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UGC  
EXPERT COMMITTEE REPORT  
FOR CONFERMENT OF DEEMED TO BE UNIVERSITY STATUS TO

~~CHETTINAD ACADEMY OF RESEARCH & EDUCATION (CARE)~~  
Rani Seethai Hall, No. 603, Anna Salai, Chennai - 600 006. Tamil Nadu

I. Background of the Institution giving details of teaching, research and extension programme.

CHETTINAD ACADEMY OF RESEARCH & EDUCATION (CARE)

Establishment :

Dr. RAJAH SIR ANNAMALAI CHETTIAR was the person who founded the House of Chettinad in 1912 and established the Annamalai University in 1929 in the backward rural area of Tamil Nadu.

RAJAH MUTHIAH CHETTIAR CHARITABLE & EDUCATIONAL TRUST

The Trust has accomplishment of establishing number of education, academic and research activities.

The Medical Institution which is located at Kelambakkam, a rural area 30 kms. from Chennai in 95 acres of single piece of land adequate for field work, out-reach programmes and out-door & in-door health activities.

a. Location and year of establishment:

(i) CHETTINAD ACADEMY OF RESEARCH & EDUCATION (CARE)  
I.T.Highway, Kelambakkam, Kanchipuram District - 603 103.

(ii) Year of establishment - 30<sup>th</sup> March 2007

A New Trust in the Name of Chettinad Academy of Research & Education (CARE) has been established in 2007.

*Pankaj Kumar*  
*on 10/8/07*  
*Ashutosh Kumar*  
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## 1. Teaching Programmes :

**Medical – MBBS., with Annual intake of 150 students**  
**Nursing – B.Sc., (N) – Annual intake of 50 students**

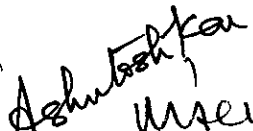
## 2. Academic Activities

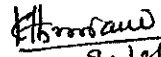
1. Continue Medical Education (CME)
2. Seminars
3. Guest Lecturers
4. Symposium
5. Conference
6. Workshop
7. Work is on progress for Tele Conferencing

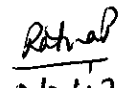
## 3. Research Programmes :

### Research Activities in progress

- Etiology of Pelviureteric Obstruction in children - 30 Cases. (Dr.PV.Hayavadana Rao, Paediatric Surgery)
- Analysis of Biochemical Data for Metabolic Syndrome obtained from master Health check up Patients of Chettinad Hospital & Research Institute (Dr.Malligai et al Biochemistry)
- Etiology of surgical site infections (SSI) at CHRI with special reference to MRSA (Dr.Renu Mathew et al, Microbiology)
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- Maternal antenatal profile and birth weight in new borns (Dr.Jaishree et al, Paediatrics)
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- A comparison of vaginal hysterectomy + BSO Vs Total Abdominal Hysterectomy + BSO (Dr.Javia et al, OBG)
- Comparison and effectiveness of proseal with endotracheal tube for laproscopic procedures (Dr. Jayakar et al, Anaesthesiology)

  
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- TranCept study Roche co. Ltd
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- Epidemiological profile of Snakebite and Treatment seeking behaviour among rural population of Kanchipuram Dist (Dr.Murali et al, Comm. Med)
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- Prevalence of Metabolic syndrome in young women with polycysticovarian syndrome (Dr.Nirmala et al, OBG)

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2. A Comparative evaluation in Museum mounting techniques (using Kaiserling and formalin). (Dr.Archana et al, Anatomy)
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4. Evaluation of opinion on the teaching of pharmacology in undergraduate medical curriculum (Dr.Ruckmini et al, Pharmacology)
5. Evaluation of drug information through mass media (Dr.Ruckmini et al, Pharmacology)

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## 4. Extension Programmes :

Name of the camp conducted	Date	Name of the Block	Name of the Village	Name of place conducted	Total	
OBG Camp	Nov-06	Madras	Besent Nagar	Sree Sai Health Trust	41	
Urban Camp	May-06	Chennai city	Thiruvotriyur		498	
Eye Camp	Nov-06	Tirukazhukundram	Kikilamedu	Primary school	108	
	Dec-06	Thiruporur	Periya Nemmeli	Dharmaraja Koil	37	
School wise Medical camp	Oct-05	Thaiyur	Thaiyur	Primary and Welfare school	160	
	Nov-05	Mahabalipuram	Mahabalipuram	Primary school	144	
	Mar-06	Thiruporur	Vaniyanchavadi	Higher Secondary	867	
	Dec-06	Thiruporur	Thiruporur	Primary school	1030	
	Sep'06	Thiruporur	Kelambakkam, Thiruvindandhai & Therkupattu	Primary school	471	
	Oct-06	Thiruporur & St.Mount	Kottivakkam	Primary School & YMCA	513	
	Nov-06	Thiruporur	KR Kuppam & Kanathur	Primary School & Middle school	472	
	Medical Camps	Oct-05	Thiruporur	Kayar, Kovalam & Mambakkam	Middle & Primary school	842
		Nov-05	Thiruporur	Pudupakkam, Pattipulam & Sembakkam	Primary & Adidravidar School	667
		Dec-05	Kattankulathur & Thiruporur	Keerapakkam, Mullipakkam, Semencheri, Vengoor & Velichai	Primar school, ACDS centre & Community hall	948
Jan-06		Kattankulathur, Thiruporur & Town panchayat	Kandigai, Manamathy & Thiruporur	Community hall, Hr.sec.& Primary school	933	
Feb-06		Thiruporur	Nellikuppam	Ventra Rasiyamman kovil	231	
Mar-06		St.Mount & Thiruporur	Karappakkam, illalur, Alathur 7 Payanoor	Middle & Primary school	853	
Apr-06		Thiruporur & Vadanemeli	Vadanemeli	CSI Church	550	

