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 accomplished 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 – 30th March 2007

A New Trust in the Name of Chettinad Academy of Research & Education (CARE) has been established in 2007.
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)
- Percutaneous autologus bone marrow infection as substitute for operative bone
  grafting of un-united fractures-Prospective study (Dr. Narayana Reddy et al,
  Orthopedics)

- Clinical significance & risk factors for infections due to extended spectrum
  beta-lactamase (ESBL) producing gram negative bacilli (Dr. Renu Mathew et
  al, Microbiology)
- Rapid Detection of Mycobacterium Tuberculosis from Pulmonary and Extra
  Pulmonary Samples by PCR (Polymerase Chain Reaction) (Dr. Kalyani et al,
  Microbiology)
- Study of microbial drug resistance pattern in CHRI and its probable causes
  (Dr. Ruckmani et al, Pharmacology)
- Maternal antenatal profile and birth weight in new borns (Dr. Jaishree et al,
  Paediatrics)
- Autologous bone marrow injection study as alternative to autologous bone
  grafting is established nonunion of long bones like femur & tibia
  (Dr. M. Narayana Reddy, Orthopaedics)
- Evaluation of the efficacy of amino infusion in improving perinatal outcome
  in Labour complicated by liquor neonium stained liquor (OBG)
- A comparison of vaginal hysterectomy + BSO Vs Total Abdominal
  Hysterectomy + BSO (Dr. Javia et al, OBG)
- Comparison and effectiveness of prosole with endotracheal tube for
  laproscopic procedures (Dr. Jayakar et al, Anaesthesiology)
• Effectiveness of para vertebral block as a modality for post operative pain relief for breast surgeries (Dr. Sivakumar et al, Anaesthesiology)
• CRASH-2 Clinical randomisation of antifibrinolytic in signiﬁcant haemorrhage (Reneoxamic Acid) Dr. Narayana Reddy et al (Funded by London School of Hygiene & Tropical Medicine & WHO)

• Study of neonatal outcome in mothers with misoprostol induced labour (Dr. Narendra Kumar et al, Paediatrics)
• Antibiotic prophylaxis in orthopaedic implant surgery, single dose of inj. Cefazolin vs three doses (Dr. Narayana Reddy, Orthopaedics)
• Rose bengal versus lissamine green in evaluation of dry eye syndrome (Dr. Aruna et al, Ophthalmology)
• A study of efficacy of single dose misoprostol 25mg in induction of Labour in multigravida (Dr. Vijayalakshmi et al, Obstetrics)
• Comparison of tramadol with clonidine for caudal analgesia with bupivacaine in paediatric herniotomy (Dr. Anand et al, Anaesthesiology)
• Effectiveness of dempmedrol (methyl prednisolone) with bupivacaine for intercostal block in trauma patients with rib fracture for chronic pain relief (Dr. Balaraman et al, Anaesthesiology)
• Comparison of epidural tramadol with butorphanol for post operative pain relief (Dr. Balaji et al, Anaesthesiology)

Multicentric International clinical trials at Dept. of Nephrology (Dr. Thiagarajan & Dr. Divakar)
• Trialink-M.O.S.T Study, Novartis Co. Ltd
• TranCept study Roche Co. Ltd
• Victor study, Roche Co. Ltd
• Ascertin Study, Novartis Co. Ltd
• Linezolid versus vancomycin in treatment of catheter related infections in haemodialysis patients, Pfizer Ltd
• Progis, Novartis India Ltd
• Abetimus Sodium in SLE patients with a history of renal diseases, La Jolla Pharmaceuticals
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• Comparative study on the structure of placenta in DM, Anemia & PIH. (Dr. Gunapiya et al Anatomy)
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• Neurotoxicity of cyanide and the efficacy of Alpha keto Glutarate as an antidote to cyanide poisoning (Dr. Mathangi et al, Physiology) funded by DRDE, Govt. of India
• Evaluation of blood pressure by varying the sphygmomanometer position (Dr. Prince et al, Physiology) Autonomic function tests in Anaemic Patients (Dr. G. Maharajan et al, Physiology)
• Autonomic function Tests in Adolescence (Dr. Prince et al, Physiology)
• Heart rate variability in pregnancy (Dr. Prince et al, Physiology)
• Data analysis of Thyroid profile on CHRI Patients (Dr. Ananthi et al, Biochemistry)
• Prevalence of Hepatitis B virus infection in and around Padur village. (Dr. Renu Mathew et al, Microbiology)
- Study of impact of night shift on human health & economy (Dr. Ruckmani et al, Pharmacology)
- Coverage Evaluation of Immunization Programme in Kanchipuram Dist (Dr. Murali et al, Comm. Med)
- Epidemiological profile of Snakebite and Treatment seeking behaviour among rural population of Kanchipuram Dist (Dr. Murali et al, Comm. Med)
- Incidence of congenital hypothyroidism (Dr. Venketeswaran et al, Paediatrics)

