 5. Class
- 6. Gender
- 7. Countable and Uncountable
- 8. Person
- 9. Noun
- 10. Pronoun
- 11. Verb
- 12. Adjective

12. Aujective					
Methods of Teaching and	Methods		Notional		
Learning:			Learning Hours		
	1. LMS based learn	ning		15	
	2. Self-study using	study guide		15	
	3. Case Study/Prob	lem Based Learn	ing	10	
	4. Resource based	Learning		10	
	Total			50	
Methods of Assessments :	Methods	Marks	Ho	ours	
	Formative	20%		01	
	Assessment:				
	Summative	80%		01	
	Assessment:				
Recommended Readings :	1. Prof. W. S. Ka	runatilaka, "An	Intro	duction to Spoken	
	Sinhala", M.D Gunasena & Company, Colombo.				
	2. Prof. S. J Yogarajah, "Spoken Sinhala", Department of				
	Official Languages, Colombo.				
	3. Prof. S. J Yogarajah, "Practice in Sinhala Writing", Unie				
	Arts (Pvt) Ltd., Colombo.				
	4. "Basic Sinhala", Department of Official Languages,				
	Colombo.				
	5. "Sarala Sinhala (Simple Sinhala)", Department of Official				
	Languages, Colombo.				

Subject Title	:	Tamil – II
Subject Code	:	TAM 1021
Year & Semester	:	Professional I Semester II
Credits	:	01
Status	•	Basic Stream (BS1)

- 1. To improve reading and writing skill in Tamil
- 2. To practice in oral communication

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Recognizing the Tamil words and Reading small sentences in Tamil	Knowledge	1, 2
 Pronounce the Tamil alphabets and read the simple words in Tamil Developing oral communication 	Skills	3, 4, 5, 8
• Communicate in Tamil with the interaction of their colleague	Attitude	9,10,11
• Understand the meaning of Tamil words and improve their communication	Mindset	12

Content

The subject contents of this Module have been designed for non-native Tamil speaking undergraduates who are following their BSMS

- 1. Grammar
- 2. Reading small passages
- 3. Listening and comprehension
- 4. Introducing Tamil words used in Siddha Medicine (technical terms)

Methods of Teaching and	Methods	Notional	
Learning:		Learning Hours	
	1. LMS based learn	15	
	2. Self-study using	study guide	15
	3. Case Study/Prob	olem Based Learning	10
	4. Resource based	10	
	Total	50	
Methods of Assessments :	Methods	Marks	Hours
	Formative	01	
	Assessment:		
	Stream assessment		

	Summative Assessment: Professional		80%	01
	assessment			
Recommended Readings :	1. Noohmaan.M.A. 1999, Adipp			laith Tamil Ilakkanam,
		Vasakar San	gam, Kalmunai, Sr	i Lanka
	2.	Noohmaan.M	M.A. 1999, Thodarp	oadal mozhi
		Naveenathth	athuvamm, Ministr	y of HIndu Religious
		and culturals	Affairs, Colombo.	
	3. Sanmukatha		s. A, 1982, Tamil N	Iozhi ilakka iyalbukal,
		Jaffna: Muth	thamil veliyeettu k	azhakam.

Subject Title	: Sinhala — II	
Subject Code	: SIN 1021	
Year & Semester	: Professional I Semester II	
Credits	: 01	
Status	: Basic Stream (BS1)	

- 1. Identify the importance and benefits of learning Sinhala as the Second Language.
- 2. Obtain a basic knowledge in the communication aspects of Sinhala language for native Tamil speaker students.
- 3. Communicate in Sinhala languages with native speakers who are patients, families, health- care team and society effectively.
- 4. Apply vocabulary skills in relevant field.
- 5. Apply reading and listening skills in the Second Languages.
- 6. Collect necessary vocabulary for their day-to-day professional life.
- 7. Recognize the Sinhala Language structure, Cultural aspects and social functions of Language in the human societies and be able to use appropriately.

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Study about the basic Sinhala	Knowledge	1, 2
 Communicate with the native speakers with mutual understandings in relevant matters. Apply the language skills sufficiently in listening, speaking, reading and writing in their professional context with patients, families, health- care team and society. 	Skills	3, 4, 5, 8
Counsel medical advices safely and effectively to patients who present for the treatment.	Attitude	9,10,11
Show a familiarity with various aspects of Sinhala culture, literature, cinema and social functions.	Mindset	12

Content:

The subject contents of this Module have been designed for non-native Sinhala speaking undergraduates who are following their BSMS

- 1. Adverb
- 2. Preposition
- 3. Conjunction
- 4. Interjection

- 5. Question form
- 6. Negative form
- 7. Tense
- 8. Cases
- 9. Phrase
- 10. Sentence
- 11. Terminology
- 12. Discourse
- 13. Prescribed texts

13. Prescribed texts			
Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	LMS based learn	ning	15
	2. Self-study using	study guide	15
	3. Case Study/Prob	olem Based Learning	g 10
	4. Resource based	Learning	10
	Total		50
Methods of Assessments :	Methods	Marks	Hours
	Formative	20%	01
	Assessment:		
	Summative	80%	01
	Assessment:		
D 11D 11	1 D C W C W	.'1 1 (/ A T	. 1
Recommended Readings:	1. Prof. W. S. Ka	irunatilaka, "An In	troduction to Spoken
	Sinhala", M.D Gunasena & Company, Colombo.		
	2. Prof. S. J Yogarajah, "Spoken Sinhala", Department of		
	Official Languages, Colombo.		
	3. Prof. S. J Yogai	rajah, "Practice in S	inhala Writing", Unie
	Arts (Pvt) Ltd., (Colombo.	_
	4. "Basic Sinhala", Department of Official Language		
	Colombo.		
	5. "Sarala Sinhala (Simple Sinhala)", Department of Officia		Department of Official
	Languages, Colombo.		

Subject Title	:Information Technology - I	
Subject Code	: INT 2032	
Year & Semester	: Professional II Semester III	
Credits	: 02	
Status	: Basic Stream (BS 2)	

Aim:

To:

- 1. To provide an introduction to Information Technology (IT)
- 2. Facilitate the students to realize the basic technology concepts and trends used in the current and future developments of information technology.

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Describe the basic concept of computer hardware,	Knowledge	1,2
software, LMS, networking, Internet, and security		
Comprehend the capabilities and limitations of computers and technology	Skills	3,4,5,8
Current updates	Attitude	9,10,11
• Usage of computer software whenever nessasary	Mindset	12

- 1. **Basics of Information Technology (IT)** Information technology Definition, Information technology for business, Basic concepts of IT, Technological Trends in IT, Application of IT
- 2. **Introduction to Computers** The computer Defined, Characteristics of a computer, Limitation of Computers, Generation computers, Classification Computers, Application/Uses of Computers in different field, The parts of a computer System, Basic functional units of a system, Memory classification, secondary memory and other storages
- 3. **Data, Information and Data representation** Data, Information and knowledge, Distinguish between data and Information, Meaning of Information, types of information, Attributes of Information, Storage unit and Binary coding scheme Number Systems and gates Decimal, Binary, Octal, Hexadecimal, Converting Techniques in Number systems, Basic Gates (NOT, AND & OR)
- 4. **Computer Hardware** The system Unit, port, CPU, Computer Memory, input devices, output devices.

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based learn	20	
	2. Self-study using study guide		20
	3. Lecture, Cla		and 20
	demonstration b	•	
		olem Based Learnin	<u> </u>
	5. Resource based	Learning	30
	Total		100
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	C	90.0/	Th
	Summative Assessment:	80 %	Theory and practical 01 and 01
	Assessment.		Of allu of
Recommended Readings :			
	1. Introduction	To Computers (2017), by Darrell W
	Hajek and Cesar Herrera, CreateSpace Independent		
	Publishing Platform, ISBN 978-1545236468		
	2. Fundamentals of Computers(6 th Revised edition, 2014)		
	by Rajaraman V., and Adabala N., Prentice Hall India		·
		vate Limited, ISBN	
			echnology (2 nd Edition,
	2013) by V. Rajaraman, PHI Learning Pvt. Ltd., ISBN		earning Pvt. Ltd., ISBN
	978-81-203-	4731-1	
	4. Introduction	to Computers (7 th	Edition, 2010) by Peter
	Norton, 7	Tata McGraw-H	ill Edition, ISBN
	9780070671	201	

Subject Title	: Information Technology - II	
Subject Code	: INT 2042	
Year & Semester	: Professional II Semester IV	
Credits	: 02	
Status	: Basic Stream (BS 2)	

Aim:

To:

- 1. To provide an introduction and application of Computer Software (IT)
- 2. Facilitate the students Learning Management Systems.

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Describe the basic concept of computer hardware,	Knowledge	1,2
software, LMS, networking, Internet, and security		
Access the network and internet	Skills	3,4,5,8
Current updates	Attitude	9,10,11
• Learn via LMS	Mindset	12

- 1. Computer Software System software, Application software, Firmware
- 2. **Computer networks, Internet and Its Uses** Evolution of Networks, the uses of a network, Types of networks, Advantages of Networks, Components of Networks, The Internet, Intranet and Extranet, Transmission media, History of Internet, Uses of Internet, Advantages of Internet, what is web?, Web browsers, Web servers, Hypertext Transfer Protocol, Computer Virus, Antivirus, Cloud System, E-mail, Search engine, Searching internet.
- 3. **Introduction to Learning Management Systems (LMS)** Definition of LMS, The Evolution of the LMS, Platforms for learning, Basic components of an LMS, The advantages of an LMS

Methods of Teaching and Learning:	Methods	Notional Learning Hours	s	
2001	LMS based learn	20		
	2. Self-study using	study guide	20	
	3. Lecture, Cla demonstration b	and 20		
	4. Case Study/Prob	ing 10		
	5. Resource based	30		
	Total	100		
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			

	Summative Assessment:	80 %	Theory and practical - 01 and 01
Recommended Readings :	Hajek and Ce Publishing Pla 2. Fundamental Rajaraman Learning Priv 3. Introduction t by V. Rajarat 203-4731-1 4. Introduction	atform, ISBN 978-13 s of Computers(6 th FV., and Adabala Novate Limited, ISBN 9 to Information Techniman, PHI Learning	Independent 545236468 Revised edition, 2014) by N., Prentice Hall India

Subject Title	: Gunapadam- I <i>Moolikaieyal</i> (Siddha Pharmacology – I Herbs)
Subject Code	: GNA 1013
Year & Semester	: Professional I Semester I
Credits	: 03
Status	: Basic Stream (BS1)

Aim:

To:

- 1. Providing the student with fundamental knowledge of *Gunapadam* along with Panchabootha concept.
- 2. Knowing Medicinal plants based on Siddha and scientific basis.
- 3. Development of Skill for identification of Medicinal plants.

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Describe the fundamental of Gunapadam along with Panchabootha concept.	Knowledge	1, 2
Classify the plant sample according to the taxonomical characters.	Skills	3, 4, 5, 8
Prepare the stipulated standard herbarium sheets	Attitude	9,10,11
• Realize the fundamental concept of <i>Gunapadam</i> with scientific knowledge	Mindset	12

Content:

Part I

- 1. Concept of Porutpanpiyal and its important
- 2. Panchabootha theory
- 3. Saptha padhartham
- 4. Gunam and its classification
- 5. Concept of organoleptic characters and its division
- 6. Medicinal plants in Gunapadam aspect and medicinal botany aspect (A to L family)
 - 6.1. Gunapadam aspect:
 - Tamil name
 - Other name
 - Vernacular name
 - Gunam (general character)
 - Payanpadumpakam (Part use)
 - Organoleptic character
 - Pharmacological action
 - Simple remedies (vazhakku)
 - Prepared medicine.

Part II

- 6.2 Medicinal botany aspect:
 - Natural order
 - Botanical name
 - Botanical description
 - Habit
 - Habitat
 - Chemical composition
 - Pharmacological action
 - Medicinal uses.

7. Pharmacognosy

Methods of Teaching and	Methods		Notional
Learning:			Learning Hours
	1. Seminar		15
	2. LMS based learn	ning	30
	3. Self-study using	study guide	50
	4. Case Study/Prob	lem Based Learnin	g 10
	5. Virtual/Real Gro	oup Discussion	20
	6. Resource based	Learning	10
	7. Projects/ Field R	eports	15
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20%	01
	Assessment		
	Summative	80%	Theory 03, Practical
	Assessment		01
Recommended Readings :	1 3/ 1	1. 1. IX (2006)	3 6 7 1 1 7 7
	1. Murukesamuti	naliyar, K.(2006),	Materia medica(porut
	panpu nool)-	part-01. Chennai	:Indian Medicine and
	Homeopathy		
	2. Subramaniya	Pandit,Shri.(2009	9), Pathartha guna
	cintamani,Che	ennai: Indian Medic	cine and Homeopathy
	3. Jayaweera,M.	A (2006), Medicia	nal plants used in
	Ceylon,Colom	nbo: National scien	ce foundation, SL.
	4. Nadkarani, k	K.M. (2010), Ind	ian Materia Medica.
	Chennai:India	n Medicine and Ho	omeopathy
	5. Arya vaidya	a sala, (2007),	Indian Medicinal
	plants,Chenna	i: A compendium o	of 500 species.
	1 ,	1	1

Subject Title	:	Gunapadam - II Moolikaieyal (Siddha Pharmacology - II -
		Herbs)
Subject Code	:	GNA:1023
Year & Semester	:	Professional I Semester II
Credits	:	03
Status	:	Basic Stream (BS1)

To:

- 1. Providing the fundamental knowledge of *Kayakalpa moolikaikal* and its important, compound drug, Toxic plants, plant product for treatment basis, non-flowering plants, Adulteration of medicinal plant raw materials.
- 2. Knowing Medicinal plants based on siddha and scientific basis.
- 3. Development of Skill for identification of Medicinal plants.

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
 Describe the Concept of Kayakalpa moolikaikal and its important, compound drug, Toxic plants, plant product for treatment basis, non-flowering plants, Adulteration of medicinal plant raw materials. Describe the medicinal plants in both Gunapadam aspect and medicinal botany aspect 	Knowledge	1, 2
• Classify the plant sample according to the taxonomical characters.	Skills	3, 4, 5, 8
• Prepare the stipulated standard herbarium sheets	Attitude	9,10,11
• Understand the concept of <i>Kayakalpa moolikaikal</i> and its important with scientific knowledge	Mindset	12

Content:

Part I

- 1. Concept of Kayakalpamoolikaikal and its important
- 2. Compound drug
- 3. Toxic plants
- 4. Plant product for treatment basis
- 5. Non-flowering plants
- 6. Adulteration of medicinal plant raw materials.
- 7. Medicinal plants in *Gunapadam* aspect and medicinal botany aspect (M to Z family) 7.1. Gunapadam aspect:
 - Tamil name
 - Other name
 - Vernacular name
 - Gunam (general character)
 - Payanpadumpakam (Part use)

- Organoleptic character
- Pharmacological action
- Simple remedies (vazhakku)
- Prepared medicine.

Part II

- 7.2 Medicinal botany aspect:
 - Natural order
 - Botanical name
 - Botanical description
 - Habit
 - Habitat
 - Chemical composition
 - Pharmacological action
 - Medicinal uses.

• Medicinal uses			Notional
Methods of Teaching and Learning:	Methods	Notional Learning Hours	
Learning .	1. Seminar		15
	LMS based learn	nina	30
	3. Self-study using	•	50
		lem Based Learnin	
	4. Case Study/Prob5. Virtual/Real Gro		20
	6. Resource based	<u> </u>	10
	7. Projects/ Field R		15
	Total	eports	150
Methods of Assessments :	Methods	Marks	Hours
rections of Assessments.	Formative	20%	01
	Assessment	2070	
	Summative	80%	Theory 03, Practical
	Assessment		01
Recommended Readings :	1. Murukesan	nuthaliyar, K.(2006)	, Materia medica(porut
	panpu noo	l)- part-01. Chenn	ai:Indian Medicine and
	Homeopath	ny	
	2. Subramani	ya Pandit,Shri.(20	09), Pathartha guna
	cintamani,0	Chennai: Indian Med	icine and Homeopathy
	3. Jayaweera,	M.A (2006), Medic	cinal plants used in
	Ceylon,Col	ombo: National scie	nce foundation, SL.
	4. Nadkarani,	K.M. (2010), In	ndian Materia Medica.
	Chennai:In	dian Medicine and H	Iomeopathy.
	5. Arya vai	dya sala, (2007	7), Indian Medicinal
	plants,Cher	nnai: A compendium	of 500 species.

Subject Title	: Gunapadam-III – Thathu Jeeva Vakuppu (Siddha Pharmacology- III - Metal, Minerals, and Animal
	kingdom)
Subject Code	: GNA 2033
Year & Semester	: Profession II Semester III
Credits	: 03
Status	: Basic Stream (BS2)

To:

- 1. Obtain the knowledge on definition and classification of thathujeevavarkkam
- 2. Detail description of Metals, Panchasootham and Pasanam

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Gain through knowledge in the basic concepts of Siddha Adippadai Thaththuvamum and maruthuvavaralaru	Knowledge	1, 2
• Able to interpret the Siddha Adippadai Thaththuvamum	Skills	3, 4, 5, 8
• Establish the basic concepts of Siddha Adippadai Thaththuvamum	Attitude	9,10,11
• Explore the knowledge in <i>Adippadai Thaththuvamum</i> towards Siddha system of medicine	Mindset	12

Content:

Part I - Siddha Pharmacology

- 1. Metal
 - 1.1. Definition and classification
 - 1.2. Detail description of Ayavangam, Ehu, Karuvangam, Kantham, Chembu, Nagam, Thangam, Velli, Mandooram, Velvangam, Pithalai, Venkalam, Thara
- 2. Panchasootham
 - 2.1. Definition and classification and its detail description
- 3. Pashanam
 - 3.1. Definition and classification

- 3.2. Detail description of *Sootham*, *Saveeram*, *Sathilingam*, *Miruththarsingi*, anthagam, *Thazhagam*, *Thutham*, *Anjanakkal*, *Vellaipashanam*, *SanguPashanam*, *GowriPashanam*, *Manosilai*, *Apiragam*, *Eli Pashanam*
- 3.3. Special classification of *Pashanam*
- 4. The above Metals, *Panchasootham* and *Phasanamgal* should be taught under the following headings
 - 4.1. Introduction
 - 4.2. Science name
 - 4.3. Other name
 - 4.4. General Character
 - 4.5. Action
 - 4.6. Medicinal Uses
 - 4.7. Important drug formulas from the relevant crude drugs
 - 4.8. Purification of crude drugs

Part II - Pharmacology

- 5. General Pharmacology
 - 5.1. Introduction
 - 5.2. Absorption of drugs
 - 5.3. Routes of drug administration
 - 5.4. Distribution of drugs
 - 5.5. Biotransformation of drugs
 - 5.6. Excretion of drugs
 - 5.7. Mechanisms of drug action
 - 5.8. Factors modifying drug effects
 - 5.9. Drug toxicity
 - 5.10. Methods of prolonging drug action
 - 5.11. Drug assays

Methods of Teaching and	Methods		Notional
Learning:			Learning Hours
	1. Seminar		15
	2. LMS based learning		30
	3. Self-study using study g	uide	50
	4. Virtual/Real Group Disc	cussion	20
	5. Resource based Learnin	g	35
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory 03,
			Practical 01
Recommended Readings:	1. Murukesamuthaliya	r, K.(2006	6), Materia medica
	(Thaathujeevavahuppu)- part-01. Chennai:Indian		
	Medicine and Homeopathy		

- Subramaniya Pandit,Shri.(2009),
 Patharthagunacintamani, Chennai: Indian Medicine and Homeopathy

 Kannusamipillai,S.(1941), Patharththagunavizhakkam (Thathujeevavarkkam). Chennai:
 B.Iraththinanayakar& Sons

 B.N Bennett, and M.J.Brown. (2008). Clinical
 - 4. B.N Bennett, and M.J.Brown. (2008). *Clinical Pharmacology*. Edinburgh: Churchill Livingstone.
 - 5. B.G.Katzung, M. J. (2011). *Basic and Clinical Pharmacology*. London: Churchil Livingstone.

Subject Title	: Gunapadam-IV – Thathu Jeeva Vakuppu
	(Siddha Pharmacology- IV - Metal, Minerals, and Animal
	kingdom)
Subject Code	: GNA 2044
Year & Semester	: Profession II Semester IV
Credits	: 04
Status	: Basic Stream (BS2)

Aim:

To:

1. To obtain the knowledge on *Karasaram* (Salts), *Uparasam* (Minerals - Natural Substances), Medicinal raw materials from the animal products and *Navamanikal* (Gems)

Intended Learning Outcomes:

At the end of this course students should be able to:

IL	ILOs		Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
•	Classify and describe the <i>Thathujeevavarkkam</i> i.e: Salts (<i>Karasaram</i>), Gems (<i>Navamanigal</i>), Minerals (Natural Substances) – <i>Uparasam</i> and Medicinal raw materials from the animal products	Knowledge	1, 2
•	Identify the samples of Salts (<i>Karasaram</i>), Gems (<i>Navamanigal</i>), Minerals (Natural Substances) – <i>Uparasam</i> and Medicinal raw materials from the animal products based on their morphology and physicochemical properties Identify & Perform the Purification of the <i>Kaarasharam</i> and <i>Uparasam</i> with different Methods Perform the purification of medicinal raw	Skills	3, 4, 5, 8
	materials from animal products and <i>Navamanikal</i> Develop the skill in purifying metals & minerals	Attitude	9,10,11
•	Understand the differentiation among Salts (Karasaram), Gems (Navamanigal) and Minerals (Natural Substances) – Uparasam	Mindset	12

Content:

Part I - Siddha Pharmacology

- 1. Karasaram
 - 1.1.Definition, classification,

1.2. Detail study of —Soodan, Kalluppu, Kariuppu, Sakthisharam, Inthuppu, Seenakaram, Navauppumezhugu, Navachcharam, Pachchikarpooram, Pooneeru, Vazhayalluppu, Amber, Venkaram, Vediyuppu

2. Uparasam

- 2.1. Definition, classification,
- 2.2. Detail study of Annapethy, Apragam, Karpoorasilasathu, Kalnar, Katsunnam, Kadikaram, Kavikkal, Koumoothirasilasathu, Thurusu, Nandukal, Nimilai, Palthutham
- 3. Medicinal raw material from the animal products
 - 3.1.Detail study of *Uparasangal*, *Kasthuri*, *Kandamiruga kombu*, *Kizhlingal*, *Kombarakku*, *Korosanai*, *Sirungi*, *Naththai*, Honey, *Palakarai*, *Muthuchippi*, *Mezhugu*, *Punugu*, *Nandukkal*, *Amaiyoodu*
- 4. Navamanikal- Nine gems
 - 4.1. Classification, grouping,
 - 4.2. Detail study of Muththu, Pavazham, Vairam, Mannikam, Neelamani, Putpardagam, Maragatham, Vaidoriyam, Kometthakam
- 5. Identification & Perform the Purification of the following
 - 5.1. Kaarasharam and Uparasam with different Methods
 - 5.2. Perform the purification of medicinal raw materials from animal products and *Navamanikal*

Part II - Pharmacology

- 6. Systemic Pharmacology
- 7. Drugs acting on,
 - 7.1. CNS
 - 7.2. Kidney
 - 7.3. GIT
 - 7.4. Uterus
 - 7.5. Eye
 - 7.6. Respiratory system
 - 7.7. CVS
 - 7.8. Blood and blood forming organs

Methods of Teaching and	Methods	Notional
Learning:		Learning Hours
	1. Seminar	25
	2. LMS based learning	30

	3. Self-study using study	y guide	70
	4. Virtual/Real Group Discussion		30
	5. Resource based Learn	ning	45
	Total		200
Methods of Assessments :	Methods	Marks	Hours
	Formative Assessment:	20 %	01
	Summative Assessment:	80 %	Theory 03,
			Practical 01
Recommended Readings:	1. Murukesamuthaliya	r, K.(200	5), Materia medica
	(Thaathujeevavahup	ppu)- part	t-01. Chennai:Indian
	Medicine and Home	opathy	
	2. Subramaniya		Pandit,Shri.(2009),
	Patharthagunacinta	mani, Chei	nnai: Indian Medicine
	and Homeopathy		
	3. Kannusamipillai,S.(1941), <i>Path</i>	arththagunavizhakkam
	(Thathujeevavarkka	m).	Chennai:
	B.Iraththinanayakar	& Sons	
	4. B.N Bennett, and	l M.J.Brov	wn. (2008). <i>Clinical</i>
	Pharmacology. Edin	ıburgh: Chu	rchill Livingstone.
	5. B.G.Katzung, M.	J. (2011).	Basic and Clinical
	Pharmacology. Lon	don: Church	nil Livingstone.

Subject Title	: Gunapadam -V Marunthu seymuraieyal
	(Siddha Pharmacology – V Pharmaceutical sciences)
Subject Code	: GNA 3054
Year & Semester	: Profession III Semester V
Credits	: 04
Status	: Applied Stream (AS)
A •	

Aim:

To:

1. Obtain the knowledge on Pharmaceutical procedures / operations, *Aka Marunthu* (Internal Medicines), Pharmaceutical appliances and Drug preparation.

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
 Describe about the Pharmaceutical procedures / operations and pharmacy management List out and describe the <i>Aka Marunthu</i> (Internal Medicines) Explain about the Pharmaceutical appliances and 	Knowledge	1, 2
Drug preparationHandle the Pharmaceutical appliances properly	Skills	3, 4, 5, 8
 Prepare the Siddha drugs properly Prepare the Siddha drugs correctly with the interest and interaction of other colleagues 	Attitude	9,10,11
Understand the correct techniques of the drug preparation methods and handling of Pharmaceutical appliances.	Mindset	12

Content:

Part I - Siddha Pharmacology

- 1. Karuvikal (Appliances)
 - 1.1. Avi Yanthiram, Thola Yanthiram, Thuba Yanthiram, Mezhugu thailakaruvi, Kuzhi Thailakaruvi, Kupi puda Thailakaruvi, Valuka Yanthiram, Pukai Aduppu, Uoothu Yanthiram, Thiravaga Yanthiram, Madakku valai Yanthiram, Valai Yanthiram, Sudar Thailakaruvi, Senthuram edukum Karuvi and Pathanka Karuvi
- 2. List out the duties & responsibilities of
 - 2.1. Medical officer
 - 2.2.Pharmacy in charge,
 - 2.3.Pharmacist
 - 2.4. Supporting staff
 - 2.5.Detailed out the Register and records used in pharmacy management, Identify the Utensils used in pharmacy.