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June-06	Karumbakkam & Nellikuppam	Karumbakkam & Nellikuppam	Middle school & Community Hall	418
July-06	Orgadam, Semencheri & Meyyur	Orgadam, Semencheri & Meyyur	Middle & Primary school, Tsunami nagar	750
Aug-06	Thiruporur & Thiruporur town panchayat	Thandarai & Thiruporur	CSI & Hr.Sec. School	323
Sep-06	Thirukazhukundram, Thiruporur & St.Mount	Manamai, Navallur, Reddikuppam & Kottivakkam	Primary school & Navallur city light	539
Oct-06	Thirukazhukundram & St.Mount	Kottivakkam & Sadras	Primary school & Community hall	424
Nov-06	Kundrathur	Padappai	Hr. school	458
Dec-06	St.Mount	Karappakkam & Semencheri	Middle school & Community Hall	576
Jan-07	St.Mount & Thiruporur	Sholinganallur & Illalur	Hr.Sec.school - Sholinganallur & Illalur	325
Feb'07	Thiruporur & Thirukazhukundram	Padur, Kanathur & Mamallapuram	Middle & Primary Schools	414
Mar'07	Thiruporur	Madayathur	Primary school	115
Apr-07	Poonamallie, Thiruporur & Thirukazhukundram	Thirumazhisai, Nemeli & Sadras kuppam	Sundram School, Nemeli Hr.sec.school & Sadras kuppam community school	1203
May-07	Thiruporur, Lathur & Pavanjore	Muttukadu, Thandarai & Nergunapattu	Primary school & Kanniyamma Kovil	392
June-07	Sadra Primary Health centre	Pudhupattinam & Sembakkam	Hr. Sec. School	431

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Chettinad Hospital Speciality Camps - IN-HOUSE

Date	Speciality Camps	Total Patients
19.01.07	Diabetics	119
20.01.07	Children camps (polio drops given)	128
22.01.07	Surgery camp	51
23.01.07	Ophthal Camp	53
24.01.07	ENT	20
25.01.07	Ortho	30
27.01.07	Gync. Clinic	46
29.01.07	Dental	30
04.04.07	Bone Density camp	254

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*Ashwath*  
*Maniam*  
*Thiruvananthapuram*  
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## II. Composition of the Expert Committee.

1. Prof. D. Singh Chauhan, Member, UGC, Vice -Chancellor, Jaypee University of Information Technology, Waknaught, PO Domehar Bani, Tehsil Kandaghat - 173 215, Dist. Solan, Himachal Pradesh.
2. Prof. C.S. Dhull, Medical Superintendent, Post Graduate Institute of Medical Sciences, Rohtak, Haryana
3. Dr. Sessa Sayee, HOD, Surgery, Rajeshwari Medical College, Kharnpipura, Mysore Road, Bangalore.
4. Dr. (Mrs.) Ratna Prakash, Dean, Manipal College of Nursing, Manipal.
5. Dr. N.S. Hadke, Department of Surgery, Maulana Azad Medical College, Delhi.
6. Prof. Ashutosh Kar, A-50-/18, DLF City, Gurgaon, Haryana.
7. Prof. Arjun Das, Head, Department of ENT, Government Medical College, Sector -32, Changarh.
8. Dr. Pankaj Patel, Representative Medical Council of India, Ahmedabad.
9. Mrs.Kochu Therisamma Principal, College of Nursing Trivandrum.

Prof. Arjun Das could not attend the meeting. Shri.A.N.Sharma, Under Secretary, UGC, co-ordinated the visit of the committee.

*Pankaj Patel*  
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III. Inspection Report

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1. Headquarter of the proposed Institute Applied for Deemed to be University Status with full address	: CHENNAI Chettinad Academy of Research & Education (CARE) Rani Seethai Hall, 5 <sup>th</sup> floor 603, Anna Salai, Chennai - 600 006.
2. (a). Whether the separate society/trust has been registered in the name and style of the proposed deemed to be university. (b). If yes, name of the society/Trust promoting the proposed institute(s) for Deemed to be University Status which should be one for all Institutions if the proposal is for more than one Institutions.	: YES New Trust has been formed named as "CHETTINAD ACADEMY OF RESEARCH & EDUCATION (CARE)" On 30.03.2007 Document Enclosed -Annexure - 1
3. Details of the individual institution i.e., year of establishment, No. of PG Departments, Faculty ( Professors, Readers, Lecturers) etc.	Chettinad Hospital & Research Institute Hospital - September 2005 College - August 2006 - MBBS Annual intake of 150 Chettinad College of Nursing - 2006 - B.Sc. Nursing - Annual intake of 50  PG Courses not yet commenced
4. Whether Movable and immovable assets have been legally transferred in the name of the society/trust seeking recognition as Deemed to be University	Yes Affidavit already submitted assuring that movable and immovable assets will be transferred soon after getting Letter of Intent Annexure - 2
5. Territorial jurisdiction of the Institution(s)	INDIA
6. Thrust areas of the proposed institution(s) indicating special or innovative features.	<u>Academic Activities</u> Ongoing Research Programmes Innovative Research Programmes in emerging Areas

**ONGOING RESEARCH PROGRAMMES :**

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**INNOVATIVE PROGRAMMES IN EMERGING AREAS:**

**INNOVATIVE PROGRAMS**

- Marine Pharmacology -M.Sc. (2 Yrs)
- Bio robotics -PG Diploma (1 Yr)
- Medical Bio Nanotechnology -M.Sc. (2 yrs)
- Occupational Medicine & Industrial Health -M.Sc. (2 Yrs)
- Clinical Research & Experimental Medicine -M.D. (2 Yrs)
- Environmental Health -Certificate course (1 Yr)
- Allied Health Sciences -B.Sc .(4 Yrs)

**Evaluation pattern\***

- Semester Pattern
- Credit per Semester - 15 Credit points
  - Each Lecture period per wk - 1 Credit
  - Each Tutorial per wk - 1 Credit
  - Project work (3 contact hours)- 1 Credit
- Over all Credits - 60 Credits
- Grading System - 10 point scale of evaluation

\*Excluding Marine Pharmacology & M.Sc.Occupational Medicine & Industrial Health which follow the following pattern