- Study of incidence of Vit A deficiency in school going children (Dr. Suresh et al, Paediatrics)
- Evaluation of parental knowledge and practices of asthma in children (Dr. Ganesh et al, Paediatrics)
- Incidence of diabetic retinopathy in rural population (Dr. Meenakshi Pande et al, Ophthalmology)
- Analysis of refractive errors in children aged 12 years and less (Dr. Ram Prakash et al, Ophthalmology)
- A Study of Adenoidal Hypertrophy in Adults (Dr. Srinivasan et al, ENT)
- Prevalence of Fungal Infection in Nasal Polyps (Dr. Srinivasan et al, ENT)
- Prevalence of Metabolic syndrome in young women with polycysticovarian syndrome (Dr. Nirmala et al, OBG)

Medical Education
1. Preservation and Mounting of Human Specimens by Plastination technique in the museum. (Dr. Sarala et al, Anatomy)
2. A Comparative evaluation in Museum mounting techniques (using Kaiserling and formalin). (Dr. Archana et al, Anatomy)
3. Integrated teaching of Biochemistry – Implementation & Evaluation (Dr. Malligai et al, Biochemistry)
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)
### Extension Programmes:

<table>
<thead>
<tr>
<th>Name of the camp conducted</th>
<th>Date</th>
<th>Name of the Block</th>
<th>Name of the Village</th>
<th>Name of place conducted</th>
<th>Total</th>
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<tr>
<td>OBG Camp</td>
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<td>Madras</td>
<td>Besent Nagar</td>
<td>Sree Sai Health Trust</td>
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<td>Urban Camp</td>
<td>May-06</td>
<td>Chennai city</td>
<td>Thiruvotriyur</td>
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<td>Eye Camp</td>
<td>Nov-06</td>
<td>Tirukazhukundram</td>
<td>Kikilamedu</td>
<td>Primary school</td>
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<td>Dec-06</td>
<td>Thiruporur</td>
<td>Periya Nemmeli</td>
<td>Dharmaraja Koil</td>
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<td>School wise Medical camp</td>
<td>Oct-05</td>
<td>Thayyur</td>
<td>Thayyur</td>
<td>Primary and Welfare school</td>
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<td>Nov-05</td>
<td>Mahabalipuram</td>
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<td>Mar-06</td>
<td>Thiruporur</td>
<td>Vaniyanchavadi</td>
<td>Higher Secondary</td>
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<td>Kottivakkam</td>
<td>Primary School &amp; YMCA</td>
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<td>Medical Camps</td>
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<td>Nov-05</td>
<td>Thiruporur</td>
<td>Pudupakkam, Pattipalam &amp; Sembakkam</td>
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<td>Dec-05</td>
<td>Kattankulathur &amp; Thiruporur</td>
<td>Keerapakkam, Mullipakkam, Semencheri, Vengoor &amp; Velichai</td>
<td>Primary school, ACDS centre &amp; Community hall</td>
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<td>Jan-06</td>
<td>Kattankulathur, Thirupurur &amp; Town panchayat</td>
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<td>Feb-06</td>
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<td>Mar-06</td>
<td>St.Mount &amp; Thiruporur</td>
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<td>Middle &amp; Primary school</td>
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<td>Apr-06</td>
<td>Thiruporur &amp; Vadaneveli</td>
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<td>Month</td>
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<td>Location B</td>
<td>Location C</td>
<td>Location D</td>
<td>Location E</td>
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<td>June 06</td>
<td>Karumbakkam &amp; Nellikuppam</td>
<td>Karumbakkam &amp; Nellikuppam</td>
<td>Middle school &amp; Community Hall</td>
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<td>July 06</td>
<td>Orgadam, Semencheri &amp; Meyur</td>
<td>Orgadam, Semencheri &amp; Meyur</td>
<td>Middle &amp; Primary school, Tsunami nagar</td>
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<td>Aug 06</td>
<td>Thiruporur &amp; Thiruporur town panchayat</td>
<td>Thandarai &amp; Thiruporur</td>
<td>CSI &amp; Hr.Sec. School</td>
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<td>Sep 06</td>
<td>Thirukazhukundram, Thiruporur &amp; St.Mount</td>
<td>Manamai, Navallur, Reddikuppam &amp; Kottivakkam</td>
<td>Primary school &amp; Navallur city light</td>
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<td>Oct 06</td>
<td>Thirukazhukundram &amp; St.Mount</td>
<td>Kottivakkam &amp; Sadras</td>
<td>Primary school &amp; Community hall</td>
<td>424</td>
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<td>Nov 06</td>
<td>Kundrathur</td>
<td>Padappai</td>
<td>Hr. school</td>
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<td>Dec 06</td>
<td>St.Mount</td>
<td>Karappakkam &amp; Semencheri</td>
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<td>Jan 07</td>
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<td>Sholinganallur &amp; Illalur</td>
<td>Hr.Sec.school - Sholinganallur &amp; Illalur</td>
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<td>Feb 07</td>
<td>Thiruporur &amp; Thirukazhukundram</td>
<td>Padur, Kanathur &amp; Mamallapuram</td>
<td>Middle &amp; Primary Schools</td>
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<td>Mar 07</td>
<td>Thiruporur</td>
<td>Madayathur</td>
<td>Primary school</td>
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<td>Apr 07</td>
<td>Poonamalle, Thiruporur &amp; Thirukazhukundram</td>
<td>Thirumazhisai, Nemeli &amp; Sadras kuppam</td>
<td>Sundram School, Nemeli Hr.sec.school &amp; Sadras kuppam community school</td>
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<td>May 07</td>
<td>Thiruporur, Lathur &amp; Pavanjore</td>
<td>Muttukadu, Thandarai &amp; Nergunapattu</td>
<td>Primary school &amp; Kanniyanman Kovil</td>
<td>392</td>
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<td>June 07</td>
<td>Sadra Primary Health centre</td>
<td>Pudhupattinam &amp; Sembakkam</td>
<td>Hr. Sec. School</td>
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Signature: [Signature]
Date: 20/8/02
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<tr>
<th>Date</th>
<th>Speciality Camps</th>
<th>Total Patients</th>
<th>Location</th>
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<tr>
<td>19.01.07</td>
<td>Diabetics</td>
<td>119</td>
<td>Sirucheri</td>
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<td>20.01.07</td>
<td>Children camps (polio drops given)</td>
<td>128</td>
<td>Kuthavakkam</td>
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<td>22.01.07</td>
<td>Surgery camp</td>
<td>51</td>
<td>Sholinganallur</td>
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<td>23.01.07</td>
<td>Opthal Camp</td>
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<td>Neykuppi &amp; Sadras</td>
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<td>24.01.07</td>
<td>ENT</td>
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<td>Vitalapakkam</td>
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<td>25.01.07</td>
<td>Ortho</td>
<td>30</td>
<td>Sirucheri</td>
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<td>27.01.07</td>
<td>Gync. Clinic</td>
<td>46</td>
<td>Kanagapattu, Karanai &amp; Sadras</td>
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<td>29.01.07</td>
<td>Dental</td>
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<td>04.04.07</td>
<td>Bone Density camp</td>
<td>254</td>
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</table>
II. Composition of the Expert Committee.