3. Aka Marunthu

- 3.1. Define "Marunthu" (Drug),
- 3.2. Classify of *Marunthu* according to Siddha concept, List out the Shelf life of *Aka marunthu*,
- 3.3. Classify of drug according to consistency, Solid preparation, Semi solid, Liquid preparation,
- 3.4. Elaborate the Storage of drugs and pharmaceuticals,
- 3.5. Explain the Weight and measures imperial & metric system.
- 3.6. Outline the Anupanam and paththiyapathiyam,
- 3.7. Compare the interaction of drug with *Anupanam and paththiyapathiyam*.

4. Internal medicines (Akamarunthu)

Surasam (Boiled juice), Chaaru (juice), Kudineer (Decoction), Katkam (Herbal paste), Utkazhi (Pan cake), Adai (Toast), Chooranam (Powder), Pittu (Baked powder), Vadakam (Tablet), Vennai (Medicated butter), Manappahu (Syrup), Ney (Medicated ghee), Rasayanam (Medicated confectionary), Lekeyam (Electuary), Thylum (Medicated oil), Mathirai (Pills).

Kaduku- (Deep fried granules), Pakkuvam (Maceration), Thenooral(Preserve), Theeneer (Distillate), Mezhugu(Waxy paste), Kuzhampu(Viscous liquid), Pathankam(Sublimates), Chendooram(Red inorganic), Neeru/Parpam(Ash/calx), Kaddu (Bonded inorganic), Urukku, Kazhanku, Chunnam, Katpam(Elixir), Chaththum, and Gurukuliga.

- 4.1. The above drugs should be described under the following headings:
 - 4.1.1. Formula and method of preparation, Shelf life of medicine, Action, Dose and indication, Toxicity and contraindication (If any)
- 5. Preparation of drugs (Minimum 20 drugs should be done in practical demonstration)

 Part II Pharmacology

Experimental Pharmacology

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
	1. Class Room Lec	ctures	40
	2. Seminar		25
	3. Self-study using	study guide	60
	4. Virtual/Real Gro	oup Discussion	30
	5. Resource based	45	
	Total		200
Methods of Assessments :	Methods Marks		Hours
	Formative	20 %	01
	Assessment:		
	Summative	80%	Theory 03
	Assessment:		Practical 01
Recommended Readings :	1. Kuppusamy Mudaliar, K.N, Uttamarayan, C.S., Siddha Vaidya Thirattu, Department of Indian Medicine and Homoeopathy, Chennai – 600 106		

- 2. Uttamarayan, C.S, *Pharmacopoeia of Hospital of Indian Medicine*, Tamil Nadu Siddha medical Board.
- 3. Anaivaari R. Anandan, *ruf;F Rj;jp nra;Kiwfs*,Department of Indian Medicine and Homoeopathy, Chennai 600 106
- 4. Deva Asorvathem Swamikal. *Marunthu Sei Iyalum Kalayum*, Department of Indian Medicine and Homoeopathy, Chennai 600 106

Subject Title	: Gunapadam -VI Marunthu seymuraieyal
	(Siddha Pharmacology – VI Pharmaceutical sciences)
Subject Code	: GNA 3064
Year & Semester	: Profession III Semester VI
Credits	: 04
Status	: Applied Stream (AS)
Aim:	

To:

1. Obtain the knowledge on pharmacy, quality control and pura marunthukal (External Medicines)

Intended Learning Outcomes:

At the end of this course students should be able to:

ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
• Describe about the acts on establishment of Pharmacy and structure of Pharmacy	Knowledge	1, 2
 Describe the quality control and its important 		
• List out and explain about the <i>Pura marunthukal</i>		
(External Medicines)		
Handle the Pharmaceutical appliances properly		
Prepare the Siddha drugs properly	Skills	3, 4, 5, 8
Prepare the Siddha drugs correctly with the		
interest	Attitude	9,10,11
• Understand the correct techniques of the drug preparation methods and handling of Pharmaceutical appliances.	Mindset	12

Content:

Part I - Siddha Pharmacology

1. Pharmacy

Acts on the establishment, structure and division of pharmacy, management of pharmacy, modern Pharmaceutical equipment's and instruments

2. Quality control

Method of quality control, sale of quality drug, analyze the poisonous drugs, modern drug formulation of indigenous medicines with their trade names

3. Pura Marunthukal -External Medicines

Kattu, Pattu, Ottradam, Poochchu, Vethu, Pottanam, Thokkanam, Pukai, Mai, Podithimirththam, Kalikkam, Nasiyam, Oothal, Naasikaparanam, Kazhimpu, Seelai, Neer, Varththi, Suttikai, Salaakai, Pasai, Kazhi, Podi, Murichchal, Keeral, Kaaram, Addaividal, Aruvai, Kompukaddal, Urinchal, Kuruthi vaankal, PeechchuThailakaruvi, Senthuram edukum Karuvi and Pathanka Karuvi

4. Preparation of drugs (Minimum15 drugs should be done in one phase practical class)

Part II - Pharmacology

Experimental Pharmacology

Methods of Teaching and Learning:	Methods		Notional Learning Hours
	1. Class Room Lec	Class Room Lectures	
	2. Seminar		25
	3. Self-study using	study guide	60
	4. Virtual/Real Gro	oup Discussion	30
	5. Resource based	Learning	45
	Total		200
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80%	Theory 03
	Assessment:		Practical 01
	Vaidya Thira Homoeopathy 2. Uttamarayan, Medicine, Tar 3. Anaivaari nra; Kiwfs, De Homoeopathy 4. Deva Asorv Kalayum, D	tttu, Department of y, Chennai – 600 10, C.S, <i>Pharmacopoe</i> mil Nadu Siddha me R. Anandar epartment of In y, Chennai – 600 10	ria of Hospital of Indian edical Board. n, ruf; F Rj; jp dian Medicine and 106 Marunthu Sei Iyalum edian Medicine and

Subject Title	: Siddhar Elakkiyam-I (Siddha Literature - I)	
Subject Code	: SEK 2031	
Year & Semester	: Professional II Semester III	
Credits	: 01	
Status	: Basic Stream(BS2)	

Aim:

To:

- 1. Learn about Siddhas in Literatures
- 2. Analysis the correlation wet beet Siddha Medicine and Tamil Literature

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

	F	
ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Able to describe Siddhas in Literatures	Knowledge	1,2
Apply the Siddhas in Literatures current situation	Skills	3,4,5,8
Correlate Siddha Medicine with litrature	Attitude	9,10,11
Promote the Siddha	Mindset	12

- 1. Define the Terms of Siddha
- 2. Discuss about the Importance of Siddhas in Literatures
- 3. List out the Tamil Literature which relevant with Siddha Medicine.
- 4. List out and briefly know about the Siddhars whom to contribute to Siddha Medicine
- 5. Explain about the Tamil Literature and Siddha Philosophy
- 6. Analysis the correlation wet beet Siddha Medicine and Tamil Literature such as Thirukural, Thirumanthiram, Silapathikaram, Tholkapiyam, Aasarak kovai, Siru pancha moolam, Enathy, Thirikadukam and Parathiyar Books.
- 7. Discuss about the relations between Siddha Medicine and Traditional believes.
- 8. Discuss about the evolution of Human body till the death and finally attained salvation according to Siddhar Ilakiyam

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based learn	05	
	2. Self-study using	study guide	20
	3. Case Study/Prob	ng 10	
	4. Resource based	15	
	Total	50	
Methods of Assessments :	Methods	Hours	
	Formative 20 %		01
	Assessment:		

	Summative	80 %	03		
	Assessment:				
Recommended Readings :	Text books/ References:				
	Publication 2. Thiruvaluvar Sithantha No. 3. Pulliyur Kes Nilaiyam pul. 4. Barathiyar,20 Swamimalai 5. Rishapananth Rakasiyam,S Colleny, Vill. 6. Murukeshan Shanker Pu Villivakkam. 7. Murukeshan Shanker Pu Villivakkam. 8. Murukeshan Shanker Pu Villivakkam. 9. Murukeshan Shanker Pu Villivakkam.	Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaitharum Nanmaitharum Nanmaitharum Nanmaitharum Nanmaitharum Nanmaitharum Nationalista (Nanmaitharum Nationalista (Nanmaithar	mappiyam, Madras Bhari kavithaigal, Chennai, tharkal Kanda Manuda on 21,Teachers Killed Iharkal kanda Iraimai, thers Killed Colleny, Idharkalin perulakam, thers Killed Colleny, Idharkalin Sakak kalai, thers Killed Colleny, Idharkalin Sakak kalai, thers Killed Colleny, Idharkalin Sakak kalai, Ihers Killed Colleny, Idharkalin Sakak kalai,		

Subject Title	:Siddhar Elakkiyam-II (Siddha Literature - II)
Subject Code	: SEK 2041
Year & Semester	: Professional II Semester IV
Credits	: 01
Status	: Basic Stream (BS2)

Aim:

To:

- 1. Learn about Astrology in Siddha Medicine
- 2. Analysis the correlation between religious believes and Siddha Practices

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

	1 1 0 0	
ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Able to describe Siddhas in Literatures	Knowledge	1,2
Apply the Siddhas in Literatures current situation	Skills	3,4,5,8
Correlate Siddha Medicine with litrature	Attitude	9,10,11
Promote the Siddha	Mindset	12

Content:

The following will be approach based on ancient literature

- 1. Elaborate about the Astrology in Siddha Medicine
- 2. Discuss about the Importance of Time (Kalam) In Siddha Medical Practice.
- 3. Explain the Category of Animals and birds in Siddha practice
- 4. Discuss about the different kind of religious believes and Siddha Practices
- 5. Discuss the differentiation between sorcery/ witchcraft and Siddha Medicine
- 6. Explain about the importance of Siddha Medicine in Sri Lankan Tamil literature.
- 7. Discus about the philosophers who gave the importance for Siddha Medicine.
- 8. Discus about the medical ethics mentioned in Siddha Medicine.

Methods of Teaching and	Methods			Notional
Learning:				Learning Hours
	1. LMS based learn	ning		05
	2. Self-study using	study guide		20
	3. Case Study/Prob	olem Based Learnin	ıg	10
	4. Resource based	15		
	Total			50
Methods of Assessments :	Methods	Marks	Ho	ours
	Formative	20 %		01
	Assessment:			
	Summative 80 %			03
	Assessment:			

Recommended Readings:

Text books/ References:

- 1. Pirammathandi.M.S, Apr 2015 *Siththarkalin Naalthorum Nanmaitharum Nalla nerangal*, Katpakam Publication
- 2. Thiruvaluvar. 1991. *Thirukural*, Madras: Saiva Sithantha Nootpathipuk Kalakam
- 3. Pulliyur Kesigan, 1993, *Tholkappiyam*, Madras Bhari Nilaiyam publication
- 4. Barathiyar,2009, *Barathiyar kavithaigal*, Chennai, Swamimalai Pathippagam
- Rishapananthar, Jan 2014, Siththarkal Kanda Manuda Rakasiyam, Shanker Publication 21, Teachers Killed Colleny, Villivakkam, Chennai.
- 6. Murukeshan .C.S, 2012, Siddharkal kanda Iraimai, Shanker Publication 21, Teachers Killed Colleny, Villivakkam, Chennai...
- 7. Murukeshan .C.S, 2011, Siddharkalin perulakam, Shanker Publication, 21,Teachers Killed Colleny, Villivakkam, Chennai...
- 8. Murukeshan .C.S, 2011, Siddharkalin Sakak kalai, Shanker Publication, 21, Teachers Killed Colleny, Villivakkam, Chennai...
- 9. Murukeshan .C.S, 2011,Paarathi Kanda Siththarkal, Shanker Publication, 21,Teachers Killed Colleny, Villivakkam, Chennai..
- Varatharasan.M, 1964, Pazhanthamil ilakiyathil Eyatkai,
 Shanker Publication, 21, Teachers Killed Colleny,
 Villivakkam, Chennai..

Subject Title	: Medical Ethics and Professionalism - I
Subject Code	: MEP 2032
Year & Semester	: Professional II Semester III
Credits	: 02
Status	: Basic Stream (BS2)

- 1. Develop personal attributes, skills and professionalism required of a medical officer
- 2. Develop skills and techniques for communicating effectively as a health professional
- 3. Recognize and the able to evaluate common ethical issues in health care

Intended Learning Outcomes:

At the end of this course expected competencies to be achieved by the students are;

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Contribute to the creation, dissemination, application and translation of new health care knowledge and practices.	Knowledge	1, 2
 Perform a consultative role to other health professionals. Work with other health professionals to establish and maintain a climate of mutual respect, dignity, diversity, ethical integrity, and trust. Take informed consent and address patients/attendants queries effectively. Communicate effectively with patients, families, colleagues and other health care professionals. 	Skills	3, 4, 5, 8
 Recognize ethics and professionalism as an integral part of doctor-patient relationship. Demonstrate responsiveness to patients needs respecting their privacy and autonomy 	Attitude	9,10,11
Develop respect for the individuality and values of others-(including having respect for oneself) patients, caretakers, colleagues and other health professionals	Mindset	12

- 1. Personal Development
 - 1.1. Effective listening and note taking
 - 1.2. Improving physical wellbeing
 - 1.3. Improving mental and spiritual wellbeing
 - 1.4. Formal learning
 - 1.5.Getting the best out of SGDs
 - 1.6. Introduction to BSS and Personal Development Module
 - 1.7. Stress and stress management

- 1.8. Attitudes and their influence on medical training
- 1.9. Time management
- 1.10. Positive thinking
- 1.11. Learning the art of making an effective oral presentation
- 1.12. Introduction to Information Literacy and searching for medical information

2. Basic Behavioural Science

- 2.1.Understanding personality and human behaviour
- 2.2.Intelligence
- 2.3. Memory and enhancement
- 2.4. Social behaviour
- 2.5.Illness & behaviour
- 2.6. Medically unexplained symptoms
- 2.7.Illness from the perspective of humanities
- 2.8. Spirituality and health
- 2.9.PBLs for effective learning
- 2.10. Gender specific issues
- 2.11. Learning in the clinical setting
- 2.12. Stereotypes and prejudice
- 2.13. Good medical practice
- 2.14. Group dynamics
- 2.15. Issues of attitude, conduct and relationships with hospital staff
- 2.16. Physiological factors learning to physical illness

3. Communication Skills

- 3.1. Effective communication skills
- 3.2. Doctor-Patient communication
- 3.3. SPIKES model for breaking bad news
- 3.4. Communication with children & adolescents
- 3.5. People with difficulties in communication
- 3.6. Communicating end-of-life decisions
- 3.7. Coping with loss & defense mechanisms

Methods of Teaching and	Methods			Notional	
Learning:			Learn	ing Hours	
	1. LMS based learning			30	
	2. Self-study using study guide			35	
	3. Case Study/Problem Based Learning			15	
	4. Resource based Learning			20	
	Total			100	
Methods of Assessments :	Methods	Marks	Notional	otional Learning	
	Hours		Hours		
	Formative	20 %	()1	
	Assessment:				
	Summative	80 % Theory - 03		y - 03	
	Assessment:				

Recommended Readings:

- Christopher. Dowrick, Medicine in Society: Behavioral Sciences for Medical Students, 1st edition, Hodder Education Publishers
- 2. Barbara Fadel, *Behavioral Sciences In Medicine*, 2nd Edition,
- 3. Manju Mehta,(2008) *Behavioral Sciences in Medical Practice*, 2nd Edition, Jp Medical Ltd
- 4. Mowadat. H. Rana, Roop z Rana, Mansoor Mustafa and, *Handbook of Behavioral Sciences*, 3rd Edition,
- 5. Sierles, Frederick, *Behavioral Sciences for Medical Students*, Williams & Wilkins

Subject Title	:	Medical Ethics and Professionalism - II	
Subject Code	:	MEP 2042	
Year & Semester	:	Professional II Semester IV	
Credits	:	02	
Status	:	Basic Stream (BS2)	

- 1. To understand the interaction between human behaviour and health
- **2.** To develop the ability to analyze ethical issues commonly encountered in medical practice and formulate a framework within which such issues could be evaluated and addressed
- 3. To develop towards becoming a caring, compassionate and competent health professional

Intended Learning Outcomes:

At the end of this course expected competencies to be achieved by the students are

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
• Contribute to the creation, dissemination,	Knowledge	1, 2
application and translation of new health care		
knowledge and practices.		
• Perform a consultative role to other health	Skills	3, 4, 5, 8
professionals.		
• Work with other health professionals to establish		
and maintain a climate of mutual respect, dignity,		
diversity, ethical integrity, and trust.		
• Take informed consent and address		
patients/attendants queries effectively.		
• Communicate effectively with patients, families,		
colleagues and other health care professionals.		
• Recognize ethics and professionalism as an	Attitude	9,10,11
integral part of doctor-patient relationship.		
• Demonstrate responsiveness to patients needs		
respecting their privacy and autonomy		
• Develop respect for the individuality and values	Mindset	12
of others-(including having respect for oneself)		
patients, caretakers, colleagues and other health		
professionals		

Content:

- 1. Health and Behaviour
 - 1.1. Understanding personality and human behaviour
 - 1.2. Intelligence
 - 1.3. Memory and enhancement

- 1.4. Social behaviour
- 1.5. Illness & behaviour
- 1.6. Medically unexplained symptoms
- 1.7. Illness from the perspective of humanities
- 1.8. Spirituality and health
- 1.9. PBLs for effective learning
- 1.10. Gender specific issues
- 1.11. Learning in the clinical setting
- 1.12. Stereotypes and prejudice
- 1.13. Good medical practice
- 1.14. Group dynamics
- 1.15. Issues of attitude, conduct and relationships with hospital staff
- 1.16. Physiological factors learning to physical illness

2. Ethics

- 2.1. Concept of ethics and Med Ethics
 - 2.1.1. Medical ethics Concept, history, development, definition, principles
- 2.2. Professional Ethics
 - 2.2.1. Negligence and Misconduct Concept, definitions, regulatory authorities, laws
 - 2.2.2. Ethical practice as a student Identify ethical practice of an adult learner
 - 2.2.3. Identify issues in plagiarism
- 2.3. Clinical Ethics
 - 2.3.1. Ethical practice in patient encounters Illustration of ethical principles
 - 2.3.2. End of life Issues at end of life
- 2.4. Research ethics
 - 2.4.1. Current concepts Principles of research ethics/ Ethics, Review/ clinical trials, Registry/ practicalities
 - 2.4.2. Authorship and publication Principles of publication ethics/ plaigarism/ rights of authors
 - 2.5. Resource allocation
 - 2.5.1. Public Ethical aspects of micro and macro allocation
 - 2.6.Other topics
 - 2.6.1. Private practice, social media, TU, patient safety Ethical aspects of private practice, trade unions
- 3. Professionalism
- 3.1. Define Professionalism and the expectations of the society from a healthcare professionals / doctor
- 3.2. Appraise traits of a professionals
 - 3.2.1. Time management / Punctuality
 - 3.2.2. Self regulation and meeting accepted social standards (Social etiquette, physical appearance, language, honesty, accountability)
 - 3.2.3. Respect the rules of governing bodies

- 3.2.4. Appreciate the difference between regulatory authorities, professional bodies and trade union
- 3.2.5. Appropriate communication skills (with patient, peers, society and other professionals)
- 3.2.6. Leadership and conflict resolution
- 3.2.7. Being a team player
- 3.2.8. Exercising social responsibilities (response at time of national disasters, media communication, serving in judicial capacity)
- 3.2.9. Process of professionalization
- 3.2.10. Introduction to Department of Ayurveda regulations (E-code)

Methods of Teaching and	Methods	Notional		
Learning:		Learning Hours		
	1. LMS based learn	ning	30	
	2. Self-study using	study guide	35	
	3. Case Study/Prob	olem Based Learnin	ng 15	
	4. Resource based	Learning	20	
	Total		100	
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			
	Summative	80 %	Theory – 03	
	Assessment:			
Recommended Readings :	1. Christopher. Do	wrick, Medicine in	Society: Behavioral	
_	Sciences for Med	dical Students, 1 st e	edition, Hodder	
	Education Publis	shers		
	2. Barbara Fadel, B	Behavioral Sciences	s In Medicine, 2 nd	
	Edition,		,	
	,	008) Behavioral Sc	ciences in Medical	
	•	*		
	Practice, 2 nd Edition, Jp Medical Ltd			
	4. Mowadat. H. Rana, Roop z Rana, Mansoor Mustafa and,			
	Handbook of Behavioral Sciences, 3rd Edition,			
	5. Sierles, Frederick, <i>Behavioral Sciences for Medical</i>			
	Students, Willian	ms & Wilkins		

Subject Title	:	Noi Naadal I (Pathology I)
Subject Code	:	NNL 3054
Year & Semester	:	Profession III Semester V
Credits	:	04
Status	:	Applied Stream (AS)

To:

- 1. Understand the basic concepts of Siddha diagnostic methods
- 2. Get practical knowledge in Siddha diagnostic methods
- 3. Identify the root causes and the *mukkuttraviyal* (pathogenesis) of the diseases
- 4. Get experience to diagnosis the disease
- 5. Understand the basic nature of the disease process
- 6. Recognise, understand and describe the pathogenesis of microorganism related to diseases
- 7. Recognise, understand and describe the pathogenesis of parasites related to diseases
- 8. Apply the knowledge of pathology in diagnosis
- 9. Comparative appraisal of the disease in Siddha system of medicine

Intended Learning Outcomes:

At the end of this course students should be able to know the applied aspect of Noi Naadal

IL	Os	Core Area	Categories of Learning Outcome (SLQF, Sep 2015,
			Page 26 -27)
•	Understand the basic nature of the disease process	Knowledge	1, 2
•	Gain through knowledge in the basic concepts of		
	Siddha diagnostic methods, root causes and <i>mukkuttraviyal</i> (pathogenesis) of the diseases		
•	Able to understand the etiopathogenesis towards identification of the disease and interpret the investigational findings towards the diagnosis the disease	Skills	3, 4, 5, 8
•	Understand the disease process in general based on contemporary medical knowledge	Attitude	9,10,11
•	Practise the intervention to the health problem based on the Siddha system medicine		
•	Explore the knowledge in <i>Noi Naadal</i> towards Siddha system of medicine and comparative skill of disease	MINDSET	12

Content:

- 1. Noi Naadal (pathology) based on Siddha system of medicine
 - 1.1.Introduction to Noi Naadal
 - 1.1.1. Study of Arokiyam and Noi
 - 1.1.2. Noikkana muthat karanankal
 - 1.1.3. Basic knowledge on diagnostic methods
 - 1.2. Applied aspect of Five element theory (*Iympootha kolkai*)
 - 1.2.1. Combination and relations among five elements, disease and medicine

- 1.2.2. Combination and relations between *Impori* and *Impulangal* in disease condition
- 1.3. Normal and abnormal conditions of *Muththathukkal* (tri humors) and their interactions
 - 1.3.1. Study of normal and abnormal conditions of *muththathukkal-Vatham*, *Pitham* and *Kapham*
 - 1.3.2. *Mukkutrangal* in healthy and disease conditions
 - 1.3.3. Interaction among Mukkutrangal, Pancha bhootham and Suwaikal
 - 1.3.4. Taste that neutralize and vitiate *Mukkutrangal*
- 1.4. *Udal kattukal* (somatic components) and its abnormalities
 - 1.4.1. Study of abnormalities of *Udal kattukal Saaram, Senneer, Oon, Kozhuppu, Enbu, Moolai and Vinthu (Sukkilam) / Naatham (Suronitham)*
 - 1.4.2. Interactions among *Muththathukkal*, *Pancha bhootham* and *Udal kattukal* in disease condition
- 1.5. *Udal thee*
 - 1.5.1. Definition
 - 1.5.2. States of *Udal thee* in healthy and disease conditions
- 1.6. Pathological aspect of Saram
 - 1.6.1. Definition Saram and Pranayamam
 - 1.6.2. Abnormalities of *Saram*
 - 1.6.3. Interaction between Saram and Pranayamam
- 1.7. Applied aspect of Yaakkaiyin ilakkanam
 - 1.7.1. Vatha body
 - 1.7.2. Piththa body
 - 1.7.3. *Kapha* body
 - 1.7.4. Thontha body 7
- 1.8. Applied aspect of 14 Vegangal (natural urges)
 - 1.8.1. Importance of 14 Vegangal to maintain health
 - 1.8.2. Diseases due to suppression of 14 *Vegangal* (natural urges)
- 1.9. Influence of environmental condition for disease
 - 1.9.1. *Ivagai nilam* and diseases
 - 1.9.2. *Paruvakkalangal* and diseases
- 1.10. Detail study on *Envagai thervu* (eight folds of diagnostic methods)
 - 1.10.1. *Naadi*
 - 1.10.2. *Sparisam*
 - 1.10.3. Naa
 - 1.10.4. Niram
 - 1.10.5. *Mozhi*
 - 1.10.6. *Vizhi*
 - 1.10.7. *Malam*
 - 1.10.8. Siruneer neerkuri, neikuri, other diagnostic methods