- Semester Pattern
- Credit per Semester
  - I Semester - 15 Credit points
  - II & III Semester - 17 credit points each
  - IV Semester - 23 Credits
  - Each Lecture period per wk - 1 Credit
  - Each Tutorial per wk - 1 Credit
  - Project work (3 contact hours)- 1 Credit
- Over all Credits - 72 Credits
- Grading System - 10 point scale of evaluation

**M.Sc., MARINE PHARMACOLOGY  
CHOICE BASED CREDIT SYSTEM**

**Semester -I**

- MPCC -101 : MARINE BIORESOURCES & ENVIRONMENT
- MPCC-102 : MARINE MICROBIOLOGY
- MPCC-103 : BIOCHEMISTRY AND CELL BIOLOGY
- MPCP-104 : Practical - I (Covering courses 101, 102 & 103)

**Semester -II**

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- MPCC- 201 : IMMUNOLOGY
- MPCC-202 : GENERAL BIOTECHNOLOGY
- MPCC- 203 : MARINE PHARMACOGNOSY
- MPCP- 204 : Practical - II (Covering courses 201, 202 & 203)

Optional I

Semester -III

- MPCC- 301 : PRINCIPLES OF PHARMACOLOGY AND PHARMACEUTICS
- MPCC- 302 : PHARMACOTHERAPY AND PHARMACEUTICAL TECHNOLOGY
- MPCC- 303 : TECHNIQUES IN PHARMACOLOGY
- MPCP 304 : Practical - III (Covering courses 301, 302 & 303)

Optional II

Semester -IV

- MPCC- 401 : APPLIED PHARMACEUTICAL CHEMISTRY
- MPCC- 402 : PHARMACOLOGICAL MANAGEMENT, QUALITY CONTROL AND ETHICS
- MPCC- 403 : BIOINFORMATICS AND IPR
- MPCP 404 : Practical - IV (Covering courses 401, 402 & 403)

Optional III

Optional IV

SEMESTER - I

MPCC -101: MARINE BIORESOURCES & ENVIRONMENT

Objective: To understand biodiversity of flora and fauna associated with marine environment and to learn the methods of conservation and protection of the bioresources.

- UNIT I- Introduction to Marine Environment
- UNIT II - Marine Flora
- UNIT III - Marine Fauna
- UNIT IV - Growth & Reproductive Biology
- UNIT V - Marine Environment Protection

MPCC - 102: MARINE MICROBIOLOGY

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*Useen an*  
*Kthomazud*  
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**Objective: To provide knowledge on microorganisms that cause human diseases and to learn the possible methods of controlling microbial diseases**

- UNIT I- Introduction to Marine Microbiology
- UNIT II - Identification of microbes, Biomedical Importance and Culture
- UNIT III - Seafood Microbiology
- UNIT IV - Screening of Industrially Active Compounds
- UNIT V - Etiology & Management of Human Parasitic Infections

### MPCC - 103: BIOCHEMISTRY AND CELL BIOLOGY

**Objective: To define the structure and functions of bio molecules as cellular components**

- UNIT I- Bio molecules
- UNIT II - Metabolism and synthesis
- UNIT III - Cellular organisation
- UNIT IV - Cellular functions and Interactions
- UNIT V - Cell Cycle

### MPCP 104 - (Covering courses MPCC 101, 102 and 103)

#### PRACTICAL - I

- \* Identification of dominant plankters
- \* Identification of dominant marine plants (seaweeds, seagrasses, sand dunes, saltmarsh and mangroves)
- \* Identification of species of pharmacological importance in sponges\*, cnidarians, corals, bryozoans tunicates, molluscs (pelecypods, gastropods and Cephalopods), crustaceans (prawns, shrimps, lobsters and crabs), echinoderms, fishes (Cartillagenous & teleost) and marine mammals.
- \* Food and feeding habits - Gut content analysis (crustaceans and fishes)
- \* Assessment of age and growth - tags, morphometry, otolith, scales, vertebrae
- \* Reproduction - Gonadial maturity stages, GS index.
- \* These animals which are not included in the Wild life act. 1972.

#### PRACTICAL - II

- \* Sterilization, Preparation of culture media, agar slants, isolation, enumeration & identification of microbes, and maintenance of cultures.

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- Gram's staining, morphological, physiological, biochemical characterization of microbes, measuring growth rate, checking markers, penicillin selection for auxotrophy
- Estimation of faecal coliforms
- \* Sea food quality –
  - i) Estimation of coagulase + ve *Staphylococci*
  - ii) Estimation of *Vibrio* spp
  - iii) Estimation of *Salmonella* spp
- \* Isolation, enumeration and identification of important marine fungi and Actinomycetes
- \* Isolation and identification of marine cyanobacteria and lichens

### PRACTICAL – III

- \* Estimation of total carbohydrates (Phenol – Sulphuric acid method), Proteins (Biuret / Lowry), Lipids (Chloroform: Methanol), amino acids (Ninhydrin method), vitamins and nucleic acids (DNA, RNA - Colorimetric)
- \* Demonstration of fatty acid analysis using GLC
- \* Determination of amylase activity in different pH
- \* Chromatographic separation of sugars, amino acids (free and bound – Paper Chromatography) and phospholipids (TLC)
- \* Cell division stages
- \* Isolation of cellular organelles

### SEMESTER II

#### MPCC- 201: IMMUNOLOGY

**Objective: To understand the components and function of immune system and its role in human diseases and control.**

- UNIT I- Cells and organs of Immune system
- UNIT II - Antigen, epitopes and haptens. Immunoglobulins
- UNIT III - Immunity and vaccines
- UNIT IV - Antibody organization
- UNIT V - Immunology in health and disease

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**MPCC-201: IMMUNOLOGY**

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- UNIT IV - Antibody organization
- UNIT V - Immunology in health and disease

**MPCC-202: GENERAL BIOTECHNOLOGY**

**Objective: To deal with the usage of biotechnological tools in Pharmacology**

- UNIT I- Molecular Techniques
- UNIT II - Vectors
- UNIT III - Tissue culture
- UNIT IV - Operation and Sterilization of laboratory Bioreactor
- UNIT V - Bioreactors