1. Prof. D. Singh Chauhan, Member, UGC, Vice-Chancellor, Jaypee University of Information Technology, Waknaghat, 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. Sesha Sayee, HOD, Surgery, Rajeshwari Medical College, Kharpipura, 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, Changan.

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.
## III. Inspection Report

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1.</td>
<td>Headquarter of the proposed Institute Applied for Deemed to be University Status with full address</td>
</tr>
<tr>
<td>2.</td>
<td>(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.</td>
</tr>
<tr>
<td></td>
<td>: YES New Trust has been formed named as “CHETTINAD ACADEMY OF RESEARCH &amp; EDUCATION (CARE)” On 30.03.2007 Document Enclosed -Annexure -1</td>
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<tr>
<td>3.</td>
<td>Details of the individual institution i.e., year of establishment, No. of PG Departments, Faculty (Professors, Readers, Lecturers) etc.</td>
</tr>
<tr>
<td></td>
<td>: Chettinad Hospital &amp; 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</td>
</tr>
<tr>
<td>4.</td>
<td>Whether Movable and immovable assets have been legally transferred in the name of the society/trust seeking recognition as Deemed to be University</td>
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<tr>
<td></td>
<td>: Yes Affidavit already submitted assuring that movable and immovable assets will be transferred soon after getting Letter of Intent Annexure – 2</td>
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<td>5.</td>
<td>Territorial jurisdiction of the Institution(s)</td>
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<td></td>
<td>: INDIA</td>
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<tr>
<td>6.</td>
<td>Thrust areas of the proposed institution(s) indicating special or innovative features.</td>
</tr>
<tr>
<td></td>
<td>: Academic Activities Ongoing Research Programmes Innovative Research Programmes in emerging Areas</td>
</tr>
</tbody>
</table>

### ONGOING RESEARCH PROGRAMMES:

- 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)
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- Comparison of epidural tramadol with butorphanot for post operative pain relief (Dr.Balaji et al, Anaesthesiology)

Multicentric International clinical trials at Dept. of Nephrology (Dr.Thiagarajan & Dr.Divakar)
- Triallink-M.O.S.T' Study, Novartis Co. Ltd
- TranCento study Roche co. Ltd
- Vidor study, Roche co. Ltd
- Ascertin Study, Novartis co. Ltd
- Linezolid vs. vancomycin in treatment of catheter related infections in haemodialysis patients, Pfizer Ltd
- Progis, Novartis India Ltd
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- Study of impact of night shift on human health & economy (Dr. Ruckmani et al, Pharmacology)
- Coverage Evaluation of Immunization Programme in Kanchipuram Dist (Dr. Murali et al, Comm. Med)
- Epidemiological profile of Snakebite and Treatment seeking behaviour among rural population of Kanchipuram Dist (Dr. Murali et al, Comm. Med)
- Incidence of congenital hypothyroidism (Dr. Venkateswaran et al, Paediatrics)

