



# **Chettinad**

**Academy of Research & Education**

(Deemed to be University Under Section 3 of the UGC Act 1956)

**Accredited by NAAC with A Grade**

## **ANNUAL QUALITY ASSURANCE REPORT 2016-17**

**SUBMITTED TO  
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
BENGALURU**

## The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

### Part – A

**AQAR for the year (for example 2013-14)**

2016-17

#### 1. Details of the Institution

1.1 Name of the Institution

**CHETTINAD ACADEMY OF RESEARCH AND EDUCATION**

1.2 Address Line 1

Rajiv Gandhi Salai (OMR),

Address Line 2

Padur

City/Town

Kelambakkam

State

Tamil Nadu

Pin Code

603 103

Institution e-mail address

registrar@chettinadhealthcity.com

Contact Nos.

04447411000

Name of the Head of the Institution:

Prof.Dr.K.Ravindran

Tel. No. with STD Code:

044-47413330

Mobile:

9094019000

Name of the IQAC Co-ordinator:

Prof.Dr.D.C.Mathangi

Mobile:

9940635874

IQAC e-mail address:

iqac@chettinadhealthcity.com

1.3 **NAAC Track ID** (For ex. MHCOGN 18879)

TNUNGN10151

**OR**

1.4 **NAAC Executive Committee No. & Date:**

(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

EC/71/A&A/5.2, Dated 16<sup>th</sup> November 2015

1.5 Website address:

<http://www.chettinadhealthcity.com/university/index.htm>

Web-link of the AQAR:

<http://www.chettinadhealthcity.com/iqac/aqar.htm>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.83	2010	5
2	2 <sup>nd</sup> Cycle	A	3.10	2015	5
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

01/06/2010

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 28/10/2016 (DD/MM/YYYY)  
 ii. AQAR NA (DD/MM/YYYY)  
 iii. AQAR NA (DD/MM/YYYY)  
 iv. AQAR NA (DD/MM/YYYY)

1.9 Institutional Status

University State ☐ Central ☐ Deemed ☒ Private ☐

Affiliated College Yes ☐ No ☒

Constituent College Yes ☒ No ☐

Autonomous college of UGC Yes ☐ No ☒

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☐ Rural ☒ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☐ UGC 12B ☐

Grant-in-aid + Self Financing ☐ Totally Self-financing ☒

1.10 Type of Faculty/Programme

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☐ Health Science ☒ Management ☐

Others (Specify)

- Faculty of Medicine
- Faculty of Nursing
- Faculty of Allied Health Sciences

1.11 Name of the Affiliating University (for the Colleges)

NA

### 1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	NA		
University with Potential for Excellence	---	UGC-CPE	---
DST Star Scheme	---	UGC-CE	---
UGC-Special Assistance Programme	---	DST-FIST	---
UGC-Innovative PG programmes	---	other ( <i>Specify</i> )	---
UGC-COP Programmes	---		

### **2. IQAC Composition and Activities**

2.1 No. of Teachers	13		
2.2 No. of Administrative/Technical staff	6		
2.3 No. of students	2		
2.4 No. of Management representatives	2		
2.5 No. of Alumni	1		
2. 6 No. of any other stakeholder and community representatives	1		
2.7 No. of Employers/ Industrialists	1		
2.8 No. of other External Experts	2		
2.9 Total No. of members	28		
2.10 No. of IQAC meetings held	4		
2.11 No. of meetings with various stakeholders:	No.	Faculty	
	7		5
Non-Teaching Staff Students	1	Alumni	1
		Others	Students : 1

2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No ☒

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level ☒

(ii) Themes

- ☐ Introduction to Kaizen for IQAC Members
- ☐ Kaizen workshop for Administrative staff
- ☐ Quality of Research Publications
- ☐ Disaster Management Capacity Building (in association with Disaster Management committee and NSS)
- ☐ IPR & Patent Workshop (in association with IPR Cell)
- ☐ Best Practices of an Academic Institution (in association with MEU)
- ☐ Digital Initiatives of MHRD

2.14 Significant Activities and contributions made by IQAC

- ☐ Reconstitution of IQAC Members
- ☐ Feedback forms – Developed, Standardized, Collected and Analyzed
- ☐ Data compilation for NIRF
- ☐ Training and imparting Quality practices in the institution
- ☐ Quality analysis of Research output of the University

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

S.No.	Month	Proposed Agenda	Status
1.	Documentation	<ul style="list-style-type: none"> <li>◆ NIRF report follow up and plan of action to improve ranking</li> <li>◆ Formation of IQAC Sub Committee</li> </ul>	◆ Completed
		◆ Preparation of the AQAR Review of the AQAR and submission to NAAC	◆ AQAR submitted
	Members	◆ Inclusion of New members in IQAC	◆ Reconstitution of IQAC
		◆ Formation of IQAC Sub Committee	◆ Formed
2	Developmental Programs	◆ Seminar on Kaizen for IQAC Members	19.8.2016
		◆ Workshop on Kaizen for administrative staff	27.01.2017
		◆ Quality of Research Publications	10.04.2017
		◆ Disaster Management Capacity Building (in association with Disaster Management committee and NSS)	12.04.2017
		◆ IPR & Patent Workshop (in association with IPR Cell)	08.06.2017
		◆ Best Practices of an Academic Institution (in association with MEU)	07.07.2017
3.	National Conference	◆ National Seminar on "Best Practices in Academic and Administrative Audit"	◆ Theme, probable speakers, budget etc have been identified.
		◆ To submit Proposal to NAAC for funding the National Conference	<ul style="list-style-type: none"> <li>◆ Submitted, however requested to resubmit with changed dates</li> <li>◆ This was done in March 2017</li> <li>◆ Awaiting the response from NAAC</li> <li>◆ as it was felt that Conduct of program like this with NAAC sponsorship would be more beneficial for the participants</li> </ul>
4.	Committees of the University	◆ Review of the progress made by various committees of the university	◆ Completed
5.	Department Evaluation Report & Academic Audit	◆ Department Evaluation Report for the period August 2016- December 2016	◆ Half yearly Progress completed

		<ul style="list-style-type: none"> <li>◆ Analysis of University data on a comparative basis (2015 vs 2016) to assess growth in the various criteria as laid down by NIRF</li> <li>◆ Analysis of quality of output including innovative teaching methodologies, research publications and funding, Student placement, etc</li> <li>◆ Action plan based on the data analyzed</li> </ul>	<ul style="list-style-type: none"> <li>◆ Analyzed – major analysis was on the research output of the departments</li> <li>◆ Faculty and students were impressed on Quality of research through IQAC Programs on               <ol style="list-style-type: none"> <li>1. Impact of Quality of Research Publication</li> <li>2. Workshop on IPR &amp; Patent Filing</li> </ol> </li> </ul>
7.	Feedback	<ul style="list-style-type: none"> <li>◆ Obtaining Feedback from various stake holders of the University</li> <li>◆ Analysis and plan of action based on feedback obtained</li> </ul>	<ul style="list-style-type: none"> <li>◆ Feedback forms – developed, obtained and analysed. Actions have been taken based on the outputs from the feedback</li> </ul>
8.	National Conference	◆	◆
9.	Best Practice	◆ Review of the Best Practices of the University	◆ All departments have been requested to identify 2 best practices

*\* Attach the Academic Calendar of the year as Annexure: refer Annexure 1*

2.15 Whether the AQAR was placed in statutory body    Yes ☒ No ☐

Management ☐ Syndicate ☒ Any other body ☐

Provide the details of the action taken

AQAR presented at IQAC Meeting  
Presented at the Board of Management and it was approved



**Criterion – I****1. Curricular Aspects****1.1 Details about Academic Programmes**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	1	-	1	All Courses are career Oriented programmes
PG	35	-	35	
UG	7	-	7	
PG Diploma	1	-	1	
Advanced Diploma	-	-	-	
Diploma	-	-	-	
Certificate	-	-	-	
Others (D.M., M.Ch.)	7	-	7	
<b>Total</b>	51	-	51	

Interdisciplinary	19	-	19	
Innovative	11	-	11	

**1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options****(ii) Pattern of programmes:**

Pattern	Number of programmes
Semester	20
Trimester	---
Annual	4
End of Course	27

**1.3 Feedback from stakeholders\*  
(On all aspects)**

Alumni ☒ Parents ☒ Employers ☒ Students ☒

Mode of feedback : Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

**\*Please provide an analysis of the feedback in the Annexure : Refer Annexure 2**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

**Salient Modifications/Updates:**

**1. Syllabus Revision for:**

- a) "Biostatistics and Research Methodology" in I Semester in M.Sc.(Human Nutrition) - implemented with effect from 2016-18 batch onwards.
- b) "Medical and Food Microbiology" – in II Semester in M.Sc.(Human Nutrition) – implemented with effect from 2016 – 18 batch onwards.
- c) "Biostatistics and Research Methodology" – in I Semester in M.Sc.(Occupational Health and Industrial Safety) – implemented with effect from 2016 – 18 batch onwards.
- d) M.D.( Biochemistry) – implemented with effect from 2017 – 18 batch onwards.
- e) "Microbiology – Paper I" – in II Semester for all B.Sc. AHS Programs – implemented with effect from 2017-21 batch onwards.
- f) "Clinical Microbiology, Pathology and Biochemistry" – in III Semester of B.Sc, AHS (Emergency Room & Trauma Care Technology) program - implemented with effect from 2017-21 batch onwards.
- g) "Pathology" – in II Semester for all B.Sc. AHS programs – implemented with effect from 2017-21 batch onwards.
- h) "Basics in Medical Physics and Electronics" – in I Semester of all B.Sc. (AHS) programs – implemented with effect from 2017 – 21 batch.
- i) B.Sc. AHS (Respiratory Care Technology) - implemented with effect from 2017-18 batch onwards.
- j) B.Sc. Nursing – approved inclusion of Tamil as an optional "Audit Course" in first year curriculum – implemented with effect from 2017-18.

**2. Revision in Scheme of Examination for :**

- (a) M.Sc. Medical Biotechnology and Medical Bionanotechnology – interchanged 'Biostatistics and Research Methodology' to be a core paper and "Biomolecules & Analytical Techniques" to be elective paper in I Semester – implemented with effect from 2016 – 18 batch onwards.
- (b) M.Sc. Medical Genetics & Molecular Diagnostics – shifted "Biostatistics & Research Methodology" from I Semester to be a core paper in III Semester and "Bioinformatics" to be an elective paper III Semester ; Elective paper Memos and Biomems dropped from III Semester; " Biomolecules & Analytical Techniques" included in I Semester – implemented with effect from 2016 – 18 batches onwards.
- (c) M.Sc. Tissue Engineering and Regenerative Medicine – interchanged "Biostatistics and Research Methodology" to be a core paper and "Nanoparticles for Therapeutics" to be an elective paper in III Semester – implemented with effect from 2015 -17 batch onwards.

- (d) B.Sc. AHS (Medical Laboratory Technology) – shifted “Clinical Pathology and Hematology” and its practical from IV Semester to III Semester; shifted “Histopathology” and its practical from III Semester to IV Semester – implemented with effect from 2017-21 batch onwards.
- (e) B.Sc (B.Sc.Medical Biotechnology, B.Sc. Medical Bionanotechnology & B.Sc. Medical Genetics), M.Sc. AHS (Echocardiography & Cardiovascular Imaging Technology, Radiology and Imaging Science Technology), B.Sc. AHS (for all sub-specialities) - changed template as recommended by U.G.C. under Choice Based Credit System – implemented with effect from 2017 – 18 batch onwards.

