YEARLY STATUS REPORT - 2020-2021

Part A
Data of the Institution

1.Name of the Institution	CHETTINAD ACADEMY OF RESEARCH AND EDUCATION
• Name of the Head of the institution	Prof (Dr) T Balasubramanian
• Designation	Vice Chancellor
• Does the institution function from own campus	Yes
• Phone no. of the Vice-chancellor	04447413330
• Alternate phone No.	04447411012
• Mobile no (Vice-chancellor)	9841202000
• Registered Email ID (Vice-chancellor)	vc@care.edu.in
• Address	Chettinad Health City, Rajiv Gandhi Salai (OMR)
• City/Town	Kelambakkam
• State/UT	TamilNadu
• Pin Code	603103
2.Institutional status	
• University	Deemed
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Private**
• Name of the IQAC Co-ordinator/Director	**Dr Arunkumar Radhakrishnan**
• Phone No.	**04447413322**
• Alternate phone no.	**04447413321**
• Mobile No:	**9094752000**
• IQAC e-mail ID	**iqac@care.edu.in**
• Alternate e-mail	**arunkumarr@care.edu.in**
3.Website address	**www.care.edu.in**
4.Whether Academic Calendar prepared during the year?	**Yes**
• If yes, was it uploaded in the Institutional Website?	https://care.edu.in/academic-calendar/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B**	**2.83**	**2010**	**28/03/2010**	**27/03/2015**
Cycle 2	**A**	**3.10**	**2015**	**16/11/2015**	**15/11/2020**

6.Date of Establishment of IQAC	**01/06/2010**

7.Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Dr Noorul Aina/ Dr Alexander M	**Simethicone-Fennel oil vs Indian Hammock Intervention in the prevention of**	**ICMR**	**2020-21**	**0.5**

	Functional Gastrointestinal disorders in early infants, An open-labelled randomized control trial			
Dr S Meenakshi (PI), Dr Moorthi A	Recombinant probiotic mediated targeted delivery of CRISPR/Cas13 for treatment of SARS CoV-2 viral infection	Department of Biotechnology	2020-21	41.02
Dr Antara Banerjee	Investigating the role of 4-Phenylbutyric acid in reducing the endoplasmic reticulum stress-mediated unfolded protein response in dextran sulfate sodium-induced colon cancer	Dept. of Science & Technology-INSPIRE JRF (IF190963)	2020-21	4.8128
Prof. Surajit Pathak	Role of microRNA10b in regulation	Department of Biotechnology	2020-21	15.167

	of hippo signaling in colon cancer				
Dr Hikku G S	Nano fabric conditioner to impart antimicrobial property to Nomex or high performance fabrics	Life Sciences Research Board, DRDO	2020-21	30.24406	
Dr. Padmaja Sukumar/ Dr. Ruckmani	Evaluation of the feasibility of using the biomarker urine IP-10 to assess the treatment response to the pharmaco therapy of active pulmonary tuberculosis in the intensive phase and continuation phase	ICMR	2020-21	0.5	
Dr. Sushil/D r.Arunkumar	Assessment of efficacy and safety of Colesevelam given alone and in combination with Metformin in newly diagnosed	ICMR	2020-21	0.5	

	type II diabetes mellitus associated with dyslipidemia - A randomized controlled trial				
Dr. Rani Kumaravelu/Dr. Nirupa	Genomic charectreization of SARS CoV-2 strains detected from COVId-19 patients, in a tertiary care hospital	ICMR	2020-21	0.5
Dr. Arthi/ Prof Meenakshi	Evaluation an correlation of disease severity with clinico-radiological and pulmonary function parameters in post COVID-19 patients	ICMR	2020-21	0.5
Dr. Sheelapriya/ Dr. Shankar Chokkalingam	Comparison of corneal parameters and intraocular pressure between hydroxypropylmet	ICMR	2020-21	0.5

	hylcellulose and hydroxyp ropylmethyl cellulose with sodium hyaluronate after phacoe mulsificatio n				
Dr. Ganesh/ Dr. Alex Daniel Prabhu	Non-invasive assessment with acoustic radiation force impulse elastography of the liver and spleen to identify non-cirrhotic portal fibrosis/ banti syndrome/ idiopathic portal hypertension from cirrhosis with portal hypertension and comparison with liver biopsy	ICMR	2020-21	0.5
Dr. Grace Aishwarya Jasmin/ Dr Ashok Kulasekar	Comparitive study on oral melatonin and oral zolpidem on	ICMR	2020-21	0.5

	perioperativ e anxiety in surgeries done under regional anaesthesia- a randomized double blinded study			
Dr. Ariyasundari Somasundaram / Dr. Ashok Kulasekhar	Comparison of intravenous dexamethason e and intraveneous magnesium sulphate before subarachnoid block to evaluate post opertaive analgesia for lower abdominal surgeries	ICMR	2020-21	0.5
Dr. Moorthi A Ms.Pragyan Paramita	Stimuli responsive polymeric hydrogel for connective tissue regeneration	CSIR	2020-21	4.4

8.Is the composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	View File	
9.No. of IQAC meetings held during the year	4	

• Have the minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website	**Yes**

• (Please upload, minutes of meetings and action taken report)	[View File](#)	

10.Did IQAC receive funding from any funding agency to support its activities during the year?	**No**
• If yes, mention the amount	

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Conduct of National Conferences, Seminar and workshops on quality initiatives
Improvement in the quality of teaching material and exposing medical and allied students to COVID-19 care
ISO certifications
Preparation of stakeholders towards NABH accreditation
Sensitization of faculty members towards participation in various ranking processes

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
To Conduct National Conferences, Seminar and workshops on quality initiatives	**IQAC has been instrumental in perceptible increase in number of Workshops, CMEs, few National level Conferences with bringing in many national & International experts in various fields across the country/world**
Preparation & Submission of application to MCI/NMC renewal of permission / recognition / renewal of recognition	**All the programs received renewal of permission / recognition / renewal of recognition**

Quality enhancement and memebership in Professional bodies/ societies etc.	Membership was obtained in various professional bodies
Preparation and submission of documents to WEEK HANSA and OUTLOOK I-CARE ranking	10th Best Private Medical College in South Zone, 15th Best Private Medical College in India, 32nd Best Medical College in India, 11th Best Private Medical Institution , 6th Best Medical University
Preparation and submission of documents to UI Greenmetrics	Chettinad Academy of Research and Education stands 5th in the country ranking by UI Greenmetrics
Preparation and submission of documents to IGBC green campus	IGBC green campus rating system has certified a PLATINUM – Global leadership status
Preparation and submission of documents to MHRD Innovation cell	Chettinad Academy of Research and Education has been awarded a 3 star by MHRD's Innovation Cell 22.09.2020
Sensitization of IQAC members on the methodology to fill eSSR	IQAC members helped preparation and fill up of the e-SSR of Health Sciences Manual
Preparation and submission of documents to ISO	Chettinad Academy of Research and Education IQAC is ISO 9001:2015 certified - 28.08.2020 to 27.08.2023
Preparation and submission of documents to Swachhta & Rural Engagement Cell	Chettinad Academy of Research and Education is a recognized Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution 24.08.2020

13.Whether the AQAR was placed before statutory body?	Yes

- Name of the statutory body

Name	Date of meeting(s)
Board of Management	**05/01/2019**

14.Does the Institution have Management Information System?	**Yes**

- If yes, give a brief description and a list of modules currently operational

Our Institute has e-governance system in place for more than 10 years. We have dedicated team of designers and developers, who have expertise in delivering end to end successful products. Most of the management systems are in-house developed and tested successfully by our IT team. We have installed and periodically upgraded the following modules with regard to various domains of management information system.

1. **Hospital Management System**
2. **Medical Records Management System**
3. **Patient / Billing management system**
4. **Lab management system**
5. **Human Resource Management System**
6. **Smart Campus Management System**
7. **Learning Management System**
8. **Material Management System**
9. **Infrastructure Management System**
10. **Examination Management System**
11. **Attendance Management System**
12. **Library Management System**
13. **Hall Reservation System**

Extended Profile

1.Programme

1.1 Number of all Programmes offered by the Institution during the year	78

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	**2699**

File Description	Documents
Data Template	View File

2.2 Number of graduated students during the year	**567**

File Description	Documents
Data Template	View File

3.Academic

3.1 Number of full-time teachers during the year	**355**

File Description	Documents
Data Template	View File

3.2 Number of sanctioned posts during the year	**359**

File Description	Documents
Data Template	View File

4.Institution

4.1 Total expenditure excluding salary during the year (INR in lakhs)	**8459.18917**

File Description	Documents
Data Template	View File

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global health care needs which are visible in Programme Outcomes (POs), and Course Outcomes (COs) offered by the University, as per the norms of the Regulatory Bodies.

Outcome based education calls for a continuous refining of curricula. Specific efforts to link the curriculum design, and evaluation to knowledge gained and ability for critical reasoning within the framework of professional ethics, empathy and human values has been put in. These linkages enable the graduates turn competent physicians, health care support staff and research personnel. The guiding factors in curriculum are based on the program and their societal linkages. Thus, the programs of faculty of medicine would derive inspiration from MCI/NMC, those of faculty of allied health sciences from CBCS model, and those of faculty of nursing from INC and TNMC. The guiding factor for research would comprehensive understanding, compassionate to the society and population centric healthcare.

Learning is only a part of the curriculum. Communication is the other. To enhance learning and communication skills, the coursework are modulated to provide for critical thinking, skills for communication, problem solving, learning by self-motivation, developing an individual's unique personality and a concern for the future of the society at large. For this, small group discussion using literature, and case scenarios, experiential learning pedagogy based behaviour modification and development of positive attitudes, learning in by taking students to a community/industry setting to learn through observation, interaction, inquiry, assessment and interpretation is part of coursework.

The expected graduate attributes are realized with defined programme outcomes. The courses have well defined outcomes to meet local, national and global needs.

While the curricula provides prevailing global knowledge, an emerging professional needs to have a thorough knowledge of the variations and disparities among the indigenous populations in terms of their response to prevailing treatment procedures. The relationship between habitat, economic status, environment, literacy levels of the population and spread of communicable diseases needs to be understood at the local / regional levels and the courses are designed accordingly. Thus a connect between global, national, regional and local requirements is established through the coursework.

The effective implementation of the curriculum depends on the

teaching pedagogy. Classroom teaching, interactive lectures, IT and simulation labs enable better concept understanding. Critical thinking and problem solving skills are imparted.

File Description	Documents
Curricula implemented by the University	http://aqar.care.edu.in/files/1.1.1.B-Syllabus.pdf
Outcome analysis of POs, COs	http://aqar.care.edu.in/files/1.1.1.A-Outcome-analysis.pdf
Any other relevant information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

53

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Details of the revised Curricula/Syllabi of the programmes during the year	View File
Institutional data in prescribed format (Data Template)	View File
Syllabus prior and post revision of the courses	View File
Any other relevant information	No File Uploaded

1.1.3 - Provide a description of courses with focus on competency/ employability/ entrepreneurship/ skill-development offered either by the University or in collaboration with partner Institutions / Industries during the year

CARE's competency-based and LOCF-based programmes are designed with professionals in mind. The intense clinical training improves medical graduates' proficiency and expertise, increasing their employability. Medical graduates get to the point where they have their own business, allowing them to become successful entrepreneurs. The Nursing curriculum framework focuses on the development of critical thinking skills, competencies, and skills necessary for professional nursing and midwifery practise, as defined by National Health Policy. It also equips our graduates to

be outstanding citizens by requiring them to follow a code of ethics and professional conduct at all times when meeting personal, social, and professional commitments in order to meet national goals. The allied health Science programme has a final one year clinical internship which makes them work ready.

Faculty of allied health sciences offers interdisciplinary programmes that include theoretical and laboratory courses that transmit employability skills. Analytical techniques, Immunological and molecular diagnostics, and Cell culture techniques are among the practical courses that give them with the required hands-on training to be immediately employed in the industry. To prepare students for job or further study, the system should give experiences that go beyond the knowledge imparted in the classrooms to build other important skills required of effective and productive professionals. As a result, in addition to the training and internship provided at our hospital, medical nursing and allied health science students are offered internship training at other hospitals with advanced facilities through the establishment of MOUs.

Students can choose from a variety of (3 or 4 credit) courses offered under GE/Generic Electives, DSE/Discipline Specific Elective, DSEP/Discipline Specific Elective Practical, AEC/Ability Enhancement Course, and SEC/Skill Enhancement Course to gain transferrable skills. Employability skills such as troubleshooting, interpreting, lab safety, communication, teamwork, and ethics are emphasized, and students are expected to master them prior to graduation. Language Proficiency, Teamwork, Critical Thinking, and Analytical Skills are all enhanced through these skill development programmes. Our mission is to prepare our students not only for their first job, but also to prepare them to be 'continuously employable' graduates. Many offered courses are also value-addedcoursesthathelpgraduatesimprovetheirskills.

File Description	Documents
List of courses having focus on competency/ employability/ entrepreneurship/ skill-development	View File
MOUs with Institutions / Industries for offering these courses (Initiated during the year?)	View File
Any other relevant documents	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice-Based Credit System (CBCS)/Elective course system has been implemented, wherever provision was made by the Regulatory Bodies (Data for the preceding academic year)

1.2.1.1 - Total number of Programmes where there is regulatory provision for CBCS – elective course system

28

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Institutional data in prescribed format (Data Template)	View File
University letter stating implementation of CBCS by the Institution	View File
Structure of the program clearly indicating courses, credits/Electives as approved by the competent board	View File
Any other relevant information	**No File Uploaded**

1.2.2 - Number of new Degree Programmes, Fellowships and Diplomas introduced by the University across all Faculties during the year (certificate programmes are not to be included)

1.2.2.1 - Number of new Degree Programmes, Fellowships and Diplomas introduced by the University during the year

7

File Description	Documents
List of the new Programmes introduced during the year	View File
Minutes of relevant Academic Council/BoS meetings for the year	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

1.2.3 - Number of interdisciplinary courses under the Programmes offered by the University during the year

1.2.3.1 - Number of courses offered across all programmes during the year

1794

File Description	Documents
List of Interdisciplinary courses under the programmes offered by the University during the year	View File
Minutes of relevant Academic Council/BoS meetings	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Gender, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues, Emerging demographic changes and Professional Ethics in the curricula

Core courses in the second period of MBBS program remember capabilities for Human privileges, amazing skill in managing Human Right Violations, Euthanasia, Medical Law and Ethics and Medicolegal issues on orientation one-sided wrongdoings. Other cross cutting abilities like Ergonomics, Environmental medical issues, Geriatric administrations (Human Values) and Disaster the executives are educated in Community Medicine courses. Disposition Ethics correspondence (AETCOM), Professional Ethics modules are instructed across all stages with required appraisal and assessment. MD Microbiology Program incorporates core seminars on Biomedical Waste Management just as Environment Sustainability.