- Study of incidence of Vit A deficiency in school going children (Dr. Suresh et al, Paediatrics)
- Evaluation of parental knowledge and practices of asthma in children (Dr. Ganesh et al, Paediatrics)
- Incidence of diabetic retinopathy in rural population (Dr. Meenakshi Pande et al, Ophthalmology)
- Analysis of refractive errors in children aged 12 years and less (Dr. Ram Prakash et al, Ophthalmology)
- A Study of Adenoidal Hypertrophy in Adults (Dr. Srinivasan et al, ENT)
- Prevalence of Fungal Infection in Nasal Polyps (Dr. Srinivasan et al, ENT)
- Prevalence of Metabolic syndrome in young women with polycysticovarian syndrome (Dr. Nirmala et al, OBG)

Medical Education
1. Preservation and Mounting of Human Specimens by Plastination technique in the museum. (Dr. Sarala et al, Anatomy)
2. A Comparative evaluation in Museum mounting techniques (using Kaiserling and formalin). (Dr. Archana et al, Anatomy)
3. Integrated teaching of Biochemistry – Implementation & Evaluation (Dr. Malligai et al, Biochemistry)
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)
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 -1 (Covering courses 101, 102 & 103)

Semester - II
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
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 (Cartilaginous & 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.
- 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
**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

**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)
  
    - 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 haemolymph 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**
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)
* 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 rectos abdominis 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**
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
PRACTICAL - I

* Proximate analysis of marine drugs to determine extractive values, ash values, insoluble matter, foreign matter, welling 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 finsishes
* 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
Basic Aim to start B.Sc(AHS) Course

- To Train Students in 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:
- a. Physics, Chemistry, Biology and Mathematics (or)
- b. Physics, Chemistry, Botany and Zoology

COURSE FORMAT
Duration: 4 Years (3 years 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:
- Microbiology
- Pathology
- Pharmacology
- Sociology
- Community Medicine
- Bio Physics
  (At the beginning 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
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 Work - Nanorobotics

- 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 |
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
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 & software applications in clinical research

SEMESTER II
MCRC 201 - General Pharmacology
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  - Pharmacovigilence & safety reporting  
MCRC304  - Bioanalytical equipments & GLP

**SEMESTER IV**  
MCRC 401  - Project work

<table>
<thead>
<tr>
<th></th>
<th>Date(s) of visit of the Expert committee</th>
<th>19th &amp; 20th August 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Is the proposal under De Novo Category: if yes please give justification.</td>
<td><strong>Yes - Under De Novo Category</strong></td>
</tr>
<tr>
<td>8.</td>
<td>Whether accredited by NAAC, if yes, rating?</td>
<td><strong>N.A - only MCI, NCI standards and norms applicable.</strong></td>
</tr>
<tr>
<td>10.</td>
<td>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.</td>
<td><strong>Yes, Affiliated to The Tamilnadu Dr. M.G.R Medical University ANNEXURE - 4</strong></td>
</tr>
<tr>
<td>11.</td>
<td>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.</td>
<td><strong>Yes</strong></td>
</tr>
</tbody>
</table>
| 12. | Source of finance and quantum of funds available-
From fees; | **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  
| | | **From State Govt**: Nil  
| | | **From UGC**: Nil  
| | | **From other sources (details)**: Nil  
| 13. | Whether the institution(s) is financially and academically viable to run the institution(s) as Deemed to be University. | **Yes** |
### Medical - Income in Lakhs

<table>
<thead>
<tr>
<th>Particulars</th>
<th>2006 - 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Op. Registration Income</td>
<td>10.43</td>
</tr>
<tr>
<td>Lab Income</td>
<td>24.13</td>
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<tr>
<td>Radiology Income</td>
<td>16.25</td>
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<tr>
<td>Treatment Charges</td>
<td>21.41</td>
</tr>
<tr>
<td>Inpatients Income</td>
<td>74.16</td>
</tr>
<tr>
<td>Ambulance Income</td>
<td>3.64</td>
</tr>
<tr>
<td>Pharmacy Revenue</td>
<td>36.00</td>
</tr>
<tr>
<td>Rent Income</td>
<td>6.67</td>
</tr>
<tr>
<td>College Fees Collection</td>
<td>600.00</td>
</tr>
<tr>
<td>Other Income</td>
<td>41.93</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>834.62</strong></td>
</tr>
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</table>

### Medical - Expenditure in Lakhs

<table>
<thead>
<tr>
<th>Particulars</th>
<th>2006-2007</th>
</tr>
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<tbody>
<tr>
<td>Salary Expenses</td>
<td>771.22</td>
</tr>
<tr>
<td>Students Mess Expenses</td>
<td>17.04</td>
</tr>
<tr>
<td>Consumables</td>
<td>89.74</td>
</tr>
<tr>
<td>Inspection Fees</td>
<td>5.55</td>
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<tr>
<td>Electricity Expenses</td>
<td>166.30</td>
</tr>
<tr>
<td>Repairs &amp; Maintenance Cost</td>
<td>63.50</td>
</tr>
<tr>
<td>House Keeping Charges</td>
<td>79.13</td>
</tr>
<tr>
<td>Security Charges</td>
<td>24.89</td>
</tr>
<tr>
<td>Biomedical Waste Disposable Exps.</td>
<td>1.20</td>
</tr>
<tr>
<td>Misc. Expenses*</td>
<td>71.60</td>
</tr>
<tr>
<td>Printing &amp; Stationery Expenses</td>
<td>31.02</td>
</tr>
<tr>
<td>Travelling Expenses</td>
<td>73.98</td>
</tr>
<tr>
<td>Preoperative Expenditure</td>
<td>100.00</td>
</tr>
<tr>
<td>including salary, power</td>
<td></td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>1495.17</strong></td>
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</table>