**3. Revision in Regulations for :**

- (a) B.Sc. Nursing – modified as recommended by Indian Nursing Council (INC) – commencement of Academic sessions by 1<sup>st</sup> October every year and closure of admissions by 31<sup>st</sup> October every year - implemented with effect from 2017- 18.
- (b) B.Sc. Nursing regulations – modified as in Indian Nursing Council (INC) regulations reprint 2016 – implemented with effect from 2017 – 18.
- (c) Ph.D. Degree – modified regulations as per UGC regulations 2016 – implemented with effect from 5<sup>th</sup> May 2016 sessions onwards.
- (d) B.Sc. AHS (all programs) – revised the title “Project” as “Project / Systematic Review” in the IV year internship – implemented with effect from 2014 – 18 batch onwards.
- (e) MBBS – revised the question paper pattern with inclusion of Multiple Choice Questions (MCQs) for Preclinical , Para clinical and Clinical subjects – implemented with effect from June 2018 examination session onwards for all batches.
- (f) 3 year B.Sc. programs – approved conducting a supplementary examination in 3 months since primary examination for those students having not more than 2 arrear papers in Final Semester – implemented with effect from August 2017 for all batches.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Nil

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	323	115	43	73	92

2.2 No. of permanent faculty with Ph.D.	31
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	25	1	3	2	4	0	97	4	129	7

2.4 No. of Guest and Visiting faculty and Temporary faculty	2	9	0
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#### 2.5 Faculty participation in conferences and symposia: (to Add AHS data)

No. of Faculty	International level	National level	State level
Attended	52	37	113
Presented papers	34	24	37
Resource Persons	22	22	67

#### 2.6 Innovative processes adopted by the institution in Teaching and Learning:

- ☐ CBCS followed for all the academic programs under faculty of AHS
- ☐ Smart class rooms & e learning
- ☐ Skills learning (bed side, Skills lab & Simulation models in addition to performance under supervision)
- ☐ Learning through community engagement activities
- ☐ Mentorship
- ☐ Self directed & problem based learning
- ☐ Small group discussion, seminars, journal clubs, quiz, debates, research projects, industrial training & field visits
- ☐ Administrative and management skills, soft skills, ethics
- ☐ Syllabus broken down to modules with difficulty level increasing with each module for better understanding

2.7 Total No. of actual teaching days during this academic year	265-306 days
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Answer Scripts are bar-coded, so that evaluations are blinded. Double evaluation of answer scripts is practiced for Post Graduate Courses.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

208

2.10 Average percentage of attendance of students

80 – 100%  
80 % is Mandatory for MBBS, MD, MS, DM, MCh and Other Courses.  
85% - Nursing Courses

2.11 Course/Programme wise distribution of pass percentage :

Aug 2016 to July 2017							
FACULTY OF NURSING							
SL.NO	COURSE	NO OF CANDIDATES APPEARED	SECOND CLASS	FIRST CLASS	FIRST CLASS WITH DISTINCTION	NO OF CANDIDATES PASSED	PASS%
1	M.Sc. IN MEDICAL SURGICAL NURSING (CARDIOTHORACIC NURSING) (August 2016)	3	Nil	3	Nil	3	100%
2	POST BASIC BACHELOR OF SCIENCE IN NURSING (August 2016)	3	Nil	2	1	3	100%
3	POST BASIC BACHELOR OF SCIENCE IN NURSING (February 2017)	1	1	Nil	Nil	1	100%
4	BACHELOR OF SCIENCE (NURSING) (August 2016)	42	1	29	6	36	86%
5	BACHELOR OF SCIENCE (NURSING) (February 2017)	5	Nil	Nil	Nil	0	0%

FACULTY OF MEDICINE							
SL.NO	COURSE	NO OF CANDIDATES APPEARED	SECOND CLASS	FIRST CLASS	FIRST CLASS WITH DISTINCTION	NO OF CANDIDATES PASSED	PASS%
1	D.M. ( CARDIOLOGY ) (August 2016)	1	NA	NA	NA	1	100%
2	D.M. ( NEONATOLOGY ) (August 2016)	1	NA	NA	NA	1	100%
3	M.Ch. ( NEURO SURGERY ) (August 2016)	1	NA	NA	NA	1	100%
4	M.Ch. ( UROLOGY ) (August 2016)	1	NA	NA	NA	1	100%
1	M.D. ( BIOCHEMISTRY ) (October 2016)	1	NA	NA	NA	1	100%
2	M.D. ( GENERAL MEDICINE ) (October 2016)	1	NA	NA	NA	1	100%
3	M.D. ( ANESTHESIOLOGY ) (April 2017)	4	NA	NA	NA	3	75%
4	M.D. ( BIOCHEMISTRY ) (April 2017)	1	NA	NA	NA	0	0%
5	M.D. ( COMMUNITY MEDICINE ) (April 2017)	3	NA	NA	NA	3	100%
6	M.D. ( GENERAL MEDICINE ) (April 2017)	4	NA	NA	NA	3	75%
7	M.D. ( PAEDIATRICS ) (April 2017)	2	NA	NA	NA	1	50%
8	M.D. ( PATHOLOGY ) (April 2017)	1	NA	NA	NA	1	100%
9	M.D. ( PHYSIOLOGY ) (April 2017)	2	NA	NA	NA	2	100%
10	M.D. ( PSYCHIATRY ) (April 2017)	2	NA	NA	NA	1	50%
11	M.D. ( RESPIRATORY MEDICINE ) (April 2017)	1	NA	NA	NA	1	100%
12	M.D. ( DERMATOLOGY, VENEROLOGY AND LEPROSY ) (April 2017)	2	NA	NA	NA	2	100%
13	M.D. ( MICROBIOLOGY ) (April 2017)	1	NA	NA	NA	1	100%
14	M.D. ( PHARMACOLOGY ) (April 2017)	3	NA	NA	NA	3	100%
15	M.D. ( RADIO-DIAGNOSIS ) (April 2017)	2	NA	NA	NA	2	100%
16	M.S. ( OTO-RHINO-LARYNGOLOGY ) (April 2017)	1	NA	NA	NA	1	100%

17	M.S. ( GENERAL SURGERY ) (April 2017)	2	NA	NA	NA	2	1000%
18	M.S. ( OBSTETRICS AND GYNECOLOGY ) (April 2017)	1	NA	NA	NA	1	100%
19	M.S. ( OPHTHALMOLOGY ) (April 2017)	1	NA	NA	NA	0	0%
20	M.S. ( ORTHOPEDICS ) (April 2017)	3	NA	NA	NA	2	67%

#### FACULTY OF MEDICINE

SL.NO	COURSE	NO OF CANDIDATES APPEARED	SECOND CLASS	FIRST CLASS	FIRST CLASS WITH DISTINCTION	NO OF CANDIDATES PASSED	PASS%
1	M.Sc. (MEDICAL BIOCHEMISTRY) (December 2016)	1	Nil	Nil	Nil	0	0%
2	M.Sc. (MEDICAL BIOCHEMISTRY) (June 2017)	1	Nil	Nil	Nil	0	0%
3	M.Sc. ( MEDICAL PHARMACOLOGY ) (June 2017)	1	1	Nil	Nil	1	100%
1	BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (December 2016) (Passed final Year - will get degree after one year internship)	118	NA	NA	NA	91	77%
2	BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (June 2017) (Passed final Year - will get degree after one year internship)	58	NA	NA	NA	40	69%
1	POST GRADUATE DIPLOMA IN CLINICAL EMBRYOLOGY (June 2017)	10	Nil	7	3	10	100%

#### FACULTY OF ALLIED HEALTH SCIENCES

SL.NO	COURSE	NO OF CANDIDATES APPEARED	SECOND CLASS	FIRST CLASS	FIRST CLASS WITH DISTINCTION	NO OF CANDIDATES PASSED	PASS%
1	B.Sc. ( ALLIED HEALTH SCIENCE ) (June 2017) (Passed final Semester - will get degree after one year internship)	64	13	42	9	64	100%
2	B.Sc.( MEDICAL BIOTECHNOLOGY ) (June 2017)	12	2	6	3	11	92%
3	B.Sc. ( MEDICAL BIONANOTECHNOLOGY ) (June 2017)	14	2	11	1	14	100%
4	B.Sc. ( MEDICAL GENETICS ) (June 2017)	11	2	5	3	10	91%
1	M.Sc. (MEDICAL BIOTECHNOLOGY) (June 2017)	5	Nil	2	3	5	100%

2	M.Sc. (MEDICAL BIONANOTECHNOLOGY) (June 2017)	3	Nil	1	2	3	100%
3	M.Sc. (CLINICAL RESEARCH AND EXPERIMENTAL MEDICINE) (June 2017)	3	Nil	2	1	3	100%
4	M.Sc. ( TISSUE ENGINEERING AND REGENERATIVE MEDICINE ) (June 2017)	4	Nil	2	2	4	100%
5	M.Sc. ( COUNSELING PSYCHOLOGY ) (June 2017)	11	Nil	6	5	11	100%
6	M.Sc. ( MEDICAL GENETICS AND MOLECULAR DIAGNOSTICS )	2	Nil	1	1	2	100%
7	M.Sc. ( AHS ) ECHOCARDIOGRAPHY AND CARDIOVASCULAR IMAGING TECHNOLOGY (June 2017)	5	Nil	4	1	5	100%
8	M.Sc. ( ALLIED HEALTH SCIENCES ) RADIOLOGY AND IMAGING SCIENCE TECHNOLOGY (June 2017)	1	Nil	1	Nil	1	100%

## 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- ☐ Faculty orientation to innovative teaching and evaluation methods
- ☐ Faculty development program organized through Medical Education Unit of CARE
- ☐ Obtaining and analyzing feedback from stakeholders
- ☐ Curriculum committee oversees and updates the curriculum of various academic programs and periodic Board of Studies meeting further validates and recommends for implementation
- ☐ Orientation program to faculty members on the innovative methodologies of TLE are also encouraged to be conducted

## 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	Most of the faculty
UGC – Faculty Improvement Programme	-
HRD programmes : 4 Programme	Most of the Administrators and Nurses
Orientation programmes : 24	156
Faculty exchange programme	1
Staff training conducted by the university = 247 [IQAC (7) + Staff Nurses(102)+ CNE(9) + MEU (101) + Conferences organized(28)]	Most of the faculty
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc. Workshops organized at CARE : 7	193
Others	



## 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	194	16	34	0
Technical Staff	170	32	40	0
Staff Nurse	449	36	113	0
<b>Total</b>	<b>813</b>	<b>84</b>	<b>187</b>	0

### Criterion – III

#### 3. Research, Consultancy and Extension

##### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- ☐ Analysis of publications of the university
- ☐ Educating faculty on quality of research publications and their impact both at individual and institutional level
- ☐ Conduct of workshop on IPR and Patent filing to promote the culture of patent filing
- ☐ Suggesting to University to encourage faculty with patent, high quality publication and extramural funded projects.
- ☐ Undergraduate Research project review committee

##### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned (extramural grant)	Submitted
Number	17	28	7	7
Outlay in Rs. Lakhs	11.00	26.58	126.39	173.76

##### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	193	199	8	
Outlay in Rs. Lakhs	4.00	0.67	80000	

##### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	125	27	
Non-Peer Review Journals	7	0	
e-Journals	156	27	

##### 3.5 Details on Impact factor of publications (Analysis of 2016-17 publications alone):

Range **0.3-5.288** Average **0.503** h-index **18** Nos. in SCOPUS **46**

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned Rs.	Received Rs.
Major projects		Extramural funded projects	12639252	4038000
	2016-17	CARE JRF for Full time PhD Students	3290463	3290463
	2016-17	JRF & SRF from CSIR, UGC and ST fellowship	5065000	105000
	2016-17	CARE Post Doctoral Fellow	738554	738554
	2016-17	National Post Doctoral Fellow	19,20,000	19,20,000
Interdisciplinary Projects (76 ) Projects sponsored by the University/ College	2016-17	CARE	4,00,000	4,00,000
Industry sponsored		-	-	-
CARE seed money for faculty research (5)	2016-17	CARE	1,00,000	1,00,000
Students research projects ICMR STS (5) <i>(other than compulsory by the University)</i>	2016	ICMR STS	50,000	50,000
Total			24203269	10642017
Any other(Specify) <b>ONGOING AT OTHER (HOST) INSTITUTES</b>	2015-2018	-KUCC Brain Cancer Pilot Projects, USA, Midwest (35000 US\$) -Cancer Alliance Grant, USA, BRNS (300000 US\$) (Both ongoing in University of Kansa Medical Center, USA) -Department of Oncology and Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden (Expts done at CARE, funding given for all reagents) -DAE-BRNS, India. Collaborative Project [at IIT, Madras].Co-PI (Rs.24.31L)		

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

### 3.8 No. of University Departments receiving funds from

UGC-SAP	-	CAS	-	DST-FIST	-
DPE	-			DBT Scheme/funds	-

### 3.9 For colleges

Autonomy	-	CPE	-	DBT Star Scheme	-
INSPIRE	-	CE	-	Any Other (specify)	-

### 3.10 Revenue generated through consultancy

Rs.240000.00

### 3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	4	8	13	
Sponsoring agencies	DST SERB, Management & Registration fee				

### 3.12 No. of faculty served as experts, chairpersons or resource persons

117

### 3.13 No. of collaborations :

International

1

National

16

Any other

- ☐ The University has 17 MoU with various Academic and Industrial organizations for Teaching, training and research

- ☐ MoU signed during the period Aug 2016 – July 2017

Sl.No.	MoU List from June 2016 to till date	Validity
1	MoU between CARE & VISTAS (Vels)	12.11.2016 to 11.11.2019
2	MoU between CARE and MV Hospital for Diabetes Pvt Ltd (Dept. of Physiology, CHRI)	17.02.2017 to 16.02.2018
3	CARE-Research-Extramural Funding-Dr.Surajit Pathak, Asst Prof., FAHS-MOU between CARE & ReGenera Research Group for Aging Intervention & Milano Medical Health Aging Unit Genomic & Biotechnology, Italy	17.02.2017 to 16.02.2020
4	MoU between CARE & Balaji Dental Craniofacial Hospital & Research Institute	26.04.2017 to 25.04.2022
5	MoU between Tamil Nadu Physical Education & Sports University and CARE	16.06.2017 to 15.06.2022
6	Equipment Placement Agreement between M/s. Instrumentation Laboratory India Pvt Ltd, New Delhi and CARE	15.06.2017 to 14.06.2022
7	MoU between CARE and University of Calcutta	15.05.2017 to 14.05.2020

### 3.14 No. of linkages created during this year

7

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	13
	Granted	-
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows  
Of the institute in the year

Total	International	National	State	University	Dist	College
24	6	12	3	2	1	

3.18 No. of faculty from the Institution   
who are Ph. D. Guides  
and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other (PDF)

3.21 No. of students Participated in NSS events:

University level	<input type="text" value="129"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.22 No. of students participated in NCC events:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.23 No. of Awards won in NSS:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.24 No. of Awards won in NCC:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="27"/>	College forum	<input type="text"/>
NCC	<input type="text"/>	NSS	<input type="text" value="17"/>
		Any other	<input type="text"/>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

With Active participation of Faculty, Nurses, Students and NSS Volunteer the University has been rendering quality Health care to the Villages in and around Kelambakkam. The University has also adopted 12 Villages and offers Health care, health education and awareness on health related issues to these villages. The institution proposed to conduct more focused camps from this academic year and conducted 27 camps in the villages at proximity to the institution screening over 5000 individuals.