The nursing faculty offers core seminars on Nutrition and wellbeing, food, lodging, squander the board, energy, water, transport, industry and urbanization. The educational program teaches the family, expert, moral and otherworldly qualities alongside the Right to medical problems on Beneficence and non misbehavior, loyalty and obligation, honesty, regard for individuals' right and nobility, right to data, instruction and correspondence, feasible degree of wellbeing and medical care plans and lawful issues. Arising segment changes on rate of birth, passing rate, natural manageability likewise structure part of the main subjects

Seminar on Foundations of Counseling Psychology teaches understudies on the lawful and moral contemplations and various styles of treatment that could be successfully utilized while managing multicultural issues and orientation issues. Clinical Ethics involves exploring a particular issue and utilizing realities, qualities and rationale to pick the best core value to the understudies. A core course according to the rules of UGC on Environmental Science and Disaster Management is obligatory for all graduate understudies. Seminar on Social Psychology situates understudies to job, disposition and discernment to their cultural obligation. Seminar on Positive Psychology teaches the understudies on the ideas of positive tutoring, balance between fun and serious activities and flexibility. Local area strengthening and social change, orientation based savagery and accessibility of lawful security, bias and segregation in light of orientation are canvassed in Social brain research. Positive Psychology course advances positive mental state, expert social conduct and building better networks. Notwithstanding core and elective courses, Value Added Courses on 'Human Values and Professional Ethics, 'Issues in quiet assent' 'Medical care Facilities: Planning and Design' and 'Anticipation and restoration of psychosomatic way of life illnesses through yoga' help in working on the personal satisfaction and assist them with acquiring a positive methodology in their everyday life. Innovative programs offered by the faculty of allied health sciences includes many courses that integrates crosscutting issues. Newly introduced fellowship programs specifically focus on these issues in order to meet the societal needs.

Not withstanding these proper educational program based courses, investment in many welcomed addresses, local area visits, local area wellbeing camps and working alongside networks give a pragmatic openness to the different cross cutting issues.

File Description	Documents
List of courses that integrate crosscutting issues mentioned above	http://aqar.care.edu.in/files/1.3.1.A-List.pdf
Description of the courses which address Gender issues, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues, Emerging demographic changes and Professional Ethics in the Curricula	http://aqar.care.edu.in/files/1.3.1.B-Description.pdf
Any other relevant information	**No File Uploaded**

1.3.2 - Number of value-added courses offered during the year that impart transferable and life skills

File Description	Documents
Brochure or any other document related to the value-added course/s	View File
List of value-added courses (Data Template -5)	View File
Any other relevant information	**No File Uploaded**

1.3.3 - Number of students who successfully completed the value-added courses during the year

1.3.3.1 - Number of students who successfully completed the value-added courses imparting transferable and Life skills offered during the year

1175

File Description	Documents
List of students enrolled in value-added courses (Data Template 5)	View File
Any other relevant information	**No File Uploaded**

1.3.4 - Students undertake field visits / research projects / Industry internship / visits/Community postings as part of curriculum enrichment

Industry internship would connect academic excellence to real life scenario. To get a deeper understanding of analytical concepts, their tools, build confidence in use and hone skills essential for

industrial employment all students would undertake internship of varying durations. The students during the internship would identify and define problems, understand mechanisms of addressing the problems and learn decision management. The essential goal is to teach students skill based finding and framing problems, collecting, and synthesizing and distilling data, engage in lateral thinking and experiment and learn. By exposing the students to real life projects, they would learn aspects such as interpersonal skills, engaging with others at various levels of hierarchy in the system, conflict resolution and motivating each other to complete a given task. Time being an important factor in any industrial processes, the students would also learn to work under pressure, deal unexpected contingencies and adapt to organizational realities such as finding solutions with available resources. Internship is also expected to serve as a feeder group to prospective full time employment opportunities upon graduation. The possible time periods for internship are a) summer vacation aftersecond semester for 21 days daysfor understanding industrial flow, handling material in ton, aspects of lab to industrial translation; b) summer vacation after fourth semester for 3-4 weeksin an industrial, government, rural setting for understanding aspects of innovation, trouble shooting, undertaking small problem specific solution projects, handling real time incidents; c) during theseventh and eighth semesterto take up project work in an hospital environment. During this time, students will participate in projects involving solution finding independently or as a team, productivity improvement, cost control projects etc. d) extending the project work to anyearlongactivity and e) community work- where students of the medical programs wouldspent 10 days to two months in a community hospital or clinic and work with the resident doctors and understand various aspects of healthcare, prevention of disease spread etc. In the case of long-term internship, the industry would be encouraged to provide a stipend to the students as in the case of PhD program. At the end of the internship, students are expected to submit a report, clearly indicating originality, variety and relevance of the learning experience, practical applications of the theory learned, relationships between the various levels of industrial hierarchy and risk assessment and control.

File Description	Documents
List of Programmes and number of students undertaking field visits / research projects / internships/Industry visits/Community postings during the year	http://aqar.care.edu.in/files/1.3.4.A-List.pdf
Any other relevant information	Nil

1.4 - Feedback System

1.4.1 - Mechanism is in place for obtaining structured feedback on curricula/syllabi from various stakeholders Students Teachers Employers Alumni Professionals	A. All 4 of the above

File Description	Documents
Stakeholder feedback report as stated in the minutes of the Governing Council/Syndicate/ Board of Management	View File
URL for feedback report	http://aqar.care.edu.in/files/1.4.1-Feedback-report.pdf
Sample filled-in Structured Feedback forms by the institution for each category	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as:	A. Feedback collected, analyzed and action taken on feedback and such documents are made available on the institutional

File Description	Documents
URL for stakeholder feedback report	http://aqar.care.edu.in/files/1.4.2-Feedback-report-with-action-taken-report.pdf
Action taken report of the University on feedback report as stated in the minutes of the Governing Council/ Syndicate/ Board of Management	View File
Any other relevant information	**No File Uploaded**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Due consideration is given to equity and inclusiveness by providing reservation of seats to all categories during the admission process

File Description	Documents
Number of seats filled against seats reserved (As per Data Template)	View File
Copy of letter issued by state govt. or and Central Government Indicating the reserved categories to be considered as per the state rule (in English)	View File
Final admission list published by the HEI	View File
Admission extract submitted to the state OBC, SC and ST cell for the year	View File
Initial reservation of seats for admission	View File
Any other relevant information	**No File Uploaded**

2.1.2 - Student Demand Ratio, applicable to programmes where State / Central Common Entrance Tests are not conducted

File Description	Documents
Institutional data in prescribed format (Data Template)	View File
Document relating to Sanction of intake	View File
Extract of No. of application received in each program	View File
The details certified by the Controller of Examination or Registrar evaluation clearly mentioning the programs that are not covered under CET and the number of applications received for the same	View File
Any other relevant information	**No File Uploaded**

2.1.3 - Student enrollment pattern and student profile to demonstrate   national/international spread of enrolled students from other states and countries

2.1.3.1 - Number of students from other states and countries during the year

149

File Description	Documents
List of students enrolled from other states and countries during the year	View File
E-copies of admission letters to the students enrolled from other States / Countries	View File
Copy of the domicile certificate/passport from respective states / countries	View File
Previous degree/ Matriculation / HSC certificate from other state or country	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

2.2 - Catering to Student Diversity

2.2.1 - The Institution assesses the learning levels of the students after admission and organises special programmes for advanced learners and slow performers. The Institution: Adopts measurable criteria to identify slow performers Adopts measurable criteria to identify advanced learners Organizes special programmes for slow performers and advanced learners Follows protocols to measure students' achievement	A. All of the Above

File Description	Documents
Methodology and Criteria for the assessment of Learning levels Details of special programmes	View File
Details of outcome measures	View File
Proforma created to identify slow performers/advanced learners	View File
Consolidated report to Dean academics /Dean student's welfare on special programs for advanced learners and slow learners for the year	View File
Any other relevant information	View File

2.2.2 - Student - Fulltime teacher ratio (data for the preceding academic year)

2.2.2.1 - Total number of students enrolled in the specified year

2699

File Description	Documents
List of students enrolled in the preceding academic year	View File
List of full-time teachers in the preceding academic year in the University (with Designation and Highest Qualification)	View File
Any other relevant information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods are used for enhancing learning experiences by

Traditional "teacher-centred" instruction must be shifted to Student Centric Instruction in order to achieve effective outcome-based education (SCI). CARE has implemented diverse SCI activities in its programs by integrating ICT and innovative pedagogies. Students are trained to use technology for gathering and synthesizing information and integrating it with the competencies of skills of inquiry, communication, critical thinking, problem solving. Brainstorm sessions for teacher orientation for moving away from the "sage-on-stage" to "coach on the side" were conducted for effective implementation of SCI. The programmes offered are professional in nature and hence experiential learning forms an essential component of SCI.

Experiential learning opportunities are enhanced by active MOUs with companies, hospitals, and research institutes. Tagging students early with teachers in a clinical context allowed them to see the professional intricacies, ethical difficulties, empathy, and human values ahead of time.

Students are better prepared to solve future difficulties through integrated and interdisciplinary learning. Many interdisciplinary programmes are available inCARE. In addition, cross-disciplinary learning is possible through electives and value-added courses. Courses are integratedhorizontally with the same phase and vertically with the preceding and subsequentphases.In comparison to "stand-alone" lecture/lab courses, integrated lecture/lab courses provide a deeper understanding of how to formulate hypotheses and organise experiments for validation.

Patient-centric evidence-based learning is used for clinical skills development. Bed side teaching, case discussions and clinical presentations help students to understand diseases in detail and look for differential diagnosis.

Self-directed learning is encouraged through elective courses, MOOCs NPTEL/SWAYAM courses, conference presentations and panel discussions. Participative learning infuses confidence to take a positive approach even towards difficult subject. Group discussions, seminars, organizing community programmes and interactive teaching with student as the lead are adopted. Outcome of participatory learning of clinical statistics (value added course) using students own research topics resulted greater positive vibrations and better course outcome.

Project-based learning is integrated into PG in medicine, PG and UG

in Allied Health Sciences and Nursing programs as mandatory research projects to enhance students' ability to question, frame hypothesis, reason out and solve problems.

MBBS students carry out ICMR-funded as well as CARE-funded research projects.

Students efficiently translate many government-sponsored educational health and hygiene programmes for easy understanding via role play in community settings and peer teaching. Mind mapping on specialised themes might help you think more broadly. Ethics, human values, and psychology classes round out the learning experience. To improve problem-solving abilities, computer simulation techniques and skill-simulation labs, case scenario talks on simulated or actual cases, OSCE and OSPE have been implemented.

File Description	Documents
List of student-centric methods used for enhancing learning experiences during the year	http://aqar.care.edu.in/files/2.3.1.A-List-of-methods.pdf
Any other relevant information	No File Uploaded

2.3.2 - The Institution has provision for the use of Clinical Skills Laboratory and Simulation-Based Learning The Institution: 1. Has Basic Clinical Skills Training Models and Trainers for clinical skills in the relevant disciplines. 2. Has advanced patient simulators for simulation-based training 3. Has structured programs for training and assessment of students in Clinical Skills Lab / Simulation centre 4. Conducted training programs for the faculty in the use of clinical skills lab and simulation methods of teaching-learning	A. All of the Above

File Description	Documents
Geotagged photographs of clinical skills lab facilities, clinical skills models, patient-simulators	View File
List of training programmes conducted in the facilities during the year	View File
List of clinical skills training models	View File
Proof of Establishment of Clinical Skill Laboratories	View File
Proof of patient simulators for simulation-based training	View File
Report on training programmes in Clinical skill lab/simulator Centre	View File
Any other relevant information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

2.3.3 - Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources

ICT enables teachers and learners to share learning resources (local and global) and spaces, promote learner-centred and collaborative learning and thus enhances critical and creative thinking and problem-solving skills to achieve the targeted programme outcomes. CARE has fully technology-enabled eco system for effective implementation of ICT in teaching and learning. There is 24x7 LAN and Wi-Fi broad band connectivity for the staff and students. Classrooms are equipped with LCD projectors, laptops, microphones, speakers, amplifier, mixer and CCTV camera.

Chettinad Learning Management System (LMS), an in-house developed e-learning platform, is effectively used for teaching and learning. Audio visual modules developed for theory and practical classes are available in this platform for "anytime anywhere access". The educational videos have made a difference in the performance of slow learners. A specialized bioinformatics lab with high bandwidth, Dell Precision T3610 Workstation for high throughput computing and a High performance computing facility are some of the other ICT facilities that provide an ecosystem for informatics driven research and

innovation. To reach the goal of preparing teachers for effective technology development and use, professional training programs on development and use of ICT-enabled tools and e-resources for effective teaching and learning process are organized by IQAC.

E-resources for interactive simulations are integrated in UG and PG programs in many courses, especially in interdisciplinary programs for better understanding and developing cognitive skills in these new difficult to understand areas. Swayam platform is used both by the faculty and the students and both are encouraged to enroll in various courses which further widen the knowledge. Students and faculty have used NPTEL courses such as Introduction to Research, Research methodology, Biostatistics, Academic and Research Report writing to enhance their R&D skills.

Creation of ICT platform and effective use of ICT tools by teachers and students have enhanced the quality of teaching and learning outcome in terms of better knowledge, presentation skills, innovative thinking capabilities and application of theoretical knowledge into practice in terms of problem solving and carrying out research projects, which have resulted in publication of research papers and filing of patents.

File Description	Documents
Details of ICT-enabled tools used during the year for teaching and learning	http://aqar.care.edu.in/files/2.3.3.B-Details-of-ICT-enabled-tools-used-for-teaching-and-learning-2020-21.pdf
List of teachers using ICT-tools	http://aqar.care.edu.in/files/2.3.3.A-List-of-teacher-using-ICT.pdf
Any other relevant information	Nil

2.3.4 - Student: Mentor Ratio (preceding academic year)

Total number of mentors in the preceding academic year	Total number of students in the preceding academic year
355	2699

File Description	Documents
Details of fulltime teachers/other recognized mentors and students for the year	View File
Allotment order of mentor to mentee and records of mentors and mentees meetings for the year	View File
Copy of circular pertaining to the details of mentor and their allotted mentees	View File
Approved Mentor list as announced by the HEI	View File
Log Book of mentors	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

2.4 - Teacher Profile and Quality

2.4.1 - Number of fulltime teachers against sanctioned posts during the year

355

File Description	Documents
List of fulltime teachers and sanctioned posts for the year (Certified by the Head of the Institution)	View File
Position sanction letters by competent authority	View File
Appointment letters of faculty during the year	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

2.4.2 - Number of fulltime teachers with Ph.D./D.Sc./D.Lit./ DM/M Ch/DNB in super specialities /other PG degrees (like MD/ MS/ MDS etc.,) in Health Sciences for recognition as Ph.D guides as per the eligibility criteria stipulated by the Regulatory Councils during the year

2.4.2.1 - Number of fulltime teachers with Ph.D/D.Sc./D.Lit./DM/M Ch/DNB in super specialities / other PG degrees (like MD/ MS/ MDS etc.,) in Health Sciences for recognition as Ph.D guides as per the eligibility criteria stipulated by the Regulatory Councils. During the year data to be entered

302

File Description	Documents
List of fulltime teachers with Ph.D/D.Sc./D.Lit./DM/M Ch/DNB in super specialities / other PG degrees (like MD/ MS/ MDS etc.,) in Health Sciences for recognition as Ph.D guides as per the eligibility criteria stipulated by the Regulatory Councils and the number of fulltime teachers for the year	View File
Copies of Guide-ship letters or authorization of research guide provide by the competent authority	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

2.4.3 - Teaching experience of fulltime teachers in number of years (preceding academic year)

3300

File Description	Documents
List of fulltime teachers including details of their designation, department, total number of years of their teaching experience	View File
Experience certificate of fulltime teacher	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

2.4.4 - Number of teachers trained for development and delivery of e-contents / e-courses / video lectures / demonstrations during the year