**Note:** *Includes the following expenses – Workshops – 2.00 Lakhs, Books – 17.04 Laksh, & Journals – 4.00 Lakhs Conference – 1.00 Lakhs, Seed Money for Research – 10.00 Lakhs*

### Nursing – Cash Flow Statement

<table>
<thead>
<tr>
<th>Details</th>
<th>2006 - 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receipt</td>
<td></td>
</tr>
<tr>
<td>Recurring Revenue (Fees)</td>
<td>1.46</td>
</tr>
<tr>
<td>Payments</td>
<td></td>
</tr>
<tr>
<td>Recurring Expenses Less Depreciation</td>
<td>52.34</td>
</tr>
</tbody>
</table>
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 - Annexure - 5

16. Details of UG/PG courses started/ to be started  
UG Courses:  
1. MBBS. - 2006 Annual intake of 150 Students.  
2. B.Sc., Nursing, -2006 Annual intake of 50 Students.  

Courses to be Started:  
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.  
2. B.Pharm  
3. PMR (BPT & MPT)  
4. DNB  
5. M.Sc., Nursing  
6. DMLT

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 - Annexure - 6

18 Whether various authority and bodies of the institute are in accordance with the provisions of the UGC Guidelines.  
Yes  
Original Affidavit Enclosed.  
Annexure - 7

INFRASTRUCTURE: (give details)

19 Details of Buildings  
1. Permanent  
Yes  
Details of the Buildings ANNEXURE - 8

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  
5 Nos.  
Bio-Chemistry  
Microbiology  
Clinical Pathology  
Blood Bank  
Central Research Lab  
Every ward is provided with side labs.
<p>| | |</p>
<table>
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</thead>
</table>
| 22. Whether students already admitted, if yes give details course-wise | **Medical**
|   | MBBS - 150 students per year
|   | 2006 – 150 students admitted
|   | 2007 – admission in progress
|   | **Nursing**
|   | Nursing – 50 students per year
|   | 2006 – 6 Students admitted
|   | 2007 – Admission in progress
| 23. Hostel facilities, give details | **Separate Hostel accommodation for Boys & Girls**
|   | **Medical:**
|   | **Boys Hostel:** 150 Students
|   | Total No. of Accommodation: 50 Rooms with triple sharing basis
|   | **Girls Hostel:** 150 Students
|   | Total No. of Accommodation: 50 Rooms with triple sharing basis
|   | **Junior Resident Accommodation:**
|   | **Boys Hostel:** 60 Persons
|   | Total No. of Accommodation: 30 Rooms with Double sharing basis
|   | **Girls Hostel:** 60 Persons
|   | Total No. of Accommodation: 30 Rooms with Double sharing basis
|   | **Nursing:**
|   | **Girls Hostel:** 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
<table>
<thead>
<tr>
<th>26</th>
<th>Area in Sq. meters</th>
<th>Total Area - 24,000 Sq.ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>Number of Journals;</td>
<td>Medical</td>
</tr>
<tr>
<td></td>
<td>b. International</td>
<td>International – 12 Nos</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nursing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>National Journal – 7 Nos</td>
</tr>
<tr>
<td></td>
<td></td>
<td>International – 4 Nos.</td>
</tr>
<tr>
<td>28</td>
<td>Is it digital Library</td>
<td>Yes</td>
</tr>
<tr>
<td>29</td>
<td>Does it have reprographic and bar-coding facilities</td>
<td>Yes</td>
</tr>
<tr>
<td>30</td>
<td>Whether Equipments, Books and Journals are worth Rs.50 lakhs</td>
<td>Yes</td>
</tr>
<tr>
<td>31</td>
<td>Books / Equipment – give details</td>
<td>Hand out with CD Enclosed – Annexure – 9A + 9B</td>
</tr>
</tbody>
</table>

**FACULTY AND OTHER STAFF**

| 32 | Whether teaching staff appointed, if yes give details | Yes |
|    | Appointed Medical Nursing | - ANNEXURE - 10 |

<p>| 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 |
|    | Medical Pre and Para clinical |
|    | 1. Anatomy |
|    | 2. Physiology |
|    | 3. Biochemistry |
|    | 4. Pathology |
|    | 5. Microbiology |
|    | 6. Community Medicine |
|    | 7. Forensic Medicine |
|    | 8. Pharmacology |
|    | Clinical |
|    | 9. General Medicine |
|    | a. Dermatology |
|    | b. TB &amp; Chest |
|    | c. Psychiatry |
|    | 10. Paediatrics |
|    | 11. General Surgery |
|    | a. Ophthalmology |
|    | b. ENT |
|    | 12. Orthopaedics |
|    | 13. Obstetrics &amp; Gynaecology |
|    | 14. Anaesthesia |
|    | 15. Radio Diagnosis |</p>
<table>
<thead>
<tr>
<th>Community Health Centre Out Reach Programmes</th>
<th>Academic Activities</th>
<th>Research Activities:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Not Applicable</td>
<td>1. On going research programmes in Emerging Areas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Innovative Programmes in Emerging Areas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Conference Study Centre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Workshops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Work is on progress for Tele Conferencing</td>
</tr>
</tbody>
</table>

38. Whether the institution has undertaken any research activities. If so, please give details.

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?