A total of 45 programs, Educational & sensitizing camps, have been conducted through active participation of students not only from Medical stream, but also from the nursing and allied health sciences. NSS has been very active in the conduct of socially relevant activities like Swaccha Bharath, Digital India initiatives, etc.

**Criterion – IV****4. Infrastructure and Learning Resources****4.1 Details of increase in infrastructure facilities**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	33.45 acres	-	-	33.45 acres
Class rooms & Demo rooms	46	-	-	46
Laboratories	36	-	-	36
Auditorium	2	-	-	2
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year		26	Self	
Value of the equipment purchased during the year (Rs. in Lakhs)		193	Self	
Others				
400m Synthetic track	-	1	Self	1
Escalator (in the hospital block)	1	1	Self	2

**4.2 Computerization of administration and library**

Department	Software system used
Finance & Accounts	SAGE ACCPAC
Purchase, Stores & Inventory	SAGE ACCPAC
HRD	Human Resource Information systems
Hospital & Laboratory	IDEMSYS / SAGE ACCPAC being used for capturing data from patient registration, admission, Patient care to Discharge.
Imaging services	PACS system - MEDDIFF (Archival & Retrieval of Radiology Images- Internet Accessible)
Library	AUTOLIB with bar coding system for management, issues, inventory for effective traceability being in place
Teaching & Learning	Chettinad Learning Management System
Examination	Examination Management System

**4.3 Library services**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	14399	16142455.57	3470	3889870.00	17869	20032326
Reference Books	6545	8558110.85	500	653500.00	7045	9211611
e-Books	132640	390000.00	-	-	132640	390000
Journals	1592	50633623.08	233	7730312.35	1825	58363935
e-Journals	4436	550000.00	5421	632500.00	5421	632500.00
Digital Database	-	318639.00	-	-	-	318639
CD & Video	1183	-	-	-	1183	-
Others (specify)	-		-		-	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	616	30	60 Mbps	---	---	42	484	
Added	86	20	---	---	---	7	15	
Total	702	50	60 Mbps	---	---	49	499	

Others:

- ☐ Wifi campus
- ☐ Tablet computers for clinicians with wireless internet access
- ☐ Internet with band width of 60 Mbps
- ☐ Lecture theatres with smart podium
- ☐ Video conference of live surgeries
- ☐ Security enhanced with turnstile, Access control and increase in the number of CC TV
- ☐ Biometric attendance for Faculty and Students

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Training offered to faculty, staff & students to

- Technology enabled E learning
- Smart classroom
- e-governance
- HRIS
- Security
- Research

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	99.42
ii) Campus Infrastructure and facilities	1723.00
iii) Equipments	160.64
iv) Others	433.21
<b>Total :</b>	<b>2416.27</b>



## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Orientation program for all fresher's to orient them and introduce them to .....
- Student representatives in IQAC give valuable inputs towards student related matters
- Periodic feedback obtained, analyzed and appropriate remedial actions taken on various aspects of the institution like curriculum, teachers, infrastructure, library, extracurricular facilities etc.
- Guidance on research proposal writing and ethics committee presentation for Undergraduate students through specially constituted undergraduate research review committee
- Workshop and training on Disaster management capacity building through National Disaster Management Authority
- Periodic Parent Teachers Meeting

#### 5.2 Efforts made by the institution for tracking the progression

- Periodic internal assessment and appropriate feedback given to students
- Due importance given for attendance, discipline and professional mannerism
- Active mentorship to promote both high achievers and slow learners
- Biannual parent Teachers meeting
- Career guidance and placement support provided
- Alumni tracking and details on their career prospects maintained by Alumni Association and Office of the Dean/Principal

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
392	102	-	10

#### (b) No. of students outside the state

89
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#### (c) No. of international students

1
---

Men	No	%	Women	No	%
	163	32		340	68

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
69	48		356	-	473	353	58	3	90	0	504

Demand ratio 1:3

Dropout % : Approximate 1%

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- ☐ Career development remains foremost in the co-curricular activities of CARE. We take adequate care to ensure that students are exposed to the world of competitive exams such as those for higher education – GATE/CSIR-JRF/NET/SLET.
- ☐ Undergraduate Medical students are guided in the preparation for their Post graduate entrance examination preparation including National level examinations and Government posting examinations.
- ☐ Students are guided in their preparation to face the International examinations like USMLE, PLAB etc as well.
- ☐ Students under faculty of Nursing are periodically guided to prepare for licensing examinations for overseas placement and also of ILETS.
- ☐ With objective to provide a student friendly module special training programs/lectures are scheduled regularly.
- ☐ Training Programs conducted
  - Counselling on various competitive exams – 07-01-2017 - Lecture by: Dr. M. Thangavel, Associate. Professor, Faculty of AHS : 87
  - How to face Competitive Exams - Tips and Tactics - 18.02.2017 - Lecture by: Dr. A Moorthi, Asst. Professor, Faculty of AHS :87

#### 5.5 No. of students qualified in these examinations

NET	<input type="text" value="1"/>	SET/SLET	<input type="text"/>	GATE	<input type="text"/>	CAT	<input type="text"/>
IAS/IPS etc	<input type="text"/>	State PSC	<input type="text"/>	UPSC	<input type="text"/>	Others	<input type="text" value="USMLE - 8"/>

#### 5.6 Details of student counseling and career guidance

##### Student Counselling

- ☐ Orientation program for Fresher's- Programs organized on transition from school to college Student counseling
- ☐ The counseling centre members offer counseling to students to cope up with personal issues individually and also maintain strict confidentiality
- ☐ Programs organized to sensitize the students on pertinent topics like .....
- ☐ All the departments of the constituent colleges have active mentorship program with each faculty designated the responsibility for 15-20 students. These mentors look into not only their academic issues but also into their personal issues if any shared by the student and appropriate remedial measures are suggested.
- ☐ Periodic Parent Teacher meets are conducted to review the academic progress of the students of all the courses of the university. This facilitates to identify the learning problems of the students and devise remedial measures in consultation with the parents.
- ☐ The Student Counselling Centre is the university's primary facility for personal counselling, with the objective to promote the psychological, educational, and social well-being of the students of the University. This centre helps the students to prepare them to be productive members of society. Student counselling centre serves as a unique interactive and target oriented model centre involving students, teachers and parents to address common student's concerns ranging from anxiety, stress, fear of change, failure and slew of other academic worries.
- ☐ **Services for Students** : Personal counselling to address individuals needs, Group and individual counselling, Outreach and consultations—we provide presentations, guest lectures, and workshops to students, faculty, and staff.

#### Career Guidance

- ❖ Career counselling and preparedness is another area for the Saturday curriculum. Through this the students are exposed to various career options available, their requirements and also how they should get prepared to get such jobs. The understanding that the student mentors and staff have over the students, their interests and strengths comes handy in providing the right path for the students. One of the important goals of this program is to ensure that the students land up with a career option that suits them and they are comfortable with rather than the most lucrative one
- ❖ The following workshops Organised by career Counselling & Placement cell, CARE for Preparing the students to attend interview and for their professional, Personal growth. workshop executed by Experts in Psychology. Nearly 110 final year Nursing students were benefited.
- ❖ A workshop on “soft skills to showcase in an interview” held on 19.07.2016 for all the final year students of Nursing. Resource Person- Dr.Vijayabanu, Asst.Professor- Counselling Psychology, FAHS,CHRI.
- ❖ A workshop on “Power of Introvert” held on 5.07.2017 for all the final year students of Nursing. Resource Person -Mrs.Sangeetha.P, Clinical Psychologist, Department of Psychiatry,
- ❖ Academic year 2017-18, we have visited 7 schools in and around Adyar & 4 schools in Kelambakkam to impart the knowledge regarding scope of Nursing.
- ❖ The final year PG and UG had an interaction with **Dr. Anjali Deshpande**, Sales Manager, Himedia Laboratories, Mumbai. The students interacted and clarified from the Himedia team with regard to the job opportunities/ how to get placed in industries like Himedia and forthcoming short term training courses offered by Himedia. (87 students participated)
- ❖ Periodic updates are provided to students on various fellowship, competitive examinations, call for projects, job placements, training programs

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
1	13	3	6
3	64	11	1
At CHRI	47	38	
At CSSH	56	25	

#### 5.8 Details of gender sensitization programmes

A program on Gender sensitization and sexual harassment for faculty and students was conducted 8<sup>th</sup> March 2017

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

### No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

From College of Nursing	Number of students	Amount
Financial support from institution	560	59410640
Financial support from government	6	335000
Financial support from other sources	27	1057800
Number of students who received International/ National recognitions	29 (conf awards)	



## 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

## 5.12 No. of social initiatives undertaken by the students

## MBBS students of CHRI : 8

S.No	Date	Social Initiative	Place	No.Of Students		
1.	Jan 2017 To August 2017	Family Survey	RHC Field Practicing Areas	3 <sup>rd</sup> Semester	65 Students	
				4 <sup>th</sup> Semester	139 Students	

2	10/02/2017	National Deworming Program 2017	Rural Health Center, Poonjeri	16 Students	
3	06/03/2017	Geriatric Screening Program	Rural Health Center, Poonjeri	12 Students	
4	07/04/2017	World Health Day- Depression Lets Talk	Rural Health Center, Poonjeri	15 Students	
5	17/04/2017	Geriatric Screening Program	Rural Health Center, Poonjeri	15 Students	

6	22/05/2017	Geriatric Screening Program	Rural Health Center, Poonjeri	08 Students	
7	12/07/2017	Dengue Awareness Program	Rural Health Center, Poonjeri	06 Students	
8	02/08/2017	Breastfeeding Week Program	Rural Health Center, Poonjeri	05 Students	

CCN:16

S.No.	Date	Area/Location	Description of the activity	No. of Students participated
1	15.08.2016	CARE, Kelambakkam	Independence Day-2016	38
2	22.08.2016	Chettinad Hospital and Research Institute, Kelambakkam	The Tiranga March Programme	38
3	06.09.2016	Chettinad Hospital and Research Institute, Kelambakkam	NSS Batch Completion Day	38
4	24.09.2016	Lecture Hall 1, CARE	NSS Day Celebration-2016	38
5	15.10.2016	Chettinad Hospital and Research Institute, Kelambakkam	Birthday Celebration of Dr. Abdul Kalam	38
6	05.11.2016	Chettinad Hospital and Research Institute, Kelambakkam	Vigilance Awareness Week Celebration	38
7	12.01.2017	Chettinad Hospital and Research Institute, Kelambakkam	Ek Bharath Sreshta Bharat & National Youth Day	38
8	26.01.2017	CARE, Kelambakkam	Republic Day-2017	38
9	02.02.2017-09.02.2017	CARE, Kelambakkam	South Zone and All India Inter University Kho-Kho Women's Tournament	38
10	4.02.2017	CARE, Kelambakkam	Swachh Pakhwada	38





11	07.02.2017	CARE, Kelambakkam	General Orientation for NSS Volunteers	38
12	15.02.2017	CARE, Kelambakkam	Swachh Bharat	38
13	16.02.2017	Kelambakkam Market, Kelambakkam	Digital Payment Awareness Programme	38
14	28.02.2017	Mini auditorium, CHRI.	National Science Day Celebration	38
15	15.3.2017-21.3.2017.	Thiruvadisulam and Pulikudivanam	Report of NSS Special Camp for 2016-17	38
16	23.06.2017	CARE, Kelambakkam	International Yoga Day-2017	38

#### NSS : 17

S No.	Date	Area /Location	Description of the activity	No. of Students Participated
1.	15.08.2016	CHRI	<b>Independence day celebration:</b> The Chettinad Hospital and Research Institute (CHRI) organized the flag hoisting ceremony at the University campus on the occasion of Independence Day celebration. Dr. K Ravindran, Vice Chancellor, CARE, Dr. Ramesh Rao K, Dean CHRI, Mr SpK Chidambaram, Registrar, CARE, Dr. Koyeli Girigoswami, NSS Programme Officer along with many Medical and Non Medical faculty and staff members were present to grace the occasion. A formal march past along with the flag hoisting was done by our Vice Chancellor. The NSS volunteers along with other students were also present during the programme. The programme was concluded with National anthem. Tricolor badges, roses and sweets were distributed to one and all present there.	129 
2.	22.08.2016	CHRI	<b>Tiranga March:</b> The NSS, CARE organized a Tiranga March at the University Campus with participants from Chettinad College of Nursing, Faculty of Allied Health Sciences and Chettinad Hospital and Research Institute. The NSS volunteers along with other students carried the Tiranga (Indian National Flag) and marched inside the campus. The event was initiated in the presence of special dignitaries of the University-Dr. R. Ganesan, Medical Superintendent, CHRI, Mr. S. Solaiyappan, AGM Admin, CARE, Ms. Manjula, Faculty, Chettinad College of Nursing, Dr. Venu Gopala Rao Konda and Dr. Koyeli Girigoswami the NSS Programme Officers. A brief lecture was given about the tricolor. The Tiranga proudly went up for the first time against a free sky of Independent India on the flag mast of the Council House at 10:30 a.m. As the Tricolor went up the flag	129  