355

File Description	Documents
List of teachers trained for development and delivery of e-contents / e-courses / video lectures / demonstrations during the year	View File
Reports of the e-training programmes	View File
Certificate of completion of training for development of and delivery of e-contents / e-courses / video lectures / demonstrations	View File
Web-link to the contents delivered by the faculty hosted in the HEI's website	https://care.edu.in/e-contents/
List of e-contents / e courses / video lectures / demonstrations developed	View File
Any other relevant information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

2.4.5 - Number of fulltime teachers who received awards and recognitions for excellence in teaching, student mentoring, scholarships, professional achievements and academic leadership at State, National, International levels from Government / Government-recognized agencies / registered professional associations / academies during the year

41

File Description	Documents
Institutional data in the prescribed format/ Data Template	View File
Certified e-copies of award letters (scanned or soft copy)	View File
Any other relevant information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination to the date of declaration of results during the year

2.5.1.1 - Number of days from the date of last semester-end/ year- end examination to the date of declaration of results in the year

13

File Description	Documents
List of Programmes and dates of declaration of last semester-end and yearend examination results	View File
Reports from Controller of Exam (COE) office/ Annual reports mentioning the relevant details	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

209

File Description	Documents
Certificate from Registrar / Controller of examination / Data on student grievances from the office of the Registrar (Evaluation)	View File
Minutes of the grievance cell / relevant body	View File
List of complaints / grievances during the year	View File
List of students who appeared in the exams during the year (Data template)	View File
Any other relevant information	**No File Uploaded**

2.5.3 - Evaluation-related Grievance Redressal mechanism followed by the Institution. The University adopted the following for the redressal of evaluation-related grievances.	**1. Double valuation/Multiple valuation with appeal process for re totalling/revaluation and access to answer script**

File Description	Documents
Provide links to the examination procedure and re-evaluation procedure developed by the Institution and duly hosted in the Institution's website	https://care.edu.in/examination-2/
Report of the Controller of Examination/ Registrar evaluation regarding the Grievance Redressal mechanism followed by the Institution	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

2.5.4 - Reforms in the process and procedure in the conduct of evaluation/examination; including Continuous Internal Assessment to improve the examination system. Describe examination reforms implemented by the University during the year with reference to the following within 100 - 200 words

Assessments form the backbone in deciding the quality and achieving the expected educational outcomes. CARE is continuously enhancing evaluation procedures in alignment with the learning outcome of the programs. Bloom's taxonomy framework is adopted in question paper setting for assessing different cognitive and problem solving skills. Continuous enhancement of IT integration and automation is pursued for transparent and efficient examination and valuation process. Examination manual with standard operating procedures and Examination schedule ensure timely publication of results for break-free student progression. The examination halls which are equipped with jammers are in CCTV network with the central processing system and hence readily monitored from the COE office.

Introduction of MCQs, Objective Structured Clinical Examination (OSCE) and Objective Structured Practical Examination (OSPE) ensure assessment of the cognitive and solution synthesizing capabilities. Continuous Internal Assessment is based on components such as written tests, viva-voce, practical exercises, quiz, assignments, summer projects, field visits, seminar, record maintenance etc. which measure expected competency-based course outcomes on communication skills, team work, leadership, lifelong learning, ICT skills, and quality of imagination and innovation, in addition to domain knowledge and skills

Online portals for students and faculty have been integrated with

the central examination system. Faculty can directly enter internal assessments marks/attendance, question bank through the dedicated portal to increase accuracy, avoid delay and promote paper-less process. Students' online portals enable them to apply for examination, transcript, re-totaling, pay fees and view examination time-table, internal assessment marks and end-semester exam results thereby an effective user-friendly transparent system is provided. The office of Controller of Examinations is highly automated using home-tailored, modular architecture-based central processing system with modules for Generation of Exam Schedule, Examiners database, Student application processing- Mandatory Attendance and internal mark verification, fee collection, Photo-embedded hall ticket generation, Examination hall seating plan, Generation of Invigilators' List, OMR scanning, coding and decoding answer sheets, generation and printing of TMR, Examination results, mark sheets, degree certificates, transcripts and interfaces with faculty and student portals. Answer sheets are decoded only during tabulation of the marks for fair and error-free evaluation.

Being in-house-developed, the integrated Examination Management System is highly robust and flexible to be readily customized and configured to the different program/course structures of the constituent colleges and schools. The effective end-to-end use of ICT for reforms in Examinations has resulted in on-time conduct of examination, results publication and convocations. Enhancement in automation has ensured fair, fast, error-free, transparent publication of results. The continuous and evolving changes in the assessment procedure have enriched the attainment of program/course outcome targets.

File Description	Documents
Details of examination reforms implemented during the year	https://care.edu.in/examination-2/
Any other relevant information	No File Uploaded

2.5.5 - Status of automation of Examination division using Examination Management System (EMS) along with approved online Examination Manual Options (Choose an applicable option):

A. Complete automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Snapshot of EMS used by the Institution	View File
Copies of the purchase order of the software/AMC of the software	View File
The present status of automation., Invoice of the software, & screenshots of software	View File
Annual report of examination including present status of automation as approved by BOM / Syndicate / Governing Council	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

2.6 - Student Performance and Learning Outcomes

2.6.1 - The Institution has stated learning outcomes /graduate attributes as per the provisions of Regulatory Bodies which are integrated into the assessment process and widely publicized through the website and other documents Provide details of the stated learning outcomes for each programme / course as stipulated by the appropriate Regulatory Body and the methods followed by the Institution for assessment of the same within 100 - 200 words

The programs offered by CARE have well defined Program Outcomes prescribed by the statutory bodies, a requisite of imparting the attributes covering Domain Knowledge and skills, Research and Investigation, Digital Literacy & Technology use, Problem Solving, Communication, Behavioral Skills, Teamwork and Leadership, Ethical, Social and professional understanding and societal responsibilities, Employability, Enterprise & Entrepreneurship and Lifelong Learning. All the courses have well defined SMART (specific, measureable, achievable, relevant and time oriented) course outcomes which are mapped with POs. The contribution of each course to the PO is scored in a scale of 0 to 3, reflecting the competencies achieved in the course to meet the respective POs.

Broadly this score evaluates the relevance of the respective course to the program, provides link between concepts and applications and identifies areas for development for attaining program specific outcomes. Each course is taught with subject/phasewise competencies incorporating Blooms Taxonomy. It is ensured to retain the

subjectwise character of learning and assessment and phase-wise course/subject outcomes are met and assessed. The course outcome, the program outcome and the linkage scores are sufficiently apprised to the relevant stakeholders in the beginning of course through various means including digital platforms, seminars, orientation meetings and one to one correspondence. Each program has a detailed handbook listing the curriculum, POs, each course syllabus and COs. These details are made available in the website.

Students and parents are also informed about the requirements during the induction meetings. Systematic and sequential student learning assessments are made using formative and summative examinations, seminars, assignments, project work, viva voce etc. The seminars assess independent learning (content preparation) and presentation and communication skills. Final semester research project undertaken by PG and most of the UG students, evaluates the attributes of identifying a problem, researching and developing design and methodology to solve the problem within a time frame. This further prepares students for a lifelong learning. Blooms Taxonomy based questions ensure high level of cognitive synthesis and problem solving, preparing the student to meet real world scenario.

The course teacher and Department Council evaluate the attainment of COs and POs. The attainment calculation has two components viz. direct (internal) and indirect (external). The direct component is based on the performance of the students as evaluated by the various learning assessments outlined above. The indirect method consists of feedbacks from students, alumni and employers, student progression to higher studies and placement. The department evaluates the attainment of the set targets and informs the Curriculum Committee which then provides feedback to IQAC. Periodic Curriculum and Continuing Educational meetings and Faculty Development Programs serve as experience sharing platforms for improving the PO-CO mapping and attaining the target-set POs. Curriculum Committee provides inputs to the course teachers for curriculum redesign for improving the PO-CO linkage scores. This circular process enriches and enhances the graduate outcomes.

File Description	Documents
Relevant documents pertaining to learning outcomes and graduate attributes	http://aqar.care.edu.in/files/1.1.1.A-Outcome-analysis.pdf
Methods of the assessment of learning outcomes and graduate attributes	http://aqar.care.edu.in/files/2.6.1.A-methods-of-the-assessment-of-learning-outcomes-and-graduate-attributes.pdf
Any other relevant information	No File Uploaded

2.6.2 - Pass percentage of final year students in the year

2.6.2.1 - Number of final year students of all the programmes, who passed in the university examinations in the year

469

File Description	Documents
List of Programmes and the number of students appeared and the number of students passed in the final year examination for the year	View File
Institutional data in prescribed format (Data Template)	View File
Link for the annual report of examination results as placed before BoM/ Syndicate/ Governing Council for year	http://aqar.care.edu.in/files/2.6.2.A-Annual-report.pdf
Any other relevant information	No File Uploaded

2.7 - Student Satisfaction Survey

2.7.1 - Online student satisfaction survey regarding teaching learning process

File Description	Documents
Any other relevant information	No File Uploaded
Database of all currently enrolled students (Data Template)	View File

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The Institution has a well-defined Research promotion policy and the same is uploaded on the Institutional website

Twenty first century is facing formidable challenges in Health Care Sector. The demands made by such challenges from both the life style as well as the suddenly bursting infectious diseases could only be met if scientific discoveries are translated into viable applications in a set time frame. The progression of "the bench side" inventions to "bed side" applications, needs a different cohort of clinical researchers and scientists working in tandem, integrating the newly emerging interdisciplinary areas of biomedical sciences with human health care and delivery. The research promotion policy of CARE revolves around the theme of "Quality Health Care Affordable to All". A Research Advisory Committee (RAC) of eminent scientists and clinicians sets new directions of research based on the national and contextual needs of affordable clinical care. RAC identifies opportunities for 'signature' contributions in R&D on human health care and suggest various measures for establishing a niche R&D system at CARE.

Committees: Mentoring and monitoring Quality Research

- Research Advisory Committee
- Board of Research Studies
- Institutional Review Board
- PG Research Review Committee
- UG Research Review Committee
- Ph.D ; Doctoral Committee
- Institute Human Ethics Committee
- Institute Animal Ethics Committee
- Institutional Bio-safety Committee
- Plagiarism Screening Committee
- Intellectual Property Rights Cell
- Institute Innovation and Incubation Cell

Facilities, Incentives, Supports and Initiatives for fostering Interdisciplinary Innovative Research:

- University seed money (upto 5 lakhs) for young faculty
- Incentives and recognition for quality publications
- Incentives and recognition for extramural projects
- University funded major and minor research projects
- Financial support for conduct of workshops/conferences/seminars
- University JRF / SRF / Research Associate / Assistant
- University Post Doctoral Fellowship

- Annual contingency for CARE JRF
- Fostering interdisciplinary/clinical research
- Clinicians in doctoral committees
- Building a core of internationally-trained interdisciplinary faculty
- Support for research publication
- Clinical data collection Support
- Part time PhD for faculty,
- Fostering MoU with institutions in India and abroad
- Promoting visits of faculty from reputed institutions in India and abroad
- ICT-High bandwidth network and high-end computing
- Central Instrumentation Facility
- CPCSEA approved animal facility

Office of Research Directorate which has full time Research Director, Research Convener, Research coordinator, Assistant Registrar and assistants follows proactive mechanisms for facilitating smooth implementation of the research projects.

- Advance funds for sanctioned projects
- Complete financial and technical support for Patent filing
- Simplification of procedures related to sanctions / purchases by the investigators
- Autonomy to the principal investigator (PI) for project implementation
- Timely release of University grants
- Timely auditing
- Timely Submission of utilization certificate to the funding authorities.
- Periodic Training programs/workshops
- Facilitating sharing of all institute facilities

University has R&D budget to support man power, equipment consumables and incentives. It also supports major and minor research projects by students and faculty. University is awarded with SIRO status by DSIR and annual reports are submitted to DSIR with details of research activities and finance statements.

File Description	Documents
Minutes of the meetings of Governing Council/ Syndicate/Board of Management for the year related to research promotion policy adoption	View File
Document on Research promotion policy	View File
Any other relevant information	**No File Uploaded**

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

183.8

File Description	Documents
Sanction letter of seed money to the faculty	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving seed money and details of seed money received (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.1.3 - Number of teachers awarded national/international fellowship/Financial support for advanced studies/collaborative research/conference participation in Indian and Overseas Institutions during the year

326

File Description	Documents
Certified e-copies of the award / recognition letters of the teachers	View File
List of teachers and their national/international fellowship details (Data Templates)	View File
Any other relevant information	**No File Uploaded**

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

| 56 | |

File Description	Documents
List of research fellows and their fellowship details	View File
E copies of fellowship award letters	View File
Registration and guide / mentor allocation by the Institution	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

3.1.5 - University has the following facilities Central Research Laboratory / Central Research Facility Animal House/ Medicinal plant garden / Museum Media laboratory/Business Lab/e-resource Studios Research/Statistical Databases/Health Informatics Clinical Trial Centre Any other facility to support research	A. Any 5 of the Above

File Description	Documents
Videos and geo-tagged photographs	http://aqar.care.edu.in/files/3.1.5.Videographs-and-Geotagged-photographs.pdf
List of facilities provided by the University and their year of establishment (Data Template)	View File
List of the facilities added in the current academic year	View File
Any other relevant information	No File Uploaded

3.1.6 - Number of departments with recognition by ICMR-CAR, DST-FIST, DBT, MCI, DCI, PCI, AICTE, AYUSH, NACO, WHO, NIH etc. and other similar recognitions by national and international agencies, (excluding mandatory recognitions by Regulatory Councils for UG /PG programmes)

3.1.6.1 - The Number of departments with recognition by ICMR-CAR, DST-FIST, DBT, MCI, DCI, PCI, AICTE, AYUSH, NACO, WHO, NIH etc. and other similar recognitions by National and/or International agencies

7

File Description	Documents
E-copies of departmental recognition award letters	View File
List of departments and award details (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants for research projects /clinical trials sponsored by Non-Government sources such as industry, corporate houses, international bodies, endowments, professional associations, endowment-Chairs etc., in the Institution during the year

2929.61

File Description	Documents
E-copies of the grant award letters for research projects sponsored by nongovernment organizations	View File
List of project and grant details (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.2.2 - Grants for research projects/clinical research project sponsored by the Government funding agencies during the year

100.14

File Description	Documents
E-copies of the grant award letters for research projects sponsored by government agencies	View File
List of projects and grant details (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.2.3 - Ratio of research projects/clinical trials per teacher funded by Government/Industries and Non-Government agencies during the year

3.2.3.1 - Number of research projects/clinical trials funded by Government /industries and non-government agencies during the year

340

File Description	Documents
List of research projects and funding details (Data Template)	View File
Supporting document/s from Funding Agencies	View File
Copy of the letter indicating sanction of research project funded by Govt./Non-Govt agency and industry including names of teachers and amount in INR	View File
Any other relevant information	**No File Uploaded**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and entrepreneurship with an Incubation centre, entrepreneurship cell

In an era of information and innovation economies, fierce global competition is forcing education systems to shift away from generating graduates and toward developing inventors and enterprises. Today's modern students should be instilled with creativity, innovation, and entrepreneurial abilities throughout their university degree, as industry does not allow for incubation time. To incorporate innovation and entrepreneurship into the educational experience, an innovation eco-system was established in 2014 with the establishment of the Institute Innovation Cell (IIC-CARE). MHRD commended the IIC-CARE for its performance. IIC-CARE facilitates communication between students and young successful entrepreneurs by bringing together clinicians, ARIIA and NIRF coordinators, students and professors, professional consultants from BIRAC-sponsored IICs, NABARD's AGM, and entrepreneurs from BIRAC-sponsored startup companies, CEOs and Directors. Students are assisted in exploring successful small startup enterprises in order to inculcate drive and optimism. The eco system enables students to collaborate with a mentor academic member and a small start-up firm on their unique ideas. Competitions are conducted, and students are rewarded with incentives, accolades, and certificates for demonstrating their inventive ideas. They are driven by a desire to solve real-world therapeutic problems. The answers chosen by a jury

committee are then developed into a feasible prototype product. To bridge the gap between academic research and commercial implementation, they collaborate with a startup firm in the field of innovation to hone and transform the idea into a feasible industrial project. Seminars,workshops and conferenceson Intellectual Property Rights, Business Models, Legal Issues, and Available Financial and Other Support from Government and Other Organizations are scheduled. Faculty and students are encouraged to communicate and work with incubation centres and biotech parks funded by Bionest, as well as with industry.