36. Whether the Deemed University is running distance Education Programme, if yes, has it been approved by DEC/UGC?

35. Whether Non-teaching staff appointed. If yes, give details.

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 per University's guidelines?

- ANNEXURE - II

Nursing Fundamentals of Nursing
Maternity Lab & Paediatrics
Community Health Nursing
Computer
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:

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

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
<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.</td>
<td>Whether the faculty members organized or attended international / National Conferences / Workshops, if so, give details</td>
<td>Yes - ANNEXURE - 12</td>
</tr>
</tbody>
</table>
| 40. | Other facilities available at the institute(s) (give details) which are necessary to support Deemed to be university status | 1) Central manifold  
2) Animal House  
3) Mortuary  
4) Laundry  
5) CSSD  
6) Biomedical Waste Management  
7) Ambulance Services  
8) Central Clinical Lab  
9) Blood Bank  
10) Diet Kitchen  
11) Radio diagnosis  
12) Pharmacy  
13) Generator  
14) Pneumatic Chute System for transporting the specimens for Investigations  
15) Helipad  
16) Power House  
17) Sports Activities  
   i) Indoor Games  
      a) Table Tennis  
      b) Chess  
      c) Carrom Board  
      d) Gymnastics  
      e) Body Building  
   ii) Outdoor Games  
      a) Hockey  
      b) Football  
      c) Basket Ball  
      d) Volley Ball  
      e) Cricket  
      f) Volleyball  
      g) Tennis  
      h) Shuttle  
      i) Badminton etc. |
| 41. | Fee structure: Give Details | Medical College  
        MBBS, - Tuition Fee Rs. 3,00,000/- per year  
        Nursing College  
        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 31st December of |
the Year of Admission to the Course.

Minimum Eligibility Criteria for admission to Medical Courses in Govt/ Unaided non minority & unaided minority Institute in Tamil Nadu MBBS

OC. Minimum of 60% marks in Biology or Botany & Zoology take together, 60% marks in each of Physics, Chemistry. Aggregate Should not be less than 140 out of 200

BC. Minimum of 60% marks as in Item No.1, above aggregate should not be less than 130 out of 200.

MBC. Minimum of 55% marks in Biology taken together 55% in each of Physics & Chemistry. Aggregate should not be less than 120 out of 200.

SC. Minimum of 40% marks in Biology taken together 40% in each of physics & Chemistry. Aggregate should not be less than 80 out of 200.

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.

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.

Yes

EXAMINATION SYSTEM

MEDICAL
1st Year

1. Commencement of Examination :
   a) August 1st / February 1st
   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
At the end of one academic year
b) Phase – II – Professional examination
   At the end of 1 ½ years from the commencement of Phase II
c) Phase – III – Part I professional Examination :
   At the end of one year of Phase III
d) Part II professional (Final professional) examination
   At the end of 2nd year of Phase II

3. Exemption in passed subjects :
   Candidates who fail in an examination but obtain pass mark in any subject, shall be exempted from re-examination in that subject.

4. Carryover of failed subjects :
   a) Passing in First MBBS professional examination is compulsory before proceeding to phase II training
   b) A student who fails in the II MBBS professional shall be permitted to carry the failed subjects to Phase III of the M.B.B.S Course but shall not be allowed to appear in III MBBS Professional part I examination unless he/she passes all the subjects of the II MBBS professional examination is compulsory before entering part II of Phase II (final year) of the course
   c) Passing in III MBBS Professional (part I) examination is not compulsory before entering for Part II training; however passing of III MBBS Professional (Part I) is compulsory for being eligible to appear for III MBBS professional (part II) examination.

2nd Year

1. Commencement of Examination :
   a. August 1st / February 1st
   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 : At the end of one academic year
   b. Phase – II – Professional examination : At the end of 1 ½ years from the commencement of Phase II
   c. Phase – III – Part I professional Examination : At the end of one year of Phase III
   d. Part II professional (Final professional) examination : At the end of 2nd year of Phase II

3. Exemption in passed subjects :
   Candidates who fail in an examination but obtain pass mark in any subject, shall be exempted from re-examination in that subject.

4. Carryover of failed subjects :
   a. Passing in First MBBS professional examination is compulsory before proceeding to phase II training
   b. A student who fails in the II MBBS professional shall be permitted to carry the failed subjects to Phase III of the M.B.B.S Course but shall not be allowed to appear in III MBBS Professional part I examination unless he/she passes all the subjects of the II MBBS professional examination. Passing in II MBBS professional examination is compulsory before entering part II of Phase III (final year) of the course
3rd Year

1. Commencement of Examination:
   a. August 1st/February 1st
   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:
   III MBBS part I examination shall be conducted at the end of one academic year of study in Phase III
   III MBBS part II examination shall be conducted at the end of two academic years of study in Phase III.