- 1.10.9. Different school thoughts of Envagai thervu
- 1.11. Detail study of Neerkuri and neikuri
 - 1.11.1. Neerkuri
 - 1.11.1.1. Collection of urine
 - 1.11.1.2. *Niram* (colour)
 - 1.11.1.3. *Manam* (smell)
 - 1.11.1.4. *Norai* (froth)
 - 1.11.1.5. *Edai* (volume)
 - 1.11.1.6. *Enchal* (sedimentation)
 - 1.11.2. Neikuri
 - 1.11.2.1. Collection of urine
 - 1.11.2.2. Method to test the *neikuri*
 - 1.11.2.3. Determination of diagnosis and prediction of prognosis of disease based on *neikuri*
- 1.12. Detail study on other diagnostic methods 1(investigation) *Agasthiyar Soodamani Kagiru Soothiram (Manikkadai)*
 - 1.12.1. Method to test the *Agasthiyar Soodamani Kagiru Soothiram* (*Manikkadai*)
 - 1.12.2. Determination of diagnosis and prediction of prognosis of disease based on *Agasthiyar Soodamani Kagiru Soothiram (Manikkadai)*
- 1.13. Detail study on other diagnostic methods 2 (investigation) -
 - 1.13.1. *Mookku* (nose)
 - 1.13.2. *Kathu* (ear)
 - 1.13.3. *Uthadu* (lip)
 - 1.13.4. *Pal* (teeth)
 - 1.13.5. *Nettri* (fore head)
 - 1.13.6. *Puruvam* (eye brow)
 - 1.13.7. *Annam* (palate)
 - 1.13.8. *Nagam* (nail)
 - 1.13.9. *Mayir* (hair)
 - 1.13.10. *Echchil* (saliva)
 - 1.13.11. *Sali* (sputum)
 - 1.13.12. Viyarvai (sweat)
 - 1.13.13. *Kanneer* (tear)
 - 1.13.14. Vaanthi
 - 1.13.15. Sukkilam
- 1.14. Brief knowledge on Panchapatchi sasthiram
 - 1.14.1. Relationship between *panchapatchi sasthiram* and human body
 - 1.14.2. Determination of diagnosis of disease based on *panchapatchi* sasthiram
- 15.1. Brief knowledge on medical astrology
 - 15.1.1. Relationship between astrology and human body
 - 15.1.2. Determination of diagnosis of disease based on medical astrology

- 16.1. Thoothuvan ilakkanam
 - 16.1.1. Determination of diagnosis and prognosis of disease based on *thoothuvan ilakkanam*
- 17.1. Asaaththiya kuri kunangalum marana kurikunankalum
 - 17.1.1. Asaaththiya kuri kunangalum marana kurikunankalum based on mukkutrangal, suvai and envagai thervugal

- 2. Noi Naadal (pathology) based on Conventional medicine
 - 2.1. General pathology
 - 2.1.1. Introduction to pathology
 - 2.1.1.1. Health and disease
 - 2.1.1.2. Common terms in pathology
 - 2.1.2. Cellular injury, cell adaptation and cellular aging
 - 2.1.2.1. Normal cell and functions
 - 2.1.2.2. Cellular injury
 - 2.1.2.2.1. Etiology of cell injury
 - 2.1.2.2.2. Pathogenesis of cell injury
 - 2.1.2.2.3. Morphology of reversible and irreversible of cell injury
 - 2.1.2.2.4. Intra cellular accumulation
 - 2.1.2.2.5. Changes after cell death
 - 2.1.2.3. Adaptive disorders
 - 2.1.2.3.1. Atrophy
 - 2.1.2.3.2. Hypertrophy
 - 2.1.2.3.3. Hyperplasia
 - 2.1.2.3.4. Metaplasia
 - 2.1.2.3.5. Dysplasia
 - 2.1.3. Derangements of homeostasis and hemodynamics
 - 2.1.3.1. Disturbance of body water
 - 2.1.3.1.1. Oedema
 - 2.1.3.1.2. Dehydration
 - 2.1.3.1.3. Over hydration
 - 2.1.3.2. Hemodynamic derangements
 - 2.1.3.2.1. Disturbance in volume of circulating blood hemorrhage and shock
 - 2.1.3.2.2. Circulating disturbance of obstructive nature -thrombosis, embolism, ischemia
 - 2.1.4. Inflammation and healing
 - 2.1.4.1. Acute inflammation
 - 2.1.4.2. Chronic inflammation
 - 2.1.4.3.Healing
 - 2.1.4.3.1. Regeneration and repair
 - 2.1.4.3.2. Healing of skin wound
 - 2.1.4.3.3. Fracture

- 2.1.5. Neoplasia
 - 2.1.5.1. Nomenclature and classification
 - 2.1.5.2. Characteristic of tumors
 - 2.1.5.3. Carcinogens and carcinogenesis
 - 2.1.5.4. Clinical aspect of neoplasia
- 2.1.6. Hematological disorders
 - 2.1.6.1. Disorders of erythroid series Anemia
 - 2.1.6.2. Disorders of platelets and bleeding disorders
 - 2.1.6.3. Disorders of leucocytes Leukaemia
- 2.2. Microbiology
 - 2.2.1. Introduction to microbiology
 - 2.2.1.1. Introduction of microorganisms and their important in brief
 - 2.2.2. Prokaryotic and eukaryotic cell
 - 2.2.2.1. Structure and function of prokaryotic cell with examples
 - 2.2.2.2. Structure and function of eukaryotic cell with examples
 - 2.2.2.3. Comparison of prokaryotic and eukaryotic cells
 - 2.2.3. Bacteria
 - 2.2.3.1. Size, shape and arrangements of bacteria and classifications
 - 2.2.3.1.1. Naming and classifying microorganisms
 - 2.2.3.1.2.Binomial system of nomenclature
 - 2.2.3.2. Gram-positive and Gram-negative common pathogenic bacteriamorphological characters and identification
 - 2.2.3.2.1. Mycobacterium tuberculosis
 - 2.2.3.2.2.Gram-positive bacteria
 - a) Gram-positive cocci Staphylococcus aureus (MSSA, MRSA), Streptococcus pyogenes, Streptococcus pneumoniae, Enterococcus faecalis and Enterococcus faecium
 - b) Gram-positive bacilli *Corynebacterium diphtheria*, *Bacillus* spp. and *Listeria* spp.
 - 2.2.3.2.3. Gram-negative bacteria
 - a) Gram-negative cocci *Moraxella* spp., *Neisseria* meningitides and *Neisseria* gonorrhoeae
 - b) Gram- negative bacilli Escherichia coli, Shigella flexneri, Shigella sonnei, Shigella dysenteriae, Salmonella Typhi, Vibrio cholerae, Pseudomonas aeruginosa, Acinetobacter spp. and Klebsiella pneumoniae
 - 2.2.3.2.4. Anaerobic bacteria Clostridium tetani
 - 2.2.4. Brief knowledge regarding classification, morphological characters, habitat, toxigenicity (exotoxins and endotoxins), transmission, pathogenesis and diagnosis of diseases causing by common pathogenic fungi
 - 2.2.4.1. Fungi Candida spp., Aspergillus spp. Pneumocystis spp.
 - 2.2.4.2.Algae *Anabaena* spp., *Oscillatoria* spp., *Aphanizomenon* spp., *Cylindrospermum* spp.

- 2.2.5. Viruses
 - 2.2.5.1.RNA viruses
 - 2.2.5.2.DNA viruses
- 2.2.6. Brief study of antimicrobial agents, classification of antibiotics and the mechanism of actions
- 2.2.7. Immunology
 - 2.2.7.1. Immunity
 - 2.2.7.2. Antigen (immune globulin) and antibody
 - 2.2.7.3. Antigen antibody reactions
 - 2.2.7.4. Hypersensitivity
 - 2.2.7.5. Auto immunity
 - 2.2.7.6. Immunodeficiency diseases (HIV)

2.3. Parasitology

General introduction of parasitology - parasites host, zoonosis, host parasite relationships, lifecycle of parasites, causes of infections, modes of infections, pathogenesis, immunity in parasitic infestation and laboratory diagnosis

- 2.3.1. Amoeba Entamoeba histolytica
 - 2.3.1.1. Pathogenesis and clinical features
 - 2.3.1.2. Extra intestinal amoebiasis
 - 2.3.1.3. Laboratory diagnosis
- 2.3.2. Intestinal, oral, genital flagellates and hemoflagellates (1)
 - 2.3.2.1. Giardia lamblia
 - 2.3.2.1.2. Pathogenesis and clinical features
 - 2.3.2.1.3. Laboratory diagnosis
 - 2.3.2.2. Trichomonas vaginalis
 - 2.3.2.2.1. Pathogenesis and clinical features
 - 2.3.2.2.2. Laboratory diagnosis
- 2.3.3.Malaria vectors, types of malaria, pathogenesis, clinical features and laboratory diagnosis
- 2.3.4.Dengue vectors, pathogenesis, clinical features and laboratory diagnosis
- 2.3.5.Helminths general characteristics, habit, mode of infestation, pathogenesis and clinical features, laboratory diagnosis
 - 2.3.5.1. Cestodes -Tape worm (Taenia saginata and Taenia solium)
 - 2.3.5.2. Nematodes
 - 2.3.5.3. Hook worm (*Ancylostoma duodenale* and *Nicatus Americanos*)
 - 2.3.5.4. Enterobius vermicularis
 - 2.3.5.5. Ascaris lumbricoides
 - 2.3.5.6. Filarial worm (Wuchereria bancrofti)

Practical

- 1. Diagnose the disease based on Siddha system of medicine (OPD and IPD training)Laboratory safety and aseptic technique (personal safety)
- 2. Aseptic techniques disinfection and sterilization methods
- 3. Analysis of blood laboratory investigations towards diagnosis
 - 3.1. Full blood count
- 4. Analysis of urine laboratory investigations towards diagnosis

- 4.1. Collecting techniques of urine
- 4.2. UFR
- 5. Microscopy principle and structure of light microscope, resolving power magnification
- 6. Bacterial cultures- media preparation and cultivation of bacteria; pure culture concept of pure culture methods of pure culture of microorganisms streak plate
- 7. Morphological features of bacterial colonies
- 8. Staining slide preparation preparation of bacterial smears for light microscopy fixation and staining; simple staining and acid-fast staining
- 9. Screening of antimicrobial activity and evaluation of minimum inhibitory concentration (MIC) of natural products against human pathogens
- 10. Study the morphological characters and identification of common pathogenic fungi, algae and virus with permanent slides or specimen pictures
- 11. Study the morphological characters and identification of parasites and worms

Methods of Teaching and Learning:	Methods		Notional Learning Hours		
	1. Seminar			05	
	2. LMS based learn			30	
	3. Self-study using			50	
	4. Case Study/Prob		g	25	
	5. Virtual/Real Gro	-		10	
	6. Resource based	Learning		30	
	7. Practical			50	
	Total			200	
Methods of Assessments :	Methods	Marks	Notional Learning Hours		
	Formative	20 %		01	
	Assessment:				
	Summative	80 %		heory -03	
	assessment		Practical- 01		
Recommended Readings :	I. Chennai: Homoeopathy2. Shanmugavel	Department of y, Chennai. u, M. <i>Noi nadal na</i>	oi mudal nadal thirattu Indian Medicine and oi mudal nadal thirattu Indian Medicine and h Mohan, The health C.P. Baveja, Arya n Pathology Basis of L. Abbas. John. C. Aster,		
	Homoeopathy3. Textbook of sciences publication in the second s	y, Chennai. Pathology. Harshishers (Jaypee). Microbiology. Robbins & Cotranty Kumar, Abdul K			

- 5. Paniker's Textbook of Medical Parasitology. CK. Jayaram Paniker. Revised and Edited by Sougata Ghosh, Jaypee brothers medical publishers (P) Ltd.
- 6. Venu gopal, P.M. *Udal Thathuvam*. Chennai: Department of Indian Medicine & Homoeopathy, Chennai.
- 7. Kuppusamy Mudaliar, K.N. *Siddha Maruthuvam Pothu*. Chennai:Department of Indian Medicine & Homoeopathy.
- 8. Uthamarayan, C.S. *Siddha Maruthuvanga Churukkam*. Chennai: Department of Indian Medicine & Homoeopathy.
- 9. Yugiamamunivar. *Yugi vaiththiya sinthamani*. Chennai: Department of Indian Medicine & Homoeopathy.
- 10. Kalaththur kanthasami Muthaliyar. *Pathinen Siddhar arulichcheitha Nadi saasthiram*. Chennai: B. Raththina nayakar and sons.
- 11. Uthamarayan, C.S. *Siddha Maruthuvanga Churukkam*. Chennai: Department of Indian Medicine & Homoeopathy.
- 12. Pulipani Suntharavarathachchariyar. *Panchapatchi saththiram*. Thanjavoor: Saraswathy Mahal Library.
- 13. Concepts in Pathology. Devesh Mishra, Pulse publication.
- 14. Robbins & Cotran Pathology Basis of Disease. Vinay Kumar, Abdul K. Abbas. John. C. Aster, Relax India (Pvt.) Ltd.
- 15. Ananthanarayan & Paniker's text book of Microbiology. Edited by Arthi Kapil, Universities press India (Pvt.) Ltd.
- 16. Reputed journals related to the above titles

Subject Title	:	Noi Naadal II (Pathology II)
Subject Code	:	NNL 3064
Year & Semester	:	Profession III Semester VI
Credits	:	04
Status	:	Applied Stream (AS)

To:

- 1. Understand the disease based on the Siddha system of medicine
- 2. Identify the root causes (etiology) and the *mukkuttraviyal* (pathogenesis) of the disease (Siddha and conventional medicine)
- 3. Recognise, understand and describe the disease
- 4. Familiar with the Siddha diagnostic methods towards the disease
- 5. Able to interpret the investigational findings
- 6. Apply the knowledge of pathology (conventional medicine) in diagnosis
- 7. Get experience to diagnosis the disease based on the Siddha system of medicine
- 8. Comparative appraise of the disease in Siddha system of medicine

Intended Learning Outcomes:

At the end of this course students should be able to know the applied aspect of Noi Naadal

IL	Os	Core Area	Categories of Learning
			Outcome (SLQF, Sep 2015, Page
			26 -27)
•	Gain through knowledge in disease in the basis of	Knowledge	1, 2
	root causes, <i>mukkuttraviyal</i> (pathogenesis) of the		
	diseases and Siddha diagnostic methods		
•	Understand the basic nature of the disease process		
	in conventional medicine		
•	Able to interpret the etiopathogenesis and	Skills	3, 4, 5, 8
	investigational findings towards the diagnosis the		
	disease based on Siddha system medicine		
•	Understand the disease process in general based	Attitude	9,10,11
	on contemporary medical knowledge		
•	Practise the intervention to the disease based on		
	the Siddha system medicine		
•	Explore the knowledge of the Siddha system of	Mindset	12
	medicine towards the disease		
•	Comparative skill of disease		

Content:

- 1. *Noi Naadal* (pathology) based on Siddha system of medicine Diagnosis of disease according to *Noi Naadal* (pathology) aspect in Siddha system of medicine;
- Veru peyar (other names), Iyalbu (character)
- Brief study on *Noi varum vazhikal* (causes), *Mukkuri kunankal* (premonitory signs), *Noi en* (types), and *Kurikunankal* (signs and symptom)
- Detail study on *Mukkutra muthaliya verupaadukal* (etiopathogenesis), *Nadi nadaikal* (pulse diagnosis) and diagnosis of the following diseases

- 1.1. *Suram*
- 1.2. Mukkuttra noi (sanni)
- 1.3. Ammai noi
- 1.4. Velluppu noi
- 1.5. Uthal noi
- 1.6. Heart and respiratory diseases
 - 1.6.1. Thamaraga noikal
 - 1.6.2. Kuratkammal
 - 1.6.3. *Mookkadaippu*
 - 1.6.4. *Irumal*
 - 1.6.5. *Eraippu*
 - 1.6.6. *Elaippu*
- 1.7. Gastrointestinal diseases
 - 1.7.1. Suwai inmai
 - 1.7.2. Seriyaamai
 - 1.7.3. *Vikkal*
 - 1.7.4. *Vanthi*
 - 1.7.5. *Kunmam*
 - 1.7.6. Soolai noi
 - 1.7.7. Manjal noi
 - 1.7.8. Peru vayiru
 - 1.7.9. Perung kazhichal
 - 1.7.10. Ninak kazhichal
 - 1.7.11. Kaduppu kazhichal
 - 1.7.12. Eruvai mulai noi
- 1.8. Urinary diseases and sexual transmitted diseases
 - 1.8.1.Neerarukal noi
 - 1.8.1.1. Kalladaippu
 - 1.8.1.2. Neer surukku
 - 1.8.1.3. *Vellai*
 - 1.8.2. Neerinai perukkal noikal
 - 1.8.2.1. *Meha neer*
 - 1.8.2.2. Neerizhivu
- 1.9. Neurological diseases (Vali)
 - 1.9.1. Valippu noi
- 1.10. Joints diseases (Vayu)
 - 1.10.1. Keel vayu

- 1.11. Diseases/disorders Vali, Azhal and Iyam
 - 1.11.1. Vali / Vatha noi
 - 1.11.2. Azhal noi
 - 1.11.3. *Iya noi*
- 1.12. Skin diseases
 - 1.12.1. *Peru noi*
 - 1.12.2. Karappan
- 1.13. Helminths (*pulu*)

- 2. Systemic Pathology
 - 2.1. The Blood Vessels
 - 2.1.1. Arteriosclerosis
 - 2.1.2. Aneurysms
 - 2.2. The Heart brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.2.1. Ischemic Heart disease
 - 2.2.2. Rheumatic fever and rheumatic heart disease
 - 2.2.3. Infective endocarditis
 - 2.2.4. Heart failure
 - 2.2.5. Valvular diseases and deformities
 - 2.3. The Respiratory System brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.3.1. Pulmonary infections
 - 2.3.1.1. Pneumonia
 - 2.3.1.2. Lung abscess
 - 2.3.1.3. Pulmonary tuberculosis
 - 2.3.2. Chronic obstructive pulmonary disease
 - 2.3.2.1. Chronic bronchitis
 - 2.3.2.2. Emphysema
 - 2.3.2.3. Bronchial asthma
 - 2.3.2.4. Bronchiectasis
 - 2.4. The Gastrointestinal Tract brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.4.1. Stomach
 - 2.4.1.1. Inflammatory conditions
 - 2.4.1.2. Haematemesis and melaena of gastric origin
 - 2.4.2. Small intestine
 - 2.4.2.1. Intestinal obstruction
 - 2.4.2.2. Inflammatory bowel disease
 - 2.4.2.3. Infective and other enterocolitis
 - 2.4.2.4. Malabsorption syndrome
 - 2.5. The Liver, biliary tract and pancreas- brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.5.1. Liver
 - 2.5.1.1. Viral Hepatitis

- 2.5.1.2. Cirrhosis
- 2.5.2. Biliary tract
 - 2.5.2.1. Cholelithiasis
 - 2.5.2.2. Cholecystitis
- 2.5.3. Pancreas
 - 2.5.3.1. Pancreatitis
 - 2.5.3.2. Diabetic mellitus
- 2.6. The Kidney and lower urinary tract brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.6.1. Kidney
 - 2.6.1.1. Renal failure
 - 2.6.1.2. Glomerular diseases
 - 2.6.1.3. Tubular and tubulointerstitial diseases
 - 2.6.1.4. Obstructive uropathy
 - 2.6.2. Lower urinary tract inflammation
- 2.7. Joints brief study on definition, etiopathogenesis, predisposing factors, classification, complication
 - 2.7.1. Degenerative joint disease Osteoarthritis
 - 2.7.2. Inflammatory joint diseases Rheumatoid arthritis

Practical:

- 1. Diagnose the disease based on Siddha system of medicine (OPD and IPD training)
- 2. Analysis of blood laboratory investigations towards diagnosis
 - 2.1. Full blood count
 - 2.2. Lipid profile
 - 2.3. Liver function test (LFT)
 - 2.4. Thyroid function test
- 3. Analysis of urine laboratory investigations towards diagnosis
 - 3.1.UFR
- 4. Reading of laboratory investigations guided by the clinical findings towards diagnosis
 - 4.1. Cerebrospinal fluid analysis (CSF analysis)
 - 4.2.X ray readings
 - 4.2.1. Tuberculosis
 - 4.2.2. Pneumonia
 - 4.2.3. Cardiomyopathy
 - 4.2.4. Chronic bronchitis
 - 4.2.5. Fractures
 - 4.3. Endoscopic reports
 - 4.3.1. Esophageal varices
 - 4.3.2. Peptic ulcer
 - 4.3.3. Irritable bowel syndrome (IBS)
 - 4.3.4. Proctitis
 - 4.3.5. Hemorrhoids
 - 4.4. Abdominal scan reports

10. Pulipani Suntharavarathachchariyar. Panchapatchi saththiram. Thanjavoor: Saraswathy Mahal Library.
11. Concepts in Pathology. Devesh Mishra, Pulse publication.
12. Robbins & Cotran Pathology Basis of Disease. Vinay Kumar, Abdul K. Abbas. John. C. Aster, Relax India (Pvt.) Ltd.
13. Reputed journals related to the above titles

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	: Chikitsai Adippadaithaththuvam - I (Fundamentals	of
	Therapeutics in Siddha - I)	
Subject Code	: CHA 3051	
Year & Semester	: Profession III Semester V	
Credits	: 01	
Status	: Applied Stream (AS)	
A •		

Aim:

To:

- 1. Understand the basic concepts of Chikitsai
- 2. Understanding the applied aspect of Chikitsai

Intended Learning Outcomes:

At the end of this Subject students should be able to know the Chikitsai Adippadai Thaththuvam

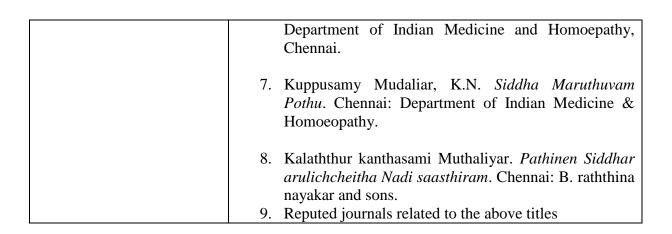
ILO	Os	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
•	Gain thorough knowledge in the basic concepts of <i>Chikitsai</i> (treatment) and its significance	Knowledge	1, 2
•	Able to interpret the basic concepts of <i>Chikitsai</i> with disease based on Siddha system medicine	Skills	3, 4, 5, 8
•	Practise the intervention for the health problem based on the Siddha system medicine	Attitude	9,10,11
•	Explore the knowledge in basic concept of <i>Chikitsai</i> towards Siddha system of medicine	Mindset	12

Content:

- 1. Introduction to Chikitsai adippadai thaththuvam
- 2. Doctor patient relationship
 - 2.1. Duties of a doctor
 - 2.2. Duties of a patient
 - 2.3. The person not eligible to practice as a physician
 - 2.4. Remuneration
- 3. Diseases
 - 3.1. Definition of disease
 - 3.2. Types of diseases
 - 3.3. Numbers of diseases based on anatomical location
 - 3.4. Causes of disease
 - 3.5. Characters of disease based on *mukkuttram*
 - 3.6. Uruppu sooththiram
- 4. Basic concepts of treatment in Siddha medicine
 - 4.1. Significance of *kaappu* and *neekkam*
 - 4.2. Mani, manthiram, and oudatham
 - 5. Marunthuraiyul

- 6. Treatment in Siddha medicine
 - 6.1. Restoration of balance
 - 6.2. Methods of treatment
 - 6.3. General balancing methods of vatham, pitham, and kabham
 - 6.4. General balancing methods of *Agni*
 - 6.5. Days for intake of medicine (Marunthunum naal)
 - 6.6. Naat palan and thithippalan
- 7. Vitiation of tri energy (*muththathukkal*) and its management based on seasonal variation (*paruvakkaalangal*)
- 8. Free form *karma* (*Karma nivarththi*)

Methods of Teaching and Learning:	Methods		Notional Learning Hours
Zeurmig .	1. Seminar	02	
	2. LMS based learn	03	
	3. Self-study using		25
	4. Case Study/Prob		g 02
	5. Virtual/Real Gro	oup Discussion	03
	6. Resource based	Learning	15
	Total		50
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80%	Theory 02
Recommended Readings :	Assessment:		
	Chennai: I Homoeopath 2. Anaivaari R Doctrine, I Homoepathy 3. Shanmugave I. Chennai: Homoeopath 4. Venu gopa Department Chennai. 5. Ganapathy,	Department of lay. . Anandan. A Coperatment of Ing., Chennai. lu, M. Noi nadal not Department of lay, Chennai. l, P.M. Udal of Indian Medical of Indian Medical Company. G. Siddha Marun I). Chennai: Tamil	ompedium of Siddha ndian Medicine and oi mudal nadal thirattu Indian Medicine and Thathuvam. Chennai: ine & Homoeopathy, ththuvam, thoguthi 2 Valarchchi Kazhagam.



Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject title	:	Chikitsai	Adippadaithaththuvam	-	II (Fundamentals	of
, and the second		therapeutic	es in Siddha –II)			
Subject code	:	CHA 3061				
Year & Semester	:	Profession	III Semester VI			
Credits	:	01				
Status	:	Applied St	ream (AS)			

Aim:

To:

- 1. Understand the basic concepts of *chikitasai* based on the Siddha system of medicine
- 2. Identify the *chikitasai* procedures or intervention based on root causes and the *mukkuttraviyal* (pathogenesis) of the disease
- 3. Practice the Siddha *chikitsai* methods towards the disease
- 4. Getting applied knowledge of basic concepts of *chikitasai* based on the Siddha system of medicine

Intended Learning Outcomes:

At the end of this Subject students should be able to know the applied aspect of *Chikitsai Adippadai Thaththuvam*

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
• Gain through knowledge in the basic concepts of <i>Chikitsai</i> (treatment) and its significance	Knowledge	1, 2
Able to interpret the basic concepts of <i>Chikitsai</i> with disease based on Siddha system medicine	Skills	3, 4, 5, 8
Practise the intervention to the health problem based on the Siddha system medicine	Attitude	9,10,11
Explore the knowledge in basic concept of Chikitsai towards Siddha system of medicine	Mindset	12

Content:

- 1. Chikitsai
 - 1.1.Devamaruththuvam
 - 1.2.Manuda maruththuvam
 - 1.3. Asura maruththuvam
- 2. Cleansing therapies in Siddha system basic concepts and significance of cleansing therapy
 - 2.1.*Langanam* fasting therapy
 - 2.2.Elimination by breathing exercise *Vaasi yogam*
 - 2.3. Physical therapy
 - 2.4. *Veppuchikitsai* heat therapy
 - 2.5. Aavi pidiththal fomentation
 - 2.6.Naalvagaiththolilkal
 - 2.6.1. Definition
 - 2.6.2. Procedures

- 2.6.3. Suitable days / starts to conduct *Panchavat kiriyai*
- 2.6.4. Drugs, dietary regimens, and life style
- 2.7.Basic concept of *Panchavat kiriyai* (*Panchakarma*)
 - 2.7.1. Definition
 - 2.7.2. Basic concept of *Panchavat kiriyai* based *mukkuttram*
 - 2.7.3. Procedures
 - 2.7.4. Suitable days / starts to conduct Panchavat kiriyai
 - 2.7.5. Drugs, dietary regimens, and life style
- 3. *Ennai kuzhiyal* (Oil bath)
 - 3.1. Definition
 - 3.2. Basic concept of oil bath
 - 3.3. Procedures
 - 3.4. Suitable oil for the specific diseases and *araippu* (substance used remove the oil)
- 4. Role of dietary and life style pattern
 - 4.1.Based on Yakkaiyin ilakkanam
 - 4.2.Management of disease (imbalance of *muththathu*)
 - 4.3.Paththiyabaththiyam
 - 4.4.Noyanuka vithi

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
Zeurung .	1. Seminar	02	
	2. LMS based learn	ning	03
	3. Self-study using		25
		olem Based Learnin	g 02
	5. Virtual/Real Gro		03
	6. Resource based	-	15
	Total		50
Methods of Assessments :	Methods	Marks	Hours
	Formative	20%	01
	Assessment:		
	Summative	80 %	Theory -02
	Assessment:		
Recommended Readings :	 Sivashanmugarah. S. Pararasasekara vaiththiya moolamum uraiyum part I, II and III. Sidd maruththuva valarchchikalakam, Jaffna, Sri Lanka. Uththamanarayanan K.S. Siddhar aruvai maruththuva Department of Indian medicine and Homeopatl 		
	 Chenai. Guidelines on basic training and safety in panchakarm Department of AYUSH, Ministry of Health and famil welfare. New Delhi, A practical handbook of Panchakarma procedure Central Council for Research in Ayurveda and Siddh New Delhi. 		