Initiatives

1. Industry-sponsored training/consulting: Connect with the global community of innovators
2. MemorandumsofUnderstandingforInternships/Training
3. CelebrationsofInnovationDay by organizing competions and webinars to motivate students
4. ClinicianConnectpromotesinnovationfromthebedsidetothebench.
5. Industrypartnership:JointValue-AddedprogramswithIndustry
6. IPR-OlympiadExamination
7. Roadshowhighlightingpossibilitiesinhealthcare,research,andinnovation
8. Awareness to the innovation eco-system through participation in premier IICs in Tamil Nadu HTIC,IIT/MpresenttheBionestClusterShowcase

File Description	Documents
Geotagged photographs of the facilities and innovations made	[View File](#)
Any other relevant information	**No File Uploaded**

3.3.2 - Workshops/seminars conducted on Intellectual Property Rights (IPR) Research methodology, Good clinical Practice, Laboratory, Pharmacy and Collection practices, Research Grant writing and Industry-Academia Collaborations during the year

Knowledge and expertise are the driving factors of every development of any country. Chettinad Academy of Research Institute is one of the premier Institute where India's transformation into a knowledge economy gets its start. To compete in today's world, CARE's faculty members / students need to be exposed to a wide range of skills and experiences that will allow them to succeed in their careers. There is a need to inculcate skills that are needed to foster innovation and ethical practises in research and life while our students focus on the comprehension of many aspects of expertise. In order for a

big breakthrough to be successfully implemented in industry, it necessitates close industry-academic cooperation, and students must learn the how and why of this collaboration. Competitive environments demand that one's views be presented cohesively, and this can only be achieved via training. Towards achieving this, invited talks, training workshops, practice sessions etc. are being organized. The planning of these programs was based on principles of customizable, configurable, modular and scalable. Most of these workshops are interactive in character and provided lot of opportunities for the students and other participants to express themselves, ask questions and also express improvisations to existing systems.

Around 12 events like conference, seminars, workshops etc were arranged and delivered/led by a diverse set of specialists for each of the components. Researchers become more conscious of IPR as a result of the sessions. It's thanks to the workshops that the number of patents applied for went from nil in 2015 to 50 in 2021. The MHRD innovation division has given CARE a certificate of recognition for its work. It's important to note that the seminars were not generic in nature, but rather focused on CARE's specialised operations. For example, in 2021, a symposium on IPR was held that primarily targeted doctors and biological researchers. Additionally, teachers and students interested in clinical research attended training on Good Clinical Practice standards, which provided them with a better understanding of the ethical principles that must be followed while doing research on patients. An average of 50-80 people attends each of these training sessions. Additionally, several of the seminars served as refresher courses for participants who had already received training in a certain area. Workshops on current trends in teaching and scientific writing were offered to faculty members in an effort to help them enhance their abilities.

Several of the programmes were designed to help the doctors and scientists advance to the next level of institutional administration by enhancing their management and leadership abilities. These private partnership activities have contributed to the construction of a reputable, trustworthy, and dependable education for staff and students alike. With an expected 58.6 million new jobs in the United States and around 45 million new positions worldwide, qualified workers have a higher chance of finding good-paying employment in this growing economy. CARE's concerted efforts to organise seminars, lectures, and workshops like these help the skilled become more employable. We've made improvements to our initiatives based on the input we've received from participants.

File Description	Documents
Reports of the events	http://aqar.care.edu.in/files/3.3.2.B-Reports-of-the-events.pdf
List of workshops/seminars on the above conducted during the year	http://aqar.care.edu.in/files/3.3.2.A-List-of-workshop-seminars.pdf
Any other relevant information	**No File Uploaded**

3.3.3 - Number of awards / recognitions received for innovation / discoveries by the Institution/teachers/research scholars/students from recognized bodies during the year

3.3.3.1 - Total number of awards/recognitions received by the Institution/teachers/research scholars/students from recognized bodies during the year

9

File Description	Documents
E-Copies of award letters (scanned or soft copy) for innovations with details of awardee and awarding agency	View File
Link to appropriate details on the Institutional website	https://care.edu.in/innovation-awards/
Institutional data in prescribed format (Data Template)	View File

3.3.4 - Number of start-ups incubated on campus during the year

3.3.4.1 - Number of start-ups incubated on campus during the year (a startup to be counted only once)

10

File Description	Documents
Registration letter	View File
E- sanction order of the University for the start-ups on the campus	View File
Contact details of the promoters	View File
List of start-ups- details like name of the start-up, nature, year of commencement etc (Data Template)	View File
Any other relevant information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution has a stated Code of Ethics for research, the implementation of which is ensured by the following Research methodology with course on research ethics Ethics committee Plagiarism check Committee on Publication guidelines	A. All of the Above

File Description	Documents
Institutional code of Ethics document	View File
Course content of research ethics and details of members of Ethics Committee	View File
Copy of software procurement for plagiarism check	View File
Minutes of the relevant committee meetings for the year with reference to the code of ethics	View File
Details of committee on publication guidelines	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	No File Uploaded

3.4.2 - The Institution provides incentives for teachers who receive state,national or	A. All of the Above

internationalrecognitions/awards. Options: Career Advancement Salary increment Recognition by Institutional website notification Commendation certificate with cash award

File Description	Documents
Policy on Career advancement for the awardees	View File
Policy on salary increment for the awardees	View File
Snapshots of recognition of notification in the HEI's website	View File
Copy of commendation certificate and receipt of cash award	View File
List of the awardees and list of awarding agencies and year with contact details for the year	View File
Incentive details (link to the appropriate details on the Institutional website)	View File
Institutional data in prescribed format (Data Template)	View File

3.4.3 - Number of Patents/ Copyrights published/awarded/technology-transferred during the year

3.4.3.1 - Total number of Patents/ Copyrights published/awarded/ technology-transferred during the year

21

File Description	Documents
List of patents/Copyrights and the year they were published/awarded	View File
E- copies of the letters of award/ publication of patent/copyright/ technology-transferred	View File
Technology transfer document	View File
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.4.4 - Number of Ph.D/ DM/ M Ch/ PG Degree in the respective disciplines awarded per recognized PG teacher of the Institution during the year

3.4.4.1 - Number of Ph. Ds /DM/M Ch/PG degrees in the respective disciplines awarded per recognized PG teacher of the Institution during the year

127

File Description	Documents
List of PhD/DM/M Ch candidates with details; like name of the guide, title of the thesis, year of award, award letter etc	View File
Web page for research in the Institutional website.	https://care.edu.in/research/
Institutional data in prescribed format (Data Template)	View File
Any other relevant information	**No File Uploaded**

3.4.5 - Number of research papers per teacher in the approved list of Journals in Scopus / Web of Science/ PubMed during the academic year

File Description	Documents
List of research papers by title, author, department, name and year of publication and Scopus/Web of Science/PubMed list ref. No: (Data Template) /link	View File
Names of the indexing databases	View File
Any other relevant information	**No File Uploaded**

3.4.6 - Number of research papers per teacher in the approved list of Journals notified in UGC-CARE list during the academic year

3.4.6.1 - Number of research papers in the approved list of Journals notified on UGC website during the year

199

File Description	Documents
List of research papers with title, author, department, name and year of publication and UGC list ref. No: (link)	http://aqar.care.edu.in/files/3.4.6.A-Institutional-data.pdf
Names of the indexing databases	View File
Any other relevant information	**No File Uploaded**

3.4.7 - Number of books/ chapters in edited volumes and papers in National/International conference-proceedings published per teacher and indexed in Scopus/Web of Science/ PubMed UGC-CARE list during the year

File Description	Documents
List of books and chapters in edited volumes / books published (Data Template)	View File
List of names of publishers: National/ International	View File
Any other relevant information	**No File Uploaded**

3.4.8 - Bibliometrics of the publications during the calendar year based on average Citation Index in Scopus/ Web of Science

Scopus: 3.8; Web of Science: 5.06

File Description	Documents
List of the publications during the year	View File
Any other relevant information	No File Uploaded

3.4.9 - Provide Scopus/ Web of Science – h-index of the Institution for the academic year

30.5

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any other relevant information	No File Uploaded

3.5 - Consultancy

3.5.1 - Institution has a policy on IPR and consultancy including revenue sharing between the Institution and the individual, besides a training cum capacity building programme for teachers, students and staff for undertaking consultancy

CARE is dedicated to development of S&T products of relevance to medical science and health care. Through various research programs, CARE is dedicated to the development of technological products of relevance to the industry. The research activities are in consonance with present and future needs of the nation, including areas of community healthcare. Researchers take adequate care to ensure that research is of immediate need to the industry and community. The research programs thus lead to an intellectual property which after sufficient protection would be transferred to the industry and other institutions.

CARE undertakes the development of IP and the subsequent commercialization through a five-fold program, viz., raising awareness, training businesses, providing consultancy services, stimulating and disseminating innovation and advocating a policy for IP protection, translation and sharing of revenue/royalty. All the faculty and scholars undergo training continuously on conversion of research into IP and IP into consultancy/technology transfer. Researchers also undergo training to convert laboratory based research into commercially viable product. The funds for the training programs, filing and protection of IP are borne from the institute research grants.

Consultancy projects are taken up without compromising on the

highest level of ethical standards associated with the services. Consultancy services offered covers a variety of activities that includes expert advice, use of facilities, testing and characterization. The institute website also provides information on the services provided by the institute. This is in addition to the technology transfer after IP protection. IP based technology transfer would involve non-disclosure agreements and signing of contractual agreements. The MOU would involve details of deliverables, milestones, payment schedules, roles and responsibilities, mechanisms of dispute resolution, liability, IPR sharing, arbitration etc. Consultancy can be based on both individual capabilities and group / team expertise. A validation/ assessment of capabilities is taken up prior to taking up consultancy projects. The revenue arising out of licensing of IPR is shared with the inventors. 50% of the total revenue from the project is shared amongst the inventors. The above sharing of the consultancy charges is for the internal administrative use of the University only and is not revealed to the client for whom a lump sum figure of total consultancy charges may be quoted.

To promote consultancy through IP, institute has an incentive policy, which is in all three segments of IP filing to granting and commercialization. Revenue accruing to the institute from the licensing/transfer of technology will also be used to maintain the IPR also. The IPR Cell, alumni network, industries attracted through testing and characterization services all become the promoters of technology translation to the industry. The institution also welcomes collaborative research with industry, who wish to utilize the expertise available in the organization for improving the performance of the industry.

File Description	Documents
Minutes of the Governing Council/ Syndicate/Board of Management related to IPR and consultancy policy	http://aqar.care.edu.in/files/3.5.1.C-Minutes.pdf
Link to the soft copy of the IPR and Consultancy Policy	http://aqar.care.edu.in/files/3.5.1.B-IPR-copy.pdf
List of the training / capacity building programmes conducted during the year	http://aqar.care.edu.in/files/3.5.1.A-List.pdf
Any other relevant information	Nil

3.5.2 - Revenue generated from advisory / R&D consultancy projects (exclude Patients consultancy) including Clinical trials during the year

3.5.2.1 - Total amount generated from consultancy during the year (INR in lakhs)

530.92

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy/clinical trials	View File
CA certified copy/Finance Officer Certified copy attested by head of the Institution	View File
List of consultants and revenue generated by them (Data Template)	View File
Any other relevant information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension and outreach activities such as community Health Education, Community health camps, Tele-conferences, Tele-Medicine consultancy etc., are conducted in collaboration with industry, Government and Non- Government Organisations engaging NSS/NCC/Red Cross/YRC, Institutional clubs etc., during the year

3.6.1.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

310

File Description	Documents
Photographs or other relevant supporting document	View File
Detailed program report for each extension and outreach program with specific mention of number of students and collaborating agency participated	View File
Description of participation by NSS/NCC/Red cross/YRC, Institutional clubs etc., for the year	View File
Any other relevant information	**No File Uploaded**

3.6.2 - Number of students participating in extension and outreach activities beyond the curricular requirement as stated at 3.6.1

2698

File Description	Documents
Reports of the events organized	View File
Number of extension and outreach activities conducted with industry, community health camps etc.., for the year (Data Template)	View File
Geo tagged Photos of events and activities	View File
Any other relevant information	**No File Uploaded**

3.6.3 - Number of awards and recognitions received for extension and outreach activities from Government / other recognized bodies during the year

CARE has been giving its best in terms of various extension and outreach activities to the neighbourhood community with the aim to improve the health and quality of life of the individuals and communities in a substantial way. Our outreach drive focuses on building relationships with the neighbourhood communities in our activities to make a difference in the lives of those touched by the outreach programs.

The dedicated efforts of CARE in the areas of cleanliness and hygiene, disease prevention and community health, flag ship programs

on community hospital, rural and urban health centers, super specialty services to the rural and unreached, free medical consultancy services, advice and support to occupational health for IT and high-tech companies in community, digital India programs to the rural mass and participation and support to various state and central government sponsored programs for service and upliftment of the downtrodden, have received awards/recognition from different sectors.

- Appreciation letter from Christ The King Matriculation Higher Secondary School for organising Obesity awareness Program among school children
- Appreciation letter from Christ The King Matriculation Higher Secondary School for organising awareness program on common eye problems
- Appreciation letter from Christ The King Matriculation Higher Secondary School for organising Refractive error screening program
- Lions club appreciation letter for organising awareness program on diabetic retinopathy
- Appreciation letter from Hand in Hand, for organising health camps regularly
- Appreciation letter from Gateway School for organising awareness program on Hygiene, Healthy food habits during COVID-19
- Appreciation letter from Government Primary School, Vitlapuram for organising free school health camp
- Appreciation letter from Government High School, Paiyanur for organising awareness camp among the school children
- Appreciation letter from St. Ann's Matriculation School for organising free school health camp for the school children
- Appreciation from Vadagambadi Panchayat President for regular conduction of outreach and extension program in the village of Vadagambadi
- Appreciation from Vetuvangeni Panchayat President for regular conduction of outreach and extension program in the village ofVetuvangeni
- Appreciation letter from village people for conducting regular health camps with free drugs in the village of Ponmar, Ottiyambakkam, Kollamedu, Naduvakkarai, Kannginagar, Semmencheri, Pattipulam, Sokandi, Kalpakkam, Vayalur, Vitlapuram, Thathalur, Oragadam, Karuneelam, Eenjambakkam, Therkupattu, Perungudi, Vallipuram, Thachur and Keelur

File Description	Documents
Number of awards for extension activities in the year- e-copy of the award letters	View File
List of Government/other recognized bodies that have given the awards	View File
Any other relevant information	No File Uploaded

3.6.4 - Institutional social responsibility activities in the neighborhood community in terms of education, environmental issues like Swachh Bharath, health and hygiene awareness, delivery of free/ subsidized health care and socio-economic development issues carried out by the students and staff, including the amount of expenditure incurred during the year

Extension and outreach activities form an integral part of CARE. These help students to become globalcitizens getting aware of their social responsibilities, moral and ethical values, conforming to the Vision,Mission and Core Values of CARE. Extension activities are designed and implemented to sensitizestudents as well for the development and empowerment of the neighbourhood community, by promotingUniversity-Neighbourhood-Community network at very gross root levels. Major emphasis is given onstudent engagement, service orientation and holistic development of students.