3. Exemption in passed subjects:
   Candidates who fail in an examination but pass in one or more individual subjects shall be exempted from re-examination in the passed subjects.

4. Carroyover of failed subjects:

1. A student who fails in the II MBBS at the end of Phase II shall be permitted to carry the failed subjects to phase III of the MBBS course but shall not be allowed to appear in III MBBS Part I examination unless he/she passes all the subjects of the II MBBS examination. Appearing for III MBBS Part examination is compulsory before entering part II of Phase III i.e., the final year of the course.
2. Passing in III MBBS part I examination is not compulsory before entering for Part II training; however, passing of III MBBS part I examination is compulsory for being eligible to appear for III MBBS part II examination.

NURSING

Internal Assessment Marks

The Internal Assessment should consist of the following points for evaluation:
1. Theory
2. Practical/Clinical
3. Viva

The Uniform dates for submission of internal assessment marks are as follows:

For the subjects of one year duration:

At the end of January, April & June for 100 Marks and the aggregate of Final internal assessment marks on or before 10th July.

For the subjects of 18 months duration:

At the end of January, June & December for 100 marks and aggregate of Final Internal assessment marks on or before 10th January.

The aggregate of Final Internal Assessment Marks submitted on or before 10th July/10th January as per scheme of examination shall be taken by the University as Internal Assessment Marks and a Minimum of 35% of marks is mandatory for permitting the candidates to University Examinations.
**Cut-off Dates for admissions to examinations:**

1. 30\textsuperscript{th} September of the Academic year Concerned
2. The candidates admitted up to 30\textsuperscript{th} September of the academic year shall be registered to take up their 1\textsuperscript{st} year Examination during August of the Next Year.
3. All kinds of admissions shall be completed on or before 30\textsuperscript{th} September of the academic year. There shall not be any admission after 30\textsuperscript{th} September even if seats are vacant.

**Attendance Required for admissions to examinations:**

1. No candidate shall be permitted to any one of the parts 01 B.Sc., Nursing (Basic) Degree Course Examination unless he/she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University and has produced the necessary certificate of study, attendance and progress from the head of the institution.
2. A candidate is required to put in a minimum 75\% of attendance to both theory and practical separately in each subject before admission to the examination.
3. A candidate lacking in the prescribed attendance and progress in any one subject in theory and practical in the first appearance shall be denied admission to the entire examination.
4. Failed candidates who are not promoted to the next phase of study are required to put in a minimum 75\% of attendance during the extended period of study before appearing for the next examination.
5. Attendance earned by the students should be displaced on the notice board of the college at the end of every 3 months and a copy of the same should be sent to the university and parents of the students concerned who are lacking minimum attendance.
6. A candidate must have 100\% attendance in each of the practical/Clinical area before award of degree.

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<tbody>
<tr>
<td>44</td>
<td>Whether the institute is following standards/norms prescribed by statutory councils like AICTE, MIC etc. as the case may be in respect of professional courses.</td>
</tr>
<tr>
<td>45</td>
<td>Whether the institute has given necessary undertakings/assurance as per UGC Guidelines; please attach the same.</td>
</tr>
</tbody>
</table>
OBSERVATIONS OF THE COMMITTEE

MEDICAL COLLEGE:

Chettinad Hospital and Research Institute was started in the year 2006 with an annual intake of 150 students with the approval of Medical Council of India and Central Government of India and was also permitted to admit students in the 2nd year by the Medical Council of India and Central Government of India vide their letter No. F. NO. U.120122/213/2005-ME(P-II) dated 28th March 2007.

At present the college has 150 students in 1st year and 150 students in second year.

In the first year Anatomy, Physiology, Biochemistry are taught to the students. During the second year Pathology, Microbiology and Forensic Medicine are taught.

Inspection was carried out physically in each department by the Team of Inspectors. The following observations were made,

1) Anatomy: The inspection team visited the Department including, Museum, Cold storage, Dissection hall, Demo room administrative rooms and the departmental library. All the infrastructures were available as per the norms of MCI. Actual teaching was inspected and the inspection team interacted with the students and faculty members and it was found satisfactory. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were Physically verified and it was as per MCI norms except that one post of Associate Professor in Anatomy was vacant. The institute administrators has promised to fill this post on priority basis shortly. The office space for the faculty member was also inspected and it was found adequate as per MCI norms.

2) Physiology: The Department including, Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were Physically verified and it was found as per MCI norms except that one post of Associate Professor in Physiology was vacant. The institute authorities has promised to fill it on priority basis very shortly. The office space for the faculty member was also inspected and it is available, as per MCI norms.
3) Biochemistry: The Department including Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was found as per MCI norms. The office space for the faculty member was also inspected and it is available as per MCI norms.

4) Pathology: The Department including Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was found as per MCI norms. The office space for the faculty member was also inspected and it was found adequate as per MCI norms.