**MPCC - 203: MARINE PHARMACOGNOSY**

**Objective: To detail the biology of marine natural products and their evaluation**

- UNIT I- Definition, origin and scope of pharmacognosy
- UNIT II - Potential natural products from marine flora and fauna
- UNIT III - Evaluation of Crude Drugs
- UNIT IV - Marine bio-toxins
- UNIT V - Design and formulation of drug dosage forms

**MPCP 204(Covering courses MPCC 201, 202 and 203)****PRACTICAL - I**

- \* Observation of lymphoid organs in fishes (Thymus, spleen, anterior kidney, Gut)
- \* Observation of lymphoid organs in birds (Bursa of Fabricus, spleen)

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\* Observation of lymphoid organs of mammals (C.S. of lymph node, C.S. of spleen, C.S. of tonsil, C.S. of Peyer patches, C.S. of thymus, C.S. of bone marrow).

- Smear preparation of lymphoid organ in fishes (anterior kidney and spleen)

\* Agglutination test (ABO blood group kit)

\* ELISA - testing of antigen & antibody reactions & identification - Western blotting.

\* Counting of lymphocytes

\* Immunoelectrophoresis - antigen and antibody reactions using kit

\* Dissection of the lymphoid organ from fishes and mammals.

\* Immunomodulation - Immune response of hemolymph from shrimp & crab against *Vibrio* spp.

### PRACTICAL - II

\* Growth pattern of cells - MONAD cell

\* Enzyme kinetics - Michaelis Menten model

\* Demonstration of bioreactors - working principles and application

\* Transformation in bacterial model

\* Restriction - Digestion, gel purification of DNA

\* Gene cloning - analysis of recombinant plasmids blue and white colony screening

\* PCR techniques - primer designing through internet computation

### PRACTICAL - III

\* Identification of drugs by morphological characters

\* Physical and chemical tests for evaluation of drug wherever applicable

\* Dissection and analysis of source organs from flora and fauna for extraction of drug

\* Identification of fibres and surgical dressings

\* Isolation of natural products such as caffeine, starch, emetine, fixed oils. TLC of alkaloids

### SEMESTER III

MPCC - 301: PRINCIPLES OF PHARMACOLOGY AND PHARMACEUTICS

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**Objective: To describe the drugs of different types, their interactions and efficiency in drug delivery.**

- UNIT I- General pharmacological principles including Toxicology
- UNIT II -Pharmacology of the anti-inflammatory drugs
- UNIT III -Biopharmaceutics and Pharmacokinetics and their importance in formulation
- UNIT IV -Principles of the controlled release of drugs from. polymer systems
- UNIT V -Mechanisms of drug transport

### MPCC - 302: PHARMACOTHERAPY AND PHARMACEUTICAL TECHNOLOGY

**Objective: To explain the clinical therapy, evaluation, formulation, quality control, preparation & packaging and routes of drug administration**

- UNIT I- Pharmaceutical care, application, interpretation of clinical data
- UNIT II - Biological evaluation & screening of drugs
- UNIT III - Toxicology
- UNIT IV - Drug quality control
- UNIT V - Pharmaceutical Technology

### MPCC - 303: TECHNIQUES IN PHARMACOLOGY

**Objective: To learn the techniques in extraction, structural and functional elucidation, isolation and identification of medicinal compounds**

- UNIT I- Solvent extraction principles
- UNIT II - Theory and the use of scanning electron microscopes and transmission electron microscopes
- UNIT III - Principles and applications of adsorption chromatography
- UNIT IV - Gel electrophoresis & Other detection techniques
- UNIT V - Electrochemical methods of analysis

**MPCP 304 - (Covering courses MPCC 301, 302 and 303)**

**PRACTICAL - I**

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- \* Experiments on isolated preparations
- \* To record the concentration response curve (CRC)
- \* To study the effect of physostigmine and d-tubocurarine on the CRC of acetylcholine using frog rectus abdominus muscle preparation.
- \* To record the CRC of 5 HT on rat fundus preparation.
- \* Cardiovascular systems  
to study the inotropic and chronotropic effects of drugs on isolated frog heart.
- \* To study the effects of drug on normal and hypodynamic frog heart.
- Identification test for organic compounds particular drugs and pharmaceuticals.
- \* Limit test for chloride, sulphate arsenic, Iron and heavy metals.
- \* Assay of inorganic pharmaceuticals involving each the following methods
  - Acid-base titration
  - Redox titration
  - Precipitation titration
  - Complexometric titration

### PRACTICAL - II

- \* Basic test for identification of bacterial and fungal pathogens (serology, biochemical tests, germ tube test, KOH test etc)
- \* Preparation of certain pharmaceutical dosages of forms, covering various manufacturing process
- \* Testing of aerosols: Tests for output, drug concentration & dose delivered
- \* Study of rheological properties of newtonian & non-newtonian systems at various environmental conditions
  - \* Preparation and evaluation of powders, dry syrups and pills
- \* Various staining procedures involved in histopathological studies
- \* Tissue processing and sectioning

### PRACTICAL - III

- \* Effect of acetyl choline and adrenaline on the frogs heart
- \* Effect of acetyl choline on *rectus abdominis* muscle of frog and guinea pig ileum
- \* Effect of spasmogens and relaxants on rabbits intestine
- \* Pharmacological activities: Local anaesthetics, Analgesic, Antipyretic, Antiinflammatory, CNS stimulant, CNS depressant.
- \* To study different routes of administration of drugs in mice.
- \* To determine the acute toxicity of a given drug (To calculate LD 50 value).