			<p>mast, a 31 gun salute was accorded to the symbol of the newly born nation. In the afternoon of the August 15, 1947, the first public flag salutation ceremony was held at the War Memorial at the Prince's Park near India Gate. As the first Prime Minister of the India unfurled the Tiranga against a clear warm sky, from now where a rainbow appeared on the horizon as though to bless Trianga.</p>	
3.	06.09.2016	CHRI	<p><b>NSS Batch completion day:</b> After the successful completion of the first batch of NSS from 2014-2016 of the two units, the batch completion day was celebrated to distribute the certificates to the volunteers. All the volunteers were present and the programme was blessed with the auspicious presence of Prof. Dr. A Thamaraiselvan, Principal, Faculty of Allied Health Sciences, CHRI and Dr. Veena M Joseph, Vice Princcpal, Chettinad College of Nursing, CARE. Welcome address was delivered by Dr. Koyeli Girigoswami, NSS, PO, CARE, along with the NSS events presentation through power point. The keynote address was delivered by Prof. Dr. A Thamarachelvan, who shared his experience of 10 years of being associated with NSS in his previous Institution, with the audience. Dr. Veena M Joseph also encouraged the students and congratulated them for successful completion of two years with 120 hours of rwgular activities and a 7 day special camp for all the volunteers. Dr. Koyeli Girigoswami and Dr. VenuGopala Rao Konda were also present to hand over the certificates. Volunteers were asked to share their experience with NSS for 2 years. Vote of thanks was delivered by Dr. Venu Gopala Rao Konda, NSS, PO, CARE, followed by National anthem.</p>	<p>212</p>   
4.	24.09.2016	CHRI	<p><b>NSS Day Celebration:</b> The NSS Day was celebrated on 24.09.2016 involving the volunteers. Dr. Koyeli Girigoswami, Programme Officer of National Service Scheme at Chettinad Academy of Research and Education (CARE), inaugurated the function with a welcome address. The vote of thanks was delivered by Mr. Venu Gopala Rao Konda, Programme Officer, NSS, CHRI. The programme was concluded with the National Anthem. There was a tree plantation followed by the programme.</p>	<p>129</p> 
5.	15.10.2016	CHRI	<p><b>APJ Abdul Kalam's Birthday Celebration:</b> The NSS, CARE celebrated the 85<sup>th</sup> birthday of Dr. APJ Abdul Kalam on 15.10.2016 at the University Campus. The programme started with e briefing about the principles of Dr. Abdul Kalam by Dr. Koyeli Girigoswami, NSS PO, CARE followed by an awareness lecture on the deeds</p>	<p>129</p> 





			of Dr. Abdul Kalam by Dr. Venu Gopala Rao Konda, NSS PO, CARE. An oratorical competition was also held by the participation of NSS volunteers and students of FAHS, CHRI on the topic of Dr. Abdul Kalam- A legend. The session was judged by Dr. SSJ Shiek Fareeth Ahmed, Assistant Professor, Faculty of Allied Health Sciences, CARE and Dr. Venu Gopala Rao Konda. The students were encouraged by distribution of sweets.	
6.	05.11.2016	CHRI	<p><b>Vigilance Week Celebration:</b> The NSS, CARE celebrated the Vigilance Awareness Week to promote Public Participation in promoting integrity and eradicating corruption. On behalf of this event the NSS volunteers took the pledge at the University Campus. The programme started with a briefing about the principles and importance of anti corruption and how this corruption is making our economic structure hollow and killing the morality of the citizens. Dr. Koyeli Girigoswami, NSS PO, CARE and Dr. Venu Gopala Rao Konda, NSS PO, CARE organized the pledge taking ceremony. An elocution competition on 'Vigilance Awareness' was also held at Faculty of Allied Health Sciences, CHRI where along with other students the NSS volunteers also participated. The competition was held in the auspicious presence of Dr. Tamaraichelvan A, Principal, FAHS, and other faculty members of FAHS. The session was judged by Dr. K Kumar Ebenezar, Assistant Professor, Faculty of Allied Health Sciences, CARE and Dr. C.N. Ramgopal, Assistant Professor, Faculty of Allied Health Sciences. The students were awarded cash prizes.</p>	<p>129</p>  

7.	12.01.2017	CHRI	<p><b>Ek Bharat Sreshta Bharat and National Youth Day:</b> As per the circular of UGC to celebrate “Ek Bharat Sreshta Bharat”, the NSS, CARE celebrated the day with a drawing competition based on the topic “Any Festival”. Festivals are very important part in the life of all Indians. We all Indians get united together during any festival and make it a success. The festivals also project the cultural values and traditions of different religions and regions. The students including NSS volunteers participated in the drawing competition and were judged by a panel of two Judges, Dr. Vijaybanu U, Assistant Professor, Counseling Psychology and Ms. Pragyaparamita, a renowned artist. Two first prizes, two second prizes and three third prizes were announced. The competition was held in the auspicious presence of our Chief Guest Dr. Tamaraichelvan A, Principal, FAHS, and other faculty members of FAHS.</p> <p>The same day was also celebrated for National Youth day as it was the birthday of Swami Vivekananda. On behalf of this event the NSS volunteers took the pledge at the University Campus. The programme started with a briefing about the principles importance of Swami Vivekananda. Dr. Koyeli Girigoswami, NSS PO, CARE and Dr. Venu Gopala Rao Konda, NSS PO, CARE organized the pledge taking ceremony.</p>	129	   
8.	26.01.2017	CHRI	<p><b>Republic Day Celebration:</b> The Chettinad Hospital and Research Institute (CHRI) organized the flag hoisting ceremony at the University campus on the occasion of Republic Day celebration. Dr. K Ravindran, Vice Chancellor, CARE, Dr. Ramesh Rao K, Dean CHRI, Mr SpK Chidambaram, Registrar, CARE, Dr. Koyeli Girigoswami, NSS Programme Officer along with many Medical and Non Medical faculty and staff members were present to grace the occasion. A formal march past along with the flag hoisting was done by our Vice Chancellor. The NSS volunteers along with other students were also present during the programme. The programme was concluded with National anthem. Tricolor badges and sweets were distributed to one and all present there.</p>	129	
9.	02.02.2017 - 09.02.2017	CHRI	<p><b>South Zone and All India Inter University Kho-Kho Women's Tournament:</b> The Chettinad Hospital and Research Institute (CHRI) organized the South Zone and All India Inter University Kho-Kho Women's Tournament at the CHRI campus in which the kho kho athletes from all over India came and participated. They were accommodated at the University hostels and the events went on peacefully and</p>	50	

			successfully. NSS women volunteers were deputed everyday to assist and guide the women athletes for these 8 days. It was a very successful event.	
10.	04.02.2017	CHRI	<b>Swachh Pakhwada:</b> In accordance to the UGC circular, we have organized "Swachh Pakhwada Programme" at our University campus and in and around the campus. The NSS volunteers handpicked the garbage like chocolate wrappers, empty cans, chips covers etc. inside as well as outside the campus. Gloves and masks were also provided to the volunteers. After the cleanliness drive the collected garbage were disposed properly and were incinerated.	129  
11.	07.02.2017	CHRI	<b>General Orientation for NSS Volunteers:</b> NSS volunteers were given an awareness programme on NSS. The motto, logo, objectives of NSS and administrative levels of NSS at state level and National level were explained. The session was addressed for the NSS volunteers to understand the importance of NSS at the University level. They were given awareness on the importance of social service for the upliftment of society and in general for the building up of a better nation in future. They were informed about the Regular activities, Special camp and other voluntary services that can transform a society for overall well being.	129  
12.	15.02.2017	CHRI	<b>Swachh Bharat:</b> As a part of Swachh Pakhwada, the cleanliness drive was extended throughout the campus in the name of 'Swachh Bharat'. The volunteers cleaned the NSS room and the University campus and have posted posters in and around the campus to make it litter free. The garbage were collected at particular bin bags and disposed safely. Masks and gloves were also provided to the NSS volunteers to conduct this campaign.	129  



13.	16.02.2017	Kelambakkam Market	<p><b>Digital Payment Awareness:</b> As per the UGC Circular (D.O.No.F.1-1/2017(Secy)), NSS, CARE have carried out a digital payment awareness programme with 100 volunteers at Kelambakkam market, Kelambakkam, Kanchipuram Dist. 603103. The NSS volunteers including students of Faculty of Allied Health Sciences, CHRI and Nursing students, CCN, along with Dr. Koyeli Girigoswami, and Dr. Venu Gopala Rao Konda, NSS, PO visited nearly 100 shops in the market. The volunteers were trained with a powerpoint presentation available in MHRD website on VISAKA, so that they get trained first before training the shopkeepers. Pamphlets were taken in English and Tamil to make the shopkeepers as well as customers the importance of digital payment. Many shops already had the PoS machines and some customers and shopkeepers were using PayTm for transaction of money. It was a very good response from the market people.</p>	129	
14.	28.02.2017	CHRI	<p><b>National Science Day:</b> As per the UGC Circular National Science day was celebrated by NSS, CARE, Chettinad College of Nursing, CARE and Faculty of Allied Health Sciences, CHRI. The chief guest was Prof. Dr. A Thamarachelvan, Principal, AHS, who gave an inspiring speech on the importance of National Science Day. Our special invitee was Dr. SSJ Shiek Fareeth Ahmed, Assistant Professor in Bioinformatics, CHRI who also elaborated regarding the importance of Science in daily life. He also helped to display a movie on Evolution theory to all the participants. The movie was very informative and it explained the evolution of humans from fishes. Many other faculty, research scholars and students from other specialties joined to watch the movie. The programme was very successful.</p>	129	
15.	15.3.2017-21.3.2017	Thiruvadisulam and Pulikudivanam	<p><b>Special Camp at Thiruvadisulam and Pulikudivanam:</b> The NSS special camp of NSS, CARE was held at Thiruvadisulam and Pulikudivanam, Thiruporur from 15.3.2017-21.3.2017. The number of volunteers involved was 50 (25 from each unit). The village people were provided with health care service and the needy patients were brought to our hospital for further treatment. The health camp and dental camp has served around 400 residents and school children.</p>	129	

16.	12.04.2017	CHRI	<b>Disaster Management Programme:</b> A workshop on “disaster Management Awareness Programme” was held at CHRI campus organized by Disaster Management Committee, CARE, IQAC, CARE and NSS, CARE. Hands on training and demonstration, evacuation drills, fire safety drills were given to the students. The entire programme was coordinated by state disaster response force, Tamilnadu. The programme was executed for all the students including NSS volunteers.	129
17.	23.06.2017	CHRI	<b>International Yoga Day:</b> International Yoga Day was celebrated at CHRI on 23.06.2017. The programme started with a pledge taking ceremony followed by welcome address delivered by Dr. Vijaybanu U, Assistant Professor, Counselling Psychology. Dr. Shiv Bhushan Sharma, Professor, Department of Physiology, CHRI delivered a lecture on “Principles of Yoga” creating awareness among NSS volunteers about the different aspects of yoga in everyday life. Mrs. Ranjini Purushottam and Mrs Prabha from ISHA YOGA FOUNDATION, Chennai were the chief guests of our Programme. They demonstrated the students the Upa Yoga and gave a video based training. All the NSS volunteers participated and performed the yoga. The delegates were also felicitated with mementos. The programme benefitted the students by hands on yoga practice as well as motivation for yoga. Dental doctors, students, Nursing students, AHS students were present among the participants. The programme was organized by Dr. Koyeli Girigoswami and Dr. Venu Gopala Rao Konda, NSS, PO, CARE.	129  

Faculty of AHS: 4

S.No.	Date	Area/Location	Description of the activity	No. of Students participated
1	September 2016	Dr. Nalli Kuppaswamy Vivekananda Vidhyalaya, Korattur	Healthy eating behavior training for parents	2
2	January 2017	In and around Chennai district, Thiruvallur district, and Kancheepuram District	Digital Economy Program (VISAKA)	25
3	17/02/2017	CHRI, Kelambakkam	Voluntary blood donation	4
4	30/06/ 2017	Vishranthi Home for Aged Destitute Women, Pallavakkam, Chennai.	Interaction with elderly persons	5

5.13 Major grievances of students (if any) redressed:

Issues related to following were discussed and resolved

- ☐ Hostel Mess food
- ☐ Turnstile

## Criterion – VI

### **6. Governance, Leadership and Management**

#### 6.1 State the Vision and Mission of the institution

**Vision :**

A global centre for excellence in learning, Teaching, Research, Health Care and Service to the community.