NSS unit and a team of committed faculty members engage students in the community developmentprogrammes. Rural India has been facing uncleanliness, unhygienic and malnutrition conditions. Lack ofawareness is noted among the villagers about such problems like health, cleanliness and diseases. UnderNSS initiative, students have carried out different projects which have been well recognized in the form ofa national award to CARE. While maintaining the strengths of its traditional outreach activities, CAREincreasingly involves in programmes that respond to the changing needs of the society byconducting seminars/workshops/training and awareness programmes in the community.

Activities

Awareness Classes-orientation programme

Health camps, Village adoption and community orientation programmes

Swach Bharath Program, socio-economic surveys,epidemic awareness campaigns, Computer literacyand digital India programmes

Flagship project for Quality Health CareCommunity Hospital - free food, consultancy and medicines.

Energy conservation techniques have started LEDlight assembling unit, anti-plastic campaigns.

Cultural functions to inculcate Unity in diversity,Yoga day celebrations

Child health and participation in all national health initiatives

Books and cloth collection and distribution forsupport to needy and marginalised groups.

Multispecialty services at Rural health center

Cleanliness drives and water harvesting -treeplantation/greening initiatives – Internationalrecognition

NSS Activity

IGBC Certification

Working outside the college campus in rural villages with diversified socioeconomic groups of peoplesensitizes the students to understand the gross root problems, appreciate others and gain self-confidence tosolve community issues. These activities help them to become good leaders of tomorrow to lead thecountry as responsible citizens. The participation and experience gained sensitize them towards the issuesand challenges faced by the vulnerable sections of the society. This novel and unique experience ofparticipation in outside the class room extension activities enables them to develop an empatheticunderstanding of the societal needs and facilitates them to get involved in civic engagement.Activities listed in the table sensitize the student towards the social issues and address the challenges faced by thelesser privileged sections of the society. Working together as a team with the community, government andother organizations, students experience participatory learning skills to negotiate, communicate, manageand solve conflicts. They are sensitized to develop critical thinking and management skills to

solve theissues using the limited resources and time.

File Description	Documents
Geotagged photographs of Institutional social responsibility activities	http://aqar.care.edu.in/files/3.6.1.A-Outreach.pdf
Link for additional information	**Nil**
Link for additional information	**Nil**

3.7 - Collaboration

3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange/ Industry-internship etc conducted during the year

3.7.1.1 - Total number of Collaborative activities for research, faculty exchange, student exchange during the year

362

File Description	Documents
List of Collaborative activities for research, faculty exchange etc.., (as per Data Template)	View File
Certified copies of collaboration documents and exchange visits	View File
Link with collaborating Institution's website	http://aqar.care.edu.in/files/3.7.1.A-Final-list.pdf
Any other relevant information	**No File Uploaded**

3.7.2 - Presence of functional MoUs with Institutions/ industries in India and abroad for academics, clinical training / internship, on-the-job training, project work, student / faculty exchange, collaborative research programmes etc., during the year

3.7.2.1 - Number of functional MoUs for faculty exchange, student exchange, academics, clinical training, internship, on-the-job training, project work, collaborative research programmes etc., during the year

33

File Description	Documents
E-copies of the functional MoU's with institution/ industry/ corporate house, Indicating the start date and completion date	[View File](#)
Institutional data in prescribed format	[View File](#)

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate physical facilities for teaching –learning, skills acquisition etc.

CARE in situated in 33.45 acres of lush green foliage in semi-urban Chennai, Kelambakkam. Our university comprises of Chettinad Hospital and Research Institute, Faculty of Allied Health Sciences, Chettinad College of Nursing, Chettinad School of Pharmaceutical Sciences, Chettinad School of Physiotherapy, Chettinad school of Architecture and Chettinad School of Law as constituent colleges. CARE has state-of-the-art physical facilities for all academic requirements through extensive planning and augmentation.

CARE consists of 7 lecture halls each with 300 seats capacity, one lecture hall with 400 seats, 25 lecture halls with 75-100 seats capacity, 43 seminar halls with 100 seats capacity, 32 demo halls with 75-100 seats capacity, 10 demo halls with 100-125 seating capacity, 15 demo halls with 50-75 seating capacity.All the class rooms, lecture theatres and seminar halls are air-conditioned and ICT-enabled with sophisticated audio visual aids and facilities for video conferencing. These spaces are allocated to the students based on proper schedule of classes for optimal utilization of electricity. The college block has museum with varied and interesting specimens especially in the subjects of Anatomy, Physiology, Microbiology, Pathology, pharmacology, Community Medicine and Forensic Science.

The university provides LMS facility to all the students where all subject related materials like syllabus, lesson plan, lecture notes, power point presentations, assignments, seminar topics and question bank are uploaded.

The main library of our university - a treasure house of knowledge, functions in a spacious area of 40,000 sq.ft, and equipped with a substantial number of books and journals. The functions of the

library are strengthened with adequate number of computers and OPAC software which reflects the details of books and journals available in the library. The library has an enormous collection of study materials including books / e-books and journals / e-journals in the field of medical, allied health sciences, pharmacy, physiotherapy, architecture and law.

The constituent colleges and the University Departments have exclusive laboratories, classrooms, seminar halls, office space, student amenities, library and faculty rooms to facilitate the conduct of the various academic, research, training and extension activities associated with the teaching-learning processes.

In addition, the hospital block, has 10 demo halls with 75 seats capacity, 40 demo halls with 25 seats capacity and one lecture hall with 300 seats capacity and all of them are ICT enabled facilities. The ICT systems are so robust that we regularly live telecast the surgeries from the operation theatres for large group of students in lecture halls. These facilities are air-conditioned, Wi-Fi enabled and have comfortable seating and lighting arrangements. The students have regular webinars from eminent academicians from other institutions.

Regarding laboratories, other than the hospital laboratories for biochemistry, pathology and microbiology for patient sample analysis, we have 6 large laboratories with 125 seats capacity, 2 laboratories with 75 seats and 10 laboratories with 60 seats in the Academic Block. Dedicated labs are available for Histology, Histopathology, Hematology, Biochemistry, Microbiology, mammalian experiments, human physiology, Forensic Medicine, Clinical and Experimental Pharmacology, Community Medicine, Genetics, Molecular Biology, Pharmacy, Nursing and Physiotherapy. The students are given adequate space, instruments, reagents and chemicals, specimens and slides to carry out experiments and acquire the necessary knowledge.

Our Skills Lab has training facilities for basic life support with manikins, suturing, stages of labor, intra-venous catheterization, Non-invasive BP measurement, Palpation of Radial & Brachial pulse, ECG monitoring, auscultation of breath and bowel sounds, Fundoscopy, urinary catheterization, testicular and rectal examination, lumbar puncture training and intubation training.

The Medical College has a rural health centre in Poonchery and urban health centre at Karapakkam which are 15 to 20 kilometers away from the main campus. Both the centers have residential facilities for doctors and students to stay and carry out community work. The

students are taken for family survey, school health survey and they are engaged in all National health programs at community level.

FAHS offers programs on Allied Health Sciences and inter-disciplinary programs at UG and PG levels with established laboratory facilities for offering hands-on training to students while conducting practical classes. FAHS is in possession of advanced equipments such as spectrophotometer, spectrofluorometer, high performance GPU workstation, Dell precision workstation, bio-safety cabinet, genetic analyser, real-time PCR, animal imaging system, florescent microscope, etc. for research.

ChettinadCollege of Nursing (CCN) has facilities as per the norms prescribed by Indian Nursing Council with NursingFoundation Lab, MCH Lab, Community Nursing Lab, NutritionLab and the Advanced Nursing Lab (skill lab) for skills acquisition.

Chettinad School of Law, recognized by BCI and approved by UGC provides an environment that offers high quality education through active learning methods, regularly hosts moot court training programs, conferences, symposiums and encourages law students from various law schools and universities from across India to learn the art and skills of advocacy. It has a dedicated faculty run internship cell which helps the students to secure internships twice a year with reputed law firms, NGOs, Civil Societies, District & High Court lawyers, Supreme Court Advocates & corporate legal cells from the very first semester.

Chettinad School of Architecture approved by the Council of Architecture has State of the Art facilities like Air-conditioned studios, Computer Centre, Lecture Halls, Climatology lab, Surveying lab, Material museum, Model-making workshop, Construction Yard which are fully equipped with latest instruments and technologies for the welfare of the students. Periodically the Students are taken to the ongoing Projects, Construction Sites and various Workshops to gain awareness and knowledge on current trends in the Study.

Chettinad School of Pharmaceutical Sciences (CSPS) provides opportunity to the students to learn the full spectrum of the pharmaceutical industry, including business, legal, technology, research and development and patient care.

Chettinad School of Physiotherapy has a Well-structured Exercise therapy, Gait training unit and Electrotherapy unit with advanced instruments and apparatus for practical demonstration to the students.

The infrastructural facilities are professionally maintained and supervised by dedicated teams of qualified and experienced technical staff and the optimal utilization is ensured by various committees.

File Description	Documents
Teaching- learning and skills acquisition facilities in the Institution	http://aqar.care.edu.in/files/4.1.1.A-Teaching-learning-facilities.pdf
Geotagged photographs of the facilities	http://aqar.care.edu.in/files/4.1.1.B-Geotagged-photographs.pdf
Any other relevant information	Nil

4.1.2 - The Institution has adequate facilities to support physical and recreational requirements of students and staff: sports, games (indoor, outdoor), gymnasium, auditorium, yoga centre etc. and for cultural activities

CARE provides state-of-art facilities for this unification with the perfect blend of academics and sports. The Institution has created award-winning auditoria, global standard sports complexes to support the physical, mental and social requirements of 'students and staff' sports and cultural activities.

Outdoor facilities:

The trend setting amenities such as 400 mts Synthetic Track and Football field, with a total built up area of 1,77,120 sq feet, a Cricket ground, Futsal ground and Turf cricket nets, with a total built up area of 37,000 sq feet are available for outdoor events. Basketball courts, Lawn Tennis court and Tennikoit court with a total built up area of 14,203 sq feet are also utilized by the students. Ultra modern Sports complex covering 50,000 sq feet comprises Volleyball courts, Throw ball court and Kho-Kho court, and Kabaddi court.

Indoor facilities:

The state-of-the-art multi-purpose Indoor stadium (8,169 sq feet) with a seating capacity for 500 spectators has facilities for in-door activities such as Badminton, Basketball, Kabaddi, Table Tennis, Carrom and Chess. A swimming pool is available for interested students to get trained. Hostels (boys and girls) have separate gym facilities, equipped with the latest gym equipments of the highest standard. As per the Govt. initiatives we have

established an excellent yoga centre in our hostel premises. We motivate and encourage all the students and faculty to regularly use these facilities to make them physically fit. We have initiated a fitness program "Fitness @ CARE", a program in which the students and staff are encouraged to train in our ground either in the morning or in the evening. They will be trained for a cross-fit activity, Zumba Dance and simple running, walking and stretching. We are also actively pursuing the Fit India program based on the Govt. of India advisories. An average of 100 students and staff in the indoor and daily minimum of 200 participants in the outdoor make use of our sports facilities.

Facilities for cultural activities:

A 1400 seated world class, air-conditioned In-door auditorium, 400 seated air-conditioned in-door auditorium, 1000 seated open air theatre and a lot of mini halls support cultural programs. Various amenities and instruments to train and perform dance, orchestra, vocal, variety of on-stage events and off-stage events are available.

Facilitators:

We have appointed a full-time Director of Physical Education and a team of trainers/instructors for sports and cultural activities in order to help the faculty and students in these recreational activities. Our students regularly participate in the inter University, inter-college and Intra college competitions in sports and cultural events and their performances are good and unique at all levels. Our sports and cultural committee organize every year, National level Inter-collegiate sports and cultural program "CHET FUSION" and intra collegiate sports and cultural program "CHET FEST". The University provides necessary ambience and support by allocating all the necessary resources and funds for routine and special cultural and sports activities in the campus.

File Description	Documents
Available sports and cultural facilities: with geotagged photos	http://aqar.care.edu.in/files/4.1.2.A-Sports-and-Cultural-Facilities.pdf
Any other relevant information	Nil

4.1.3 - Availability and adequacy of general campus facilities and overall ambience

The general campus facilities available to students, staff and patients are of superior quality and adequate in quantity. The facilities are well maintained following industry standards.

Campus Facilities:

Green Campus: Our campus stands by the theme "Go Green". Our campus is sheathed with various plants and trees making it more pleasant and pollution free.

Security: Adequate security facilities are provided to students, staff and the patients who are inside our campus. CCTV cameras are installed at all vantage points in the campus and they are monitored continuously. Also turnstiles at exit points ensure access only to students and employees to the hostels and academic premises. Well trained security personnel are posted at all strategic locations in the campus.

Hostels: Hostels for men and women are provided with indoor gym facility, yoga room, swimming pool, study area etc. Safety and security are ensured with CCTV surveillance. No doubt that our hostels serve as a home away from home to the inmates.

Staff Quarters: Accommodation for teaching and non-teaching staff is provided in the campus. The in-house employees are allocated apartments of different sizes to villas with adequate car and two-wheeler parking facilities.

Medical Facilities: Hospitals with facilities of emergency, OPD services, intensive care units and pharmacy provide timely treatment to all the stakeholders round the clock

Bank and ATM: A branch of Axis Bank with ATM functions inside the campus providing banking services to faculty, employees and patients in the campus. In addition to this, two ATMs of other banks are available for students and staff.

Canteen: The magnificent food court of the university provides all types of cuisines including South Indian, North Indian, continental and international delicacies.

Apart from the above stated facilities, the campus also houses a salon and spa, fashion boutique, courier outlet, recharge hub, photocopy center for the benefit of students. Adequate car and two-wheeler parking facilities are available to students, staff and

visitors. High speed internet facility is made available throughout the campus.

Sports and Games: To encourage extra-curricular activities, our university has established several sports facilities for the students which include basketball court, cricket ground, tennis court, football ground and indoor games. .

Transport: Comfortable and convenient bus transport is provided to the students and employees of CARE for easy mobility to the institute and back. Pollution-free battery-driven vehicles are operated for movement within the campus. Also plenty of bicycles are available to students to move within the campus.

Sewage Treatment Plant functioning in the university takes care of the solid and liquid waste management as per protocols. The treated waste water is reused for gardening and sanitary purposes.