### SEMESTER IV

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**MPCC – 401: APPLIED PHARMACEUTICAL CHEMISTRY****Objective: To explain chemistry and metabolic processes of drugs**

- UNIT I- Nomenclature, classification and Stereochemistry of drugs
- UNIT II - Cardio Vascular drugs
- UNIT III - Structure, synthesis and metabolism of Chemotherapeutic agents
- UNIT IV - Toxicity Evaluation
- UNIT V - Introduction to nanotechnology, nanoparticles in marine organisms

**MPCC – 402: PHARMACOLOGICAL MANAGEMENT, QUALITY CONTROL AND ETHICS****Objective: To describe the storage methods, trade, quality assurance and code of ethics**

- UNIT I- Pharmaceutical Management
- UNIT II - Management support systems
- UNIT III - Quality control aspects
- UNIT IV - Principals of ethics, Concept of a Profession and their Regulatory Councils
- UNIT V - World Health Organization - Ethical Issues

**MPCC – 403: BIOINFORMATICS AND IPR****Objectives : To explain the technical know - how of information that can be collected from web sources involved in patenting of novel drugs.**

- UNIT I - Bioinformatics
- UNIT II - Human Genome Project and Databases
- UNIT III - Alignments, Phylogenetics and Protein Prediction
- UNIT IV - Molecular visualization & Drug Discovery
- UNIT V - IPR Issues and Patenting

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**PRACTICAL - I**

- \* Proximate analysis of marine drugs to determine extractive values, ash values, insoluble matter, foreign matter, swelling factor etc.
- \* Toxicity studies in marine biological resources
- \* Microbial production of antagonistic agents
- \* Biochemical analysis (Blood and Urine) - Glucose, Urea, Creatinine and Cholesterol
- \* Estimation of vitamins and hormones in shell and finfishes
- \* Spectral analysis of nano particles

**PRACTICALS - II**

- \* Stability studies of marketed formulations as per ICH guidelines
- \* Experiments on process validation
- \* Drug monitoring progress or reaction by using TLC
- \* Drug quality checking
- \* Radio isotope handling
- \* Bio safety guidelines

**PRACTICALS - III**

- \* Prepare flat file in NCBI, DDBJ & EMBL format for the given query Sequence
- \* Search the similar DNA sequence of the query DNA using BLAST
- \* Retrieve a query sequence from NCBI and predict the secondary structure of the query using PDB & PEP TOOL
- \* Retrieve a query sequence from NCBI and predict the tertiary structure and Motifs of the query using PDB, CATH & SCOP
- \* Retrieve a query sequence from EMBL and predict the 2D structure of the query using SWISS-PROT
- \* Find out the exon and introns for the given DNA sequence using GENESCAN / GENETOOL
- \* Homology Modeling and Molecular docking
- \* Method of Patenting

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**B.Sc Allied Health Sciences  
(4 Years Degree Program)**

**Basic Aim to start B.Sc(AHS) Course**

- To Train Students in a technological aspects of medical care with the good scientific foundation to competently assist physician or surgeon.
- These Graduates play a vital role in determining the quality of health care

**Courses which can be offered**

- B.Sc. Allied Health Sciences – Anesthesia Technology
- B.Sc. Allied Health Sciences – Cardiac Technology
- B.Sc. Allied Health Sciences – Clinical Laboratory Technology
- B.Sc. Allied Health Sciences – Radiology and Imaging Science Technology
- B.Sc. Allied Health Sciences - Renal Dialysis Technology

**Eligibility for Admission**

A candidate desiring to join the four year programme leading to the B.Sc. Allied Health Science degree course should have a pass in the HSC/CBSE/ISC or equivalent examination with one of the following subject combinations:

- Physics, Chemistry, Biology and Mathematics (or)
- Physics, Chemistry, Botany and Zoology

**COURSE FORMAT**

Duration : 4 Years (3years of Course Work & 1 year internship )

Given in 8 Semester

Outline for the courses to be offered for eight Semesters

(Note: courses offered for I and II semesters are common to all branches)

First semester:

- Anatomy
- Physiology
- Biochemistry
- Psychology
- English
- Elements of Health care Principles

**Second Semester:**

- Micro biology
- Pathology
- Pharmacology
- Sociology
- Community Medicine
- Bio Physics

(At the begining of the Third Semester students should be assigned one of the five branches of specialization)

**Third Semester:**

- Applied Anatomy & Physiology related to concerned Technology
- Pharmacology related to concerned Technology
- Physician's office management and computer in relation to medical care
- Introduction to Clinical Methods
- Clinicals

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**Fourth Semester:**

- Concepts of disease and outline of clinical evaluation related to concern technology
- Basic Principals of Hospital Management
- Epidemiology and Statistics
- Clinicals

**Fifth Semester:**

- Concerned Technology – Part I
- Hospital products ,promotions and public relations
- Clinicals

**Sixth Semester:**

- Concerned Technology – Part II
- Cardio- Pulmonary resuscitation and first aid techniques
- Clinicals

**Seventh & Eighth Semester -Compulsory Internship & Project WorkNanorobotics**

- Post Graduate Diploma Course – 1 yr
- Course Objectives:

This course will through light in the usage of Nanorobotics in medical field especially in therapeutics and surgery to the students.

- Eligibility: M.B.B.S. Graduate
- No. of Students / yr: 15
- PAPER I – Introduction to Nanotechnology & Robotics
- PAPER II – Application of Nano Robotics
- PAPER III - Nano Robotics in Surgical Application

**Medical Bio Nano Technology**

- Post graduate course – M.Sc. 2 yr
- Course Objectives:  
This course is to provide an introduction to the theory and practice of Medical bio nanotechnology. It will also provide holistic approach covering the basic physics of the behaviour of molecules and molecular interactions and the experimental techniques used to characterise bio-nano systems.
- Eligibility: Graduate in science Degree
- No. of Students / yr: 15

**SEMESTER I**

- MBNC 101 -Cell Biology & Medical Bio-Chemistry
- MBNC 102 -General Bio technology & Bio-informatics
- MBNC 103 -Human Physiology & Immunology

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MBNP 101 -Practical (Covering courses 101 – 103)

**SEMESTER II**

MBNC 201 -Medical Microbiology & Infectious diseases  
 MBNC 202 -Physics for Bio-Nanotechnology & Bio-Physical Techniques  
 MBNC 203 -Somatic and germ line engineering