**Mission :**

- ☐ Create a nurturing and supportive environment to ensure students a fulfilling, demanding and intellectually stimulating experience.
- ☐ Enable students to imbibe values, cultivate a desire for lifelong learning and maximize their potential.
- ☐ Prepare students for employment in the global arena.
- ☐ To establish a team of well-qualified faculty that will enable the institution to grow holistically.
- ☐ Provide the best in state of the art infrastructure.
- ☐ Offer quality health services to all strata of society.
- ☐ To facilitate independent innovative research and share knowledge and understanding with the society.

#### 6.2 Does the Institution has a management Information System

1	Administrative procedures, including Finance, Purchase, Inventory, Human Resource Information System	Available
2	Student Admission & Student Records	Available
4	Evaluation and Examination Procedures	Available
5	Research Administration	Available
6	Hospital and Diagnostics	Available

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

- ☐ Undergraduate students have Orientation Program which introduces them to Communication Skills, Stress management, Time management, Coping up transition from School to College and Research methodologies
- ☐ Institution has curriculum committee for the three faculty (Medicine UG, PG & Super speciality), Allied Health Sciences and Nursing).
- ☐ Periodic feedback on the curriculum obtained from subject experts, industrial experts, and Alumni on the curriculum.
- ☐ Academic under Faculty of Allied Health Sciences have Choice Based Credit System which gives the advantage to the students to be more accomplished in his chosen field of specialization.

### 6.3.2 Teaching and Learning

- ☐ Innovative teaching methodologies complement the conventional teaching and learning techniques
- ☐ Faculty are upgraded on their teaching, learning and evaluation methods through periodic faculty development program both at MCI nodal centre and at the institution medical education unit
- ☐ Passion for learning is brought through creative learning, active learning processes and problem solving methodologies
- ☐ Personalized care and individualised teaching is given by the mentors to the slow learners

### 6.3.3 Examination and Evaluation

- ☐ Choice based credit system and grading for courses under Faculty of Allied Health Sciences
- ☐ For academic programs under faculty of medicine and faculty of nursing - in tune with statutory bodies recommendations

### 6.3.4 Research and Development

- ☐ Research Advisory subcommittee formed to review half yearly progress and also guide accordingly
- ☐ Undergraduate & Post graduate review committee have been formed to review the research proposals/dissertation topics/ICMR STS proposals before their submission to Ethics committee
- ☐ Half yearly progress review of PG Dissertation made mandatory
- ☐ Continuation of the Monthly IRB review of research proposals and progress of PhD students
- ☐ Instrumentation facility augmented
- ☐ Quality of research publication improved
- ☐ Chettinad health city medical journal, an international, peer reviewed, quarterly journal indexed in Index Copernicus, Google Scholar, Genamics Journal Seek, Research Bible Directory of Research Journal Indexing, Journal Index.net, Citefactor.org, Directory of Science The ICV has gone up and the current value is 53.61
- ☐ Programs conducted to promote quality research
  - ☐ IPR & Patent Workshop
  - ☐ Quality of Research Publication
  - ☐ How to write a successful research grant proposal
- ☐ Seven successful research grants from government funding agencies
- ☐ Increase in number of proposals submitted to extramural funding observed
- ☐ 3 PhD scholars and 1 Post doctoral fellow receive scholarship from national funding agencies
- ☐ MoU established for quality research with institutions abroad and India
- ☐ The SERB screening committee meeting was hosted by CARE for the year 2016



### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- ☐ Utility of Digital library with E books (1,32,640) and e journals (4,436) enhanced
- ☐ Proquest award to Chettinad Academy of Research and Education for the Best E journal Utilized Institution
- ☐ Sensitization of College & Department Heads on Digital initiatives of India and recommended to utilize the same for the academic year 2017-18
- ☐ Instrumentation facility augmented.
- ☐ Infrastructure augmented

### 6.3.6 Human Resource Management

- ☐ Periodic trainings on Management and soft skill development for non teaching staff
- ☐ Training on Kaizen and encouragement to apply the principles of Kaizen in administrative departmental activities

### 6.3.7 Faculty and Staff recruitment

#### **Policy**

- a. All requests for recruitment must be made in writing using the Manpower Requisition and be submitted to the Human Resource Department for additional request over the Budget.
- b. The request for recruitment may be for an existing vacant position or a newly created one.
- c. If the vacancy is a newly created position, a copy of the job description and specification must be submitted along with the Manpower Requisition Form
- d. All requests for recruitment are subject to the final approval of the VC.
- e. When the request for recruitment is approved, Human Resource Department shall undertake the process of sourcing candidates as follows:
  - ☐ Consult with requesting department whether any existing employee can be identified for Elevation / Replacement
  - ☐ Advertise and source externally through job portals, job advertisements, agents, leverage social networking etc.
- f. Applicants shall be short listed according to their qualifications, experience and to meet the job requirements in accordance with the job description and specification.
- g. HR will conduct the first level screening to ensure candidates meet the basic pre-requisites.
- h. For faculty, the type of application is based as per the relevant statutory council norms.
- i. When the selection of a candidate is made and approved by the VC the HR shall proceed with the offer of appointment to the candidate.

#### **Terms and conditions of employment**

- a. Every employee, at the time of his / her appointment, confirmation, promotion or reclassification, shall be given an order duly signed by the authorized signatory specifying his / her appointment, confirmation, promotion or reclassification, as the case may be. Offer of appointment will be subject to the clearance of the medical examination by the competent authorities

Panel Members Details for Faculty:

CATEGORY	PANEL FOR TEACHING & NON TEACHING STAFF
TEACHING STAFF ( MEDICAL FACULTY , AHS & CCN )	<input type="checkbox"/> VC <input type="checkbox"/> REGISTRAR <input type="checkbox"/> DEAN - CHRI/PRINCIPAL AHS /PRINCIPAL CCN <input type="checkbox"/> RESPECTIVE HOD <input type="checkbox"/> HOD- HR

6.3.8 Industry Interaction / Collaboration

- ☐ Industry representatives are inducted into the Board of Studies of Allied Health Sciences
- ☐ Industry experts are also members of Research Advisory committee
- ☐ MoU signed during the period Aug 2016 – July 2017

Sl.No.	Details	Validity
1	MoU between CARE & VISTAS (Vels)	12.11.2016 to 11.11.2019
2	MoU between CARE and MV Hospital for Diabetes Pvt Ltd (Dept. of Physiology, CHRI)	17.02.2017 to 16.02.2018
3	MOU between CARE & ReGenera Research Group for Aging Intervention & Milano Medical Health Aging Unit Genomic & Biotechnology, Italy	17.02.2017 to 16.02.2020
4	MoU between CARE & Balaji Dental Craniofacial Hospital & Research Institute	26.04.2017 to 25.04.2022
5	MoU between Tamil Nadu Physical Education & Sports University and CARE	16.06.2017 to 15.06.2022
6	Equipment Placement Agreement between M/s. Instrumentation Laboratory India Pvt Ltd, New Delhi and CARE	15.06.2017 to 14.06.2022
7	MoU between CARE and University of Calcutta	15.05.2017 to 14.05.2020

### 6.3.9 Admission of Students

- ☐ Admissions for MBBS course for academic year 2016-17 has been through the NEET
- ☐ Admissions to all other academic programs are through advertisement in National and Regional newspaper and through the Institutional website.
- ☐ Selection through personal interview and counseling based on merit list through all India common entrance exam (for MD/MS/DM/MCH) conducted by the University
- ☐ Faculty of Nursing & Faculty of Allied Health Sciences: Selection for all the undergraduate, Postgraduate courses are based on merit in qualifying examination and interview.
- ☐ Admission Committee includes external member
- ☐ PhD : Through entrance examination followed by an interview as per UGC regulation 2016.

### 6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> <li>▪ Group Insurance (Including one of the parent/guardian of the student)</li> <li>▪ Subsidized medical care</li> <li>▪ Air conditioned subsidized transport facility</li> <li>▪ Earn while you learn</li> <li>▪ Fee concession</li> <li>▪ Support for physically challenged</li> <li>▪ Research scholarship for students</li> <li>▪ Career counseling, Career guidance &amp; Placement cell</li> <li>▪ Entertainment – Free movie screening every fortnight</li> <li>▪ Paid maternity leave, Sick Leave, Sabbatical leave, Academic leave</li> </ul>
Non teaching	
Students	

### 6.5 Total corpus fund generated

Rs.500.09 Lakhs

6.6 Whether annual financial audit has been done Yes ☒ No ☐

### 6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NAAC Regulatory Bodies, MCI & INC	Yes	CARE
Administrative	Yes	NAAC	Yes	CARE

### 6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes ☒ No ☐

For PG Programmes Yes ☒ No ☐

#### 6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Observers are appointed to oversee the examination process. MCQ are to be introduced for MBBS. Toughness of Question Papers are assessed after feedback from External Examiners. Inter examiner variability is assessed by subjecting a randomly chosen answer script corrected by an examiner to evaluation by all the examiners of that theory paper. Intra – examiner variability is assessed by subjecting the answer script corrected by one examiner again for evaluation by the same examiner – (blinded).

#### 6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- ☐ The two constituent colleges function with complete autonomy in all academic issues.
- ☐ Board of studies for the various academic programs debate and discuss with experts for any curricular revisions
- ☐ Such revisions are placed before the Academic council and BoM for final approval
- ☐ The constituent colleges also have the autonomy to propose new academic programs through the proper channel and process that have been laid out
- ☐ Heads of the department are empowered to introduce innovative teaching

#### 6.11 Activities and support from the Alumni Association

- ☐ 4 executive committee meetings were conducted.
- ☐ 1 annual general body meeting was conducted.
- ☐ Details regarding placement and higher education were collected from alumni.
- ☐ Online feedback form was designed.
- ☐ The collection of feedback forms is in progress.

#### 6.12 Activities and support from the Parent – Teacher Association

- ☐ Regular Parent Teacher meetings are conducted to discuss the Academic progress and other issues related to their wards
- ☐ Feedback on academics, infrastructure and over all grooming are obtained from parents annually

#### 6.13 Development programmes for support staff

- Induction and Orientation Programmes
- Training Program regarding Time office – Doubts & Queries
- Patient Relationship Management
- Workshop of Kaizen for administrative staff
- Developed Knowledge Management system and Training for skill development
- Developmental programs for Nurses
  1. Therapeutic Communication
  2. Role of Nurses in Infection control
  3. Biomedical Waste Management
  4. Assertive communication
  5. Quality Assurance
  6. Recording and Reporting
  7. Women Care
  8. Personality Development
  9. Weekly Seminars are conducted for staff nurses

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Based on the UGC Guidelines Environmental awareness and protection has been incorporated in the curriculum for most of the academic programs offered by the university
- The university and the NSS Unit has been proactive in the “Swatch Bharath Mission.
- **Conservation of Natural Resources**

Every scope of reduction in usage is studied and conventional taps in toilets are replaced with spray type taps.

340 KL of treated sewage water per day is used for the entire garden, lawns and forest areas of our premises. A part of the treated water is softened and led to Cooling Tower of our A.C Plant. Part of the Treated sewage water is planned for toilet flushing.

- **Power Consumption from Tamil Nadu Electricity Board met through our own wind mill generation.**

Power generation by non-conventional methods through our 19 windmills at Coimbatore Belt offsets nearly 45% of our annual power consumption. Power generation through Windmill (onshore) reduces Carbon footprint by nearly 80 times than Coal based generation.

- **Solar Power utilized for water heaters**

Hot water generation for our Hostels is achieved through Heat Pump which works on the principle of reverse refrigeration. Since hot water by Solar Water Heaters (SWH) in the morning is effected by energizing conventional heaters of the SWH, which consumes huge quantum of energy, 2 Nos. Heat Pumps have been replaced with 24 Nos. SWHs. These Heat Pumps cater the hot water needs of 1500 students of Girls and Boys hostel.

- **Rain water harvesting practiced and excess water stored in Lilly pond**

Rain Water Harvesting (RWH) Infiltration Tanks to re-charge ground water were established at various points of our premises. Also excess water is diverted to Lilly Pond at the North East corner of our premises.

□ **Established a Soft Water Plant to make use of the Treated Sewage Water to be fed to A.C. Cooling Towers.**

A Tertiary Treatment of Treated Sewage Water of 16 m<sup>3</sup>/hr. capacity is established and commissioned for the use of Cooling Tower of A.C. Plant. Water saving of up to 50 KL / D is achieved through this arrangement.

□ **1200 KL/D (600 KL / D x 2) STP are in operation with an average of 750 KL being treated per day.**

Sewage generated from our Hospital, Hostels and Residences are led to our Sewage Treatment Plant of 1.2 ML / D capacity. Nearly 340 KL / D of sewage is treated in this plant.

□ Almost 75% of campus is having green cover with various species of plants and trees. Various plants, trees and lawn constitute 75% of our total area. An in house Nursery has been set up to develop and maintain plant saplings to meet the future plantation needs of our area.