- 5. Uthamarayan, K.S. *Siddha Maruthuvanga Churukkam*. Chennai: Department of Indian Medicine & Homoeopathy.
- 6. Anaivaari R. Anandan. A Compedium of Siddha Doctrine, Department of Indian Medicine and Homoepathy, Chennai.
- 7. Shanmugavelu, M. *Noi nadal noi mudal nadal thirattu* I. Chennai: Department of Indian Medicine and Homoeopathy, Chennai.
- 8. Venu gopal, P.M. *Udal Thathuvam*. Chennai: Department of Indian Medicine & Homoeopathy, Chennai.
- 9. Ganapathy, G. Siddha Maruththuvam, thoguthi 2 (adippadaikal). Chennai: Tamil Valarchchi Kazhagam.
- 10. Uththamanarayanan K.S. Thortrakirama arayichchiyum Siddha maruththuva varalaarum, Department of Indian Medicine and Homoepathy, Chennai.
- 11. Kuppusamy Mudaliar, K.N. *Siddha Maruthuvam Pothu*. Chennai: Department of Indian Medicine & Homoeopathy.
- 12. Uthamarayan, K.S. *Siddha Maruthuvanga Churukkam*. Chennai: Department of Indian Medicine & Homoeopathy.
- 13. Kalaththur kanthasami Muthaliyar. *Pathinen Siddhar arulichcheitha Nadi saasthiram*. Chennai: B. raththina nayakar and sons.
- 14. Reputed journals related to the above titles

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	: Samooga Nala Maruththuvam – I (Community Medicine - I)
Subject Code	: SNM 3053
Year & Semester	: Professional III Semester V
Credits	: 03
Status	: Applied Stream (AS)

Aim:

To:

1. At the end of the sessions, the student should be able to explain Primary health care, Nutrition, Epidemiology

Intended Learning Outcomes:

At the end of this course students should be able to know Samooga Nala Maruththuvam in brief

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Definition of <i>Aarogyam</i>	Knowledge	1, 2
Elaborate the usage of statistics	Skills	3, 4, 5, 8
Explain about Nutrition, Hygiene	Attitude	9,10,11
Study about Epidemiology	Mindset	12

Content:

- **1.** Outline the Definition of *Aarogyam*
- 2. Describe the physical, mental and environmental health
- 3. Explain the importance of personal hygiene and its implications on community health.
- 4. Describe the *Thinasariyai* Daily regimen
 - 4.1. Getting up from the bed at early morning Offering prayer, cleaning the face, evacuation, cleaning teeth, tongue scraping, use of nasal drops, chewing, gargles, application of oil on head, oil drops in ears, oil massage.
 - 4.2. Exercise, good effects of exercise, bad effect of excessive exercise, features of correct exercise contraindication of exercise
 - 4.3. Bathing, dress, use of perfumes, use of ornaments, care of hair and nails, use of foot wear, smoking
 - 4.4. Sleep, different types of sleep, Causes of insomnia, measures to induce well sleep
 - 4.5. Sexual act and its contra indications
 - 4.6. Code of general ethics
 - 4.6.1. General conduct
 - 4.6.2. Suitable friends and Unsuitable persons for friendship
- 5. Explain the Paruva kaalangal -Seasonal regiment
 - 5.1. *Uththaraayana* (*Aadaanakaal* or the period of dehydration)
 - 5.2. Dakshinaayana (Visaragakaal or the period of hydration)
 - 5.3. Conduct during different season's effect of seasons on body dietetics and regiment for different seasons.

5.4. Diseases prevailing during summer and rainy season's measures which should be adapted to prevent disease spread.

Part II

- 6. Discus Registration of births and deaths
- 7. Outline Population census
- 8. Explain Population dynamics-fertility, mortality and migration
- 9. Analysis the Vital statistics (fertility and mortality rates)
- 10. Demonstrate the Demographic trends and their implications
- 11. Explain the health services
 - 11.1. History of public health
 - 11.2. Organizational structure of preventive services.
 - 11.3. Role of –MOH/CMO/DDHS.
 - 11.4. S/PHI
 - 11.5. PHNS, PHI and PHM
 - 11.6. Function of health team at clinic and field work.
 - 11.7. The role of village level volunteers and their usefulness to the health team.

12. Nutrition

- 12.1. Define the Nutrition in health and disease
- 12.2. Explain nutritional requirements with reference to target groups-pregnant/ lactation mothers. Infants/children and elderly persons.
- 12.3. Assess the nutritional status of individual/community.
 - 12.3.1. Clinical assessment.
 - 12.3.2. Dietary survey.
 - 12.3.3. Growth monitoring.
- 13. Discuss the Nutritional problem in Sri Lanka.
 - 13.1. Protein energy malnutrition.
 - 13.2. Nutritional anaemia.
 - 13.3. Vitamin A deficiency.
 - 13.4. Iodine deficiency disorder.
 - 13.5. Nutrition education.
- 14. Describe the food beliefs and practices in Sri Lanka.
- 15. Epidemiology
 - 15.1. Explain the Basic Epidemiology
 - 15.1.1. Introductions to epidemiology.
 - 15.1.2. Descriptive epidemiology.
 - 15.1.3. Rates.
 - 15.1.4. Measure of diseases frequency.
- 16. Analysis the measures of risk and association.

- 16.1. Study designs.
- 16.2. Screening tests.
- 16.3. Surveillance.
- 17. Explain the applied Epidemiology
- 18. Discuss the epidemiology and control of communicable diseases of public health importance in Sri Lanka and their prevention.
 - 18.1. Respiratory infections.
 - 18.2. Pertussis
 - 18.3. Diphtheria
 - 18.4. Tuberculosis
- 19. Explain the food and water related diseases
 - 19.1. Shigella infection
 - 19.2. Salmonella (Non-typhoid) infection
 - 19.3. Typhoid
 - 19.4. Cholera
 - 19.5. Amoebic infection
 - 19.6. Viral hepatitis Type A
 - 19.7. Helminthiasis
 - 19.8. Scabies
 - 19.9. Food poisoning
- 20. Discus other common Infectious diseases
 - 20.1. Leprosy
 - 20.2. Malaria
 - 20.3. Filariasis
- 21. Describe the Influenza and other viral fever
 - 21.1. Dengue
 - 21.2. Mumps
 - 21.3. Measles
 - 21.4. Rubella
 - 21.5. Chicken pox
 - 21.6. Polio
 - 21.7. Japanese encephalitis
- 22. Explain about the following institutions regarding community medicine aspect (Field work)
 - 22.1. Water resources board
 - 22.2. Port health (china bay)
 - 22.3. National institute of health sciences
 - 22.4. Slaughter house, waste disposal sites

Methods of Teaching and Learning:	Methods			Notional Learning Hours
	LMS based learning			30
	2. Self-study using study guide		20	
	•	dy/Problem		20
	Learning	•		
	4. Resource bas	sed Learnin	g	20
	5. Presentation		<u>-</u>	10
	6. Assignment			20
	7. Quiz			10
	8. Field visit			20
	Total			150
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %		01
	Assessment	00.0/	TD1	177 11 1
	Summative	80 %	_	d Field work report –03 and 01
Recommended Readings :	Assessment	V Maginil		
Recommended Readings .	1. Thurairasan. K, Noaiyilla neri, Department of Inc Medicine and Homoeopathy, Chennai – 600 106			-
	2. Thirunarayanan .T, <i>Introduction to Siddha Medi</i> Department of Indian Medicine and Homoeop Chennai – 600 106			
		of Indian	-	and Homoeopathy,
		Aedicine, I	Department	ciples of Social and of Indian Medicine
	5. Sirumanavoo tho;T, B.Rat			aliyar, Nehapy;yh
	6. Park, <i>Socie</i> churchill Li	-	reventive 1	nedicine, Elsevier

Subject Title	: Samooga Nala Maruththuvam – II (Community
	Medicine – II)
Subject Code	: SNM 3063
Year & Semester	: Professional III semester VI
Credits	: 03
Status	: Applied Stream (AS)

To:

1. At the end of the sessions, the student should be able to explain Primary health care, Nutrition, Epidemiology

Intended Learning Outcomes:

At the end of this course students should be able to know Samooga Nala Maruththuvam in brief

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
 Definition of Communicable disease, Immunization Learn the nutritional values of traditional foods 	Knowledge	1, 2
 Elaborate Occupational health, Hazards of substance Develop the skill of <i>Yogasanam</i> 	Skills	3, 4, 5, 8
Explain about Health education, Family planning	Attitude	9,10,11
Community care of the disabled	Mindset	12

Content:

- 1. Yogasanam
 - 1.1. Outline the types of Yoga
 - 1.2. Explain the Clinical implication of Yoga
 - 1.3. Apply the meditation in health and disease
- 2. Nutritional value of traditional foods
 - 2.1. Outline the Nutritive value of natural foods
 - 2.1.1. Green leaves
 - 2.1.2. Fruits
 - 2.1.3. Vegetables
 - 2.1.4. Animal fat
- 3. Explain the Siddha Medical preventive care and simple herbal remedies for postpartum period

- 4. Explain the Communicable disease, process of notification and Disease control programs
 - 4.1. Filariasis
 - 4.2. Malaria
 - 4.3. Leprosy
 - 4.4. T.B
 - 4.5. STD and AIDS
 - 4.6. Dengue
 - 4.7. Diarrheal diseases
 - 4.8. Japanese encephalitis
 - 4.9. Rabies
- 5. Discuss the Immunization
 - 5.1. Expanded programme of immunization
- 6. Analyse the control and prevention of dental diseases
- 7. Explain the epidemiology of non communicable diseases / conditions commonly prevalent in Sri Lanka and strategies for prevention
 - 7.1. Cardiovascular disease
 - 7.2. Hypertension,
 - 7.3. CVA
 - 7.4. Rheumatic heart disease
 - 7.5. Diabetes mellitus
 - 7.6. Obesity
- 8. Discus Emerging and remerging diseases
- 9. Elaborate the Environmental, Residential health and Safe water
- 10. Analyze the Pollution of environment and methods of control
- 11. Explain the food hygiene and law governing it
- 12. Discuss the disposal of sewerage/ garbage/ the dead: maintaining sanitation including festival sanitation
- 13. Explain the hazards from environment to human health and their prevention.
- 14. Occupational health
 - 14.1. Outline the Occupational hazards
 - 14.2. Explain the Health problems of workers (occupational and work related disease)
 - 14.3. Outline the Preventive measures
- 15. Hazards of substance

- 15.1. Discuss the Hazards of substance use and methods of prevention and rehabilitation
- 15.2. Smoking
- 15.3. Abuse of alcohol
- 15.4. Other substance abuse

16. Explain the Care of the elders

17. Health education

- 17.1. Analyze the concept and principles of health education
- 17.2. List out the factors influencing human behavior
- 17.3. Explain the communication in health education
- 17.4. Discuss the Organization of health education by the department of health services

18. Maintaining health of target groups

- 18.1. Explain the Care of pregnant and lactating mothers
- 18.2. Elaborate the Mother Child care
- 18.3. Discus the Management of pre -natal problems
- 18.4. Analyze the Care of infants and pre -school children
- 18.5. Explain the care of school children
- 18.6. Define the role of the family health bureau

19. Family planning

- 19.1. Explain the Population dynamics and Sri Lanka policy on population contro
- 19.2. Discuss the effects of family size and spacing on health of family
- 19.3. Analyze the methods of contraception used in Sri Lanka availability and cost / effectiveness
- 19.4. Discuss the management of sub-fertility

20. Community care of the disabled

- 20.1. Categories of disability and disabled persons
- 20.2. List out the Social care services available in Sri Lanka (State / N.G.Os)

21. Identify the Mental health problems in the community

- 22. Manage the community in disaster (Natural and man-made) with relevance to Sri Lanka
- 23. Explain about the following institutions regarding community medicine aspect and field work
 - 23.1. Quarantine camps
 - 23.2. Maternal, child care and family health centers
 - 23.3. Health department of Eastern province and Northern province comparative survey
 - 23.4. NGO's relevant to have community projects

Methods of Teaching and Learning:	Methods			Notional Learning Hours	
	1. LMS based learning			30	
	 Self-study using study guide Case Study/Problem Based Learning 			20	
				20	
	4. Resource base	d Learning		20	
	5. Presentation			10	
	6. Assignment			20	
	7. Quiz			10	
	8. Field visit			20	
	Total			150	
Methods of	Methods	Marks	Hours		
Assessments :	Formative	20 %		01	
	Assessment				
	Summative	80 %	•	Field work report	
	Assessment		-03 and 01		
Recommended	1. Thurairasan. I	•			
Readings :	Medicine and	Homoeopath	ny, Chennai – 60	00 106	
	 Thirunarayanan .T, Introduction to Siddha Medicine, Department of Indian Medicine and Homoeopathy, Chennai – 600 106 Anaivaari R. Anandan, A compendium of Doctrine, Department of Indian Medicine and Homoeopathy, Chennai – 600 106 Anaivaari R. Anandan, Siddha Principles of Social and Preventive Medicine, Department of Indian Medicine and Homoeopathy, Chennai – 600 106 Sirumanavoor Munisaami Muthaliyar, Nehapy;yh tho;T, B.Rathinayaka & Sons Park, Social and preventive medicine, Elsevier churchill Livingstone 			Homoeopathy, of Doctrine, Homoeopathy, of Social and	

Subject Title	: Nanchiyalum Sadda Maruthuvamum – I (Forensic Medicine &
	Toxicology) - I
Subject Code	: NSM 3053
Year & Semester	: Profession III Semester V
Credits	: 03
Status	: Applied Stream (AS)

At the end of the sessions, the student should be able to

- 1. Obtain the knowledge on *Nanju* and *Visham*, classification of poisons, Clinical features, diagnosis, prognosis and treatment of the poisons plants and Thathu nanjukal, metals, corrosive poisons and irritant poisons
- 2. Describe about the different types of Medico –Legal reports, Hurt, Medical education and Forensic psychiatric.

Intended Learning Outcomes:

At the end of this course students should be able to know Nanchiyalum Sadda Maruthuvamum

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Explain about Classification of Poisons, Medical report	Knowledge	1, 2, 5,10,13
Disuss the Medico legal identification of data	Skills	7, 8,11
• Elaborate medico legal aspect of laboratory findings and forensic psychiatric aspect	Attitude	5,10,13
• List out the Duties of doctor in a case of suspected poisoning	Mindset	1, 2, 3, 5,7, 9,11,13

Content:

- 1. Define the *Nanju* and *Visham* and Classification of poisons
 - 1.1. Thavara nanju
 - 1.2. Thathu nanju
 - 1.3. Jangama visham
- 2. Explain the Clinical features, diagnosis, prognosis and treatment of the following poisons plants

2.1. Abrus precatorius	- (Kuntrimani)
2.2. Ricinus communis	- (Aamanaku)
2.3. Papavera somniferae	- (Abin)
2.4. Cannabis sativa	<u>-</u> (Kanja)
2.5. <u>Datura metal</u>	-(Omaththai)
2.6. Croton tiglium	<u>-</u> (Neervalam)
2.7. Stychnus Nux -Vomica	-(Eddi)
2.8. Aconitum ferux	-(Naabi)
2.9. Semicarpus anacardium	-(Serankottai)
2.10. Nerium oliender	-(Alari)
2.11. Nicotiana tobaccum	-(Pukaivilai)

2.12. <u>Capsicum annum</u> - (Milakai) 2.13. <u>Calotropis gigantea</u> - (Erukku) 2.14. <u>Euphorbia antiquorum</u> - (Kalli)

2.15. Gloriosa superba - (Kalapai kizhangu)
2.16. Plumbago zeylanica - (Venkodiveli)
2.17. Argemone Mexicana - (Piramathandu)

3. Describe Clinical features, Diagnosis, prognosis and treatment of the following-Thathu nanjukal (Metal and Mineral)

3.1. Rasam -(Mercury)
3.2. Paashanum -(Arsenic)
3.3. Eyam -(Lead)
3.4. Thaamparam -(Copper)
3.5. Nagam -(zinc)

3.6. *Thurushu* -(Coppersulphate)

3.12. *Vellaipadan*a -(Arsenic trioxide)
3.13. *Ambe*r -(Amber grasea)
3.14. *Kadikkaram* -(Silver nitrate)
3.15. *Pitalai* -(Bronze)

3.16. *Erumbu* -(Iron)

3.17. *Iodine*

3.18. *Appirakam* -(Mica)

- 4. Explain the Corrosive poison
 - 4.1. Sulphuric acid
 - 4.2. Nitric acid
 - 4.3. Hydrochloric acid
 - 4.4. Carbolic acid
 - 4.5. Pottasium Cyanide
- 5. Explain irritant poisons
 - 5.1. Phosphorous
 - 5.2. Antimony
 - 5.3. ergot
 - 5.4. Formalin
 - 5.5. Powdered glasses (Mechanical irritant)
- 6. CNS depressants
 - 6.1 Alcohol
 - 6.2 Hydro carbones

The above topics 1-6 should be taught under the following headings

- I. Rout of administration and elimination, action, diagnosis, principals of management, specimen collection for analysis and circumstances of poisoning in poisons commonly encountered in Sri Lanka.
- II. The national poisons center, legislation relevant to drugs and poison in Sri Lanka
- III. Sources, circumstances of poisoning actions, clinical and pathological stages and post- mortem appearances, managements and antidotes
- 7. Study about following topics according to *Nandeesar Agaala marana nool*, Toxicity due to plants, metals and minerals

- 8. Medical report
 - 8.1. Principals of examination and reporting of an injured person
 - 8.2. The medico- legal Examination form(MLEF), and the Medico –Legal Report(MLR)
 - 8.3. Medical certificate of cause of death,
 - 8.4. Medico- Legal autopsy
 - 8.4.1. Routine procedure
 - 8.4.2. obtaining specimens for special examination,
 - 8.4.3. recording and reporting of findings,
- 9. Medico legal aspect
 - 9.1. Inquirers into deaths and inquest procedure, Doctors role in inquests
 - 9.2. Identify the data which was used for medico legal aspect, Starvation, medical negligence
 - 9.3. Medical education and medical practice
 - 9.4. Duties of doctor in a case of suspected poisoning
 - 9.5. Dying declaration and refusal for treatment
 - 9.6. Medico legal aspect of laboratory findings
 - 9.7. Forensic psychiatric aspect,
 - 9.8. Consent
- 10. Purification of poisonous substance and antidote Preparations(Practical)

Methods of Teaching	Methods	Notional
and Learning:		Learning Hours
	1. Class Room Lecture (CRL)	30
	2. Practical	30
	3. Self-learning	30
	4. Self-directed learning	10
	5. Small group discussion Tutorials (SGDT)	10
	6. Presentation	10
	7. Assignment/ Projects/ Field Reports	05
	8. Case Study/Problem Based Learning(PBL)	20
	9. Quiz	05
	Total	150

Methods of	Methods	Marks	Hours		
Assessments :	Formative Assessme	ent: 20 %	01		
	Summative	80%	Theory 03		
	Assessment:		Practical 01		
Recommended Readings :	<u>o</u>	•	K.SNanchumurivunool.Department of Iomoeopathy, Chennai – 600 106\		
	uththuvamum,	Mohamathuigbal,P.A.Sattamsarnthamaruththuvamumnanjumar uththuvamum, Department of Indian Medicine and Homoeopathy, Chennai – 600 106			
	•	ardena, Forensic Medicin 542, Duplication Road, C			
		iddha Toxicology, Department of Indian Medicin pathy, Chennai – 600 106			
	•		The essential of Forensic Medicine and rothers Medical Publishers		
		nical forensic medicine rasiri, Galle: publishe, 19	1 0,		
		and S.D.Berson, 3rd edition, Edinburg: Churchill Livingstone,			
	8. Medico Legal a L.B.L.DeAlwis,	aspects of injuries. L.B 2007	.L.DeAlwis, Colombo:		
		andeesar Agaala marana i y, Vadapalani, Chennai	nool, Thamarai Printers,		

Subject Title	: Nanchiyalum Sadda Maruthuvamum – II (Forensic Medicine &
	Toxicology) - II
Subject Code	: NSM 3063
Year & Semester	: Profession III Semester VI
Credits	: 03
Status	: Applied Stream (AS)

At the end of the sessions, the student should be able to

- 1. Obtain the knowledge on Food poison, Animal poison
- 2. Study about Injuries, Sexual offence, Death of infants

Intended Learning Outcomes:

At the end of this course students should be able to know Nanchiyalum Sadda Maruthuvamum

ILOs	Core Area	Categories of
		Learning Outcome
		(SLQF, Sep 2015,
		Page 26 -27)
Explain about Food poisoning	Knowledge	1, 2, 5,10,13
Disuss agro chemical poison	Skills	7, 8,11
• Elaborate Snake, Bees, wasp, scorpion and spider	Attitude	5,10,13
• Explain Injuries, Sexual offence, Death of	Mindset	1, 2, 3, 5,7, 9,11,13
infants, Asphyxia, Inquiry of death and report		
writing		

Content:

- 1. Study about following topics according to *Nandeesar Agaala marana nool*, Toxicity due to food, animal and mechanical injuries and offences
- 2. Describe the Food poisoning on the following topics
 - 2.1. Meaning of terms of food poisoning
 - 2.2. Details of bacterial food poisoning
 - 2.3. Postmortem appearance and medico legal aspect of food poisoning
- 3. Identify the agro chemical poisonin
 - 3.1. Classification of agent, properties, mechanism of action, clinical features, diagnosis and management of organophosphate poisoning
 - 3.2. Medico legal aspect of organo chlorine compounds like DDT, Endrin
- 4. Household poisoning
 - 4.1. Cinnamomum camphora (Katpooram)
 - 4.2. Pyrethrines
 - 4.3. Naphthalene(Mothballs)
 - 4.4. Phenol
- 5. Demonstrate the different types of Snake in following heading
 - 5.1. Epidemiology

- 5.2. Identification
- 5.3. Classification
- 5.4. Clinical features of its poison
- 5.5. Management of snake bite poisoning
- 5.6. Postmortem appearance and medico legal aspect of poisoning
- 6. Explain about the Bees, wasp, scorpion and spider

- 7. Injuries
 - 7.1. Explain the head injuries
 - 7.2. Describe thoracic, abdominal, pelvic and spinal injuries
 - 7.3. Differentiate the Injuries of the neck and face
 - 7.4. Explain transportation injuries
- 8. Sexual offence
 - 8.1. Discuss about sexual offence
 - 8.2. Explain abortion
- 9. Death of infants
 - 9.1. Discuss the infanticide
 - 9.2. Explain Sudden infant death
- 10. Asphyxia
 - 10.1. Hanging
 - 10.2. Strangulation
 - 10.3. Throttling
 - 10.4. Choking
 - 10.5. Gagging
 - 10.6. Drowning
 - 10.7. Asphyxial stigmata
 - 10.8. Anesthetic and operative death
- 11. Inquiry of death and report writing
 - 11.1. Scene of crime.
 - 11.2. Inquirers into deaths and inquest procedure, Doctors role in inquests
- 12. Adverse drug reaction
- 13. Hypothermia and hyperthermia
- 14. Burns
- 15. Preparation of antidote forensic Medicine Records (Practical)

Methods of Teaching	Methods	Notional
and Learning:		Learning Hours
	1. Class Room Lecture (CRL)	30
	2. Practical	30
	3. Self-learning	30
	4. Self-directed learning	10

	5. Small group (SGDT)	discussion Tutori	als 10
	6. Presentation	10	
	7. Assignment/ Proje	05	
		Problem Bas	ed 20
	9. Quiz		05
	Total		150
Methods of	Methods	Marks	Hours
Assessments :	Formative Assessment:	20 %	01
	Summative	80%	Theory 03
	Assessment:		Practical 01
Recommended Readings :	Murugesamuthaliyar, Indian Medicine and F		•
	2. Mohamathuigbal,P.A. uththuvamum, Depa Homoeopathy, Chenna	artment of Ind	ththuvamumnanjumar ian Medicine and
	3. HemamalJayawardena, Forensic Medicine & Medical Law. 2nd edition, Author 542, Duplication Road, Colombo 3 Sri Lanka		
	 Jayaraj. P. Siddha Toxicology, Department of Indian Medicine and Homoeopathy, Chennai – 600 106 Narayan Reddy.K.S. The essential of Forensic Medicine and Toxicology, Jaypee Brothers Medical Publishers 		
	6. Textbook of clinical f NiriellageChandrasiri,		nd forensic pathology. 198.
		- 1	. Gordon, H.A.Shapiro Churchill Livingstone,
	8. Medico Legal aspect L.B.L.DeAlwis, 2007	s of injuries. L.B.	L.DeAlwis, Colombo:
	9. Mohan. R. C, Nandees &, NGO Colony, Vada		ool, Thamarai Printers,

Subject Title	: Siddha Maruthuvam- Pothu - I (Medicine-General - I)
Subject Code	: SMP 4073
Year & Semester	: Final Professional Semester VII
Credits	: 03
Status	: Clinical Stream (CS)

At the end of the sessions, the student should be able to describe 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.