5) Microbiology: The Department including Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The museum in the Microbiology Department was excellent. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was found as per MCI norms. The office space for the faculty member was also inspected and it is available, as per MCI norms.

6) Pharmacology: The Department including Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was available as per MCI norms except one Pharm. Chemist and the Institution authorities has promised to fill up the vacant position on priority basis shortly. The office space for the faculty member was also inspected and it is available, as per MCI norms.

7) Forensic Medicine: The Department including Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was found as per MCI norms. The office space for the faculty member was also inspected and it is available as per MCI norms. Autopsy room facilities are adequate.
8) Community Medicine: The Department including, Lab, Demo room administrative rooms and the departmental library was inspected by the Inspection team. All the infrastructures were available as per the MCI norms. The strength of the faculty members – Professors, Associate Professors, Lecturers and Tutors were physically verified and it was found as per MCI norms. The office space for the faculty member was also inspected and it is available as per MCI norms. The rural and urban health centres facilities are adequate and both centres are being used for outreach programmes by the institute.

9) Central Library: The Central Library was inspected by the team members. The total no. of books were 7000 and above. There were 28 national Journals and 12 International Journals. The space of the Central Library is adequate as per MCI norms. The strength of the Library staff including Librarian/Assistant Librarian are as per MCI norms. They have Binding Room, Computer Room and has units with Internet facility. They have got e-journals and periodical subscription and they also have free access to 625 journals.

10) Central Research Lab: The Central Research Lab is adequately equipped and functional.

11) Hospital: The total number of beds at present are 415 and are adequate at present. The hospital is well equipped and it has all the facilities such as Infrastructure, Equipments, Emergency Services, Clinical Material and Labs as per requirement. The Lab work load is adequate and proportionate to the clinical workload of the department. The other supporting departments like Anaesthesia, Radiology-Diagnostics etc., are fully equipped and the faculty and staff is adequate in strength.

12) Salary and allowances: All the faculty staff and paramedical employees are being paid salary higher than the salary paid to their counterpart in Government/Public institutions elsewhere.

13) Hospital Data: It is available in Annexure - 14 which is attached herewith.

14) Hostel: The team of inspectors visited the hostel blocks of Nursing and Medical students. Physical inspection of each room was done and found satisfactory. The hostels also has adequate facilities such as dining room, reading room and gymnasium. The wardens of the hostels were present during the inspection.
2) **COLLEGE OF NURSING : B.SC NURSING COURSE**
Chettinad Academy of Research & Education
(CARE)

I. Infrastructure Facilities:

   a. Education:
      i. Curriculum- Following the Curriculum of MGR University of Health Sciences

      ii. Teaching – Learning Process
          - All the records are complete and satisfactory

      iii. Evaluation process
          - All the records are complete and satisfactory

   b. Practice
      - A Medical college Hospital of 415 bed strength with excellent learning materials is available for the practice of hospital nursing

      - Infrastructural facilities are adequate and satisfactory

   c. Community Outreach Programmes
      - The teachers and students participate in health camps of the institution

      - The materials for learning and practice are adequate and satisfactory

II. Students' admission detail

   a. Prerequisites are in accordance with the norms of MGR University of Health Services

   b. Attendance register, leave records are present and satisfactory

   c. Hostel:
      i. Facilities are satisfactory
      ii. Suggested to have book rack for each student
III. Faculty Detail

a. Recruitment & selection process – satisfactory

b. Qualification & experience are as per INC regulation

c. Personal file documents are as per INC regulation

d. Job description & Job policies are as per the university regulations

IV. Supporting Facilities

a. Physical Facilities
   - Presently one floor of the academic block is exclusively allotted to College of Nursing
   - Classrooms and labs set up are according to INC norm
   - Library facilities are adequate. Computer & internet facilities are available
   - Audio Visual aids are adequate
   - Departments – are spacious and well – set up
   - Total space area – 56,720 sq.ft

(More than INC requirement)

V. Shared facilities available and satisfactory

a. Central library

b. Auditorium

c. Basic Health Sciences labs

d. Recreation Facilities

VI. Suggestions

a. Few teaching staff need to register their additional professional qualification to Tamil Nadu State Nursing Council

b. To conduct few more research activities
Recommendation of the Committee:

The following factors have been taken into consideration by the Committee on arriving at the final recommendations:

- The Medical and Nursing Colleges established in a rural area. The hospital attached to the colleges caters the needs of the poor people.

- Availability of required infrastructural facilities

- Various laboratories are equipped with most modern and up-to-date instruments/equipments and accessories in a short span of time.

- Sound financial viability.

- Interaction with faculty students and staff.

- Verification of relevant documents

The Committee unanimously recommends that Deemed to be Univesity status under De-Nova category be conferred to Chettinand Academy of Research and Education (CARE) which includes Medical and Nursing Colleges together initially for a period of five years with a provision of annual review.

(D.S.Chauhan) 20/8/07
(Mrs.) Ratna Prakash 20/8/07

(C.S.Dhull) (Sesha Sayec) (N.S.Hadke) (Ashutosh Kar)

(Pankaj Patel) (Kochu Therisamma)