MBNP 204 -Practical (Covering courses 201-203)

**SEMESTER III**

MBNC301 -Bio-Sensors, Disease diagnosis, Bio-Photonics and Bio-imaging  
 MBNC302 -Bio-Nano Robotics & Bio Materials  
 MBNC303 -Nano Toxicology & Macro Molecules

MBNP304 -Practical (Covering courses 301 to 303)

**SEMESTER IV**

MBNC 401 -Project work

**Occupational Medicine & Industrial Health**

- Post graduate course – M.Sc. 2 yr
- Course Objectives:
  - To train individuals to work in industrial environment
  - Right person for the right job
  - Predict & Manage Industrial accidents
  - Provide Psychological counseling
- Eligibility: MBBS, BPT, BOT or Graduate in science Degree ( With zoology as major or allied)
- No. of Students / yr: 20

**SEMESTER I**

MOMC101 -Introduction to Occupational Health care

MOMC102 -Anatomy

MOMC 103 -Physiology & Biochemistry

MOMC 104 -Practical (Covering courses 101 – 103)

**SEMESTER II**

MOMC 201 -Occupational diseases (Paper I)

MOMC 202 -Occupational diseases (Paper II)

MOMC 203 -Hospital Management

MOMC 204 -Practical (Covering courses 201-203)

**SEMESTER III**

MOMC301 -Psychology

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- MOMC302 -Epidemiology  
 MOMC303 -Industrial economics  
 MOMC304 -Practical (Covering courses 301 to 303)

**SEMESTER IV**

- MOMC 401 - Environmental Pollution  
 MOMC 402 - Industrial/Labour Law & Ethics  
 MOMC 403 - Hazard Management  
 MOMC 404 - Practical IV (Covering courses 401,402 & 403)

**Environmental Health**

- Certificate course – 1 yr
- Course Objectives:  
 To identify environmental health issues of importance to individuals, communities and Nation
- Eligibility: Graduate in science Degree
- No. of Students / yr: 15
- Paper -I - Basics of environmental health
- Paper-II - Types of Hazards & diseases produced including prevention
- Paper-III - Title: Control measures ,Law & Legislation

**Clinical Research**

- MD – 2 yr
- Course Objectives:  
 To improve the clinical research abilities of the medical graduates
- Eligibility: Medical graduates
- No. of Students / yr: 10

**SEMESTER I**

- MCRC 101 -Ethics & good practices in clinical research  
 MCRC 102 -Governing rules & regulatory authorities for drug development & approval  
 MCRC 103 -Drug development process including preclinical toxicity studies  
 MCRC 104 -Basics of biostatistics & soft ware applications in clinical research

**SEMESTER II**

- MCRC 201 -General Pharmacology

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- MCRC 202 -Systemic Pharmacology
- MCRC 203 -Clinical trial designs and methodology
- MCRC 204 -Applied biostatistics

**SEMESTER III**

- MCRC301 -Advanced clinical trial design
- MCRC302 -Clinical data management
- MCRC303 -Pharmacovigilance & safety reporting
- MCRC304 -Bioanalytical equipments & GLP

**SEMESTER IV**

- MCRC 401 -Project work

7.	Date(s) of visit of the Expert committee	19 <sup>th</sup> & 20 <sup>th</sup> August 2007												
8.	Is the proposal under De Novo Category: if yes please give justification.	<p><b>Yes - Under De Novo Category</b></p> <p>The Medical college (MBBS) started with getting MCI approval for 150 students in MBBS program - 2006. <b>ANNUEXURE-3</b></p> <p>The Nursing college (B.Sc., Nursing) was started in 2006 approved by Nursing Council of India.</p>												
9.	Whether accredited by NAAC, if yes, rating?	N.A – only MCI, NCI standards and norms applicable.												
10.	Whether the proposed institution(s) is affiliated to any university under section 2 (f)/12B of the UGC Act? If yes, the name of the University.	Yes, Affiliated to The Tamilnadu Dr. M.G.R Medical University <b>ANNUEXURE - 4</b>												
11.	Whether the affiliating University willing to examine and confer degree or other awards of students already enrolled with the institution(s) seeking Deemed to be University Status.	Yes												
12.	Source of finance and quantum of funds available- From fees;  From State Govt From UGC From other sources (details)	<table border="1"> <thead> <tr> <th colspan="2">Trust, 2006- 2007</th> </tr> </thead> <tbody> <tr> <td>Hospital Income</td> <td>1,39,30,306</td> </tr> <tr> <td>Medical College Fee</td> <td>6,83,67,405</td> </tr> <tr> <td>Nursing College Fee</td> <td>1,66,500</td> </tr> <tr> <td>Hostel Fee</td> <td>36,80,400</td> </tr> <tr> <td>Pharmacy</td> <td>1,02,33,673</td> </tr> </tbody> </table> <p>Nil Nil Nil</p>	Trust, 2006- 2007		Hospital Income	1,39,30,306	Medical College Fee	6,83,67,405	Nursing College Fee	1,66,500	Hostel Fee	36,80,400	Pharmacy	1,02,33,673
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Medical College Fee	6,83,67,405													
Nursing College Fee	1,66,500													
Hostel Fee	36,80,400													
Pharmacy	1,02,33,673													
13.	Whether the institution(s) is financially and academically viable to run the institution(s) as Deemed to be University.	Yes												

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14.	Receipt and expenditure of the institution(s) for the last 3 years	Yes
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### Medical - Income in Lakhs

Income	Particulars	2006 - 2007
		Op. Registration Income
	Lab Income	24.13
	Radiology Income	16.25
	Treatment Charges	21.41
	Inpatients Income	74.16
	Ambulance Income	3.64
	Pharmacy Revenue	36.00
	Rent Income	6.67
	College Fees Collection Account	600.00
	Other Income	41.93
	<b>Total Income</b>	<b>834.62</b>