□ **Hazardous Wastes (used DG oil, used grease, cotton waste and batteries) are segregated and stored and disposed off methodically through Tamil Nadu Waste Management Ltd.**

Authorization for Handling and Disposal of Hazardous Waste has been applied for with the Tamil Nadu Pollution Control Board and the Board's Authorization is awaited. Presently oil is disposed to recyclers authorized by the Board.

□ **Pedestrian friendly pathways**

Pathways all around the campus are Pedestrian – friendly with raised platforms and curb walls all along the edge to confine the lawn area.

□ **Green Audit of the Campus completed and compliance towards the audit in process**

Recommendations put forth in the Green Audit – to set up a bio-gas plant to digest the food and garden waste for useful conversion of gas is under progress.

□ **Green Zone (through ample trees and vegetation)**

Our Hospital being in Red Category, Green Zone with ample trees and lawn with restriction of motor vehicles is being maintained.

□ **Battery Operated Vehicles**

Towards commuting of patients' visitors from the gate to the hospital blocks, Battery Operated Vehicles are used.

□ **Bicycles for in campus mobility**

For the students to move between hospital, college and hostel, bicycles have been provided.

□ **Water re-cycling**

Primary treatment of Raw Water in the Water Treatment Plant is used all over our premises. Drinkable Water is generated in the R.O. plant. 5% of Treated Sewage Water is re-cycled and used for cooling tower of A.C. Plant.

□ **Rain Water Harvesting**

Additional Roof-top Rain Water Harvesting with Re-charge pits have been set up.

## Criterion – VII

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Empowerment of IRB to promote quality research has enabled us to get few extramural funded research projects
- MoU with reputed institution has yielded collaborative research grants
- Financial support for publication in high impact journals has increased the number of publications in journals of repute
- Facilitation of student extracurricular activities through the indoor stadium, synthetic track, Cricket pitch, etc.,
- Promoting first generation learners among woman, students from rural areas and underprivileged sectors
- Learning Management System – IT put to effective use in learning process
- Commitment to society: Chettinad Academy of Research and Education Outreach program
- Development of socially responsible citizens through community engagements

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

S.No.	Month	Proposed Agenda	Status
1.	Documentation	◆ NIRF report follow up and plan of action to improve ranking	✓ Completed
		◆ Formation of IQAC Sub Committee	
	Members	◆ Preparation of the AQAR Review of the AQAR and submission to NAAC	✓ AQAR submitted
		◆ Inclusion of New members in IQAC	✓ IQAC members reconstituted
2	Developmental Programs	◆ Formation of IQAC Sub Committee	✓ Formed
		◆ Seminar on Kaizen for IQAC Members	✓ 19.8.2016
		◆ Workshop on Kaizen for administrative staff	✓ 27.01.2017
		◆ Quality of Research Publications	✓ 10.04.2017
		◆ Disaster Management Capacity Building (in association with Disaster Management committee and NSS)	✓ 12.04.2017
		◆ IPR & Patent Workshop (in association with IPR Cell)	✓ 08.06.2017
3.	National Conference	◆ Best Practices of an Academic Institution (in association with MEU)	✓ 07.07.2017
		◆ National Seminar on “Best Practices in Academic and Administrative Audit”	✓ Theme, probable speakers, budget etc have been identified.

		<ul style="list-style-type: none"> <li>◆ To submit Proposal to NAAC for funding the National Conference</li> </ul>	<ul style="list-style-type: none"> <li>✓ Submitted, however requested to resubmit with changed dates</li> <li>✓ This was done in March 2017</li> <li>✓ Awaiting the response from NAAC</li> <li>✓ as it was felt that Conduct of program like this with NAAC sponsorship would be more beneficial for the participants</li> </ul>
4.	Committees of the University	<ul style="list-style-type: none"> <li>◆ Review of the progress made by various committees of the university</li> </ul>	<ul style="list-style-type: none"> <li>✓ Completed</li> </ul>
5.	Department Evaluation Report & Academic Audit	<ul style="list-style-type: none"> <li>◆ Department Evaluation Report for the period August 2016-December 2016</li> </ul>	<ul style="list-style-type: none"> <li>✓ Half yearly Progress completed</li> </ul>
		<ul style="list-style-type: none"> <li>◆ Analysis of University data on a comparative basis (2015 vs 2016) to assess growth in the various criteria as laid down by NIRF</li> <li>◆ Analysis of quality of output including innovative teaching methodologies, research publications and funding, Student placement, etc</li> <li>◆ Action plan based on the data analyzed</li> </ul>	<ul style="list-style-type: none"> <li>✓ Analyzed – major analysis was on the research output of the departments</li> <li>✓ Faculty and students were impressed on Quality of research through IQAC Programs on</li> <li>✓ Impact of Quality of Research Publication</li> <li>✓ 2. Workshop on IPR &amp; Patent Filing</li> </ul>
6.	Feedback	<ul style="list-style-type: none"> <li>◆ Obtaining Feedback from various stake holders of the University</li> <li>◆ Analysis and plan of action based on feedback obtained</li> </ul>	<ul style="list-style-type: none"> <li>✓ Feedback forms – developed, obtained and analysed. Actions have been taken based on the outputs from the feedback</li> </ul>
7.	Best Practice	<ul style="list-style-type: none"> <li>◆ Review of the Best Practices of the University</li> </ul>	<ul style="list-style-type: none"> <li>✓ All departments have been requested to identify 2 best practices</li> </ul>

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study*

<input type="checkbox"/> Promoting first generation learners among woman, students from rural areas and underprivileged sectors <input type="checkbox"/> Chettinad Learning Management System
--

***\*Provide the details in annexure (Annexure 3)***



#### 7.4 Contribution to environmental awareness / protection

- Based on the UGC Guidelines Environmental awareness and protection has been incorporated in the curriculum for most of the academic programs offered by the university
- The university and the NSS Unit has been proactive in the "Swatch Bharath Mission"
- Conservation of Natural Resources: 340 KL of treated sewage water per day is used for the entire garden, lawns and forest areas of our premises. A part of the treated water is softened and led to Cooling Tower of our A.C Plant. Part of the Treated sewage water is planned for toilet flushing.
- Power Consumption from Tamil Nadu Electricity Board met through our own wind mill generation: Power generation by non-conventional methods through our 19 windmills at Coimbatore Belt offsets nearly 45% of our annual power consumption. Power generation through Windmill (onshore) reduces Carbon footprint by nearly 80 times than Coal based generation.
- Solar Power utilized for water heaters: Heat Pumps have been replaced with 24 Nos. SWHs. These Heat Pumps cater to the hot water needs of 1500 students of Girls and Boys hostel.
- Rain water harvesting practiced and excess water stored in Lilly pond
- Established a Soft Water Plant to make use of the Treated Sewage Water to be fed to A.C. Cooling Towers.
- 1200 KL/D (600 KL / D x 2) STP are in operation with an average of 750 KL being treated per day.
- Almost 75% of campus is having green cover with various species of plants and trees
- Hazardous Wastes (used DG oil, used grease, cotton waste and batteries) are segregated and stored and disposed off methodically through Tamil Nadu Waste Management Ltd.
- Pedestrian friendly pathways
- Green Audit of the Campus completed and compliance towards the audit in process
- Green Zone (through ample trees and vegetation)
- Battery Operated Vehicles
- Bicycles for in campus mobility
- Water re-cycling
- Rain Water Harvesting

7.5 Whether environmental audit was conducted?

Yes

☒

No

☐

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

- ☐ The institution completed the cycle 2 of NAAC Accreditation in October 2015.
- ☐ The recommendations given by NAAC Peer Team is under process

## 8. Plans of institution for next year

S.No.	Month	Proposed Agenda
1.	August 2017	<ul style="list-style-type: none"> <li>◆ Preparation of the AQAR</li> <li>◆ Presentation of AQAR to Board of Management</li> <li>◆ Submission of AQAR to NAAC</li> <li>◆ Submission of application to NAAC for sponsorship to conduct National Conference on "<b>Best Practices in Academic and Administrative Audit</b>"</li> </ul>
2	September 2017	<ul style="list-style-type: none"> <li>◆ Presentation of Best Practices of departments of the two constituent colleges, CHRI &amp; CCN</li> <li>◆ Presentation and Compilation of the strategic plan of the departments of the two constituent colleges, CHRI &amp; CCN</li> </ul>
3.	October 2017	<ul style="list-style-type: none"> <li>◆ Review of AQAR 2016-17 and NIRF 2017 (with the earlier years data)</li> <li>◆ Workshop on Disaster management &amp; Capacity Building for faculty, staff and students</li> <li>◆ Review activities and outcome of various MoU entered by CARE</li> </ul>
4.	November 2017	<ul style="list-style-type: none"> <li>◆ Review of the progress made by various committees of the university</li> <li>◆ Workshop on "Successful Scientific Proposal Writing" for faculty of CARE</li> </ul>
5.	December 2017	◆ Compilation of data for submission to NIRF
6.	January 2018	<ul style="list-style-type: none"> <li>◆ Internal seminar on "e-Learning"</li> <li>◆ Obtaining Feedback from various stake holders of the University</li> <li>◆ Analysis and plan of action based on feedback obtained</li> </ul>
7.	February 2018	<ul style="list-style-type: none"> <li>◆ Half yearly Progress report of the departments of CHRI &amp; CCN (Aug 17 – Jan 18)</li> <li>◆ Review of the Best Practices implementation and outcome</li> </ul>
8.	March 2018	◆ Conduct of Internal Audit (Academic and Administrative)
9.	April 2018	<ul style="list-style-type: none"> <li>◆ IQAC National Seminar on "<b>Best Practices in Academic and Administrative Audit</b>"</li> <li>◆ Audit of Research output of the University</li> </ul>
10.	May 2018	◆ Review of Audit reports
11.	June 2018	◆ Development of strategic plan for the University based on the audit reports
12.	July 2018	<ul style="list-style-type: none"> <li>◆ Department Evaluation Report for the period January 18 - July 18</li> <li>◆ Preparation of the AQAR 2017-2018</li> </ul>

Name: Prof.Dr.D.C.Mathangi

*D.C. Mathangi*

Signature of the Coordinator, IQAC

*K. Ravindran*

Name: Prof.Dr.K.Ravindran

**Dr. K. RAVINDRAN**

Vice Chancellor

Chettinad Academy of Research & Education  
Rajiv Gandhi Salai, Kelambakkam  
Kanchipuram District - 603103.

Signature of the Chairperson, IQAC

**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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### Annexure 1: Academic Calendar

S.No	Academic Calendar 2016-17				
	No of Working days for I MBBS (2016-17) from 06.06.2016				
	Month	Saturday	Sunday	Holidays	Total No of working days
1	June 2016 (inuguration on06.06.2016)	2	3	5	20
2	Jul-16	2	5	0	24
3	Aug-16	2	4	1	24
4	Sep-16	2	4	1	23
5	Oct-16	2	5	1	23
6	Nov-16	2	4	1	23
7	Dec-16	2	4	6	19
8	Jan-17	2	5	2	22
9	Feb-17	2	4	0	22
10	Mar-17	2	4	0	25
11	Apr-17	2	5	1	22
12	May-17	2	4	13	12
	Total No of working days				259
S.No	Academic Calendar 2016-17				
	No of Working days for II MBBS to final MBBS from 01.06.2016				
	Month	Saturday	Sunday	Holidays	Total No of working days
1	June	1	4	0	25
2	Jul-16	1	5	0	25
3	Aug-16	1	4	1	25
4	Sep-16	1	4	1	24
5	Oct-16	1	5	1	24

6	Nov-16	1	4	1	24
7	Dec-16	1	4	6	20
8	Jan-17	1	5	2	23
9	Feb-17	1	4	0	23
10	Mar-17	1	4	0	26
11	Apr-17	1	5	1	23
12	May-17	1	4	13	13
	Total No of working days				275
S.No	<b>Academic Calendar 2016-17</b>				
	<b>No of Working days for DM/M.Ch( 2016-17)</b>				
	Month	Sunday	Holidays	Total No of working days	
1	August 2016(inauguration on 01.08.2016)	4	1	26	
2	Sep-16	4	1	25	
3	Oct-16	5	1	25	
4	Nov-16	4	1	25	
5	Dec-16	4	0	27	
6	Jan-17	5	2	24	
7	Feb-17	4	0	24	
8	Mar-17	4	0	27	
9	Apr-17	4	1	25	
10	May-17	4	1	26	
11	Jun-17	4	0	26	
12	Jul-17	5	0	26	
	Total No of working days				305
S.No	<b>Academic Calendar 2016-17</b>				
	<b>No of Working days for MD/M.S ( 2016-17) 02.05.2016</b>				

	Month	Sunday	Holidays	Total No of working days
1	May-16	5	0	26
2	Jun-16	4	0	26
3	Jul-16	5	0	26
4	Aug-16	4	1	26
5	Sep-16	4	1	25
6	Oct-16	5	1	25
7	Nov-16	4	1	25
8	Dec-16	4	0	27
9	Jan-17	5	2	24
10	Feb-17	4	0	24
11	Mar-17	4	0	27
12	Apr-17	4	1	25
	Total No of working days			306