The state-of-the-art water purification plant caters to the drinking water needs of students, faculty, staff and patients

Other facilities that enhance the ambience include ramps, lifts etc for di8fferently abled students and patients, cement concrete roads, signage boards and fire extinguishers.

Thus the general facilities in the campus provide an admirable academic environment.

File Description	Documents
Geotagged Photographs of Campus facilities	http://aqar.care.edu.in/files/4.1.3-Campus-Facilities.pdf
Any other relevant information	Nil

4.1.4 - Number of expenditure incurred, excluding salary, for infrastructure development and augmentation during the year

4.1.4.1 - Number of expenditure incurred, excluding salary, for infrastructure development and augmentation during the year (INR in lakhs)

2331

File Description	Documents
Audited report / utilization statements (highlight relevant items)	[View File](#)
Details of budget allocation, excluding salary during the year (Data Template)	[View File](#)
Any other relevant information	**No File Uploaded**

4.2 - Clinical, Equipment and Laboratory Learning Resources

4.2.1 - Teaching Hospital/s, Equipments, Laboratory and clinical teaching-learning facilities including equipment as per the norms of the respective Regulatory Bodies

The teaching hospital was established in the year 2005 and situated in the same campus. The hospital is owned by the institute with both the college and hospital coming under single management.

Laboratories and clinical teaching learning facilities in teaching hospital:

Fully equipped NABL accredited labs with 24 hours services in Biochemistry, Microbiology and Pathology.Chemiluminesence, Dry chemistry analyser, RT-PCR and BacT/Alert 3D 60 for blood culture are in place.Government licensed and NABH accredited blood bank has Random Donor Platelets, Single Donor Platelet, Fresh Frozen Plasma, Cryoprecipitate apart from blood products. Blood Bank also provides specialized services like therapeutic Plasma Exchange, Plateletpheresis, etc.

The Pathology laboratory is well equipped with equipments including Fully Automated Hematology Analyzers, Automated Coagulation Analyzers, Automated ESR Analyzer, Automated Urine analyzer, and QBC for MP/MF. Apart from these, Rapid Tissue Processors, Automated Paraffin Embedding Stations, Automated Microtomes for tissue sectioning, Cryostats (Rapid Tissue sections) and Multi-headed (Decahead) microscopes.

In addition, the details of specialized equipments / facilities are available in various department are as follows.

Cardiology- 3D and 2D ECHO, cardiac stress analysis, Dobutamine Stress Echocardiogram, Tread Mill Test, Tilt table test, 24-hour Holter monitor, CT Coronary angiogram, 24 hours ambulatory BP monitoring, Invasive Diagnostic procedures including cath lab,

Intravascular imaging, Fractional flow reserve and Therapeutic procedures like PTCA/Valvuloplasty/Pacemaker implantations/Device closures/ Aneurysm clipping.

Urology- Lower tract Endourology (Cystoscopy, TURP, TURBT, OIU), Upper tract Endourology (PCNL, URS, RIRS), ESWL, Urodynamics, Ultrasound, Laser surgery, Microsurgery, Laparoscopic surgery, Renal transplantation, open surgeries

Neurology- Electro encephalogram, Evoked Potentials (BAEP, VEP, SSEP), Polysomnography, Multi Sleep Latency Test, Electro Neuro Myography, Autonomic Dysfunction Tests, Non-invasive vascular testing, Magnetic resonance spectroscopy, Functional magnetic resonance imaging, Cerebral angiography and Nerve conduction study.

Neurosurgery- Neuro-Radiology Services and Integrated Neuro-Physiology Laboratory

Gastroenterology- Advanced Endoscopy, Colonoscopy, Hydrogen Breath Analyser and Fibroscan

Skills Lab- Various injections, IM, IV like arm, gluteal region, Catheter insertion, Skin suturing, Normal delivery + Pelvic Trainers, CPR, Tracheal intubation, Breast Examination Trainer

Radiology- CT machines (128 slice), MRI machine (1.5 Tesla), Digital Subtraction Angiography lab, Mammography (3000 Nova) &Sono-mammography

Ophthalmology- Optical color tomography, Automated Perimetery, Phaco Emulsification (OT), Fundus Camera, Green Laser, IOL Master (Zeiss), A-Scan, Synoptophore, Applanation, Tonometer, Indirect Ophthalmoscope wireless, Pachymeter, Slit Lamp , Surgical Operating Microscope, Autorefractometerology

ENT-45 degree Rigid Endoscope, Pure tone Audiometer, Impedance Audiometer, OAE - Otoacoustic Emission Machine, BERA Machine (Brainstem evoked response Audiometer), Operating Microscope, 0 degree Rigid Endoscope, High Definition Camera, Rigid Pediatric Ventilating Bronchoscope, Microlaryngoscope

Physiotherapy- LASER, Combo therapy Unit inclusive of ultra sound and interferential current therapy, cycle ergometer, stepper, metabolic cart Fitmate, Med Oxygen analyser, Acapella, PEFR meter and Micro respiratory muscle strength meter.

Well equipped surgical suites are available for major, minor and complex surgeries. Average of about 2000 major and minor surgeries are being carried out every month. Medical, Surgical,Pediatric, Neonatal, Respiratory & Cardiac ICUs are well equipped with multi-para monitors, ventilators, defibrillators, central oxygen, suction, IABP and facility for dialysis inside ICU. Dialysis unit with total 16 machines functions round the clock.

Students are divided into groups of 10-15 per bed per instructor in the Bedside clinics. Students are posted in Block postingfor training in rural and urban health centers for family visits for Disease Surveillance and MCH training. CRRIs are posted to Karapakkam and Semmencheri urban centers for training to participate in active and passive surveillance program.

- Free / subsidised Services include general medical camps, speciality camps (for cardiac diseases, or tailor-made programs for a particular community), school health camps, health awareness camps, National Health Programmes.
- As a part of the Government's Integrated Child Development Scheme (ICDS), CHC conducts regular check-ups for adolescent girls in rural areas by checking their Haemoglobin and offering Counselling and Nutritional Supplements.
- A rural health centre at Poonjeri extends these services.

The teaching hospital has a central hospital pharmacy with qualified pharmacist in charge. Drug and poison information services are being provided by the Pharmacology department as part of the teaching curriculum.

Museums are maintained to store and exhibit their interesting cases, medical images, models and preserved specimens.

The labs namely Nursing Foundation, Maternal & Child Health Nursing, Community Health Nursing, Nutrition, AV aids lab are adequately equipped with mannequins, instruments and articles necessary for procedure demonstration.

Research Facilities

The following instruments are available:

1. Biosafety cabinet
2. Real time PCR with computer
3. Genetic Analyzer with computer
4. Animal Imaging system with computer

5. CO2 incubator
6. Inverted Microscope
7. PCR
8. Gradient PCR

The other constituent colleges of CARE have the following teaching learning facilities

Chettinad School of Pharmaceutical Sciences

Tray Dryer, Autoclave, Ball mill, Bionocular microscope, Brookfield Viscometer, Clarity test apparatus, Deionizer, Digital antibiotic zone reader, Digital colony counter, Digital conductivity meter, Digital photo fluorometer, Digital Potentiometer, Disintegration test apparatus, DitialPhotocolorimeter, Muffle furnace, Soxhlet apparatus, Tablet Dissolution test Apparatus, Tablet Fribility test apparatus, Ultrasonic bath sonicator, UV cabinet, High Performance Liquid Chromatography (HPLC)

Chettinad School of Physiotherapy

Exercise therapy, Gait training unit and Electrotherapy unit

Chettinad School of Law

Moot court

Chettinad School of Architecture

Air-conditioned studios, Computer Centre, Lecture Halls, Climatology lab, Surveying lab, Material museum, Model-making workshop, Construction Yard

File Description	Documents
The facilities as per the stipulations of the respective Regulatory Bodies with Geotagged photos	http://aqar.care.edu.in/files/4.2.1.A-Facilities-as-per-Regulatory-Bodies.pdf
List of facilities available for patient care, teaching- learning and research with geotagged evidences	http://aqar.care.edu.in/files/4.2.1.A-Facilities-as-per-Regulatory-Bodies.pdf
Any other relevant information	Nil

4.2.2 - Describe the adequacy of both outpatients and inpatients in the teaching hospital vis–a–vis the number of students trained and programmes offered (based on HIMS / EMR)

Chettinad Hospital and Research Institute had an intake of 150 MBBS seats till 2018-19. The intake was enhanced to 250 from 2019-20 onwards, besides MD, MS, DM and M.Ch. programs in various specialties.

CHRI provides required clinical material that fulfills the criteria recommended by the medical regulatory body for training the students of UG, PG and super speciality programs.

Outpatient data: The average number of daily out-patients was 2110 in the year 2020 and 3480 in 2021.

Inpatient data: The number of teaching beds in the hospital was 1180 excluding the ICU beds and private beds. The average daily bed occupancy rate was 81% in 2020 and 85% 2021. On an average, 136 patients were admitted daily in 2020 and 199 were admitted daily in 2021.

The major surgeries were performed in optimal numbers that are adequate to train the UG and PG students. The daily average of major surgeries was 35 in the year 2020 and 37 in 2021.

The average daily deliveries including the normal deliveries and caesarian sections were 9 in the year 2020 and 10 in 2021. Despite COVID-19, the number of deliveries conducted has significantly increased due to the excellent facilities provided by the Institution in 2019.

Similarly, the diagnostic and radiological data were also adequate to train the students.

In addition to all this, an Isolation ward is set up for COVID positive and suspected patients separately and a separate COVID ICU in which postgraduate students are given training in rotation to handle the patients during this unprecedented pandemic.

File Description	Documents
Outpatient and inpatient statistics for the year	http://aqar.care.edu.in/files/4.2.2.A-OP-IP-statistics-2020-21.pdf
Description of the adequacy of outpatient and inpatient statistics as per the norms of the Regulatory Bodies (critical documents to be verified by DVV)	http://aqar.care.edu.in/files/4.2.2.B-Description-of-adequacy-regulatory.pdf
Link to hospital records / Hospital Management Information System	https://vdi.care.edu.in/

4.2.3 - Availability of infrastructure for community-based learning. Institution has: Attached Satellite Primary Health Centers Attached Rural Health Centers for training of students Attached Urban Health Centre for training of students Residential facility for students / trainees at the above peripheral health

A. All of the Above

File Description	Documents
Geotagged photographs of Health Centers	View File
Government Order on allotment/assignment of PHC to the Institution	View File
Documents of resident facility	View File
Any other relevant information	No File Uploaded

4.2.4 - Is the Teaching Hospital / Clinical Laboratory accredited by any National Accrediting Agency? NABH accreditation NABL accreditation International accreditation like JCI., ISO certification of departments /Institution GLP/GCLP accreditation.

B. Any 4 of the Above

File Description	Documents
Copies of the Certificate/s of Accreditations	[View File](#)
Any other relevant documents	**No File Uploaded**
Data Template in prescribed format	[View File](#)

4.3 - Library as a Learning Resource

4.3.1 - Library is automated using Integrated Library Management System (ILMS)

In house Library management system developed by using Php 5.6.32 software and My SQL 5.0.11 database. Commencement of this software was in June 2017 and it was completed in December 2017. The automation system has a modular structure compressing of various functional modules as listed below:

Master Records: Acquisition/modification/delete of books, journals, non-books, project reports, theses etc can be done in this menu. Updation of specific details like invoice number/ date/department/subject/Publisher/Location of resources like books/journal/reports/ theses etc ., can be done.

Circulation service: Issue/Return/Renewal done in this option. Overdue charges automatically calculated and updated. We can search issued /return/renew book details through accession number /user id. Library due report, transfer book details, books kept for binding details and library clearance report can view in this option.

Reports: Any type of reports like author wise / / publisher wise / subject wise of all resources like books/non -books/theses/project reports/ etc. , We can take any type of report for various statutory bodies like Medical Council of India (MCI), Pharmacy Council of India (PCI), BCI, AICTE, CoA, UGC, etc.,

Miscellaneous Reports: Title wise /unique title of all books/ unique title department wise /library collection can be done in this option. Bibliographic details of books & Random report of books by accession number can be done in this menu.

Other Reports: In this menu we can take reports of counter services like issue/return/renewal details, Frequently issued books details, pending fine, dues list of faculty/students, fine and Xerox receipt.

Virtual library: From this link we can access all our electronic

databases like ProQuest, DELNET, Pharma Intelligence, SCC online etc.,

E- Question Bank: This facility available to update every semester/year examination question papers of medical, AHS, nursing, Physiotherapy, pharmacy, architecture and law. It will reflect in our OPAC (Online Public access Catalogue), so all the users can access e- question papers by using wifi or remote IP address provided to access.

Stock Verification: Using this menu we can verify stock of all resources like book, theses, project reports etc.,.

OPAC: (Online public access catalogue)

By using this facility online public access catalog users can search books or any resources available in the library. Searching options are author / title / publisher / department / subject / accession number etc., Important feature of our opac inside the campus any one can search library resources availability by using wifi and remote access (24*7) by using https::://182.73.176.164/libms/opac .

Dashboard: For quick view, dashboard will give updated information about total collections of books, authors, department, subjects, publisher, issued books, reserved books and transferred books details. Link to our electronic resources collections like DELNET, Proquest, SCC online and Pharma Intelligence in dash board

Biometric attendance: Every user while entering or exiting from the library registers their attendance in the library biometrically. It enables to find out the number of visitors and the associated time and is integrated into LMS software where log in report can be generated and tracked.

File Description	Documents
Geotagged photographs	http://aqar.care.edu.in/files/4.3.1.A-Geotagged-photos-library.pdf
Any other relevant information	Nil

4.3.2 - Number of books and reference volumes as well as collection of ancient books, manuscripts, Digitalized traditional manuscripts, Discipline-specific learning resources from ancient Indian languages, special reports or any other knowledge resource for library enrichment especially with reference to traditional systems of medicines

Printed Resources details

The library collection encompasses 38788 books of 17831 titles varying in subjects like Medical, Allied health sciences, nursing. Pharmacy, architecture and law. In addition it includes 8719 reference books of latest edition. About 130 national and 107 international print journals are subscribed. The Library has a good collection of back volumes of journals, dissertations and theses.

Electronic resources

Electronic Resources from various consortia such as ProQuest, DELNET, Pharma Intelligence, and Tamilnadu Nurses & mid wives council, can be accessed anywhere in the campus using WIFI. We have total collection of 8089 electronic journals, 2009 CDs/DVDs, AV resources and 1, 84,417 e-books.. Apart from these we have general collection of electronic books, journals and magazines from various institutional memberships such as British council library, American library, National Digital Library (NDL) and Shodhganga – a reservoir of Indian theses. Using its LAN and WIFI connectivity the library provides ready access to a large number of e-journals.

Institutional Repository

A large number of print volumes of CARE's Thesis / dissertation / Publications and reports are readily available at the library.

Ancient Books/Manuscripts

The library has a collection of 4081 books (Print/Electronic) ancient books/ manuscripts List of available Manuscripts/rare books listed as follows.

- Manuscripts
- Antique books
- Bishnoi Manuscripts
- VedVedant
- SantKabir Manuscripts
- Jain Manuscripts
- Ancient Documents
- Palm Leaf Tamil Manuscripts
- Tamrapatra/Bhojpatra
- Gurmuki.