### Medical - Expenditure in Lakhs

Expenditures	Particulars	2006-2007
		Salary Expenses
	Students Mess Expenses	17.04
	Consumables	89.74
	Inspection Fees	5.55
	Electricity Expenses	166.30
	Repairs & Maintenance Cost	63.50
	House Keeping Charges	79.13
	Security Charges	24.89
	Biomedical Waste Disposable Exps.	1.20
	Misc. Expenses*	71.60
	Printing & Stationery Expenses	31.02
	Travelling Expenses	73.98
	Preoperative Expenditure including salary, power	100.00
	<b>Total Expenses</b>	<b>1495.17</b>

Note: \* Includes the following expenses - Work shops - 2.00 Lakhs, Books - 17.04 Lakhs, & Journals - 4.00 Lakhs Conference - 1.00 Lakhs, Seed Money for Research - 10.00 Lakhs

### Nursing - Cash Flow Statement

Receipt	Details	2006 - 2007
		Recurring Revenue (Fees)
Payments	Recurring Expenses Less Depreciation	52.34

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15	Whether the permission from the concerned state Govt. has been obtained if yes, please attach a copy of the permission letter/views of the state Government.	State Government has been Already approached for Permission - Copy of the letter to Secretary to the Government of Tamilnadu, Ministry of Health & Family Welfare dated 04.07.2007 is enclosed. Reply not yet received. Enclosed - <b>Annexure - 5</b>
16.	Details of UG/PG courses started/ to be started	<p>UG Courses :</p> <ol style="list-style-type: none"> <li>1. MBBS., - 2006 Annual intake of 150 Students.</li> <li>2. B.Sc. , Nursing, -2006 Annual intake of 50 Students.</li> </ol> <p><b>Courses to be Started :</b></p> <ol style="list-style-type: none"> <li>1. B.D.S – Annual intake of 100 Students DCI Inspection already completed – The Tamil Nadu Dr. M.G.R. Medical University Provisional Affiliation certificate awaited.</li> <li>2. B.Pharm</li> <li>3. PMR (BPT &amp; MPT)</li> <li>4. DNB</li> <li>5. M.Sc., Nursing</li> <li>6. DMLT</li> </ol>
17.	Whether the institute has Rs.5 Crore Corpus Funds for Engineering Technology, Rs.3 Crore for Science & Social Science and Rs.5 Crore Corpus Funds for conducting both types of Programmes. Please specify and indicate the amount after verifying the Corpus Fund.	Yes Copy Enclosed - <b>Annexure - 6</b>
18	Whether various authority and bodies of the institute are in accordance with the provisions of the UGC Guidelines.	Yes Original Affidavit Enclosed. <b>Annexure - 7</b>

**INFRASTRUCTURE: (give details)**

19	Details of Buildings I. Permanent	Yes Details of the Buildings <b>ANNEXURE - 8</b>
20	Land if acquired, Whether documents verified/land registered in the name of the university and its location.	Yes
21.	No. of Laboratories; give details	<p>5 Nos.</p> <p>Bio-Chemistry Microbiology Clinical Pathology Blood Bank Central Research Lab Every ward is provided with side labs.</p>

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22.	Whether students already admitted, if yes give details course-wise	<b>Medical</b> MBBS - 150 students per year 2006 - 150 students admitted 2007 - admission in progress <b>Nursing</b> Nursing - 50 students per year 2006 - 6 Students admitted 2007 - Admission in progress
23.	Hostel facilities, give details	Separate Hostel accommodation for Boys & Girls <b>Medical:</b> <b>Boys Hostel</b> : 150 Students Total No. of Accommodation : 50 Rooms with triple sharing basis <b>Girls Hostel</b> : 150 Students Total No. of Accommodation : 50 Rooms with triple sharing basis <b>Junior Resident Accommodation :</b> <b>Boys Hostel</b> : 60 Persons Total No. of Accommodation : 30 Rooms with Double sharing basis <b>Girls Hostel</b> : 60 Persons Total No. of Accommodation : 30 Rooms with Double sharing basis <b>Nursing:</b> <b>Girls Hostel</b> : 102 Persons Total No. of Accommodation : 34 rooms with Triple sharing basis
24.	No. of class rooms	With 180 seating capacity - 3 (A/C) With 100 Seating capacity - 4 (A/C)
25.	Whether institute has auditorium	Yes

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26	Area in Sq. meters	Total Area - 24,000 Sq.ft
27	Number of Journals; a. National b. International	<b>Medical</b> National Journal - 28 Nos International - 12 Nos  <b>Nursing</b> National Journal - 7 Nos International - 4 Nos.
28	Is it digital Library	Yes
29	Does it have reprographic and bar-coding facilities	Yes
30	Whether Equipments, Books and Journals are worth Rs.50 lakhs	Yes
31	Books/Equipment - give details	Hand out with CD Enclosed - Annexure - 9A + 9B

**FACULTY AND OTHER STAFF**

32	Whether teaching staff appointed, if yes give details	Yes Appointed <b>Medical</b> <b>Nursing</b> - ANNEXURE - 10
33	Whether the institute have five departments - each department having one professor two readers and adequate number of Lecturers along with necessary supplementary staff. If so, please give details department - wise.	The Institution has 19 departments <b>Medical</b> <b>Pre and Para clinical</b> 1. Anatomy 2. Physiology 3. Biochemistry 4. Pathology 5. Microbiology 6. Community Medicine 7. Forensic Medicine 8. Pharmacology  <b>Clinical</b> 9. General Medicine a. Dermatology b. TB & Chest c. Psychiatry 10. Paediatrics 11. General Surgery a. Ophthalmology b. ENT 12. Orthopaedics 13. Obstetrics & Gynaecology 14. Anaesthesia 15. Radio Diagnosis