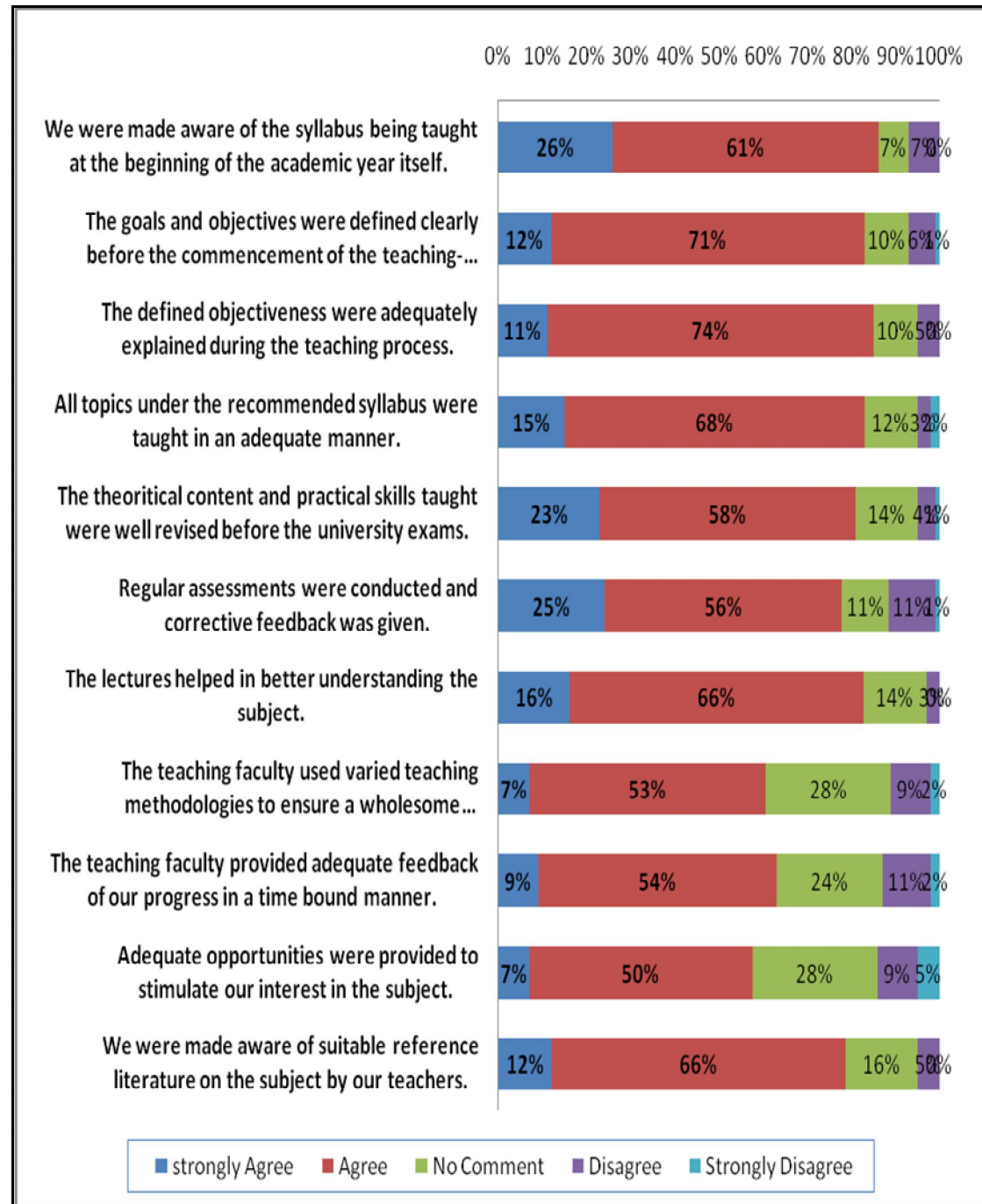
S.No	Academic Calendar 2016-17				
	No of Working days for B.Sc AHS & M.Sc courses (2016-17) from 01.07.2016				
	Month	Saturday	Sunday	Holidays	Total No of working days
1	Jul-16	2	5	0	24
2	Aug-16	2	4	1	24
3	Sep-16	2	4	1	23
4	Oct-16	2	5	1	23
5	Nov-16	2	4	1	23
6	Dec-16	2	4	6	19
7	Jan-17	2	5	2	22
8	Feb-17	2	4	0	22
9	Mar-17	2	4	0	25

10	Apr-17	2	5	1	22
11	May-17	2	4	13	12
12	Jun-17	2	4	0	24
	Total No of working days				263

Academic calender 2016 - 2017					
No. of working days for B.Sc Nursing, Post Basic B.Sc Nursing and M.Sc Nursing					
S.No	Month	No of Holidays			Total No. of Working Days
		Saturday	Sunday	Holidays	
1	September-2016	0	4	1	25
2	October-2016	0	5	1	25
3	November-2016	0	4	1	25
4	December-2016	0	4	6	21
5	January-2017	0	5	2	24
6	February-2017	0	4	0	24
7	March-2017	0	4	0	27
8	April-2017	0	4	1	25
9	May-2017	0	4	13	14
10	June-2017	0	4	0	26
11	July-2017	0	5	0	26
12	August-2017	0	4	1	26
Total number of working days					288