Intended Learning Outcomes:

At the end of this Subject students should be able to:

ILC) _e	Core Area	Categories of
ILC	<i>J</i> S	Cole Alea	Learning Outcome
			(SLQF, Sep 2015,
		IZ 1 1	Page 26 -27)
•	Critical thinking for the fundamental importance Siddha Medical knowledge and professional practice	Knowledge	1, 2
•	Understanding the Siddha basic principle and appreciation of current challenges through siddha knowledge		
•	Competent in management of medical problems and medical emergencies		
•	Obtain a relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly		
•	Communicate with patients and family members and obtain a good history	Skills	3, 4, 5, 8
•	Do a complete physical examination		
•	Interpret the signs and symptoms and come to diagnosis or differential diagnosis.		
•	Perform simple investigations in the side laboratory.		
•	Perform basic therapeutic procedures in the ward. Request relevant investigations and interpret the results.		
•	Prescribe necessary treatment and manage patients or refer for specialized care.		
•	Recognize the medical emergencies, manage and	Attitude	9,10,11
	refer them to superiors / for specialized treatment.		
•	Provide appropriate advice to patients during the		
	stay in ward and on discharge and follow up the		
	patients.		
•	Notify the relevant diseases to appropriate authorities.		

•	Communicate to the patient and relatives about the condition of the patient including breaking bad news. Respect the rights and values of patients, different individuals and groups		
•	Ability to respond to the cultural and social context		
•	Demonstrate the qualities required to sustain lifelong learning Able to predict efficacy and adverse effects associated with use of drug	MINDSET	12
•	Understanding of the roles and functions of indigenous health care institutions		

Part I

- 1. *Vatha noi* Vatha diseases
- 2. Pakka vayu Hemiplegia
- 3. *Keel vayu* arthritis
- 4. Neerinai Arukkal noi
- 5. Neerinai Perukkla Noi
- 6. Neerizhivu
- 7. Mega neer

- 1. Diseases of Nervous System
- 2. Endocrinology and Diabetes Mellitus
- 3. Diseases of Immune system, Connective Tissue and Joints
- 4. Diseases of Kidney and Urinary Tract

Methods of Teaching and Learning:	Methods	Notional Learning Hours		
Learning .	Theory		Learning Hours	
	1. Class room lect	ures	20	
	2. Seminar		10	
	3. LMS based lear	rning	10	
	4. Virtual/Real Gr	oup Discussion	10	
	5. Self-directed le	arning	10	
	6. Self-learning		10	
	Clinical Appointm			
	7. Case scenario d	04		
	8. Case presentation	04		
	9. Patient oriented	12		
	10. History taking patients	20		
	11. Self-directed le	arning	20	
	12. Self-Learning	12. Self-Learning		
	Total	150		
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			

	Summative	80%	Theory 03
	Assessment:		Clinical 01
Recommended Readings :	Chennai: The Homoeopathy, C 2. Mohan, R.C. Chennai: The	Directorate of I Govt. Of Tamil Nad Yugimuni Vaidhy	a Chitamani, (Tamil)
	(Tamil) Chennai		Parikaram Part I & II, of Indian Medicine and lu.
	_	<i>Tamil)</i> . Chennai: Th	Noi Nadal, Noi Mudal ne Directorate of Indian
			a sekara vaithiyam, Vazharchi Kazhagam,
	•	Walker, B.R, Ral ctice of Medicine.	ston, S.H. Davidson's
	<u> </u>	evier; 2010. 2. Pr	ice, F.W, Scott, R.B. Medicine.
	8. London: Oxford	University Press; 1	966.
	_	al Medicine. (13	erlain's Symptoms and ed.). London: Hodder
	10. Kumar, P, Clark, Edinburgh: Else		ark's Clinical Medicine.

Subject Title	:	Siddha Maruthuvam -Pothu- II (Medicine -General - II)
Subject Code	:	SMP 4083
Year & Semester	:	Final Professional Semester VIII
Credits	:	03
Status	:	Clinical Stream (CS)

At the end of the sessions, the student should be able to describe 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.

Intended Learning Outcomes:

At the end of this Subject students should be able to:

ILO).	C A	Catalania
IL	Js	Core Area	Categories of Learning Outcome
			(SLQF, Sep 2015,
			Page 26 -27)
•	Critical thinking for the fundamental importance Siddha Medical knowledge and professional practice Understanding the Siddha basic principle and appreciation of current challenges through siddha	Knowledge	1, 2
•	knowledge Competent in management of medical problems and medical emergencies		
•	Obtain a relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly		
•	Communicate with patients and family members and obtain a good history	Skills	3, 4, 5, 8
•	Do a complete physical examination		
•	Interpret the signs and symptoms and come to diagnosis or differential diagnosis.		
•	Perform simple investigations in the side laboratory.		
•	Perform basic therapeutic procedures in the ward. Request relevant investigations and interpret the results.		
•	Prescribe necessary treatment and manage patients or refer for specialized care.		
•	Recognize the medical emergencies, manage and	Attitude	9,10,11
•	refer them to superiors / for specialized treatment. Provide appropriate advice to patients during the stay in ward and on discharge and follow up the patients. Notify the relevant diseases to appropriate authorities.		

•	Communicate to the patient and relatives about the condition of the patient including breaking bad news. Respect the rights and values of patients, different individuals and groups Ability to respond to the cultural and social context		
•	Demonstrate the qualities required to sustain lifelong learning	MINDSET	12
•	Able to predict efficacy and adverse effects associated with use of drug		
•	Understanding of the roles and functions of indigenous health care institutions		

- 8. Pitha Noi/ Pitha diseases Detail study of 40 types of Pitha Noi
- 9. Sura Noi vagai Different types of fever
- 10. Sanni noi Delirium
- 11. Ammai Noi Viral infectious fever
- 12. Suvai inmai Tastelessness
- 13. Seriyamai (Indigestion)
- 14. Neervaetkai-polydipsia
- 15. *Gunmam* Abdominal pain
- 16. Soolai Pain
- 17. Vanthi noi Emesis
- 18. Perunkazhichal noi Diarrhea
- 19. Ninakazhichal noi Bacillary dysentery
- 20. Kaduppu kazhichal Amoebic dysentery
- 21. Oozhi noi Cholera
- 22. *Ulaimaanthai* acute / chronic enteritis
- 23. Kurithi azhal noi Bleeding disorders
- 24. Veluppu noi Anemia
- 25. Kaamalai Jaundice
- 26. *Sobai* Dropsy
- 27. Kudiveri noi Alcoholism
- 28. *Mayakkam* syncope
- 29. Thamaraga noi cardiac diseases

- 1. Febrile Conditions and blood Clinical importance of hyper pyrexia, malaria, dengue, filarial, chikungunya, Anemias, bleeding disorders, leukemia, thalassemia.
- 2. Alimentary Tract, Biliary System diarrhea, dysentery, vomiting, anorexia, gastritis, gastric and duodenal ulcers, pancreatitis, typhoid, colitis, Gastro esophageal Diseases, Mal absorption syndrome, Inflammatory bowel diseases, Ulcerative colitis, Crohn's disease, enteritis, Irritable bowel syndrome, Jaundice, Hepatitis, Alcoholic and non-alcoholic fatty liver disease, Cirrhosis of Liver, Portal hypertension, Ascites, Hepatomegaly
- 3. Cardiac diseases IHD, CCF, fatty heart, hypertension, diseases of arteries and vein

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
9	Theory		9
	Class room lectu	ires	20
	2. Seminar		10
	3. LMS based learn	ning	10
	4. Virtual/Real Gro	oup Discussion	10
	5. Self-directed lea	rning	10
	6. Self-learning		10
	Clinical Appoin	tments	
	7. Case scenario di	scussion	04
	8. Case presentatio	n	04
	9. Patient oriented	lecture (POL)	12
	10. History taking patients	in 20	
	11. Self-directed lea	rning	20
	12. Self-Learning		20
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80%	Theory 03
December 1 d Dec 15 and	Assessment:	1-1: C N C: 1 II	Clinical 01
Recommended Readings :	1. Kuppusamy Mudaliar, C.N. <i>Siddha Maruthuvam, (Tami</i> Chennai: The Directorate of Indian Medicine at Homoeopathy, Govt. Of Tamil Nadu.		
	Chennai: The		ea Chitamani, (Tamil) Indian Medicine and lu.
	(Tamil) Chennai		Parikaram Part I & II, of Indian Medicine and lu.

- 4. Shunmugavelu, *Siddha Maruthuva Noi Nadal, Noi Mudal Nadal Part -II, (Tamil)*. Chennai: The Directorate of Indian Medicine and Homeopathy.
- 5. Sivashanmugarajah, S. *Pararasa sekara vaithiyam*, (*Tamil*), Jaffna, Siddha Maruthuva Vazharchi Kazhagam, Sri Lanka.
- 6. Colledge, N.R, Walker, B.R, Ralston, S.H. Davidson's Principles & Practice of Medicine.
- 7. Edinburgh: Elsevier; 2010. 2. Price, F.W, Scott, R.B. Price's Textbook of the Practice of Medicine.
- 8. London: Oxford University Press; 1966.
- 9. Houghton, A.R, Gray, D. Chamberlain's Symptoms and Signs in Clinical Medicine. (13 ed.). London: Hodder Arnold Publication; 2010.
- 10. Kumar, P, Clark, M.L. Kumar & Clark's Clinical Medicine. Edinburgh: Elsevier; 2009.

Subject Title	:	Siddha Maruthuvam- Pothu - III (Medicine–General - III)
Subject Code	:	SMP 4094
Year & Semester	:	Final Professional Semester IX
Credits	:	04
Status	:	Clinical Stream (CS)

To understand and learn about the 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.

Intended Learning Outcomes:

At the end of this Subject students should be able to:

ILO) _c	Core Area	Categories of
ILC	<i>J</i> 8	Cole Alea	Learning Outcome
			(SLQF, Sep 2015,
			Page 26 -27)
		Vnovdodoo	
•	Critical thinking for the fundamental importance Siddha Medical knowledge and professional practice	Knowledge	1, 2
•	Understanding the Siddha basic principle and appreciation of current challenges through siddha knowledge		
•	Competent in management of medical problems and medical emergencies		
•	Obtain a relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly		
•	Communicate with patients and family members and obtain a good history	Skills	3, 4, 5, 8
•	Do a complete physical examination		
•	Interpret the signs and symptoms and come to diagnosis or differential diagnosis.		
•	Perform simple investigations in the side laboratory.		
•	Perform basic therapeutic procedures in the ward. Request relevant investigations and interpret the results.		
•	Prescribe necessary treatment and manage patients or refer for specialized care.		
•	Recognize the medical emergencies, manage and	Attitude	9,10,11
	refer them to superiors / for specialized treatment.		
•	Provide appropriate advice to patients during the		
	stay in ward and on discharge and follow up the		
	patients.		
•	Notify the relevant diseases to appropriate authorities.		

•	Communicate to the patient and relatives about the condition of the patient including breaking bad news. Respect the rights and values of patients, different individuals and groups Ability to respond to the cultural and social context		
•	Demonstrate the qualities required to sustain lifelong learning	MINDSET	12
•	Able to predict efficacy and adverse effects associated with use of drug		
•	Understanding of the roles and functions of indigenous health care institutions		

- 1. Kapha noi
- 2. Mookkadaippu noi -Sinusitis and Nasal Block
- 3. Kurat kammal -Hoarseness of Voice
- 4. Irumal noi -Cough
- 5. Eraippu noi -Bronchial Asthma
- 6. Elaippu noi Pulmonary Tuberculosis and extra pulmonary diseases

Part II
Respiratory tract disease

Respiratory tract disease							
Methods of Teaching and	Methods	Notional					
Learning:		Learning Hours					
	Theory						
	1. Class room lectu	ires	30				
	2. Seminar	15					
	3. LMS based learn	ning	15				
	4. Virtual/Real Gro	oup Discussion	10				
	5. Self-directed lea	rning	10				
	6. Self-learning		20				
	Clinical Appoir	ntments					
	7. Case scenario di	04					
	8. Case presentation	04					
	9. Patient oriented	12					
	10. History taking patients	in 20					
	11. Self-directed lea	20					
	12. Self-Learning		40				
	Total		200				
Methods of Assessments :	Methods	Hours					
	Formative	01					
	Assessment:						
	Summative	80%	Theory 03				
	Assessment:		Clinical 01				

Recommended Readings:

- 1. Kuppusamy Mudaliar, C.N. *Siddha Maruthuvam*, (*Tamil*), Chennai: The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu.
- 2. Mohan, R.C. *Yugimuni Vaidhya Chitamani*, (*Tamil*) Chennai: The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu.
- 3. Shunmugavelu, *Noikalukku Siddha Parikaram Part I & II*, (*Tamil*) Chennai: The Directorate of Indian Medicine and Homoeopathy, Govt. Of Tamil Nadu.
- 4. Shunmugavelu, *Siddha Maruthuva Noi Nadal, Noi Mudal Nadal Part -II, (Tamil)*. Chennai: The Directorate of Indian Medicine and Homeopathy.
- 5. Sivashanmugarajah, S. *Pararasa sekara vaithiyam*, (*Tamil*), Jaffna, Siddha Maruthuva Vazharchi Kazhagam, Sri Lanka.
- 6. Colledge, N.R, Walker, B.R, Ralston, S.H. Davidson's Principles & Practice of Medicine.
- 7. Edinburgh: Elsevier; 2010. 2. Price, F.W, Scott, R.B. Price's Textbook of the Practice of Medicine.
- 8. London: Oxford University Press; 1966.
- 9. Houghton, A.R, Gray, D. Chamberlain's Symptoms and Signs in Clinical Medicine. (13 ed.). London: Hodder Arnold Publication; 2010.

Subject Title	: Siddha Maruthuvam- Pothu - IV (Medicine-General - IV)
Subject Code	: SMP 4104
Year & Semester	: Final Professional Semester X
Credits	: 04
Status	: Clinical Stream (CS)

Indented Learning Outcomes:

At the end of the Siddha Medicine appointment student should be able to,

- Obtain the knowledge about relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly
- Demonstrate the skills of a physician in Siddha medicine along with the knowledge of contemporary advances in the field of Siddha.
- Apply individualized medicine practice based on Siddha fundamental principles such as Imbootham (five elements), Mukkutram (three humors), Yaakkai ilakkanam (body temperament/constitution), Ninety-six thatwas, and so on.
- Demonstrate diagnosis through "Envagaithervu including Naadi, Neerkkuri and Neikkuri" and treat Noi (disease) and Noi Mudhal (root cause of the disease) simultaneously.
- Prescribe lifestyle modifications and preventive medicine and measures as a part of holistic treatment.
- Communicate effectively with patient's families, colleagues and others.
- Demonstrate a commitment to research and adopt evidence based practice for solving problems
- Recognize the need for multidisciplinary involvement when necessary
- Demonstrate the qualities required to sustain lifelong learning
- Carry out professional responsibilities with adherence to ethical principles and an understanding of the legal implications of practice
- Function as a team member and a leader in an inter professional team to provide safe and effective patient care
- Competent in management of medical problems and medical emergencies
- 1. To demonstrate ability in comprehensive history taking, examination, interpretation and planning of the management of basic medical problems of diseases.
 - 1.1 Procedures
 - 1.2 Line of treatment
 - 1.2.1 Cleansing procedures to normalize affected doshas
 - 1.2.2 Treatment
 - 1.2.2.1 Internal medicine
 - 1.2.2.2 External therapy (if necessary)
 - 1.2.2.3 Varma therapy (if necessary)
 - 1.2.2.4 Yoga therapy (if necessary)
 - 1.2.3 Diet modifications
 - 1.2.4 Rehabilitation
- 2. Investigations
 - 2.1 Envagai thervu
 - 2.2 Manikkadai nool

3. Relevant modern diagnostic techniques – Blood Profiles, ECG, X-ray, CT scan, and Ultrasound scan

Teaching /Learning Methods:

• Hospital-based clinical training -clinical training in OPD and IPD, bedside clinical training, 15 case records

		Time A	Allocation	1
	Teaching/Learnin	ıg	Time allocation	
	Activity			
	2nd appointment			
			as (Peripheral hospital)	
			5 weeks (S.T. H.) 5 weeks (S.T. H.)	
	Ward classes, sem	ninars, case	se presentations, small group	
	discussion, worksh	ops, assign	nments	
Methods of Assessments :	Methods	Marks		Hours
	Formative	20) %	01
	Assessment: Summative 8			
)%	Theory 03
	Assessment:			Clinical 01

Subject Title	:_Siddha Maruthuvam-Sirappu (Kayakarpam, Yoga &
Psychiatric) - I (Medicine – Special - I)	
Subject Code	: SMS 4073
Year & Semester	: Final Professional Semester VII
Credits	: 03
Status	: Clinical Stream (CS)

Aim:

To:

- 1. To provide the knowledge to describe *Katpam, Veri Noikal* with clinical demonstration, their various names, definition, causes, premonitory signs, signs & symptoms.
- 2. To elaborate different types of mental disorders in modern clinical views.

Intended Learning Outcomes:

At the end of this course students should be able to

ILO	<u> </u>	Core Area	Categories of
IL(Os Control of the Con	Coic Alea	Learning
			Outcome (SLQF,
			Sep 2015, Page
			26 -27)
•	To diagnose & manage health and disease relating the normal & deranged structure & function of the human body	Knowledge	1, 2
•	To gain Knowledge about the different types of <i>Siddha Maruthuva</i> m diseases		
•	To outline the different subtypes of <i>Siddha Maruththuva</i> diseases		
•	To recognize the emergency health situations & take preventive measure		
•	To elaborate the <i>siddha aspect of Siddha Maruthuva</i> diseases.		
•	To Analyze the Diseases under Definition, Etiology, sign and symptom and treatment / Management		
•	To carry out research studies in patient care / public health and disseminate the findings To counsel and educate patients and their families with empathy		
•	To apply the knowledge to diagnose and manage <i>Katpam, Veri Noikal</i> and mental disorders.		
•	To demonstrate self-learning in education & practice in Siddha Medical view		
•	Perform the general examination and the systemic examination properly	Skills	3, 4, 5, 8
•	Interact with their colleague during the clinical practice	Attitude	9,10,11
•	Understand and apply the theoritical knowledge in clinical	Mindset	12

Part I

- 5. *Katpam*: Description of different types, prevention, aetiology, signs and symptoms, clinical features, and treatment and management in Siddha view.
 - 1.1. *Katpam*,
 - 1.2. Kayakatpam,
 - 1.3. Vaayutharanai,
 - 1.4. Yogasanam,
 - 1.5.Мирри
 - 1.6.Kirikai Noikal,
 - 1.7. Biramai,
 - 1.8. Unmaatham
 - 1.9. Veri Noi,
 - 1.10. Matha azhivu,
 - 1.11. Kudiveri Noi,
 - 1.12. Maatha Serukku Noikal,
 - 1.13. Vallippu Noikal,
 - 1.14. Moorchai Noikal,
 - 1.15. Apasmaram,
 - 1.16. Soothigavaatha Noikal,
 - 1.17. Kakkaivalippu Noi
- 2. *Veri Noikal*: Description, different types, prevention, aetiology, signs and symptoms, clinical features, and treatment and management of *Veri Noikal* in Siddha view.

Part II

3. Mental Disorders: Description, different types, prevention, aetiology, signs and symptoms, clinical features, and treatment and management of Mental Disorders in Modern aspect.

Methods of Teaching and	Methods	Notional	
Learning:		Learning Hours	
	1. LMS based learn	ning	30
	2. Self-study using	study guide	40
	3. Case Study/Prob	olem Based Learnin	g 30
	4. Resource based	Learning	50
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment		
	Summative	80 %	Theory 03
	Assessment		Clinical 01
Recommended Readings :	Thiyagarajan, R. Siththa man Indiya maruththuvam		11
	thurai,arump	akkam, Chennai.	

- 2. Ramachchandran. S.P, *Pokamunivar varmasooththiram*, Thamarai noolakam, vadapalani, Chennai, 600026.1998
- 3. Kannan rajaram. T.,*Varma odivu murivu maruththuvam*, Vol- 01, A.T.S.V.S. Siththamaruththuvak kalluri, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2010
- 4. Kannan rajaram. T., *A text book of Varmam*. Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu. 2010
- Kannan rajaram. T., Varmamruththuvam (pothu).
 Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2008
- 6. Kannan rajaram. T., Varmapullikalin eruppidam. Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu. 2007
- 7. Jeyavenkadesh. J, (2014), *Akam puram 64*, Sanlaksh publication, Madurai.
- 8. Pudparasu. K.P, (2014), *Thamil maruththuvam- Avasarakala puramaruththuva muraikal part I, Part II*,
 Ravanan pathippakam, Kumari mavaddam,
 Thamilnadu.
- 9. Sanmukam. N, (2016), *Varma maruththuvam adippadai kalvi*,Thirumoolar varmalogy institute, Coimbatore.
- 6. Kanapathy ramakrishnan, (2007), *Yoga kattukollungal*, Nalam, Chennai.
- 7. SriSri yoki sivandha paramahamsha, (2012), *Sooriya* namaskaram Chandra Namaskaram, Kanesha maruthi printers, Bangalore.
- 8. Pon maran, (2016), *Thinamum yoga*, Addone publishing group, Thiruvandha Puram.

9. Kuppusami muthaliyar. K.N, (2006) Siddha vaithiya				
	thiraddu,	Indiya	maruththuvam	homiyopathi
	thurai,arum	pakkam, C	Chennai.	

Subject Title	Faculty of SicSiddha Maruthuvam -Sirappu (External therapy, & Varmam) -II (Medicine-Special - II)	Batch
Subject Code	: SMS 4083	
Year & Semeste	er : Final Professional Semester VIII	
Credits	: 03	
Status	: Clinical Stream	

To:

- 1. To provide the knowledge to describe *Varma Maruththuvam* with clinical demonstration, their various names, definition, causes, premonitory signs, signs & symptoms.
- 2. To elaborate types and subtypes of Varma Maruththuvam

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning
		Outcome (SLQF, Sep 2015, Page 26 -27)
 To diagnose & manage health and disease relating the normal & deranged structure & function of the human body To gain Knowledge about the different types of Siddha Maruthuvam diseases To outline the different subtypes of Siddha Maruththuva diseases To recognize the emergency health situations & take preventive measure To elaborate the siddha aspect of Siddha Maruthuva diseases. To Analyze the Diseases under Definition, Etiology, sign and symptom and treatment / Management To carry out research studies in patient care / public health and disseminate the findings To counsel and educate patients and their families with empathy To apply the knowledge to diagnose and manage Varma Maruththuvam To demonstrate self-learning in education & practice in Siddha Medical view 	Knowledge	1, 2
• Perform the general examination and the systemic examination properly	Skills	3, 4, 5, 8
• Interact with their colleague during the clinical practice	Attitude	9,10,11
Understand and apply the theoretica knowledge in clinical	MINDSET	12

- 1. Varma Maruththuvam
 - 1.1. Description of Varma Maruththuva Noikal,
 - 1.2. Different types
 - 1.3. Prevention
 - 1.4. Aetiology
 - 1.5. Signs and symptoms
 - 1.6. Clinical features
 - 1.7. Treatment
 - 1.8. Management in Siddha view and Modern aspect.

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
3	1.LMS based lear	30	
	2.Self-study using	g study guide	40
	3.Case Study/Pro	blem Based Learnir	ng 30
	4.Resource based	Learning	50
	Total		150
Methods of Assessments :	Methods	Marks	Notional Learning Hours
	Formative	20 %	01
	Assessment		
	Summative	80 %	Theory 03
Recommended Readings :	Assessment		Clinical 01
	maruththuvar Chennai. 2. Ramachchan varmasoothti Chennai, 600 3. Kannan r maruththuvar Siththamarut anjal, kanniy 4. Kannan rajar maruththuva anjal, kanniy 5. Kannan raj	thuvam sirappu, Indiya thurai,arumpakkam, Pokamunivar noolakam, vadapalani, na odivu murivu 01, A.T.S.V.S. munsirai, puthukkadai n, thamilnadu.2010 ok of Varmam. Siddha munsirai, puthukkadai n, thamilnadu.2010 nruththuvam (pothu). eliyeddalar, munsirai,	

- puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2008
- Kannan rajaram. T., Varmapullikalin eruppidam.
 Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2007
- 7. Jeyavenkadesh. J, (2014), *Akam puram 64*, Sanlaksh publication, Madurai.
- 8. Pudparasu. K.P, (2014), *Thamil maruththuvam-Avasarakala puramaruththuva muraikal part I, Part II*, Ravanan pathippakam, Kumari mavaddam, Thamilnadu.
- 9. Sanmukam. N, (2016), *Varma maruththuvam adippadai kalvi*,Thirumoolar varmalogy institute, Coimbatore.
- 10. Kanapathy ramakrishnan, (2007), *Yoga kattukollungal*, Nalam, Chennai.
- 11. SriSri yoki sivandha paramahamsha, (2012), *Sooriya* namaskaram Chandra Namaskaram, Kanesha maruthi printers, Bangalore.
- 12. Pon maran, (2016), *Thinamum yoga*, Addone publishing group, Thiruvandha Puram.
- 13. Kuppusami muthaliyar. K.N, (2006) *Siddha vaithiya thiraddu*, Indiya maruththuvam homiyopathi thurai,arumpakkam, Chennai.

Subject Title	Faculty of Sic Siddha Maruthuvam -Sirappu (Thol Noikal) -III	Batch
	————(Medicine-Special - III)	
Subject Code	: SMS 4093	
Year & Semeste	r : Final Professional Semester VIII	
Credits	: 03	
Status	: Clinical Stream	

To:

- 1. To provide the knowledge to describe *Thol Noikal* with clinical demonstration, their various names, definition, causes, premonitory signs, signs & symptoms.