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		16. Physical Medicine Rehabilitation 17. Nephrology 18. Reproductive Medicine 19. Paediatric Surgery <b>Nursing</b> Fundamentals of Nursing Maternity Lab & Paediatrics Community Health Nursing Nutrition Computer
34.	Whether the institute is giving pay scale to teachers as prescribed by UGC. If not, is the institute proposed to bring teachers pay scales at par with University teachers?	Yes
35.	Whether Non-teaching staff appointed, if yes, give details	Yes - ANNEXURE - II
36.	Is the Deemed University is running distance Education Programme, if yes, has it been approved by DEC/UGC.	Not Applicable
37.	Whether the institution established any off campus or study centre or admission centre outside the state of its jurisdiction please specify, if so, has it been approved by UGC	Not Applicable
38.	Whether the institution has undertaken any research activities. If so, please give details.	Yes <b>Academic Activities</b> 1. CME 2. Seminars 3. Guest Lecturers 4. Symposium 5. Conference 6. Workshop 7. Work is on progress for Tele Conferencing  <b>Research Activities:</b> 1. On going research programmes 2. Innovative Programmes in Emerging Areas

**Community Health Centre Out Reach Programmes**

RHC - Pooncherri

UHC - Sholinganallur

Health Centre - MEPZ, Tambaram

Health Camps

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## 1. Primary Health Centre :

- Kelambakkam

## Health Sub Centre

1. Chengalmal - 3 Km
2. Kovalam - 7 Km
3. Muthukadu - 10Km
4. Navaloor - 3 Km
5. Pudupakam - 6 Km
6. Mambakkam - 5 Km

## 2. Out Reach Programmes :

Days	I	II	III	IV	Remarks
Monday	Pudhupakkam	Kolathur	Panankattupakkam	Velichai	AN Clinic
Tuesday	Sengammal	Kelambakkam	Sathankuppam	Koil maniyam	Review meeting
Wednesday	Semmenchery	Kovalam	Kovalam	Kunnakadu	Immunisation
Thursday	Muttukadu	Kanathur Reddykuppam	Egattur	Kazhipattur	School Health
Friday	Mambakkam	Melakottaiyur	Ponmar	Sonalur	RTG / STG
Saturday	Navalur	Siruchery	Thazambur	Padur	Lap Survey

## 3. Health Camps :

- Hypertension Camp
- Diabetic Camp
- Immunization Camp
- Cardiac Alert Camp
- Prevention of Blindness
- Prevention of Deafness
- Prevention of Burns
- Early Detection of Cancer
- Adolescent care camp
- Dental Camp
- Skin care Camp

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## • Geriatric Camp

39.	Whether the faculty members organized or attended international / National Conferences / Workshops, if so, give details	Yes - ANNEXURE - 12
40.	Other facilities available at the institute(s) (give details) which are necessary to support Deemed to be university status	<ol style="list-style-type: none"> <li>1) Central manifold</li> <li>2) Animal House</li> <li>3) Mortuary</li> <li>4) Laundry</li> <li>5) CSSD</li> <li>6) Biomedical Waste Management</li> <li>7) Ambulance Services</li> <li>8) Central Clinical Lab</li> <li>9) Blood Bank</li> <li>10) Diet Kitchen</li> <li>11) Radio diagnosis</li> <li>12) Pharmacy</li> <li>13) Generator</li> <li>14) Pneumatic Chute System for transporting the specimens for Investigations</li> <li>15) Helipad</li> <li>16) Power House</li> <li>17) Sports Activities <ol style="list-style-type: none"> <li>i) Indoor Games <ol style="list-style-type: none"> <li>a) Table Tennis</li> <li>b) Chess</li> <li>c) Carrom Board</li> <li>d) Gymnastics</li> <li>e) Body Building</li> </ol> </li> <li>ii) Out Door Games <ol style="list-style-type: none"> <li>a) Hockey</li> <li>b) Football</li> <li>c) Basket Ball</li> <li>d) Volley Ball</li> <li>e) Cricket</li> <li>f) Volleyball</li> <li>g) Tennis</li> <li>h) Shuttle</li> <li>i) Badminton etc.</li> </ol> </li> </ol> </li> </ol>
41	Fee structure: Give Details	<b>Medical College</b> MBBS., - Tuition Fee Rs. 3,00,000/- per year <b>Nursing College</b> B.Sc., (Nursing) - Tuition Fee Rs. 30,000/- per year
42	Admission Policy/Procedure in brief	Students are admitted as per Tamilnadu State Government Policy. 65% - Government Quota 20% - Management Quota 15% - NRI Quota. Minimum Age limit - He/she shall complete the age of 17 years on or before 31 <sup>st</sup> December of

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		<p>the Year of Admission to the Course.</p> <p><b>Minimum Eligibility Criteria for admission to Medical Courses in Govt/ Unaided non minority &amp; unaided minority Institute in Tamil Nadu MBBS</b></p> <p><b>OC.</b> Minimum of 60% marks in Biology or Botany &amp; Zoology take together, 60% marks in each of Physics, Chemistry. Aggregate Should not be less than 140 out of 200</p> <p><b>BC.</b> Minimum of 60% marks as in Item No.1, above aggregate should not be less than 130 out of 200.</p> <p><b>MBC.</b> Minimum of 55% marks in Biology taken together 55% in each of Physics &amp; Chemistry. Aggregate should not be less than 120 out of 200.</p> <p><b>SC.</b> Minimum of 40% marks in Biology taken together 40% in each of physics &amp; Chemistry. Aggregate should not be less than 80 out of 200.</p> <p>For the year 2006 a Common Entrance Test conducted by Tamilnadu Private Professional Colleges Association under the permanent Committee and the students were admitted under single window system.</p> <p>For the year 2007, As per the Court Order, the permanent Committee has decided not to conduct the Common Entrance test for admission will be made by qualifying marks.</p>
43.	Examination system in brief	Yes

**EXAMINATION SYSTEM**

**MEDICAL**

1<sup>st</sup> Year

**1. Commencement of Examination :**

- a) August 1<sup>st</sup> / February 1<sup>st</sup>
- b) Theory examinations not to be held on Saturdays and Sundays. If the date of commencement of the examination falls on a public holiday, the next working will be the date of commencement of examination.

**2. Timings of Examinations :**

- a) Phase - I - professional examination

*Handwritten signatures and dates:*  
 Ashubhan, K...  
 K. Thirumal...  
 K. Srinivas...  
 20/8/07