The fiveTamilepics Jivaka-chintamani, Cilappatikaram, Manimekalai,

Kundalakesi and Valayapathi and collection of Tamil Sangam period ancient books like aganaanuru, puranaanuru etc are presently available in this section

Hundreds of rare siddha medicine manuscripts like Agathiyar Sowmiya Sagaram – 1200, Agathiyar Vaidhya Valladhi – 600, Bogar Karukkidai Nigandu – 500, Konganar Mudhal, Nadu, Kadai Kandam – 1000, Ramadevar – 1000, Siddhar Kaya Karpam, Theraiyar Kudineer etc are currently available.

Membership in Resource Sharing Network:

Apart from the above printed and electronic resources, the library has institutional membership of the following establishments/organizations/consortium.

- ○ **DELENT**
- ○ **British council Library**
- ○ **American Library**
- ○ **NPTEL**
- ○ **Tamilnadu Nursing & Midwives council**
- ○ **Shodhganga.**

File Description	Documents
Library acquisition data for the year	http://aqar.care.edu.in/files/4.3.2.A-Library-acquisition-data.pdf
Any other relevant information	**No File Uploaded**

4.3.3 - Does the Institution have an e-Library with membership/ subscription for the following e – journals / e-books consortia e - ShodhSindhu Shodhganga SWAYAM Discipline-specific Databases	**A. All of the Above**

File Description	Documents
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership etc. (Data Template)	View File
E-copy of subscription letter/membership letter or related document with the mention of year	View File
Any other relevant information	**No File Uploaded**

4.3.4 - Annual expenditure for purchase of books and journals (including e-resources) during the year

4.3.4.1 - Annual expenditure for purchase of books and journals during the year (INR in lakhs)

99.6

File Description	Documents
Provide consolidated extract of expenditure for purchase of books and journals during the year duly attested by Finance Officer	View File
Audited Statement highlighting the expenditure for purchase of books and journal library resources	View File
Proceedings of Library Committee meetings for the year for allocation of fund and utilization of fund	View File
Details of annual expenditure for purchase of books and journals for the year (Data Template)	View File
Any other relevant information	**No File Uploaded**

4.3.5 - E-content resources used by teachers/students Other MOOCs platforms SWAYAM Institutional LMS e-PG-Pathshala Any other Government Initiatives	**A. All of theAbove**

File Description	Documents
Give links or upload document of e-content developed	View File
Supporting documents from the hosting agency for the e-content developed by the teachers	View File
Give links e-content repository used by the teachers / Students	http://aqar.care.edu.in/files/4.3.5.A-Links-e-content-repository-used-by-the-teacher-students.pdf
Data Template	View File

4.4 - IT Infrastructure

4.4.1 - Number of classrooms, seminar halls and demonstration rooms linked with internet /Wi-Fi enabled ICT facilities (data for the preceding academic year)

4.4.1.1 - Number of classrooms, seminar halls and demonstration room with ICT facilities

129

File Description	Documents
Number of classrooms, seminar halls and demonstration room with ICT enabled facilities (Data Template)	View File
Description of new facilities added during the preceding academic year	View File
Consolidated list duly certified by the Head of the institution	View File
Geotagged photographs	View File
Any other relevant information	**No File Uploaded**

4.4.2 - Institution frequently updates its computer availability for students and IT facilities including Wi-Fi

IT infrastructural development is a given top priority as the University realizes the correlation between adequate infrastructure and effective ways in teaching – learning. CARE have major requirements of user access control, control over bandwidth utilization and differentiated policy control for management of faculty's and student's access. The entire Institute is Wi?Fi

enabled with necessary firewalls and computer labs are connected through LAN with internet facilities. We had upgraded the Wi?Fi solutions for our students with the Latest Wi?Fi devices and Facial Biometric Devices for the PG and CRRI's attendance purpose, also our future focus to upgrade the same for all the Students and Staff's. In 2021 overall 173 Access Points and 2 Facial Biometric has been procured and replaced the old one. The Ruckus R320 UNLEASHED, DUAL BAND 802.11AC Wave 2 Indoor AP's, for students uninterrupted broadband experience and Facial Biometric. The camera detects and locates the image of a face, in front of device and student or faculty alone the image may show the person looking straight ahead or in profile and it recognize the face and provide the authentication for users.

File Description	Documents
Documents relating to updation of IT and Wi-Fi facilities	http://aqar.care.edu.in/files/4.4.2.A-Documents-related-to-IT-updation.pdf
Any other relevant information	Nil

4.4.3 - Available bandwidth of internet connection in the Institution (Leased line) — A. ?1 GBPS

File Description	Documents
Details of available bandwidth of internet connection in the Institution	View File
Bills for any one month of the last completed academic year indicating internet connection plan, speed and bandwidth	View File
Annual subscription bill / receipt	View File
Any other relevant information	No File Uploaded

4.4.4 - Facilities for e-content development such as Media centre, audio visual centre, Lecture Capturing System (LCS), etc.

CARE has integrated learning and ICT through Learning Management System (LMS). LMS is fully incubated, developed and maintained in-house. Well structured policy statements are in place for e-content development by teachers which also facilitatesthe use ofOpen Educational Resources(OER). Learning sources are thus made centralized so that it is available and accessible to the students

from anywhere and at any point of time. Students'attendance andprogress learning are thus recorded and are made accessibleto both the students and the faculty.

Creation of AV studio for preparation of e-content:

A well equipped modern AV studio with all the required equipment has been set up in the campus. Regular training sessions are conducted to the faculty of pre and para clinical departments to make high quality web complaint audio and video recordings using professional software in the studio. They are also facilitated to perform postrecording editing and processing as well.

Hiring of graphics and animation support staff: Three permanent staff who are experienced in various software in digital media for image development and animations and video processing are employed.

Training faculty in LMS site administration and course administration:

At Chettinad Academy of Research and Education, a well structuredhands-on trainingon 'Site Administration' is provided to two faculty members form pre and para-clinical departments through a four week module (20 hours) which is followed by a two week module (20 hours) hands on training on course administration. This hands on module coversregistration of students, enrolling students into various courses conducted by LMS (IT) departments, scheduling assignments to students, setting up quizzes and multiple choice questions, uploading lessons, calendar of events amongst others. Faculty members are also trained on role management in LMS on how to assign roles like teacher, students, course creator and manager.

Media centre:

It is established and in under operation with an exclusive communication team who work along with IT department in the AV Studio in designing and creating content, intra campus communications, social media campaigns and other online interaction activities

Use and Procedure for developing e-content

The policy for developing e-contents permits a faculty member to use the resources for developing contents at free of cost if it is intended to be utilized only by their fellow faculty members and students. Originality of the e-content is established through an

approval process by the heads of the respective departments.E-content developers ensure the content is presented in the structural design listed by the principles of Analysis, Design, Development, Implementation and Evaluation and also complies with LMS Model - Content Object Reference which is an industry standard that guarantees operability of e-content.We do and will continue to do novel work in the development of e-content material in the form of digital literacy in educational settings principally to inspect the implications of innovative methods of socialnetworking, knowledge sharing and building.

File Description	Documents
The e-content development facilities	http://aqar.care.edu.in/files/4.4.4.A-E-content-development-facilities.pdf
Geotagged photographs	http://aqar.care.edu.in/files/4.4.4.B-Geotagged-photographs.pdf
Any other relevant information	Nil

4.5 - Maintenance of Campus Infrastructure

4.5.1 - Number of expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

4067

File Description	Documents
Audited statements of accounts on maintenance	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Template)	View File
Link to ERP	https://vdi.care.edu.in/
Any other relevant information	View File

4.5.2 - There are established systems and processes for maintaining physical and academic support facilities: (laboratory, library, sports facilities, computers, classrooms, etc.)

The university campus exhibits an excellent academic ambience with buildings constructed employing technologies that are energy

efficient, water conserving, renewable energy houses and sustainable building materials.

Our university has established a robust system for maintenance of physical and academic support facilities. A range of committees, offices and persons are entrusted with the responsibility of a periodic and regular review of the status of the facilities and of planning and executing maintenance related activities promptly.

The Maintenance Committees in Chettinad Academy of Research & Education oversees the maintenance and utilization of physical, academic and support facilities viz. laboratory, library, sports complex, computers, classrooms and other facilities. The Committees are responsible for planning, purchasing and controlling the use of physical resources on the advice of higher authorities.

Maintenance of infrastructure:

There is a dedicated Infrastructure & Maintenance Department consisting of a team of professionally qualified Engineers and experienced technical staff for biomedical, electrical, civil, mechanical (chillers plants & STP), painting, carpentry and plumbing works.

The infrastructure is well maintained by strictly adopting the prescribed Standard Operating Procedures for maintenance of physical facilities. Regular scheduling of maintenance work with log books enables optimum usage of the facilities by students, faculty and staff both academic and administrative.

Cleanliness of campus:

Adequate in-house employees are available to maintain hygiene, cleanliness of the campus to provide a congenial learning ambience. Classrooms, Faculty rooms, Seminar Halls, Hospital and Laboratories etc. are cleaned and maintained regularly by house-keeping staff assigned for each zone. Wash rooms and rest rooms are well maintained. Dustbins are placed at strategic locations. Great care is taken for maintaining the Green Cover of the campus.

Equipments:

Optimum working condition of all equipments in the campus is ensured through AMCs.

Equipments under warranty are maintained by the vendors.

- ○ For maintenance of high-end equipments such as CT Scan, MRI, Oxygen Generator (PSA plant) etc. AMC is signed with the authorized agencies/manufacturer only.
- ○ Maintenance labels are placed on equipments, such as date of service & due date of next service.
- ○ Every department maintains a stock register and log book for the available equipments.
- ○ All costly equipments, Chillers Plants, Air to heat pumps(Centralized hot water systems) Generators, water purifiers, air conditioners, elevators, energy systems etc. are maintained through AMCs with the supplying / installing agencies
- ○ Separate maintenance contracts are in place for the Pest Control, Garden Maintenance, and Security Services.

Laboratories:

All medical equipments are taken care by Bio Medical department and also through AMCs. Periodic reports about repairs and maintenance are sent to the maintenance department by the respective HODs.

IT and Computers:

The IT Department of the university attends to technical issues related to computers and IT services. Steps are taken for periodic up gradation of IT infrastructure including LMS, Wi-Fi etc.

Safety: Safety of the campus is ensured through surveillance cameras. Entry into the campus is regulated through turn style mechanism and uniformed security guards are posted at vantage points to provide security to students and employees.

The maintenance activities are properly budgeted and adequate financial resources are allocated based on priority. The budget allocated is optimally utilized towards maintenance and continuous up gradation of facilities

File Description	Documents
Minutes of the meetings of the Maintenance Committee for the year	http://aqar.care.edu.in/files/4.5.2.A-MoM-maintenance-committee.pdf
Log book or other records regarding maintenance works	http://aqar.care.edu.in/files/4.5.2.B-Maintenance-committee-log-books.pdf
Any other relevant information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships /free-ships / fee-waivers by Government / Non-Governmental agencies / Institution during the year

5.1.1.1 - Number of students benefited by scholarships /freeships / fee-waivers by Government / Non-Governmental agencies / institutions during the year

1975

File Description	Documents
Attested copies of the sanction letters from the sanctioning authorities	View File
Consolidated document in favour of freeships and number of beneficiaries duly signed by the Head of the institution	View File
List of students for the year who received scholarships/ freeships /fee-waivers	View File
Any other relevant information	No File Uploaded

5.1.2 - Institution implements a variety of capability enhancement a n d o t h e r s k i l l s development schemes Soft skills development Language and communication skill development Yoga and wellness Analytical skill development Human value development Personality and professional development Employability skill development	A. All of the Above

File Description	Documents
Detailed report of the Capacity-enhancement programs and other skills development schemes	<u>View File</u>
List of capability enhancement and skill development schemes (Data Template)	<u>View File</u>
Link to Institutional website	<u>https://care.edu.in/capability-enhancement-schemes/</u>
Any other relevant information	**No File Uploaded**

5.1.3 - Number of students benefited by guidance for competitive examinations and career advancement offered by the Institution during the preceding academic year

5.1.3.1 - Number of students benefited by guidance for competitive examinations and career advancement offered by the Institution during the preceding academic year

1656

File Description	Documents
Copy of circular/brochure of such programs	<u>View File</u>
List of students attending each of these schemes signed by competent authority	<u>View File</u>
Program/scheme mentioned in the metric	<u>View File</u>
List of students (Certified by the Head of the Institution) benefited by guidance for competitive examinations and career advancement offered by the Institution during the preceding academic year (Data Template)	<u>View File</u>
Any other relevant information	**No File Uploaded**

5.1.4 - The Institution has an active international student cell

In the last few years CARE felt the need for internationalization of education as part of its Mission. In our university, programs and courses are embedded with a curriculum incorporating global perspectives. Thus there is a vital need for the university to cater

to the requirements of global students who aspire to get educated in India in general and our institution in particular. A highly motivated team was constituted to work out the logistics of international admissions. To introduce transnational diversity and to embark upon making CARE a global university, an alternate merit based mode was introduced for admitting international students to programs on Law, Architecture etc. Thus our university enables higher education possible for students from SAARC, Asian, African and other countries to all undergraduate and postgraduate programs offered by the University

An exclusive office in the name International Students Cell (ISC) has been established at CARE to deal with the admissions and guidance of international students and also to take advantage of opportunities and challenges in line with these trends.

The university makes arrangements for conducting entrance tests and personal interviews to all who apply to the choice of program of study. Once admitted, the university provides necessary documents required for VISA application.

Role of International Student Cell:

The role of the International Student Cell (ISC) is to lead the development of internationalization in our university by acting as the central coordinator and facilitator of all internationally related initiatives and activities.

ISC is integrated into the organizational structure to develop and implement its policy on internationalization by:

a) Ensuring internationalization activities which contribute to many strategies of university objectives.

b) Providing special services for international students and applicants.

c) Seeking, supporting and facilitating opportunities for college staff and students to experience academic life at international partner universities through exchange programs.

Our campus offers a number of opportunities to the students to get involved in various curricular and extra-curricular activities along with the regular studies.

The ISC performs following functions:

a) Organizes Reception and Orientation Programs for international students

b) Helps in the process of registration with Foreigner Regional Registration Office (FRRO), visa extensions and other related issues

c) Guides with appropriate information and assists in ensuring safety, security, discipline and well being of the international students.

d) Ensures speedy addressing of problems/complaints/grievances to this end; a faculty coordinator is assigned for each international student.

e) Organizes & celebrates cultural activities such as international festivals (including International Youth Day), conducts cross cultural programs, and liaisons with respective embassies to ensure that International students participate in important embassy functions.

f) Organizes special classes for local language/communications understanding and skills.

g) Performance and progress of international students is followed up with their faculty mentors and course faculty.

h) Assists in arranging Paying Guest accommodation, if hostel accommodation is not available or not opted.

Fulltime Undergraduate and Postgraduate degrees, Research Programs leading to Ph.D. are offered for advancement of international students at our college.