 2. To elaborate types and subtypes of *Thol Noikal*

Intended Learning Outcomes: At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page
 To diagnose & manage health and disease relating the normal & deranged structure & function of the human body To gain Knowledge about the different types of Siddha Maruthuvam diseases To outline the different subtypes of Siddha Maruththuva diseases To recognize the emergency health situations & take preventive measure To elaborate the siddha aspect of Siddha Maruthuva diseases. To Analyze the Diseases under Definition, Etiology, sign and symptom and treatment / Management To carry out research studies in patient care / public health and disseminate the findings To counsel and educate patients and their families with empathy To apply the knowledge to diagnose and manage Thol Noikal To demonstrate self-learning in education & practice in Siddha Medical view 	Knowledge	1, 2
 Perform the general examination and the systemic examination properly 	Skills	3, 4, 5, 8
 Interact with their colleague during the clinical practice 	Attitude	9,10,11
 Understand and apply the theoritical knowledge in clinical 	Mindset	12

2. Thol Noikal

Description, different types, prevention, aetiology, signs and symptoms, clinical features, and treatment and management of

- 1.1. Kudda Noikal.
- 1.2. Venkutam,
- 1.3. *Sory*,
- 1.4. Sirangu,
- 1.5. Karappan,
- 1.6. Padukkai Pun
- 1.7. Setru Pun
- 1.8. Piththa Vedippu,
- 1.9. Kaal aani,
- 1.10. Naga Suttru,
- 1.11. Akkaram/ Vaaip pun,
- 1.12. Verkuru / Venil kaddi,
- 1.13. Muga Paru,
- 1.14. Thol Varatchi,
- 1.15. Thadippukkal,
- 1.16. Kaanakadi,
- 1.17. Silvida Thadippukal & Sirupaampuk Kadi,
- 1.18. Padar thamarai,
- 1.19. Padai / Themal,
- 1.20. Puzhu Veddu,
- 1.21. *Narai*,
- 1.22. Mayir uthirthal and Vazhukkai,
- 1.23. *Poduku*,
- 1.24. Paalunni,
- 1.25. *Marul*,
- 1.26. Machcham,
- 1.27. Thazhumbu / Meka Thazhumbukal
- 1.28. Ammai koppalam,
- 1.29. Akki,
- 1.30. Kaalanjuka padai
- 1.31. Paenkal. in Siddha view and Modern aspect.

Methods of Teaching and	Methods			Notion	al
Learning:				Learni	ng Hours
	LMS based learning				30
	Self-study using study guide			40	
	Case Study/Problem Based Learning				30
	Resource based Learning			50	
	Total				150
Methods of Assessments :	Methods	Marks	No	tional	Learning
			Ho	ours	
	Formative	20 %		0	1
	Assessment				

Recommended Readings: 1. Thiyagarajan, R. Siththa maruththuvam sirappu, Indiya maruththuvam homiyopathi thurai,arumpakkam, Chennai. 2. Ramachchandran. S.P. Pokamunivar varmasooththiram, Thamarai noolakam, vadapalani, Chennai, 600026.1998 3. Kannan rajaram. T.,Varma odivu murivu maruththuvam, Vol- 01, A.T.S.V.S. Siththamaruththuvak kalluri, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2010 4. Kannan rajaram. T.,A text book of Varmam. Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2010 5. Kannan rajaram. T.,Varmamruththuvam (pothu). Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2008 6. Kannan rajaram. T.,Varmaputlikalin eruppidam. Siddha maruththuva nool veliyeddalar, munsirai, puthukkadai anjal, kanniyakumari mavaddam, thamilnadu.2007 7. Jeyavenkadesh. J. (2014),Akam puram 64, Sanlaksh publication, Madurai. 8. Pudparasu. K.P. (2014), Thamil maruththuvam-Avasarakala puramaruththuva muraikal part I, Part II, Ravanan pathippakam, Kumari mavaddam, Thamilnadu. 9. Sanmukam. N. (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal, Nalam, Chennai.		Summative	80 %	Theory 03
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publication, Madurai. 8. Pudparasu. K.P, (2014), Thamil maruththuvam- Avasarakala puramaruththuva muraikal part I, Part II, Ravanan pathippakam, Kumari mavaddam, Thamilnadu. 9. Sanmukam. N, (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal,		thamilnadu.	2007	
8. Pudparasu. K.P, (2014), Thamil maruththuvam- Avasarakala puramaruththuva muraikal part I, Part II, Ravanan pathippakam, Kumari mavaddam, Thamilnadu. 9. Sanmukam. N, (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal,		7. Jeyavenkade	esh. J, (2014), <i>Akan</i>	n puram 64, Sanlaksh
Avasarakala puramaruththuva muraikal part I, Part II, Ravanan pathippakam, Kumari mavaddam, Thamilnadu. 9. Sanmukam. N, (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal,		publication,	Madurai.	
Ravanan pathippakam, Kumari mavaddam, Thamilnadu. 9. Sanmukam. N, (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal,		8. Pudparasu.	K.P, (2014), T	hamil maruththuvam-
Thamilnadu. 9. Sanmukam. N, (2016), <i>Varma maruththuvam adippadai kalvi</i> , Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), <i>Yoga kattukollungal</i> ,		Avasarakala	a puramaruththuva i	muraikal part I, Part II,
 Sanmukam. N, (2016), Varma maruththuvam adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. Kanapathy ramakrishnan, (2007), Yoga kattukollungal, 		Ravanan	pathippakam,	Kumari mavaddam,
 adippadai kalvi, Thirumoolar varmalogy institute, Coimbatore. 10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal, 		Thamilnadu		
Coimbatore. 10. Kanapathy ramakrishnan, (2007), <i>Yoga kattukollungal</i> ,		9. Sanmukam.	N, (2016), V	arma maruththuvam
10. Kanapathy ramakrishnan, (2007), Yoga kattukollungal,		adippadai	kalvi,Thirumoolar	varmalogy institute,
		Coimbatore		
Nalam, Chennai.		10. Kanapathy r	amakrishnan, (2007), Yoga kattukollungal,
		Nalam, Che	nnai.	

- 11. SriSri yoki sivandha paramahamsha, (2012), *Sooriya* namaskaram Chandra Namaskaram, Kanesha maruthi printers, Bangalore.
- 12. Pon maran, (2016), *Thinamum yoga*, Addone publishing group, Thiruvandha Puram.
- 13. Kuppusami muthaliyar. K.N, (2006) *Siddha vaithiya thiraddu*, Indiya maruththuvam homiyopathi thurai,arumpakkam, Chennai.

Subject Title : Siddha Maruthuvam - Sirappu IV (Medicine – Special - IV) : SMS 4103 **Subject Code** Final Professional **Semester** X Year & Semester **Credits** Status : Clinical Stream (CS) Aim:

To:

- 1. At the end of this clinical appointment, the students should be able to,
- 2. Develop the clinical skill in history taking, Physical examination and investigation
- 3. Diagnose the disease and plan the line of management

Intended Learning Outcomes:

At the end of this course students should be able to know

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
 To diagnose & manage health and disease relating the normal & deranged structure & function of the human body To gain Knowledge about the different types of Siddha Maruthuvam diseases To outline the different subtypes of Siddha Maruththuva diseases To recognize the emergency health situations & take preventive measure To elaborate the siddha aspect of Siddha Maruthuva diseases. To Analyze the Diseases under Definition, Etiology, sign and symptom and treatment / Management To carry out research studies in patient care / public health and disseminate the findings To counsel and educate patients and their families with empathy To apply the knowledge to diagnose and manage Katpam, Veri Noikal and mental disorders. To demonstrate self-learning in education & practice in Siddha Medical view 	Knowledge	1, 2
 Demonstrate the skills of a physician in Siddha medicine along with the knowledge of contemporary advances in the field of Siddha. Recognize emergency health situations & take preventive measure Elaborate the Siddha aspect of Surgery and Surgical procedures. 	Skills	3, 4, 5, 8

Analyse the Diseases under Definition, Aetiology,			
sign and symptom and treatment / Management			
 Carry out research studies in patient care / public health and disseminate the findings Counsel and educate patients and their families with empathy Apply the knowledge to diagnose and manage diseases in relation to surgery in Siddha medical view Carry out professional responsibilities with adherence to ethical principles and an understanding of the legal implications of practice Interact with their colleague during the clinical practice 	Attitude	9,10,11	
 Demonstrate self-learning in education & practice in Siddha Medical view Prescribe lifestyle modifications and preventive medicine and measures as a part of holistic treatment. Recognize the need for multidisciplinary involvement when necessary Understand and apply the theoritical knowledge in clinical 	MINDSET	12	

To demonstrate ability in comprehensive history taking, examination, interpretation and planning of the management of basic medical problems of diseases.

- 1. Procedures
- 2. Line of treatment
 - 2.1. Cleansing procedures to normalize affected doshas
 - 2.2. Treatment
 - 2.2.1. Internal medicine
 - 2.2.2. External therapy (if necessary)
 - 2.2.3. Varma therapy (if necessary)
 - 2.2.4. Yoga therapy (if necessary)
 - 2.3. Diet modifications
 - 2.4. Rehabilitation
- 3. Investigations
 - 3.1. Envagai thervu
 - 3.2. Manikkadai nool

Relevant modern diagnostic techniques – Blood Profiles, ECG, X-ray, CT scan, and Ultrasound scan

Methods of Teaching and Learning:	Methods	Notional Learning Hours
	Clinical Appointments	150

Formative Assessment		
	20 %	01
Summative Assessment	80 %	Theory 03 Clinical 01
1. Thiyagarajan, R.	Siththa maruththuy	am sirappu, Indiya
maruththuvam hom	iyopathi thurai,arum	pakkam, Chennai.
Thamarai noolakan	ı, vadapalani, Chenn	ai, 600026.1998
· ·		
01, A.T.S.V.S.	Siththamaruththuva	k kalluri, munsirai,
puthukkadai a	njal, kanniyak	umari mavaddam,
thamilnadu.2010		
4. Kannan rajaram.	T.,A text book	of Varmam. Siddha
maruththuva nool	veliyeddalar, munsi	rai, puthukkadai anjal,
kanniyakumari mav	addam, thamilnadu.	2010
5. Kannan rajaram.	T.,Varmamruththu	vam (pothu). Siddha
maruththuva nool	veliyeddalar, munsi	rai, puthukkadai anjal,
kanniyakumari mav	addam, thamilnadu.	2008
6. Kannan rajaram.	T.,Varmapullikalin	eruppidam. Siddha
maruththuva nool	veliyeddalar, munsi	rai, puthukkadai anjal,
kanniyakumari mav	addam, thamilnadu.	2007
7. Jeyavenkadesh. J	, (2014), <i>Akam</i> p	ouram 64, Sanlaksh
publication, Madura	ai.	
8. Pudparasu. K.P, (2	014), Thamil marui	hthuvam- Avasarakala
puramaruththuva	muraikal part I,	Part II, Ravanan
pathippakam, Kuma	ari mavaddam, Than	nilnadu.
9. Sanmukam. N, (2	2016), <i>Varma ma</i>	ruththuvam adippadai
kalvi, Thirumoolar v	armalogy institute,	Coimbatore.
10. Kanapathy ramakri	shnan, (2007), <i>Yoga</i>	kattukollungal, Nalam,
Chennai.		
11. SriSri yoki siva	ndha paramahams	ha, (2012), <i>Sooriya</i>
namaskaram Chand	dra Namaskaram,Ka	nesha maruthi printers,
Bangalore.		
	1. Thiyagarajan, R. maruththuvam hom 2. Ramachchandran. Thamarai noolakam 3. Kannan rajaram. T. 01, A.T.S.V.S. puthukkadai a thamilnadu.2010 4. Kannan rajaram. maruththuva nool kanniyakumari mav 5. Kannan rajaram. maruththuva nool kanniyakumari mav 6. Kannan rajaram. maruththuva nool kanniyakumari mav 7. Jeyavenkadesh. J publication, Madura 8. Pudparasu. K.P, (2 puramaruththuva pathippakam, Kuma 9. Sanmukam. N, (2 kalvi, Thirumoolar v. 10. Kanapathy ramakris Chennai. 11. SriSri yoki siva namaskaram Chana	1. Thiyagarajan, R. Siththa maruththuv maruththuvam homiyopathi thurai,arum 2. Ramachchandran. S.P, <i>Pokamuniva</i> Thamarai noolakam, vadapalani, Chenn 3. Kannan rajaram. T., <i>Varma odivu muriv</i> 01, A.T.S.V.S. Siththamaruththuva puthukkadai anjal, kanniyaku thamilnadu.2010 4. Kannan rajaram. T., <i>A text book</i> maruththuva nool veliyeddalar, munsi kanniyakumari mavaddam, thamilnadu. 5. Kannan rajaram. T., <i>Varmamruththu</i> maruththuva nool veliyeddalar, munsi kanniyakumari mavaddam, thamilnadu. 6. Kannan rajaram. T., <i>Varmapullikalin</i> maruththuva nool veliyeddalar, munsi kanniyakumari mavaddam, thamilnadu. 7. Jeyavenkadesh. J, (2014), <i>Akam p</i> publication, Madurai. 8. Pudparasu. K.P, (2014), <i>Thamil marut puramaruththuva muraikal part I</i> , pathippakam, Kumari mavaddam, Tham 9. Sanmukam. N, (2016), <i>Varma makalvi</i> , Thirumoolar varmalogy institute, 6. 10. Kanapathy ramakrishnan, (2007), <i>Yoga</i> Chennai. 11. SriSri yoki sivandha paramahams <i>namaskaram Chandra Namaskaram</i> , Kanapathy ramakaram, Kana

- 12. Pon maran, (2016), *Thinamum yoga*, Addone publishing group, Thiruvandha Puram.
- 13. Kuppusami muthaliyar. K.N, (2006) *Siddha vaithiya thiraddu*, Indiya maruththuvam homiyopathi thurai,arumpakkam, Chennai.

Subject title	: Kuzhanthai Maruththuvam-I (Paediatrics - I)
Subject code	: KUM 4073
Year & Semester	: Final Professional Semester VII
Credits	: 03
Status	: Siddha Clinical Science Stream (CS)
Aim:	
To	

To:

. Identify the paediatric diseases, diagnosis, treatment and prevention

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

	1 01	
ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Define Growth & development	Knowledge	1,2
Explain the Paediatric Examination	Skills	3,4,5,6,8
Explain the Diet and prevention	Attitude	9,10,11
Application of clinical paediatric	Mindset	12

Content:

- 1. Karuvitthontrum noikal
 - 1.1. Explain the *karuvitthontrum noikal* (sign & symptoms, diagnosis, treatment and the methods to adopt to prevent them).
- 2. Diet and prevention
 - 2.1. Elaborate the Diet of the baby-Breast milk-Complementary food-nutritional.
 - 2.2. Outline the Prevention of children diseases Traditional method.
 - 2.3. Explain the Immunization.
- 3. Akak karana noikal
 - 3.1. Explain the *Mandham* Common G.I.T. infections
 - 3.2. Describe the *Kanai* Primary Complex, common respiratory infection.
- 4. Explain the following diseases
 - 4.1. *Kiranthi*(*Karum kiranthi*, *Senkiranthi*)
 - 4.2. Karappan,
 - 4.3. Karuvappu, Sevvaappu
 - 4.4. Mantham
 - 4.5.Kazhichchal
 - 4.6. Valippu
 - 4.7.Oothal
 - 4.8.Kaamalai

- 4.9. Paandu
- 4.10. Palar kirakathosham
- 4.11. Kendathali kunam& chikichchai
- 4.12. Akkaram
- 4.13. *Thodam*,
- *-Definition, Etiology, sign and symptom and treatment / Management has to be included for the above

Part II

- 5. Growth & development
 - 5.1. Define and Explain the Premature baby.
 - 5.2. Elaborate the growth & development before and after birth & its problem.
 - 5.3.Outline the Period of children.
 - 5.4. Describe the Palar paruvangal.
- 6. Paediatric Examination
 - 6.1. Perform the History taking and Physical examination.
 - 6.2.Demonstrate the New born baby Examination.
 - 6.3. Describe the diseases of Intra uterine Period.

7. Clinical demonstration

7.1.Develop the clinical skill in history taking, Physical examination and investigation

Methods of Teaching and	Methods		Notional
Learning:		Learning Hours	
	1. LMS based lear	30	
	2. Self-study using	study guide	30
	3. Case Study/Prol	olem Based Learnin	ng 30
	4. Resource based		30
	Learning/Preser	ntation	
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment:		
	Summative	80 %	Theory 03,
	Assessment:		Clinical 01
Recommended Readings :	1. Ponnaiyapillai.I,	Pararasasekara	m Palaroganithanam,
	Committee for t	the publication of	Siddha Medical Texts,
	Lanka Siddha Ayurvedic Medical College, 127, Stanley		
	Road, Jaffna(Sri Lanka).		
	2. MurugesaMudaliar. C. S. Balavagadom, Department		
	Indian Medicine and Homoeopathy, Chennai – 600 106		
	3. Pillaipini Maruthuvain, Department of Indian Medici		nt of Indian Medicine
	and Homoeopath	ny, Chennai – 600	106

- 4. Sivasanmugarajah.s, *Kuzhanthai Maruthuvam*, *Sithamaruthuva Vazharchchi kazhakam*, Jaffna, Sri Lanka
- 5. *JeevaRatchamirtham*, Department of Indian Medicine and Homoeopathy, Chennai 600 106
- 6. *AthmaRatchamirtham*, Department of Indian Medicine and Homoeopathy, Chennai 600 106
- 7. Hutchinson,.*Lectures on diseases of Children*,
 Philadelphia: Churchill Livingstone

		•
Subject title	:	Kuzhanthai Maruththuvam-II (Paediatrics - II)
Subject code	:	KUM 4083
Year & Semester	:	Final Professional semester VIII
Credits	:	03
Status	:	Siddha Clinical Science Stream (CS)
Aim:		

Aim:

To:

1. To manage the paediatric diseases and prevention

Intended Learning Outcomes:

At the end of this course students should be able to know pathology in brief

ILOs	Core Area	Categories of
		Learning
		Outcome (SLQF,
		Sep 2015, Page
		26 -27)
Identify the paediatric diseases	Knowledge	1,2
Perform the examination	Skills	3,4,5,6,8
Management of diseases	Attitude	9,10,11
Perform the general and systemic examination	Mindset	12

Content:

Part I - Diseases

- 1. Describe about the
 - 1.1. *Suram*
 - 1.2. Sanni
 - 1.3. Kudatpuzhukkal / Kirumi noai
 - 1.4. Ammai
 - 1.5. Sirangu
 - 1.6. Palavatham
 - 1.7. *Akki*
 - 1.8. Unnakku
 - 1.9. Padarthamarai
 - 1.10. Sooriyavartham, Chanthiravartham
 - 1.11. Ottaithalaivali
 - 1.12. Naamuki noai Naa nattam
 - 1.13. Kakkuvan
 - 1.14. Sevinoai/ Karnika Noaikal
 - 1.15. Mala vatham

- 2. Describe the Diseases of cardiovascular system
- 3. Explain the Diseases of alimentary tract
- 4. Describe the Diseases of urinary tract
- 5. Describe the Disorders of bone and joints
- 6. Explain the Endocrine & metabolic disorder
- 7. Explain the Skin diseases
- 8. Elaborate the Blood disorders

*- Definition, Etiology, sign and symptom and treatment / Management has to be included

Part III - Clinical demonstration

Develop the clinical skill in history taking, Physical examination and investigation

Methods of Teaching and Learning:	Methods		Notional Learning Hours	
Learning .	1. LMS based lea	40		
	2. Self-study usin	40		
	3. Case Study/Pro			
	4. Resource	ed 35		
	Learning/Prese			
	Total 150			
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			
	Summative	80 %	Theory 03	
	Assessment:		Clinical 01	
Recommended Readings :	1. Ponnaiyapill	a1.I,	Pararasasekaram	
	Palaroganithanam, Committee for the publication of			
	Siddha Med	dical Texts, Lank	a Siddha Ayurvedic	
	Medical College, 127, Stanley Road, Jaffna(Sri Lanka).			
	2. MurugesaMudaliar. C. S. <i>Balavagadom</i> , Department of Indian Medicine and Homoeopathy, Chennai – 600 106			
	3. Pillaipini	Maruthuvaṁ, Dep	partment of Indian	
	Medicine and	d Homoeopathy, Ch	ennai – 600 106	
	4. Sivasanmuga	arajah.s, <i>Kuzhar</i>	nthai Maruthuvam,	
	Sithamaruthuva Vazharchchi kazhakam, Jaffna, Sri			
	Lanka			
	5. JeevaRatcha	mirtham, Departme	ent of Indian Medicine	
	and Homoeopathy, Chennai – 600 106			
	6. AthmaRatch	amirtham, Departm	ent of Indian Medicine	
	and Homoeopathy, Chennai – 600 106			
	7. Hutchinson,.	Lectures on dis	eases of Children,	
	Philadelphia	: Churchill Livingst	one	

Subject Title	:_Siroroga Maruththuvam - I (ENT - I)
Subject Code	: SRM 4073
Year & Semester	: Final Professional Semester VII
Credits	: 03
Status	: Clinical Stream (CS)

Aim:

To:

1. Study about the *Vainoikal, Sirasu noikal,* Pharyngeal disorders, Diseases of larynx and Trachea

Intended Learning Outcomes:

At the end of this course students should be able to

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Study about the <i>Vainoikal</i> , <i>Sirasu noikal</i> , Pharyngeal disorders, Diseases of larynx and Trachea	Knowledge	1, 2
Perform the general examination and the systemic examination properly	Skills	3, 4, 5, 8
Diagnose the diseases, manage and refer them to superiors / for specialized treatment.	Attitude	9,10,11
Understand and apply the theoritical knowledge in clinical aspect	Mindset	12

Content:

Part I

- 1. Vainoikal
 - 1.1. Describe about the *Vai noikal-* stomatitis, *thantha noikal*, *earu noikal* (Thanthamoolam)
 - 1.2. List out and explain about the Naakku noikal
 - 1.3. Describe about Uthadu noikal
 - 1.4. Elaborate the *Thondai noikal* (Throat diseases, Hoarseness or loss of voice)

2. Sirasu noikal

- 2.1. Explain about Sirasu noikal
- 2.2. Describe the Kapalanoikal
- 2.3. List out and elaborate the *Moolainoikal*

- 3. Explain about the Diseases of oral cavity and salivary glands-
 - 3.1. Anatomy of Oral Cavity
 - 3.2. Common Disorders of Oral Cavity
 - 3.3. Tumours of Oral Cavity
 - 3.4. Non-neoplastic Disorders of Salivary Glands

3.5. Neoplasms of Salivary Glands

- 4. Pharyngeal disorders
 - 4.1. Describe about the Diseases of pharynx
 - 4.2. Anatomy and Physiology of Pharynx
 - 4.3. Adenoids and Other Inflammations of Nasopharynx
 - 4.4. Acute and Chronic Pharyngitis
 - 4.5. Acute and Chronic Tonsillitis
 - 4.6. Head and neck Space Infections
 - 4.7. Tumours of the Hypopharynx and Pharyngeal Pouch
 - 4.8. Snoring and Sleep Apnoea
- 5. Diseases of larynx and Trachea
 - 5.1. Explain about the Diseases of larynx and trachea
 - 5.2. Anatomy and Physiology of Larynx
 - 5.3. Laryngotracheal Trauma
 - 5.4. Acute and Chronic Inflammations of Larynx
 - 5.5. Congenital Lesions of Larynx and Stridor
 - 5.6. Laryngeal Paralysis
 - 5.7. Benign Tumours of Larynx and Cancer of Larynx
- 6. Perform the general and systemic examination

Methods of Teaching and Learning:	Methods		Notional Learning Hours
	LMS based learning		40
	2. Self-study using study guide		30
	3. Case Study/Problem Based Learning		ed 30
	4. Resource bas	sed Learning	50
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment		
	Summative	80 %	Theory 03
	Assessment		Clinical 01
Recommended Readings :	1. Uthamarayanan, Siddhar <i>Aruvaimaruthuvam</i> , Department of Indian Medicine and Homoeopathy, Chennai – 600 106		
	2. Mohammed Iqbal, Kanmaruthuvam, Department of Indian Medicine and Homoeopathy, Chennai – 600 106		

3. Simson Hall I., Bernard.Colman. H, Diseases of the nose, throat and Ear, elsevier chur chill livingstone
4. Ponnaiya Pillai. Pararasa Chekaram, Jaffna: Saiva pirakasa sayanthira salai.