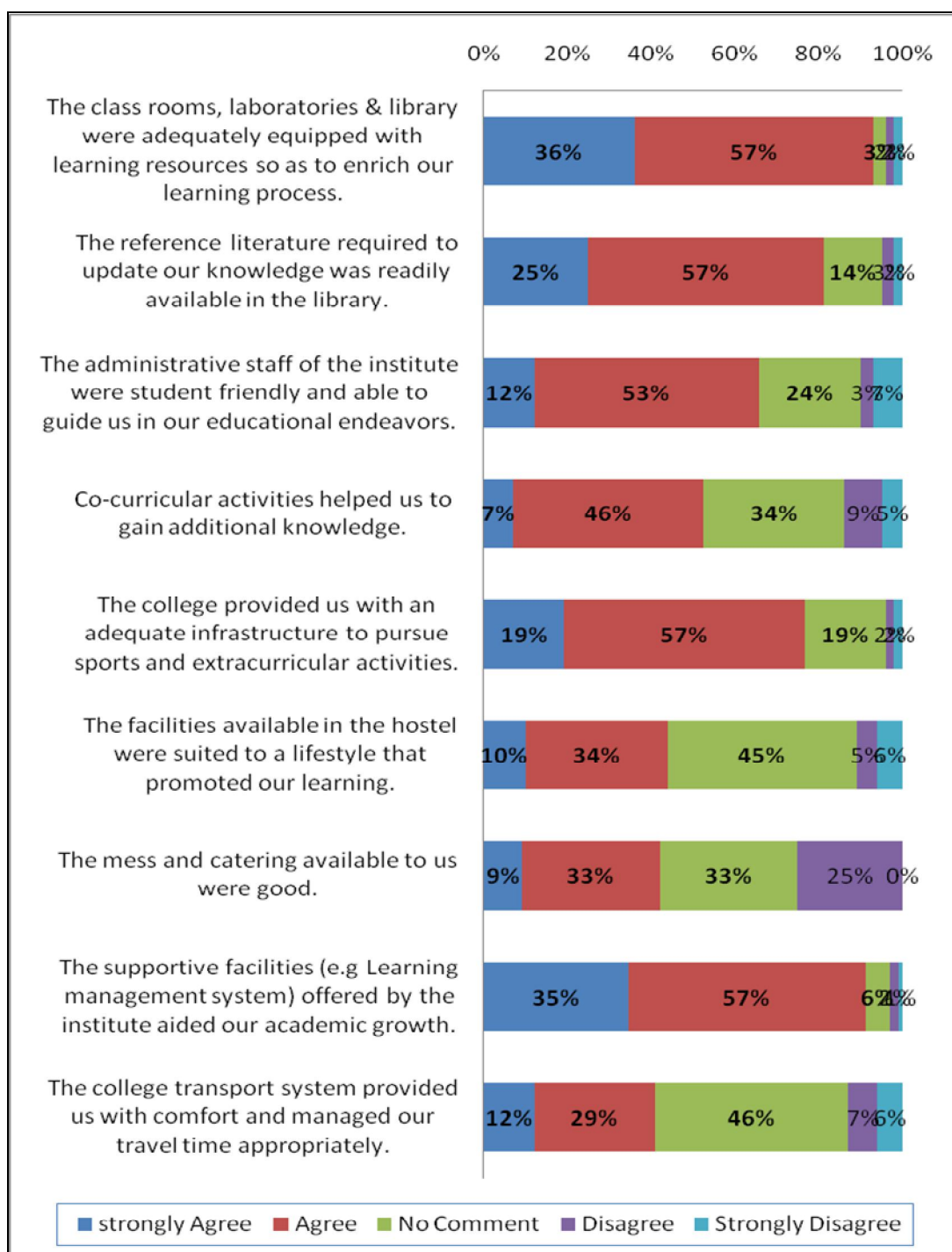
## Annexure 2: Feedback

### A. Student Feedback

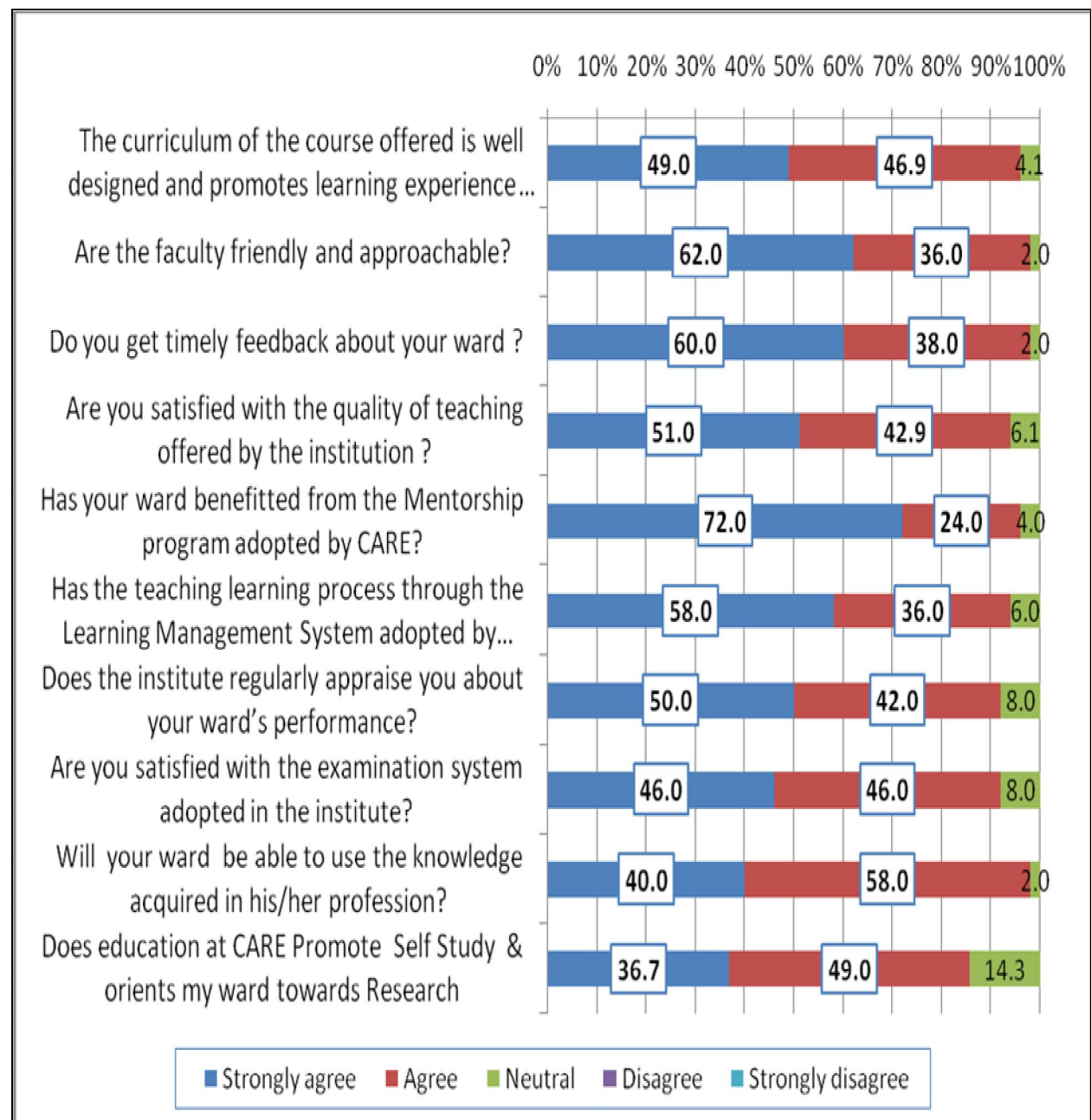




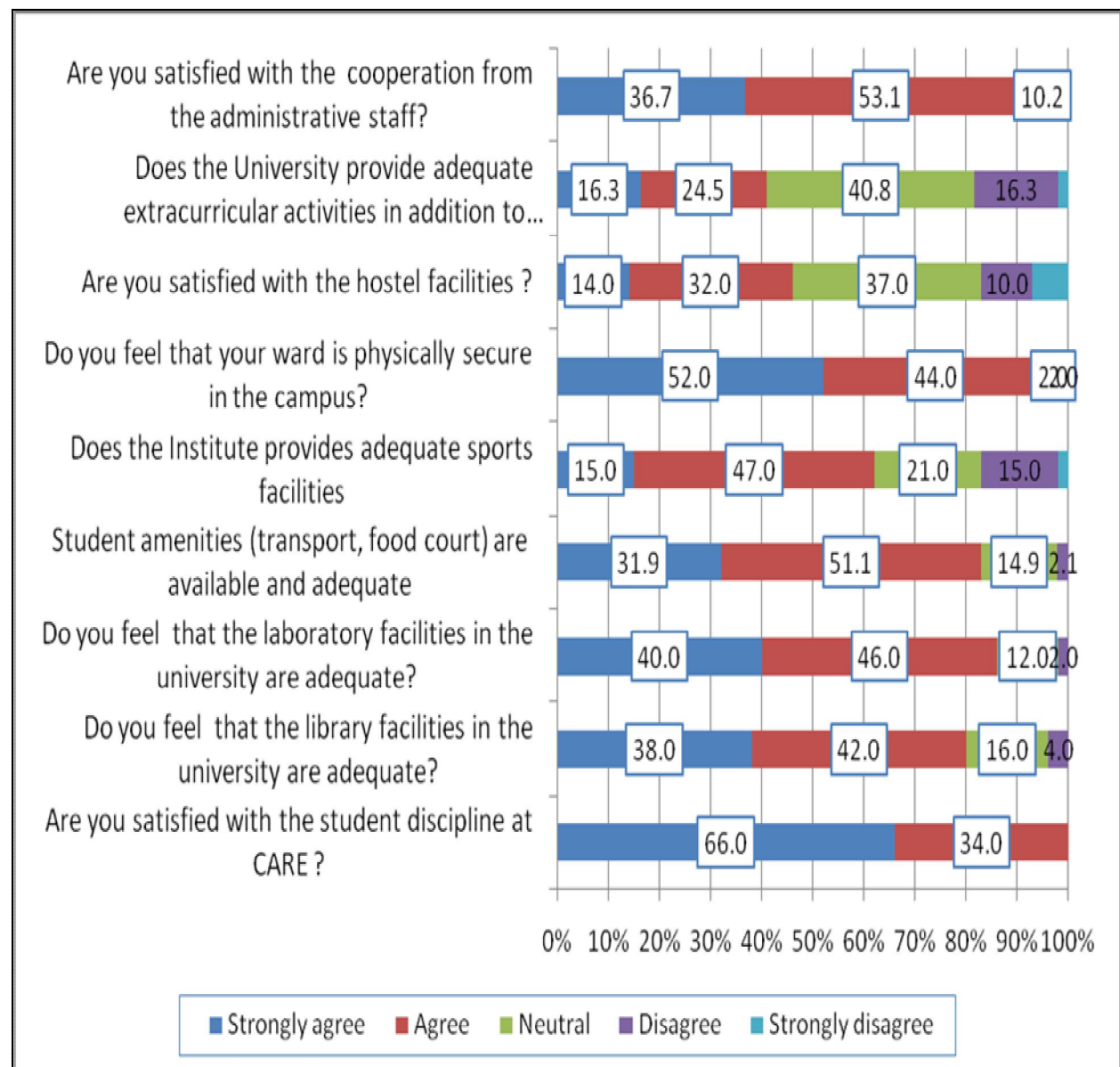
## Student feedback (contd)



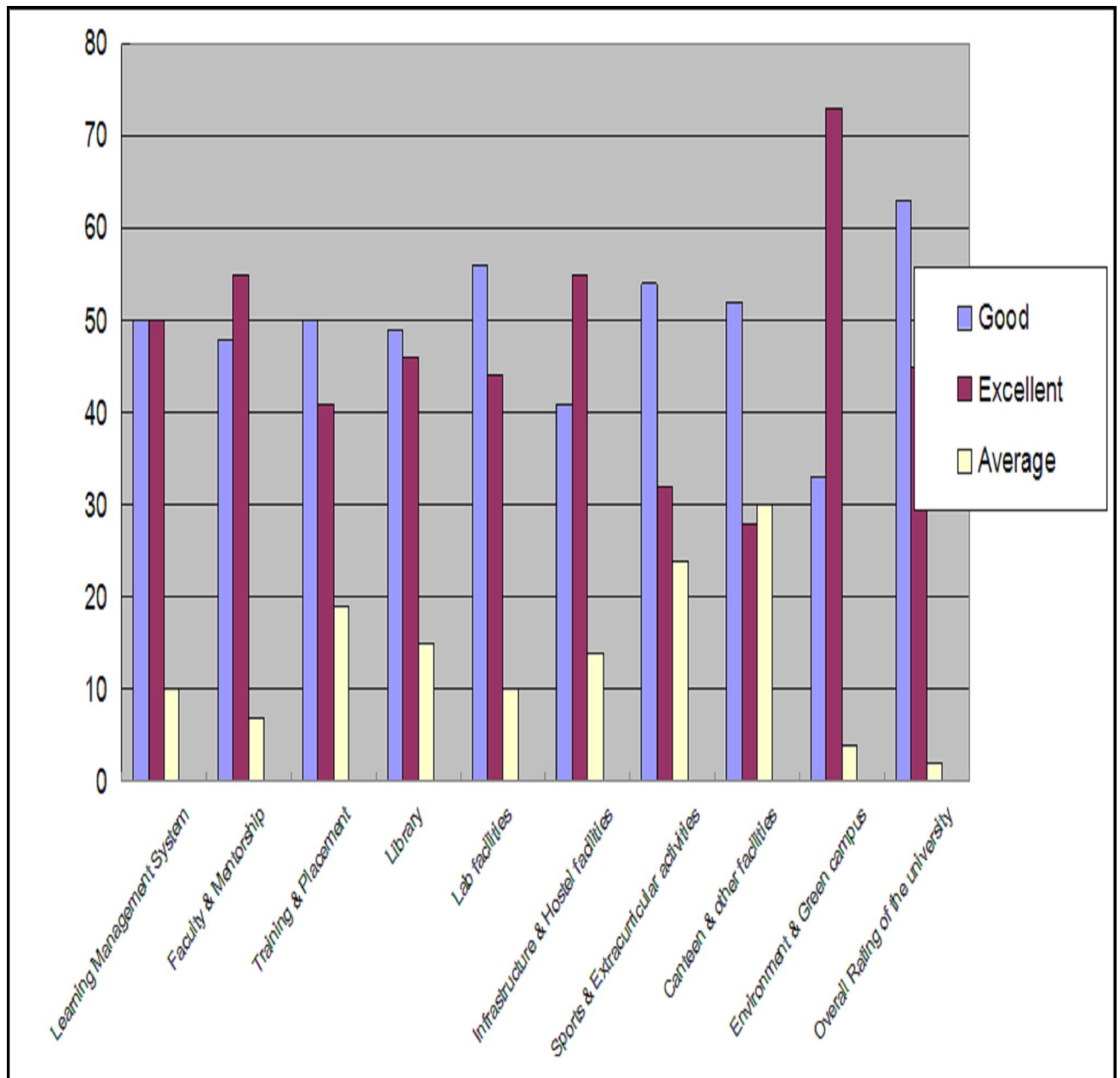
## B. Parent Feedback



## Parent Feedback (contd)



### C. Feedback from Alumni



### **Annexure 3: BEST PRACTICE**

**1. Title of the Practice:** Promoting first generation learners among woman, students from rural areas and underprivileged sectors.

**2. Objectives of the Practice:**

- ❖ To identify the first generation learners among the rural community, woman and the underprivileged sector.
- ❖ Create opportunities and space for their social and academic growth.
- ❖ To provide additional resources like free educational materials, special mentorship programme, counseling by peers for aiding and impacting graduation.
- ❖ To provide quality higher education in health care in new inter-disciplinary innovative programs in emerging areas to the above learners at an affordable cost to empower them.

**3. The context that required initiation of the practice.**

The mission of CARE is to offer quality higher education and services in health care to people from all strata in an affordable manner for social, economical and national development.

The institution is located in the rural area which is lacking of higher education system. Hence providing quality education to them is the need of the hour for such students.

**4. The Practice:**

- The institution identifies the first generation learners by conducting surveys in the rural community and fairs, outreach programme, counseling and motivational programme and NSS activities.
- During the outreach programme, first generation students among the rural families are identified and family folders are maintained.
- In the higher secondary schools located nearer to the institution and other rural areas, students counseling programme are conducted for admissions into nursing courses.
- Progress of students on academic and other fronts is monitored continuously through mentor system.
- During the course of their study, CARE offers them help in the form of concessions in fees, research fellowships and free insurance coverage.
- Focus on special groups like fishermen, irulas, sculptors etc by disseminating academic information thereby creating awareness about scope of nursing in the form of pamphlets, notice, etc and advertising through local mass media at the appropriate time.
- Motivating the young minds in serving the rural public at times of epidemic outbreak of diseases and during natural calamities.
- Inspiring the student learners to offer the helping hands to the needy community through NSS in which attention is not only given to health but also healthy maintenance of eco system.

**5. Evidence of success:**

- One third of the total number students admitted in FAHS are first Generation learners.
- About 70% of students are women.
- It is evident that more women are drawn towards health care education offered by CARE from the continuous increase in the number of women candidates over the years.
- Most of them hail from village areas.
- Students from various states have enrolled under FAHS in various courses.
- The pass percentage is high.

#### 6. Problems encountered and Resources required

- ☐ Language laboratories, e-learning facility, computer aided packages are provided.
- ☐ But, due to **poor Basic English knowledge**, they are unable to utilize the available resources.
- ☐ Conducting English coaching classes during summer and winter vacation for the students when they are in schooling is recommended to attain their basic English knowledge.

## **BEST PRACTICE**

### **1. Title of the practice: CHETTINAD LEARNING MANAGEMENT SYSTEM**

### **2. Objective of the practice:**

- ❖ The objective of this Learning Management System is to deliver content to all students from a centralized location which would be available online 24/7. It would be a centralized location for the faculty, student and parents to monitor the progress of attendance, marks and educational content downloads. It would help the institution to maintain records of the students which can be easily tracked.

### **3. The context that required initiation of the practice:**

The learning management system was developed to provide course materials to students from a central location. The idea was also to provide the students with these materials anywhere as long as they are connected to the internet. The enhancements would make course ware distribution, maintenance of records and management of students' records effective. Apart from the above, the necessity to measure the student's progress, schedules was also one of the main requirement which initiated this system.

### **4. The Practice:**

Ever-improving technology, new rules and regulations, increased student demands, and a changing workforce are all factors that create an environment where professors must efficiently and effectively deliver and manage learning experiences for their students. These experiences must be easily accessible and easily tracked.

### **5. Evidence of Success:**

#### **i) Centralized Learning Environment has Ensured Consistency:**

The LMS ensures consistency in delivery and evaluation since each user sees the exact same material in the exact same manner and can be evaluated through common pre-testing and/or post-testing methods.

An LMS allows users to easily design and deploy customized course-ware. This feature is especially important when hard topics are in for exams, previous year's materials to be made available, or keeping track of students progress are significant. This feature also applies to updates to circulars and new rules. Students can no longer say, "no one told me that..." or "no one ever gave it to me..." and make education very transparent.

#### **ii) Tracking and Reporting for Enhanced Performance:**

The LMS allows students to view all required learning path, track progress against the learning path, review records of examinations and attendance, and ask doubts online. Teachers can offer this material through various media including instructor-led videos, slide shows, or video conferencing. Institution can access the same records of success and can also analyze the records data to determine areas of success and areas for needed improvement.

**iii) Immediate Capabilities Evaluation:**

The LMS allows users to be evaluated prior to taking an assignment, while participating in the course, and upon topic completion. Teachers can evaluate retention by periodically administering scheduled assessments via the LMS. They can review the records of results to determine success levels and actual time taken to complete each course and its components. Apart from the above the student usage of this facility is also measured for its effectiveness.

**iv) Continuous Product and Service Proficiency for Employees who Interact with Customers and Clients:**

The LMS provides a central point for the institution to change information, specifications, requirements, forms, and to allow easy uploading of new content or assignments. Students will access the same training courses and the same evaluation materials. Teachers set predetermined course completion dates and monitor the number of students downloading the course at any given point in time. The LMS also allows Teachers to administer updates and evaluations online and assess knowledge levels and abilities.

**6. Obstacles faced if any:**

The learning management system had limited features as common to those distributed around the world. The commercially available learning management system does not have modules like Attendance, Shopping Cart and Searches. To overcome these obstacles, we custom developed our own Learning Management System which could integrate any kind of module on demand.

**7. Resources Required:**

A computer with any operating system which has a browser Internet connectivity with a minimum speed of 128 kbps.

One server with basic features.

Software - Visual basic run time.

Manpower – 4 (for ppt preparation).