Subject Title	: Siroroga Maruththuvam- II (ENT - II)	
Subject Code	: SRM 4083	
Year & Semester	: Final Professional Semester VIII	
Credits	: 03	
Status	: Clinical Stream (CS)	

Aim:

To:

1. Study about the *Naasi rogam*, *Kann noikal* (Eye diseases), Ear diseases, Nose and Para nasal sinuses

Intended Learning Outcomes:

At the end of this course students should be able to

IL	Os	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
•	Study about the <i>Naasi rogam, Kann noikal</i> (Eye diseases), Ear diseases, Nose and Para nasal sinuses	Knowledge	1, 2
•	Perform the general examination and the systemic examination properly	Skills	3, 4, 5, 8
•	Diagnose the diseases, manage and refer them to superiors / for specialized treatment.	Attitude	9,10,11
•	Understand and apply the theoretical knowledge in clinical	Mindset	12

Content:

Part I

- 1. Explain about Naasi rogam
- 2. Describe about the following Sevi noikal with internal and external medicines.
 - 2.1. Sevi vatha noi
 - 2.2. Sevi soolai noi
 - 2.3. Sevi sanni noi
 - 2.4. Sevi vippuruthi noi
 - 2.5. Sevi yezhuchi
 - 2.6. Sevi karappan
 - 2.7. Sevi kuttam
 - 2.8. Sevi paru
 - 2.9. Sevi pilavai
- 3. Describe about the Kann noikal (Eye diseases) in following aspects
 - 3.1. 96 eye diseases
 - 3.2. Causes of eye diseases
 - 3.3. Preventive aspect of eye diseases
 - 3.4. Nayanavithy

Part II

4. Explain about the following Ear diseases

- 4.1. Hearing loss
- 4.2. Assessment of vestibular function
- 4.3. Disorders of Vestibular system
- 4.4. Diseases of External Ear
- 4.5. Eustachian tube and its disorders
- 4.6. Disorders of Middle ear
- 4.7. Cholesteatoma
- 4.8. Acute and chronic suppurative otittis media.
- 4.9. Otosclerosis
- 4.10. Facial nerves and its disorders
- 4.11. Meniere's diseases
- 4.12. Tumors of ears
- 4.13. Acoustic Neuroma
- 4.14. Rehabilitation of the Hearing-Impaired
- 4.15. Otalgia (Earache)
- 4.16. Deafness
- 4.17. Tinnitus
- 5. Explain about Diseases of Nose and Para nasal sinuses
 - 5.1. Diseases of external nose and vestibule
 - 5.2. Nasal septum and its diseases
 - 5.3. Acute and chronic Rhinitis
 - 5.4. Allergic rhinitis
 - 5.5. Nasal polypi
 - 5.6. Epistaxis
 - 5.7. Trauma to the Face
 - 5.8. Acute Chronic Sinusitis
 - 5.9. Neoplasms of nasal cavity and Para nasal sinuses

6. Perform the general and systemic examination

Methods of Teaching and Learning:	Methods	Notional Learning Hours	
	1. LMS based l	40	
	2. Self-study us	sing study guide	30
	3. Case Stud	dy/Problem Bas	sed 30
	Learning		
	4. Resource bas	50	
	Total		150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment		
	Summative Assessment	80 %	Theory 03 Clinical 01

Recommended Readings:

- 1. Uthamarayanan, *Siddhar Aruvaimaruthuvam*, Department of Indian Medicine and Homoeopathy, Chennai 600 106
- 2. Mohammed Iqbal, *.Kanmaruthuvam*, Department of Indian Medicine and Homoeopathy, Chennai 600 106
- 3. Simson Hall I., Bernard.Colman. H, *Diseases of the nose, throat and Ear*, elsevier chur chill livingstone
- 4. Ponnaiya Pillai. *Pararasa Chekaram*, Jaffna: Saiva pirakasa sayanthira salai.

Subject Title	: Aruvai Maruthuvam I (Surgery I)	
Subject Code	: ARM 4093	
Year & Semester	: Final Professional Semester IX	
Credits	: 03	
Status	: Clinical Stream (CS)	

Aim:

At the end of the sessions, the student should be able to

- 1. Describe Literary surgical evidences, *Aruvai* procedures in Siddha aspect, *Agni therapy, kaaram, Veekam, Kadikkal, Punkal, Silai Pun, Arpa Viranam, Kiranthi, Moolam, Pouthiram, Meka Kaddikal Yaanaikaal Noi, Kandamaalai,Kalladaippu Noikal, Adi thallal, Nakit katti, vithanai noikal, Ankuri Noikal, Penkuri Noikal and <i>Puttru Noikal* with clinical demonstration, their various names, definition, causes, premonitory signs, signs & symptoms, types and subtypes of it.
- 2. Elaborate different types of Acute Infections, Wounds, Burns, Bone Fracture, Acute Abdomen, Ano rectal diseases and First aid in modern clinical views.

Intended Learning Outcomes:

At the end of this Subject students should be able to:

ILOs		Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
th hu • K in	biagnose & manage health and disease relating the normal & deranged structure & function of the tuman body (Inowledge about the different types of diseases in relation to Surgery.	Knowledge	1, 2
 R pr E St A 	Anowledge about different surgical procedures accognize emergency health situations & take reventive measure alaborate the Siddha aspect of Surgery and surgical procedures. Analyse the Diseases under Definition, actiology, sign and symptom and treatment / Management	Skills	3, 4, 5, 6, 8
• C w • A	Carry out research studies in patient care / public ealth and disseminate the findings counsel and educate patients and their families with empathy apply the knowledge to diagnose and manage iseases in relation to surgery in Siddha medical iew	Attitude	9,10,11
	Demonstrate self-learning in education & practice a Siddha Medical view	Mindset	12

Content:

Part I

11. Literary surgical evidences

- 12. Aruvai (Surgical) procedures
- 13. Asura Maruththuvam
- 14. Veekkam / Thadippu Swelling/ Inflammations
- 15. Kaddikal (Abscess)
- 16. Punkal (Ulcers)
- 17. Silai pun (Sinus ulcers)
- 18. Arpa viranam
- 19. Kiranthi
- 20. Moolam Hemorrhoids
- 21. Pouthiram Fistula
- 22. Meka Kaddikal Tumours
- 23. Yaanaikaal noi
- 24. Kandamaalai
- 25. Kalladaippu Noikal
- 26. Adi thallal
- 27. Nakit katti / (Sthana Vitpuruthi)
- 28. Vithai noikal (Anda rokam)
- 29. Ankuri noikal
- 30. Penkuri noikal
- 31. Puttru noikal

Part II - Modern Aspects

- 1. Acute skin infections
- 2. Wounds
- 3. Burns
- 4. Bone Fracture
- 5. Acute abdomen
- 6. Ano Rectal diseases
- 7. First aid
- 8. Pre and post-operative care
- 9. Hernia
- 10. Renal stones
- 11. Diseases of testis and scrotum
- 12. Neck swelling
- 13. Diseases of artery, vein and lymphatic vessels
- 14. Carcinoma

Methods of Teaching and Learning:	Methods	Notional Learning Hours
	Theory	
	1. Class room lectures	
	2. Small group discussions and tutorials	30
	3. Problem based learning	
	4. Presentation	

	5. Virtual/Real G	oup Discussion	
	6. Assignment	1	
	7. Quiz		
	8. Self-directed le	arning	90
	9. Self-learning		
	Clinical Appointmen	ts	30
	Total		150
Methods of	Methods	Marks	Hours
Assessments :	Formative Assessment		01
	Summative	80%	Theory 03
	Assessment:		Clinical 01
Recommended	1 Uththamaraian	 K.S, Siddhar Aruva	ai Maruththuvam
Readings :			
0	India maruthth	ıvam homiyopathi th	nurai,arumpakkam,
	Chennai.		
	2. Eraththina naya	akar. B, (2006), <i>Thero</i>	ayar thailavarka
	surukkam, Erat	hthinanayakar and so	ons, venkadramatheru,
	kendiththoppu,	Chennai.	
	3. Kuppusami mu	thaliyar. K.N., <i>Siddh</i>	na maruththuvam-
	<i>Pothu</i> , Indiya r	naruththuvam homiy	opathi
	thurai,arumpak	kam, Chennai.	
	4. Thirunarayana	n. T, (2010), <i>Externa</i>	l therapies of Siddha
		er for traditional med	•
	Chennai.		,
		014).Agasthivar Iran	navaithiyam, Thamarai
	noolakam, Che		
	·	O, (2007), <i>Principal</i>	s and practice of
		er Churchill livingst	
		_	ry, Elsevier Churchill
		117), Essemui surge	y, Elsevier Churchill
	livingstone.		

Subject Title	:	Aruvai Maruthuvam II (Surgery II)
Subject Code	:	ARM 4104
Year & Semester	:	Final Professional Semester X
Credits	:	04
Status	:	Clinical Stream (CS)

Aim:

At the end of this clinical appointment, the students should be able to,

- 1. Develop the clinical skill in history taking, Physical examination and investigation
- 2. Diagnose the disease and plan the line of management
- 3. clinical views.

Intended Learning Outcomes:

At the end of this Subject students should be able to:

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
 Obtain the knowledge about relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly Knowledge about the different types of diseases in relation to Surgery. Knowledge about different surgical procedures 	Knowledge	1, 2
 Demonstrate the skills of a physician in Siddha medicine along with the knowledge of contemporary advances in the field of Siddha. Recognize emergency health situations & take preventive measure Elaborate the Siddha aspect of Surgery and Surgical procedures. Analyse the Diseases under Definition, Aetiology, sign and symptom and treatment / Management 	Skills	3, 4, 5, 6, 8
 Carry out research studies in patient care / public health and disseminate the findings Counsel and educate patients and their families with empathy Apply the knowledge to diagnose and manage diseases in relation to surgery in Siddha medical view Carry out professional responsibilities with adherence to ethical principles and an understanding of the legal implications of practice 	Attitude	9,10,11
Demonstrate self-learning in education & practice in Siddha Medical view	Mindset	12

•	Prescribe lifestyle modifications and preventive medicine and measures as a part of holistic	
	treatment.	
•	Recognize the need for multidisciplinary	
	involvement when necessary	

Content:

To demonstrate ability in comprehensive history taking, examination, interpretation and planning of the management of basic medical problems of diseases.

- 3. Procedures
- 4. Line of treatment
 - 2.1. Cleansing procedures to normalize affected doshas
 - 2.2. Treatment
 - 2.2.1. Internal medicine
 - 2.2.2. External therapy (if necessary)
 - 2.2.3. Varma therapy (if necessary)
 - 2.2.4. Yoga therapy (if necessary)
 - 2.3. Diet modifications
 - 2.4. Rehabilitation
- 3. Investigations
 - 3.1. Envagai thervu
 - 3.2. Manikkadai nool
 - 3.3. Relevant modern diagnostic techniques Blood Profiles, ECG, X-ray, CT scan, and Ultrasound scan

Methods of Teaching and Learning:	Methods		Notional Learning Hours	
	Clinical Appointme	nts	200	
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment:			
	Summative	80%	Theory 03	
	Assessment:		Clinical 01	
Recommended Readings :	1. Uththamaraj	an, K.S, Siddhar A	ruvai Maruththuvam,	
	India maruth	India maruththuvam homiyopathi thurai,arumpakkar		
	Chennai.	Chennai.		
	2. Eraththina n	ayakar. B, (2006), <i>T</i>	herayar thailavarka	
	surukkam, E	raththinanayakar ar	nd sons,	
	venkadrama	theru, kendiththopp	u, Chennai.	
	3. Kuppusami muthaliyar. K.N., Siddha maruththuvam			
	Pothu, Indiya maruththuvam homiyopathi			
	thurai,arump	oakkam, Chennai.		

- 4. Thirunarayanan. T, (2010), External therapies of Siddha medicine, Center for traditional medicine and research, Chennai.
- 5. Mokan.R.C, (2014), *Agasthiyar Iranavaithiyam*, Thamarai noolakam, Chennai.
- 6. James Garden. O, (2007), *Principals and practice of Surgery*, Elsevier Churchill livingstone.
- 7. Glive. R.G, (2014), *Essential surgery*, Elsevier Churchill livingstone.

Subject Title	•	Mahalir Maruthuvamum Sool Maruththuvamum	-I		
		Gynaecology & Obstetrics - I)			
Subject Code	:	MMS 4093	MS 4093		
Year & Semester	:	Final Profession Semester IX			
Credits	:	93			
Status	:	Clinical Stream (CS)			

Aim:

To:

- 1. Understand the basic concepts of Sool maruththuvam
- 2. Get practical knowledge in Sool maruththuvam
- 3. Identify the root causes, *mukkuttraviyal* (pathogenesis) and the management of the diseases in *Sool maruththuvam* based on Siddha system of medicine
- 4. Get experience in *Sool maruththuvam*

Intended Learning Outcomes:

At the end of this course students should be able to obtain theoretical and clinical knowledge on *Sool maruththuvam*

ILOs	Core Area	Categories of Learning Outcome (SLQF, Sep 2015, Page 26 -27)
Gain through knowledge in the basic concepts of <i>Sool maruththuvam</i> , root causes and <i>mukkuttraviyal</i> (pathogenesis) of the diseases during pregnancy and its managements, anti natal and postnatal care	Knowledge	1, 2
Able to interpret the pregnancy and investigational findings and diagnosis the disease during pregnancy based on Siddha system medicine	Skills	3, 4, 5, 8
Practise the intervention to the health problem based on the Siddha system medicine	Attitude	9,10,11
Explore the knowledge in <i>Sool maruththuvam</i> towards Siddha system of medicine	Mindset	12

Content:

Part I

Gynecology – Siddha aspect

Detail study of following disorders, its management in Siddha aspect with modern comparison

- 1. Poopu Kolarugal: (Disorders of Menstruation).
- 2. Amennorrhoea Menorrhagia Metrorrhagia Dysfunctional Uterine bleeding Types DD -Management and treatment
- 3. Soothagavali (Dysmenorrhoea) -Siddha and modern concepts—Management and treatment
- 4. Karuppai Adithallal (Displacement of Uterus).Genital prolapse Retroversion chronic inversion. Management and treatment
- 5. Maladu Infertility in Siddha and modern aspects Types, Treatment and Management

- 6. Yoni Rogangal Diseases of the Vagina in Siddha aspect and treatment
- 7. Koopaga Urupugallin azharchi: Infections of the pelvic organs.
- 8. Vellai -(Leucorrhoea) Vulvitis Bartholinitis Vaginitis Cervicitis Endometritis Salpingitis Oophoritis Parametritis Genital Tuberculosis Management and treatment
- 9. Siruneer vega Kolarugal: Urinary problems in Gynecology.
- 10. Maravai kattigal

Nan Maravai Kattigal-Karuppai: Benign lesions of the Uterus. Fibroid – polyps.

– Management and treatment

Nachu Maravai Kattigal- Karuppai: Malignant lesions of the Uterus Cancer of cervix, Uterus and Vagina. – Management and treatment

Nan Maravai Kattigal- Sinaippai- Benign lesions of the ovary.

Nachu Maravai Kattigal – Sinaippai: Malignant Ovarian Tumors. –

Management and treatment

- 11. Nagil Sothanai: Breast Examination Fibro adenoma Carcinoma. Management and treatment
- 12. Contraception in siddha

Part II

Obstetrics – Siddha aspect

- 13. Karu utpaththi
 - 13.1. Analyze the different school of thoughts of *Karu utpathi* (development of embryo) according to Siddha aspect
 - 13.2. Compare with modern science
- 14. Diagnosis methods of *Karrpam* (pregnancy)
 - 14.1. Envagai thervu
 - 14.2. Karpa naadi
- 15. Explain about Sisu jananam (labour) in Siddha aspect
- 16. Elaborate about the *Karpini pathukappu* (antenatal care)
 - 16.1. Karpa ratchani
 - 16.2. Agasththiyar pindautpathti
- 17. Disorders during pregnancy and after the delivery Siddha aspect (detail study of following disorders, its management in Siddha aspect)
 - 17.1. Suronitha kerpa vayu
 - 17.2. Kerppa suram
 - 17.3. Kerpa soolai
 - 17.4. Raththa soolai
 - 17.5. Nithamba soolai
 - 17.6. Kerpa vayu
 - 17.7. Vayittru porumal
 - 17.8. Kerpa kirumi
 - 17.9. Kerpa vippuruthi
 - 17.10. Kerppa punarchi
 - 17.11. Kerppa vanjanai
 - 17.12. Kerppa maruntheedu
 - 17.13. Perumpadu
 - 17.14. Kaya suvatham
 - 17.15. Abana vayu

- 17.16. Kuthirai vali
- 17.17. Mantha vali
- 17.18. Karum kiranthi
- 17.19. Soosika vayu
- 17.20. Vellai saayithal
- 17.21. Kerpini raththam saayithal
- 17.22. Neer kaduppu
- 17.23. Suvatha kaasam
- 17.24. Maarpu puttru
- 17.25. Sool mahotharam
- 17.26. Vanthi
- 18. Intra uterine fetal death Management in Siddha aspect
- 19. Post-natal care (mother and child care) *Thaisei nalan / karpapathin pin paramarippu muraikal*
 - 19.1. Care of the mother and newborn baby
 - 19.2. Special medicines and diet for increase milk secretion

Part III - Gynecology - Modern aspect

- 20. Sexually Transmitted Infections.
 - $Gonorrhoea-Syphilis-AIDS-Hepatitis\ B\ \&\ C-Bacterial\ vaginosis-Trichomonas\ Vaginitis-monilial\ vaginitis-Management\ and\ treatment$
- 21. Urinary Tract Infections Incontinence Fistula Vesico vaginal fistula and Recto vaginal fistula (VVF & RVF). Management and treatment
- 22. Polycystic ovarian Disease (PCOD) Siddha treatment. Follicular cyst Endometrial cyst (Chocolate cyst) Dermoid cyst. Management and treatment
- 23. Post-menopausal bleeding Low backache Dyspareunia Pruritus Vulvae Hirsutism. –Management and treatment Hermaphroditism Turner syndrome, Klinefelter's syndrome- Virilism Management
- 24. Contraception
- 25. Infertility
- 26. Gynaecologic problems from birth to adolescence

Part IV - Obstetrics - Modern aspect

- 27. Physiological changes during pregnancy
 - 27.1. Genital organs
 - 27.2. Breast
 - 27.3. Cutaneous changes
 - 27.4. Weight gain
 - 27.5. Hematological changes
 - 27.6. Cardio vascular changes
 - 27.7. Metabolic changes
 - 27.7.1. Systemic changes
 - 27.7.2. Hormonal changes

- 27.8. Diagnosis of pregnancy
 - 27.8.1. First trimester
 - 27.8.2. Second trimester
 - 27.8.3. Last / third trimester
 - 27.8.4. Differential diagnosis of pregnancy
 - 27.8.5. Investigations
- 27.9. Estimation of gestational age and prediction of expected date of delivery
- 28. Antenatal care
 - 28.1. Procedures at the first visit and examination
 - 28.2. Procedures at the subsequent visits and examinations
 - 28.3. Antenatal advice
 - 28.4. Values of antenatal care
 - 28.5. Pre conceptional counselling and care
- 29.Labour
 - 29.1. Normal labour
 - 29.2. Normal puerperium
- 30. Disorders of pregnancy
 - 30.1. Vomiting
 - 30.2. Hyperemesis gravidarum
 - 30.3. Haemorrhage in early pregnancy
 - 30.4. Abortion
 - 30.5. Ectopic pregnancy
- 31. Multiple pregnancy
- 32. Hydramnios
- 33. Abnormalities of placenta and cord
- 34. Hypertensive disorders in pregnancy
 - 34.1. Pre-eclampsia
 - 34.2. Eclampsia
 - 34.3. Gestational hypertension
- 35. Antepartum Haemorrhage
 - 35.1. Placenta praevia
 - 35.2. Abruptio placenta
 - 35.3. Indeterminate bleeding
- 36. Disorders of amniotic fluid
- 37. Brief study on medical and surgical illness complicating pregnancy
 - 37.1. Haematological disorder
 - 37.2. Heart disorder
 - 37.3. Diabetes mellitus
 - 37.4. Thyroid dysfunction
 - 37.5. Epilepsy
 - 37.6. Tuberculosis

- 37.7. Viral infections
- 38. Brief study on preterm labour and preterm rupture of the membrane
- 39. Intra uterine fetal death
- 40. Malposition, mal presentation and cord prolapse
- 41. Complication of labour
- 42. Abnormalities of the puerperium
- 43. Post-natal care (mother and child care)

Clinical

- 1. Examination of a gynecological patient
 - 1.1. History
 - 1.2. Examination
- 2. Investigation techniques
- 3. Imaging studies
 - 3.1. X-ray, Ultrasonography, Computed Tomography (CT) and Magnetic Resonance Imaging (MRI)
- 4. Methods of obstetrical examination and diagnosis
- 5. Conduct the normal labour preparation of the patient, save perineum, episiotomy, position, septic precautions, delivery of shoulders, ligation of the cord, repair of perineal laceration, placenta examination, retained placenta, care of the baby
- 6. Investigation techniques

			T
Methods of Teaching and	Methods	Notional	
Learning:		Learning Hours	
	6. LMS based learn	ning	30
	7. Self-study using	study guide	50
	8. Case Study/Prob	olem Based Learnin	ng 15
	9. Virtual/Real Gro	20	
	10. Resource based	Learning	35
	Total	-	150
Methods of Assessments :	Methods	Marks	Hours
	Formative	20 %	01
	Assessment		
	Summative	80 %	Theory 03
	Assessment		Clinical 01
Recommended Readings :	moolamum nithanam.Sic Jaffna, Sri La 2. Venugopal. Indian Med Nadu, Chenr 3. Dutta. DC, E	uraiyum part ddha maruththuv anka. P.M., Sool Maruthicine & Homoeophai. DC Dutta's Textbook PEE Bros. Medica	isasekara vaiththiyam I – Kerparoga a valarchchikalakam, huvam, Department of bathy, Govt. of Tamil ok of Obstetrics, Hiralal al Publishers Pvt. Ltd.,

- 4. Prema, *Agathiyar vaithiya chinthamani*, Thamarai noolakam, Chennai
- 5. Kannusami pillai. C. *Chikicha rathina deepam 4000*, Rathnanayagar & sons, Chennai.
- 6. Sanmukavelu. M. Noi naadal noi mudhal nadal Vol.I. Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai.
- 7. Mudaliar and Menon's Clinical Obstetrics, Universities Press Pvt Ltd., Hyderabad.
- 8. Pararasasekaram Kerparoga nithanam
- Venugopal, P.M. Makaleer Maruththuvam,
 Department of Indian Medicine & Homoeopathy,
 Govt. of Tamil Nadu, Chennai,
- Venugopal, P.M. Sool Maruthuvam, Department of Indian Medicine & Homoeopathy, Govt. of Tamil Nadu, Chennai.
- Dutta, D.C. DC Dutta's Textbook of Gynacology, Hiralal Konar, JAY PEE Bros. Medical Publishers Pvt. Ltd.
- 12. Mudaliar and Menon's Clinical Obstetrics, Universities Press Pvt Ltd., Hyderabad.

Faculty of Siddha Medicine Undergraduate Prospectus – 2022/2023 Batch

Subject Title	:	Mahalir	Maruthuvamum	Sool	Maruththuvamum	_	II
		(Gynaeco	logy & Obstetrics	- II)			
Subject Code	:	MMS 410)4				
Year & Semester	:	Final Profession Semester X					
Credits	:	04					
Status	:	Clinical S	tream (CS)				

Intended Learning Outcomes:

At the end of this course students should be able to obtain theoretical and clinical knowledge on *Mahalir Maruthuvamum Sool Maruthuvamum*

Clinical Appointment

- Obtain the knowledge about relevant history in order to compose a rational differential diagnosis, with the intention of selecting appropriate diagnostic tool, and manage accordingly
- Demonstrate the skills of a physician in Siddha medicine along with the knowledge of contemporary advances in the field of Siddha.
- Demonstrate diagnosis through "Envagaithervu including Naadi, Neerkkuri and Neikkuri" and treat Noi (disease) and Noi Mudhal (root cause of the disease) simultaneously.
- Prescribe lifestyle modifications and preventive medicine and measures as a part of holistic treatment.
- Communicate effectively with patient's families, colleagues and others.
- Demonstrate a commitment to research and adopt evidence based practice for solving problems
- Recognize the need for multidisciplinary involvement when necessary
- Demonstrate the qualities required to sustain lifelong learning
- Carry out professional responsibilities with adherence to ethical principles and an understanding of the legal implications of practice
- Function as a team member and a leader in an inter professional team to provide safe and effective patient care
- Competent in management of medical problems and medical emergencies

Content

- 4. To demonstrate ability in comprehensive history taking, examination, interpretation and planning of the management of basic medical problems of diseases.
 - 4.1 Procedures
 - 4.2 Line of treatment
 - 4.2.1 Cleansing procedures to normalize affected doshas
 - 4.2.2 Treatment
 - 4.2.2.1 Internal medicine
 - 4.2.2.2 External therapy (if necessary)
 - 4.2.2.3 Varma therapy (if necessary)
 - 4.2.2.4 Yoga therapy (if necessary)
 - 4.2.3 Diet modifications
 - 4.2.4 Rehabilitation
- 5. Investigations
 - 5.1 Envagai thervu
 - 5.2 Manikkadai nool

5.3 Relevant modern diagnostic techniques – Blood Profiles, ECG, X-ray, CT scan, and Ultrasound scan

Methods of Teaching and Learning:	Methods	Notional Learning Hours		
	Clinical Appointmen	200		
Methods of Assessments :	Methods	Marks	Hours	
	Formative	20 %	01	
	Assessment			
	Summative	80 %	Theory 03	
	Assessment		Clinical 01	

 Course Specification (Lesson Plan) of each course unit consist of intended learning outcomes (ILOs) for the course, course contents, teaching-learning methods, assessment methods and recommended readings.

6. ADDITIONAL FACILITIES

6.1. LIBRARY FACILITIES



The main library is the central information center of Trincomalee Campus which offers range of reading materials resources & services to support students' academic activities of the Faculty of Siddha Medicine. The Library offers the service books for lending and reading. The journals, encyclopedias, newspapers, e-Journals, and in-house photocopy services at reasonable rate are available for students and staff.

Library hours

- Scheduled Reference Section 9.00 am to 03.45 pm (Monday Friday)
- Periodical Section 8.30 am to 4.00 pm (Monday Friday)
- Permanent Reference Section 8.30 am to 6.00 pm (Monday Friday) and 8.30 am to
 4.30 pm (Saturday)
- Lending Section 8.30 am to 3.30 pm (Monday Friday)

6.2. CENTER FOR INFORMATION TECHNOLOGY



A full-fledged Center for Information and Communication Technology is functioning at the Campus. Students can access general IT facilities at the IT laboratory which provides students with opportunities for computer assisted learning. BSMS curriculum offers a course on information Technology during the 2^{nd} profession to familiarize students with information technology.

6.3. CAREER GUIDANCE UNIT

The career Guidance Unit, established at the time of commencement of the Trincomalee Campus has been carrying out a great deal of services in developing undergraduates' knowledge, skills, attitude, and professionalism for the new millennium.

Objective

- To help undergraduates to choose and proceed on an optimal career path based on the students' ability, desire and available opportunities.
- To help undergraduates obtain an orientation to the employment sector and develop transferable skills such as effective communicable skills, leadership skills, team work force.
- To liaise with private and public sector organizations to find out about existing job opportunities bring them to the notice of graduates and direct the most suitable applicants to such organization.

6.4. GENDER EQUITY / EQUALITY CELL (GEE)

Ragging on campus is a legal offense, social abomination, and public health hazard. Violence on campus, Sexual and gender-based violence refers to acts that harm or threaten based on one's gender and/or sexuality and includes practices such as sexual harassment and domestic violence. The University Grants Commission (UGC) has recognized the need to address these deep-rooted issues and has established the Centre for Gender Equity / Equality (GEE) in October 2015 to create socially and gender-sensitive university sub-cultures. This will allow students and staff to pursue their studies and work without discrimination or oppression. The UGC – GEE Centre will be managed directly under the UGC Standing Committee for Gender Equity / Equality.

6.5. STUDENTS' HOSTELS



Trincomalee Campus was established as a residential Campus. It maintains 05 hostels within its premises. There are two male hostels and three female hostels for residential purpose of students of Trincomalee Campus. The Trincomalee campus was originally planned as an entirely residential facility. Due to the increased intake of students in recent years, residential facilities cannot be provided to all the students. Hence, the hostel accommodation provides 1st and final year students since 2023. However, more than 1200 students are accommodated in all these 05 hostels based on their eligibility for accommodation.

The administration of hostel affairs is assigned to Student Affairs Division. Academic wardens from the senior academic staff are appointed in charge of the organization and maintenance of discipline in the hall of residence. They are assisted by permanent sub-wardens and part time academic sub-wardens.

6.6. HEALTH CENTRE



Health centre has been functioning since 2008. The health Centre, headed by the University Medical Officer, provides preventive and curative health care to the University community including non-resident students and employees. Campus Medical Centre opens weekdays except public holidays.

In addition, the students seek medical care at the Teaching Hospital of Siddha Medicine, Konesapuri which is near to the Trincomalee Campus.

6.7. SPORT FACILITIES AND RECREATION



The Trincomalee Campus Physical Education Unit was established in November 2016. The Physical Education Unit organizes the following activities:

- Inter faculty fresher's championship.
- Inter faculty fresher's-Senior's championship.
- Inter faculty championship.
- (Invites / Open) University games
- Leadership program
- Fitness activity (Gym)

Recreation Centre

The two-story Recreation centre built in 2013 with Indoor games facilities, Gymnasium, and badminton coat. Presently Physical Education Unit is functioning in that building. In addition to that three stored canteen have one floor for Recreational common gathering place for students which provides facilities to have cultural and religious activities, symposia, discussions, and guest lectures.



6.8. FINANCIAL ASSISTANCE

Mahapola and bursary Scholarships are awarded to students. In every admission year, students who satisfy the eligibility criteria are selected by University Grants Commission for the Mahapola Scholarships. Likewise, the Bursary Scholarship is awarded to students who satisfy the eligibility criteria, and the Bursary Scholarship form is issued to the students during student registration.

6.9. BANKING FACILITIES

A mobile banking service of Peoples Bank operates within the Campus premises 3 days per week. The students receive their Mahapola Scholarship instalments through this branch. In addition, the Bank of Ceylon ATM/CDM machine function at the entrance of the Campus.

6.10. CAFETERIA



The catering services provide through the well-structured and established canteens located in Trincomalee Campus premises which cater the needs of students & staff where obtain food & beverages at reasonable prices.

6.11. COMMERCIALIZATION OF RESEARCH INVENTION (UBL)

University Business Linkages (UBL) Cell was initiated in Eastern University, Sri Lanka with collaboration of GIZ Small and Medium Enterprises (SME) Development Programme with the approval of the University Grants Commission of Sri Lanka. The main role of UBL cell, which is to be formally established in the University, will coordinate and act as the interface with private sector of Eastern Province. Business Facilitation and support, analysis, strategy design,

organization, documentation, planning and monitoring of UBL portfolio, were identified as the future responsibilities. The cell facilitates the students to commercialize his/her valuable inventions when it channels properly through his/her supervisors.

6.12. CICL – WORK WITH COMMUNITIY AND INDUSTRY

Center for Industry and Community Linkage (CICL) established in February 2022 and Unit for Industry and Community Linkage established September 2022 at Campus. Which is a unique featured institution where the university connects and bridge (between community) academic as well as undergraduate having their expertise to be disseminated among the concurrent society for its wellbeing for the last two to three decades. Issues of comprehensive day today life accumulated as problems and fortunately university has the capacity to facilitate for solutions. Therefore, this center CICL will work as a hub to connect solutions for problems. Where university merged within the community here the research influences the development, and the expectation is to commercialize.

This is where the industry comes to support economics of the same community. Technical knowledge and skill will be interpreted via CICL for community's industrialization. The functionality of CICL will be across the faculties, institutes, and campus in a multidisciplinary approach.

6.13. LEARNING MANAGEMENT SYSTEMS (LMS)

The FSM has introduced online Learning Management System recently. The academics use this system to upload content of the courses enabling the students to engage in independent learning.

The LMS provides an online platform for academic administration and allows students to enroll for courses, access lecture notes / study materials, and view results of examinations, notices and announcements posted by the teaching panel. In addition, students can view their personal information by visiting their student profile in the LMS such as registration date, degree completion date, etc.

The student profile displayed in the LMS can be edited only by the relevant authorities. Every student should check the information displayed in his / her LMS account and any inaccurate information should be informed to the registration branch of the Centre for Information Technology.

7. EXAMINATION RULES, OFFENCES, PUNISHMENTS AND LEGAL PROCEDURES

Given below are the Procedures for conduct of Examination recommended by the 336th meeting of the Senate and approved by the 325th meeting of the Council of the Eastern University, Sri Lanka.

7.1. EXAMINATION RULES

- 1. Candidates shall be in attendance outside the examination hall at least 15 minutes before the commencement of each paper but shall not enter the halls until they are requested to do so by the supervisor.
- 2. On admission to the hall, a candidate shall occupy the seat allotted to him / her and shall not change it except on the specific instructions of the supervisor.
- 3. No candidate shall be admitted to the examination hall for any reason whatsoever after the expiry of half an hour from the commencement of the examination. Nor shall a candidate be allowed to leave the hall until half an hour has lapsed from the commencement of the examination or during the last 15 minutes of the paper.
- 4. Candidates shall have their Student Record Book, Student Identity Card and Admission Card with them in the examination hall on every occasion they attend for a paper / an exam. The candidature is liable to be cancelled if a student does not produce the Student Record Book. If a candidate fails to bring his / her record book on any occasion, he / she shall sign a declaration in respect of the paper for which he / she had not produced the record book in the form provided for it and produce the record book on the next occasion when he / she appears for the examination. The presentation of the Record Book thus, should be documented on the declaration form. The declaration forms shall be checked by the DR / SAR / AR of the faculty before the release of results.
- 5. If it is the last paper or the only paper, he / she is sitting, they shall produce the record book to the DR / SAR / AR of the faculty on the following day and get the documentation on the declaration form. [5] If a candidate loses his/her record book in

the course of the examination; he/she may present his / her Student Identity Card and shall obtain a duplicate record book from the DR / SAR / AR of the faculty, for producing at the examination hall.

- 6. No candidate shall have any notes, signs, formulae, mobile phones, smart watches, other communication devices or any other unauthorized documents on his person, in his clothes, on the admission card, time table or record book. Books, notes, parcels, hand bags, mobile phones, other information and communication devices etc. which a candidate has brought with him / her should be kept at a place indicated by the Supervisor / Invigilator.
- 7. A candidate may be required by the supervisor to declare any item in his possession or person.
- 8. No candidate shall copy or attempt to copy from any book or paper or notes or similar material or from the scripts of another candidate. Nor shall any candidate either help another candidate or obtain help from another candidate or any other person. Nor shall any candidate conduct himself so negligently that an opportunity is given to any other candidate to read anything written by him/her or to watch any practical examination performed by him. Nor shall any candidate use any other unfair means or obtain or render improper assistance at the examination.
- 9. No candidate shall submit a practical or field book or dissertation or project study or answer script, which has been done wholly or partly by anyone other than the candidate himself.
- 10. Candidate shall bring their own pens, ink, mathematical instruments, erasers, pencils, or any other approved equipment or stationary, which they have been instructed to bring.
- 11. Examination stationery (i.e., writing paper, graph paper, drawing paper, ledger paper, précis paper etc.,) shall be supplied as and when necessary. No sheet of paper or answer book supplied to a candidate may be torn crumpled, folded or otherwise mutilated. No paper other than those supplied to him / her by the supervisor / invigilator shall be used by candidates. Log tables or any other material provided shall be used with care and

- left behind on the desk. All the material supplied, whether used or unused, shall be left behind on the desk and not removed from the examination halls by the candidate.
- 12. Every candidate shall enter his / her index number on the answer book and on every continuation paper. He/she shall also enter all necessary particulars as indicted in the cover of the answer book. A candidate who inserts on his script and index number other than his own is liable to be considered as having attempted to cheat. A script that bears no index number or an index number, which cannot be identified, is liable to be rejected. No candidate shall write his name or any other identifying mark on the answer script.
- 13. All calculations and rough work shall be done only on paper supplied for the examination and shall be cancelled and attached to the answer script. Such work should not be done on admission cards, timetables, question papers, record books or on any other paper. Any candidate who disregards these instructions runs the risk of being considered as having written notes or outline of answers with the intention of copying.
- 14. Any answer or part of an answer, which is not to be considered for the purpose of assessment, shall be neatly crossed out. If the same question has been attempted in more than one place the answer or answers that are not to be counted shall be neatly crossed out.
- 15. Candidates are under the authority of the supervisor and shall assist him / her by carrying out his instructions and those of his invigilators, during the examination and immediately before and after it.
- 16. Every candidate shall conduct himself in the examination hall and its precincts so as not to cause disturbance or inconvenience to the supervisor or his staff or to other candidates. In entering and leaving the hall, he/she shall conduct himself as quietly as possible. A candidate is liable to be excluded from the examination hall for disorderly conduct.
- 17. Candidates shall stop work promptly when ordered by the supervisor / invigilator to do so.
- 18. Absolute silence shall be maintained in the examination hall and its precincts. A candidate is not permitted for any reason whatsoever to communicate or to have any

dealings with any person other than the supervisor/invigilator.

- 19. During the course of answering a paper, no candidate shall be permitted to leave the examination hall temporarily. In case of an emergency, the supervisor / invigilator shall grant him / her permission to do so but the candidate will be under his surveillance.
- 20. No person shall impersonate a candidate at the examination, nor shall any candidate allow himself to be so impersonated by another person.
- 21. Serious note will be taken of any dishonest assistance given to a candidate, by any person.
- 22. If circumstances arise which in the opinion of the supervisor render the cancellation or postponement of the examination necessary, he / she shall stop the examination, collect the scripts already written and then report the matter as soon as possible to the Vice-chancellor / Registrar.
- 23. The supervisor / invigilator is empowered to require any candidate to make a statement in writing on any matter, which may have arisen during the course of the examination, and such statement shall be signed by the candidate. No candidate shall refuse to make such a statement or to sign it.
- 24. No candidate shall contact any person other than the Vice-Chancellor, Dean, Head of the Department or the Registrar regarding any matter concerning the examination.
- 25. Every candidate shall hand over the answer script personally to the supervisor / invigilator or remain in his seat until it is collected. On no account shall a candidate hand over his answer script to the attendant, a minor employee or another candidate.
- 26. Every candidate who registers for an examination shall be deemed to have sat the examination unless he / she withdraws from the examination within the specified period or submits a medical certificate. The illness should be informed to the Dean of the Faculty within 7 days from the date of examination and the hardcopy of a Medical Certificate should reach to the Dean, Faculty of Siddha Medicine within 14 days to consider he / she as the proper candidate for the next attempt of examination. The

Medical Certificate shall be from the University Medical Officer. If this is not possible the Medical Certificate should be obtained from a Government Medical Practitioner, and submitted to the University Medical Officer for the certification.

- 27. When a candidate is unable to present himself for any part / section of an examination, he / she shall notify or cause to be notified this fact to the Assistant Registrar / Senior Assistant Registrar / Deputy Registrar of the faculty immediately and the evidence for the cause as Medical Certificate or any others should be reached as specified in Rule 25 to consider as proper candidate for the next attempt of examination.
- 28. A student who withdraws or absents himself from the examination and submitted the Medical Certificate within the stipulated time frame shall be eligible for classes if he / she completes the requirements needed to award the class.
- 29. No student shall sit an examination, if he / she has exhausted the number of attempts, including the proper and three repeats, and a mercy chance with the approval of Faculty Board, Campus Board and the Senate, that he / she is allowed to sit that particular examination, unless he / she has been granted special permission to do so by the Senate.

7.2 EXAMINATION OFFENCES AND PUNISHMENTS

The Examination Rules mentioned below refer to Examination Rules and Regulation Chapter XI of the Manual of Procedure on Conducting Examination, Eastern University Sri Lanka.

- Any candidate who violates Examination Rule 5 shall be deemed guilty of the offence
 of possession of unauthorized documents and shall be liable to cancellation of his
 candidature from the examination and to any further punishment that the Senate may
 decide upon.
- 2. Any candidate who violates Examination Rule 7 shall be deemed guilty of the offence of copying and shall therefore be liable to cancellation of his candidature from the examination and to be prohibited from sitting any examination of the university for a period of time and to any other punishment that the Senate may decide

- 3. Any candidate who violates Examination Rule 8 shall be deemed guilty of the offence of having cheated at the examination and shall be liable to the cancellation of his candidature from the examination and to be prohibited from sitting any examination of the university for a period of not less than three years and to any further punishment that the Senate may decide.
- 4. Any candidate who is detected removing examination stationary and other material provided for the examination (Rule 10) shall be deemed guilty of an examination offence and shall be liable for punishment including cancellation and / or prohibition from sitting any examination of the university for such period as may be specified by the Senate.
- 5. Any candidate who violates any one or more of the Examination rules 6, 14, 15, 16, 17 or 18 shall be deemed guilty of the offence of disorderly conduct and shall be liable to punishment including cancellation / or prohibition from any examination of the university for such period as may be specified by the Senate.
- 6. Any candidate who violates Examination Rule 19 shall be guilty of the offence of impersonation and shall be liable to cancellation of candidature from the examination and to be prohibited from sitting any examination of the university for a period of not less than 5 years and to any further punishment that the Senate may decide. He / she may also be liable to any punishment under the penal code / criminal law.
- 7. Any candidate who violates Examination Rule 20 shall be guilty of an examination offence and shall be liable to cancellation of candidature from the examination and to any further punishment that the Senate may decide upon.
- 8. Any candidate found aiding and abetting in the commission of any of the above examination offences shall be deemed to have committed that offence and shall be liable to the same punishments.

7.3. LEGAL PROCEDURES FOR VIOLATION OF EXAMINATION RULES

There shall be an Examination Disciplinary Committee of not less than 3 members appointed annually, at the beginning of each Academic Year, by the Senate to enquire into and make recommendations (including punishments) into examination offences referred to it. Members should be from different faculties, to ensure that at least two members are from another Faculty when an inquiry is under process.

7.3.1. PROCEDURE FOR REPORTING OF EXAMINATION OFFENCES AND PUNISHMENT

- 1. In all cases of violation of examination rules (Chapter XI) detected, the Supervisor shall take actions as outlined in this section and forward his report to the DR / SAR / AR of the faculty. The Supervisor's report should be countersigned by one of the invigilators.
- 2. In cases of disorderly conduct the supervisor shall in the first instance warn the candidate to be of good behavior. Disorderly conduct shall be considered grave, only if such conduct in the opinion of the supervisor is considered as causing a disturbance in the conduct of the Examination. Where the candidate persists in unruly or disorderly conduct the supervisor may exclude the candidate from the examination hall and issue him/her a letter with copies to the relevant Dean and DR / SAR Academic Affairs, cancelling his /her candidature from the examination. Where a candidate's offence is only disobedience the supervisor shall warm the candidate and forward a report to Dean and DR / SAR Academic Affairs.
- 3. In all other cases of examination offences detected, the Supervisor shall on the detection of the offence take possession of unauthorized documents if any and obtain a statement from the candidate and write his report on the matter to the Dean of the faculty. Materials taken into custody shall be authenticated by placing the signature of the candidate and the Supervisor/invigilator and the date time and place of detection.
- 4. The Dean after a preliminary inquiry shall place all reports of examination offences submitted by the Supervisors to the Exam Disciplinary Committee for further action.
- 5. Any examiner, Head of Department or any other official of the University who detects an examination offence, shall report the matter in writing to the Dean, who shall call for a preliminary inquiry and place the complaint to the Exam Disciplinary Committee for further action.

7.3.2. FINAL DECISION ON EXAMINATION OFFENCES

1. The punishments recommended by the Examination Disciplinary Committee shall be submitted to the relevant Faculty Board for a decision and be referred to the Senate for ratification.

7.4 APPEALS BOARD

- 1. There shall be an Appeals Board, consisting of three members, appointed by the Vice-Chancellor to consider the decisions made under Section 14.5.
- 2. Any student wishing to appeal against the punishment imposed on them should write to the Vice-chancellor in this regard within two weeks from the date of communication to them.

The vice-chancellor shall consider the appeal and may decide to refer to the Appeals Board. Appeals Board shall either affirm or review the imposed punishment and make recommendation to the Vice- Chancellor.

8. CODE OF CONDUCT FOR SIDDHA MEDICAL STUDENTS

As a Siddha Medical student, you are embarking on a life-long journey of learning to serve the public responsibly. This is an excellent opportunity as you will soon have the chance to heal and care for people in society. The society contributes significantly to your career development not just economically but also through their time and privacy while you learn from their illnesses. Ultimately, becoming a Siddha Medical Practitioner is a life-long commitment which brings high social recognition and vast expectations from your conduct. Achieving this goal will give you the happiness of becoming a good and caring Siddha Medical Practitioner.

8.1. ATTITUDE TOWARDS LEARNING

As a Siddha Medical student, your responsibility for learning goes beyond simply gaining knowledge and skills. You must also cultivate good attitudes and behaviors that are appropriate for a Siddha Medical Practitioner. Additionally, your learning should be continuous and self-reflective throughout your career as a Siddha Medical Practitioner. This involves gaining clinical experience, engaging in wide reading and sharing experiences with others. It is important to work collaboratively with others in a harmonious manner in order to achieve these goals.

8.2. RELATIONSHIP WITH PATIENTS, SOCIETY, TEACHERS & COLLEAGUES

8.2.1. RAPPORT

Establishing authentic and compassionate rapport with patients, instructors and other healthcare professionals is a crucial aspect of providing effective healthcare. Occasionally, such relationships may lead to emotional connections. A better understanding of this dynamic will train you to handle these situations with emotional flexibility and without experiencing significant psychological distress.

8.2.2. UNCONDITIONAL RESPECT AND CARE

As a healthcare professional including as a Siddha Medical Practitioner, it is essential to provide unconditional respect and care to all patients and colleagues, regardless of their social status, attitudes, or behavior. This is a valuable skill that you must cultivate from the outset of your career starting from your undergraduate studies.

8.2.3. COMMUNICATION

Effective communication is an essential component of clinical practice and requires continuous learning and practice to enhance one's natural abilities. To become skilled communicators, healthcare professionals should follow certain guidelines such as avoiding a dominating tone or voice, asking open-ended questions, actively listening and expressing empathy in a humane manner. Moreover, it is important to terminate discussions respectfully to maintain a positive relationship with patients and colleagues. These simple rules can be developed and improved throughout one's career to ensure effective communication in clinical practice.

8.3. MEDITATION

Students must participate in the meditation daily 8.00 a.m. to 8.30 a.m. to increase the learning capacity and to maintain positive attitude which will lead to eminence in medical profession.

8.4. DRESS CODE

In accordance with the rich traditions of our culture and the importance of professionalism in the medical practice, the Faculty of Siddha Medicine must adopt strict clothing guidelines for students.

As future Siddha Medical Practitioner, it is important to dress appropriately and meet the expectations of society. A professional appearance promotes confidence and earns respect. To achieve this, students should follow the rules of simplicity, cleanliness, and modesty.

Medical scrubs or white coats must be always worn in hospitals and laboratories. Males should not wear slippers or sandals, while females should avoid extravagant high heels and excessive makeup. Facial expressions are vital in communication; therefore, covering the face should be avoided.

In case of violation of the dress code the student concerned will be asked to leave the academic session / Examination. If a student repeatedly violates the dress code, strict disciplinary action will be taken against him / her.

8.4.1. RECOMMENDED DRESS CODE

For Males

- Trousers and collared shirts
- Shoes and socks

For Females

- Blouse and skirt (Blouse must extend to the waist band and skirts must extend below the knee level)
- Shalwars
- Abaya
- Sarees
- Formal footwear

8.4.2. STRICTLY PROHIBITED

- T-shirts, shorts, and trousers with extra pockets
- Caps, sports shoes
- Extra body adornment
- Extreme hair styles (e.g., "spiked hair", multicolored, make-up, piercing set)
- Beards
- Revealing clothes such as miniskirts, sleeveless tops etc.
- Wearing concealing clothes that prevent clear identification of the student (the face should be always clearly visible)

8.4.3. DRESS CODE FOR EXAMINATION

	Viva voice Examination	Practical Examination	Clinical Examination
Male	White shirt with Black	White coat	White shirt with Black /
	formal trouser and tie.		formal trouser with white
			coat
Female	White Saree / White	White coat	White Saree / White
	Abaya		Abaya with white coat

8.5. USE OF DRUGS, ALCOHOL AND SMOKING

It is essential to avoid using drugs, consumption of alcohol and smoking is strictly prohibited. Refraining from these habits in your personal life will improve your reputation as a responsible physician.

8.6. CONTINUE TO TAKE PART IN NON-MEDICAL INTERESTS

Nurture and develop your artistic abilities and other talents, as they can be beneficial in your medical profession. Set aside time to engage in these activities and manage your schedule accordingly.

8.7. USE OF MOBILE PHONE

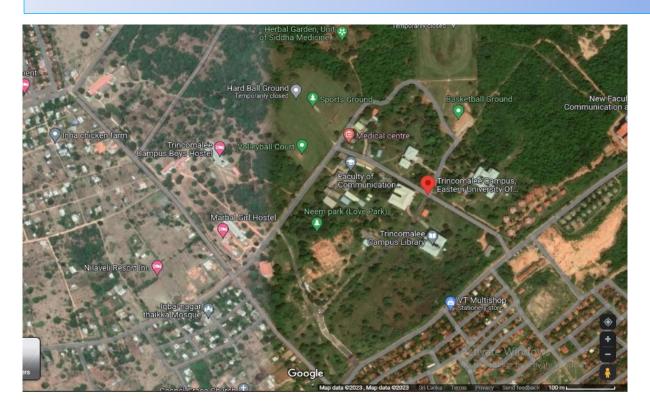
Usage of Mobile phones are strictly prohibited in Lecture halls, Practical halls and Clinical lecture hours and examination halls.

8.8. SIDDHA MEDICAL STUDENT'S PLEDGE

- 1. It is my sincere pledge to strive to obtain the knowledge, abilities and attitudes required to become a skillful Siddha Medical Practitioner to the best of my capabilities.
- 2. I recognize the significance of learning both independently and as a team in partnership with my colleagues and other healthcare professionals.
- 3. I will devote myself to mastering both the scientific principles and the art of Siddha Medicine.
- 4. I acknowledge that I have a responsibility to maintain a way of life that is expected of the medical profession by society.
- 5. I will provide all patients regardless of their social status, attitudes or behavior with unconditional respect and the highest possible level of care.
- 6. I will always maintain professional secrecy while adhering to the principle of sharing information and being aware of my personal limitations in disclosing information.
- 7. During my undergraduate period, I will not identify myself as a Siddha doctor nor pretend to be one.

- 8. I am grateful for the contributions and dedication of patients, teachers, healthcare professionals, my parents, and society at large towards my training and I acknowledge them with appreciation.
- 9. I will never exploit or abuse my relationship with patients for personal gain whether direct or indirect.
- 10. I will strictly adhere to the expected ethical behavior established by the Sri Lanka Ayurveda Medical Council.
- 11. I will comply with the rules and regulations of the society, the Unit of Siddha Medicine and the hospital where I will receive my clinical experience.
- 12. I will always dress appropriately particularly when interacting with patients.
- 13. I will maintain communication with my guardian, family members and unit members and request their assistance when needed.
- 14. I will nurture empathy, effective communication skills and a patient-centered attitude.

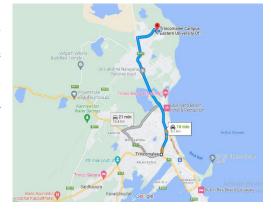
9. ROAD MAP



The Trincomalee Campus is situated in an area of outstanding natural beauty on the

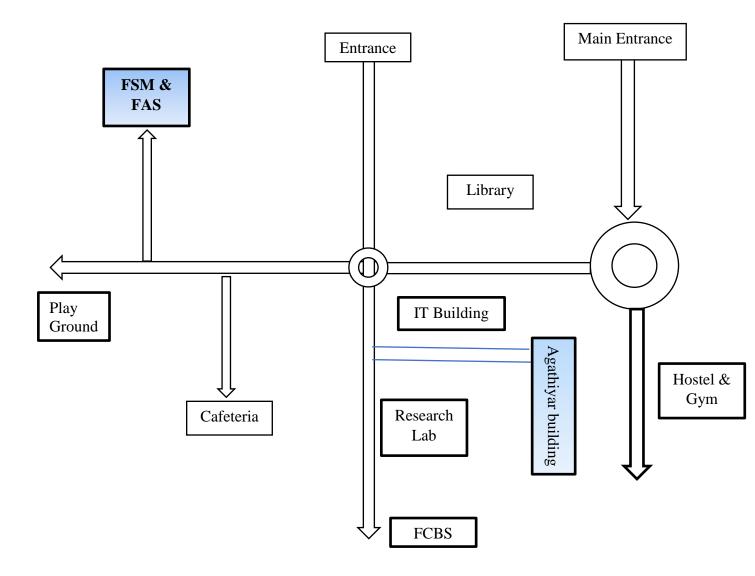
northeastern coast of Sri Lanka, just 10 kilometers from the Trincomalee, the historic Gokanna town and port (Trincomalee-Nilaveli (A6 road)). Access to the Trincomalee Campus premises is through the Nilaveli road, close to the Trincomalee British war cemetery.

The University has ownership rights to about 298 acres of land. The faculties, resident halls,



administrative offices, staff quarters, offices, and centers for extracurricular activities all occupy around 40% of the land.

The Faculty of Siddha Medicine located at the 3rd floor of Faculty of Applied Science. The Faculty of Applied Science is nearly 1 km from the entrance of Trincomalee Campus.



10. SITE MAP