File Description	Documents
International students' cell	https://care.edu.in/committee-council/various-committees/
Any other relevant information	Nil

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances / prevention of sexual harassment and prevention of ragging Adoption of guidelines of Regulatory Bodies Presence of	A. All of the Above

the committee and mechanism of receiving student grievances (online/ offline) Periodic meetings of the committee with minutes Record of action taken

File Description	Documents
The Institution has a transparent m	View File
Circular/web-link/ committee report justifying the objectives of the metric	https://care.edu.in/committee-council/various-committees/
Details of student grievances and action taken (Data Template)	View File
Any other relevant information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/ GPAT/CAT/ GRE/TOEFL/ PLAB/ USMLE /Civil services/ Defense/UPSC/State government examinations/ PG-NEET/ AIMSPGET, JIPMER Entrance Test, PGIMER Entrance Test etc.,) during the preceding academic year

45

File Description	Documents
Number of students qualifying in state/ nation	View File
Pass Certificates in the examination	View File
Any other relevant information	No File Uploaded

5.2.2 - Number of placement /self-employed professional services of outgoing students during the preceding academic year

5.2.2.1 - Number of outgoing students who got placed / self-employed during the preceding academic year

229

File Description	Documents
Self-attested list of students placed / self-employed	View File
Details of student placement / self-employment during the preceding academic year (Data Template)	View File
Any other relevant information	**No File Uploaded**

5.2.3 - Number of the graduates in the preceding academic year, who have had progression to higher education

5.2.3.1 - Number of outgoing students progressing to higher education

161

File Description	Documents
List of students who have progressed to Higher education preceding academic year	View File
Supporting data for students/alumni	View File
Details of student progression to higher education (Data Template)	View File
Any other relevant information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/ cultural activities at state/regional/national/international events (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at state/regional /national/international events (award for a team event should be counted as one) during the year

111

File Description	Documents
e-copies of award letters and certificates	View File
List of awards/medals for outstanding performance in sports/cultural activities at national/international events during the year (Data Template)	View File
Any other relevant information	No File Uploaded

5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

Students constitute major stakeholders in the institutional growth. Utilization of the support and ideas of the students is of paramount importance for the prosperity and well-being of the institute. CARE always strives to build a relation of mutual respect and inculcate a sense of pride amongst the students for their own institution.

Our university is proud of its Students' Council, which is constituted with the students of all programs of the university. The Council comprises of a team of seven office bearers of the Executive Committee and ten members representing various constituent colleges of CARE. The Vice Chancellor of the university is the Patron of the Council and the Advisers guide the Council in all its activities.

The members of the Council participate in brain storming sessions and formal meetings are convened for formulating strategies for the overall curricular, co-curricular and extra-curricular development of the students. The Council nurtures academic, administrative, humanitarian, extra-curricular and professional domains of the students of CARE. The Council encourages students to participate in various academic events like quiz, debate, poster designing and essay writing competitions conducted in CARE and other colleges.

The Council (represented by 5-6 students) receive the feedback on teaching-learning processes like teaching, course content, study material, practical sessions from the departments and forward the same necessary analysis and follow up action, thereby playing a pivotal role for quality improvement. Student Council also discusses about the improvements to be made in the library facilities and recommends books, journals to be procured. The Council takes step on the feedback on Hostels and Amenities, Anti-Ragging initiatives, Alumni Association, Grievances Redressal, NSS etc.

The Council takes the responsibility of promoting and encouraging

the involvement of students in organizing various sports, social initiatives and community outreach programmes and recreational activities of the college in coordination with faculty advisors for Annual Sports, Cultural Fest, Freshers' Welcome, Farewell, etc.

The Student Council of CARE publishes a monthly e-Newsletter that showcases the talents of students in the form of poetry, paintings, riddles, articles and the editorial skills of the students as well. The annual intercollegiate cultural event CHETFUSION/CHETFEST conducted every year is a platform for the students of CARE and other institutions in Tamil Nadu to showcase their talents. The Council also provides a rendezvous for students to exhibit their talents in sports and games by organizing an intercollegiate Sports Meet every year.

The members of the Council play an active role in community engagement through health camps, Swatch Bharath, tree sapling planting activities and disaster recovery measures. The Council also conducts health and social wellbeing awareness programs in the rural areas of the district.

The Council extends its services to all students and Alumni for placements and pursuing higher education in premier institutes. The Council maintains a formidable relationship between students and faculty, administrative officials and the management.

File Description	Documents
Student Council activities during the year	https://care.edu.in/students-council/
Any other relevant information	Nil

5.3.3 - Number of sports and cultural activities / events/ competitions organised in the Institution during the year

5.3.3.1 - Number of sports and cultural activities / competitions organised by the Institution during the year

51

File Description	Documents
Report of the events/along with photographs appropriately dated and captioned	View File
Copy of circular/brochure indicating such kind of activities Information as per Data template	View File
Any other relevant information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapter (registered and functional) has contributed significantly to the development of the Institution through financial and other support services during the year

With the objective to nurture a bond with the Alma Mater, to enhance employment opportunities and to create a networking platform to share and influence the success stories of our alumni, our university has established the Chettinad Academy of Research and Education Alumni Association and the same is registered under Tamil Nadu Societies Registration Act, 1975. The association holds meetings to chalk out the plans and activities to further enhance the reputation of the university.

The Alumni Association fosters the spirit of loyalty towards the university and promotes its welfare activities, thereby benefiting the students of the university. The Alumni Association organizes interactive sessions to motivate current students about the employability and educational opportunities abroad. Our alumni share their views in social networks, blogs and forums. Also they provide feedback on competencies they gained during their study and provide valuable information to improve curriculum on a continual basis.

The principal objectives of the Alumni Association are:

- To provide a platform for establishment of a relationship and a link among former students and current students of the university to share their experiences, feelings and interests.
- To bestow an opportunity for social and professional networking among alumni members.
- To function as ambassadors of the university and facilitate its students in their career development activities.
- To utilize the rich experience of ex-students of the university for the benefit and progress of the current students, to promote campus placements by utilizing their contacts in various industries.

The association is responsible for keeping complete track of alumni and to keep them informed about the current happenings of the institution. The association makes substantial contribution to the university both in financial and non-financial modes. The financial contributions are utilized for the development of infrastructure, purchasing advanced equipments and supporting and encouraging the academic performance of the current students through prizes, scholarships etc. The Association has so far contributed Rs. 8,10,000/- towards financial support.

The non-financial support includes,

- 'Alumni on Campus' - an interactive program for the benefit of current students during which alumni share and interact about worldwide opportunities, provide them career guidance, guide them for both the competitive and university exams, share their professional experiences for in-depth understanding of issues and challenges

- Reaching the unreached through medical camps in various rural areas and providing them the basic medical care.
- Conducting school camps and imparting the knowledge on various aspects of health among the budding minds.
- Donation of books to the university library.

The alumni visit the university periodically to guide the current students in organizing and executing various academic programs, cultural events and sports meets. Another important contribution of our Alumni Association comes through various personality development programs to enhance the overall skill set of the students.

File Description	Documents
Details of Alumni Association activities for the year	View File
Frequency of meetings of Alumni Association with minutes	View File
Quantum of financial contribution for the year	View File
Audited statement of accounts of the Alumni Association for the year	View File

5.4.2 - Provide the areas of contribution by the Alumni Association / chapters during the year

A. All of the Above

Financial / kind Donation of books /Journals/ volumes Students placement Student exchanges Institutional endowments

File Description	Documents
Annual audited statements of accounts. Extract of Audited statements of highlighting Alumni Association contribution duly certified by the Finance Officer and Head of the Institutions	<u>View File</u>
List of Alumni contributions made during the year	<u>View File</u>
Certified statement of the contributions by the head of the Institution	<u>View File</u>
Any other relevant information	**No File Uploaded**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The Institution has clearly stated Vision and Mission which are reflected in its academic and administrative governance

Chettinad Academy of Research and Education, a citadel of medical education, is driven by its Vision and Mission.

Vision

To offer transformative education and enable individuals to become responsible, empathetic global citizens who contribute towards a sustainable future.

Mission

Create a nurturing and supportive environment to ensure students a fulfilling, demanding and intellectually stimulating experience.

To establish a team of well-qualified faculty that will enable the institution to grow holistically.

Enable students to imbibe values, cultivate a desire for lifelong learning and maximize their potential through establishing a network of activities.

Prepare students for employment in the global arena.

Provide the best state of the art infrastructure.

Offer quality health services to all strata of society.

To facilitate innovative & interdisciplinary research and share knowledge and understanding with the society.

To provide an ecosystem for innovation, invention and entrepreneurship

To transform the fruits of research into the knowledge economy.

To contribute to the social, economical and national developments.

A transparent and inclusive management of the university facilitates the realization of the goals and vision. Transparency is rooted in the institutional culture of CARE and is reflected at all levels of decision-making and the day-to-day administration of the university.

CARE offers excellent state-of-the-art infrastructure to enhance the teaching-learning experience and to promote creativity and innovation. Most of the programmes offered are interdisciplinary and focus on emerging areas that are embedded in the academic curriculum.

The vital administrative and academic bodies of our university through which admirable governance is achieved resulting in institutional excellence, are as follows:

1. Board of Management is responsible for shaping the university to achieve global reputation on the lines of its Vision and Mission.
2. Academic Council ensures transformative education and enable students to become responsible, empathetic global citizens who contribute towards a sustainable future.
3. Planning and Monitoring Board is responsible for the monitoring the developmental programs of the university such as the creation of infrastructure and ecosystem as envisaged in the vision statement of the university.
4. Finance Committee approves the annual accounts and financial estimates, annual budget, revised estimates of the university on various developmental initiatives.
5. Board of Studies frames the curriculum of various programs and decides on program outcomes and the evaluation criteria. The

academic core competencies, skill development and value addition are embedded in the curriculum of the various programs offered by the university. The program outcomes are matched with the vision and mission statements.

In all this high level committee and administrative bodies, the experienced internal faculty, eminent subject experts from external premier institutions are included as per statutory requirements so as to march towards excellence in education and research.

The faculty members armed with interdisciplinary knowledge and expertise infuse the required competency in the students. Add On and Value Added courses equip the students to face the challenges of the real world.

The University practices decentralized and participative management approach in all its activities, initiatives and decision-making by the committed involvement of the all teaching and non-teaching members at all levels. The dynamic role of various committees has brought excellence in the areas of sports, cultural, extension activities.

MOUs with industrial establishments and academic institutions enhance the employability of our students.

File Description	Documents
Vision and Mission documents approved by the Statutory Bodies	http://aqar.care.edu.in/files/6.1.1.A-Vision-mission-app-by-statutory.pdf
Report of achievements which led to Institutional excellence	http://aqar.care.edu.in/files/6.1.1.B-Reports-of-achievements-2020-21.pdf
Any other relevant information	No File Uploaded

6.1.2 - Effective leadership is reflected in various Institutional practices such as decentralization and participative management etc.

1. Mission NIRF - Top 100

National Institutional Ranking Framework was launched for the first time in 2016 and the ranking exercise continues ever since. Chettinad Academy of Research and Education (CARE) participated in the National Rankings 2016 and was placed in the 100th position in the Universities. In the subsequent years CARE did not procure a rank within the top 100. As the ranking is calculated based on the

marks secured under five major criteria such as Teaching learning and financial resources, Research and professional practice, Graduate outcome, Outreach and inclusivity, Perception, the top management of CARE reflected upon the measures to be implemented to improve the ranking and the overall quality of the institution. Thus, was born the MISSION NIRF TOP 100 initiative. Effective decentralization was implemented and responsible leaders were allotted to bring about improvements in each of the categories being considered for grading especially Research. All the faculty were encouraged to publish research articles in quality journals and thus the number of quality publications steadily improved over the years. CARE slowly inched its way back into the top 100 institutions and secured 98th rank in NIRF 2020, which was a collective effort of the management and the faculty of this prestigious institute.

2. Excellence in COVID-19 care:

CHRI started COVID-19 care to provide specialized care all COVD-19 positive patients at affordable cost. CHRI being a COVID-19 treating hospital had created an exclusive facility which includes 24*7 corona awareness center where trained medical and paramedical people were made available to respond to the queries raised by the general public related COVID-19 infections.

A dedicated corona fever clinic, corona ward, special ICU, and diagnostic lab including CT & MRI was allocated to treat the COVID-19 patients.

During the time of peak of the second wave (April – July 2020), oxygen outlets were created for more than 600 beds in addition to the existing 500 oxygen beds. Oxygen storage capacity was doubled and advanced interventional equipments like ventilators, HFNC, monitors, nebulizers were additionally procured to assist the patient care. We could treat more than 5000 patients during the second wave who were in need of oxygen support and advanced interventions.

Besides, the following services were initiated to provide health care to patients at their home during the pandemic:

- CHET COVID-19 Sample collection @ Home
- CHET COVID-19 CARE @ Home
- CHETTINAD EXPRESS HEALTH CARE

a. CHET COVID-19 Sample collection @ Home: Aim at collecting samples for COVID-19 infection by CHRI trained phlebotomists at door steps.

This service is of great benefit in COVID-19 pandemic. 5000 patients got benefitted.

b. CHET COVID-19 CARE @ Home: CHRI initiative for providing COVID testing and care to all COVD-19 positive patients with mild symptoms and COVID-19 negative high risk individuals requiring home quarantine. The number of beneficiaries were 1115.

c. CHETTINAD EXPRESS HEALTH CARE: Express Health Care service operated 24x7 by medical experts over phone calls. Consultation, follow up services, queries on medication, investigations and medical emergencies etc, are provided to patients. Over 2500 patients got benefitted with this initiative.

File Description	Documents
Information / documents in support of the case study	http://aqar.care.edu.in/files/6.1.2.A-Documents-supporting-case-study.pdf
Any other relevant information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The strategic plans focus upon matters like infrastructural development, introduction of new programs, enhancement of quality in teaching-learning process, promotion of research, healthy practices, etc. Accordingly, the strategic plan was prepared by the IQAC by including the recommendations of the NAAC Peer Team and University's Vision, Mission, objectives and the same was approved by our BOM.

The methodology for implementing each of the items in the plan is detailed by the IQAC in consultation with all stakeholders. Budget approvals are obtained if it involves significant expenditure. The departments or faculty responsible for implementing the strategic plan are given complete freedom and all necessary academic, financial and administrative support in the execution. Timelines are fixed for various milestones and adherence to timelines and achievement of milestones are reviewed at previously fixed time intervals.

The Strategic Plan of the university focuses on 'Value Based Education' with the aim of achieving excellence in education through a multi dimensional approach as detailed below.

Strengthening and Expanding Education:

Action Plan consists of:

- Introducing interdisciplinary, innovative, relevant and contemporary academic programs in the areas of Law, Architecture, Pharmaceuticals and Physiotherapy
- Enhancing ICT capabilities to help delivery of the core academic activities through LMS
- Enhancing Student Support to promote co-curricular and extracurricular opportunities.

Advancing Research and Innovation initiatives:

Translating research for scientific, social, economic, and technological development, the steps are:

- Engage with renowned research institutes and universities to establish Centers of Excellence for research activities.
- Leverage University's research strengths and capabilities in scientific writing and publications and recognize individuals and departments who exemplify themselves.
- Allocate resources and incentivize research

Promoting Community Engagement:

The efforts for community engagement and outreach programs include:

- Support the functioning of the state-of-the-art super specialty hospital and continue to provide quality healthcare at affordable costs to the needy.
- Nurture sustainable rural health programs by adopting Primary health centers and developing innovative approaches for rural health implementation with the participation of faculty and students.

Build and Enhance Finance and Infrastructure:

The activities for this include:

- Utilize the resources to upgrade the infrastructure.
- Strengthen the corpus fund of the university and third party funding to be self-sustaining.

Promote and optimize Industry institute collaborations

To promote professionalism and collaboration with industry through the following steps

- **Collaborate with industry in their pursuit of research and development using MOUs.**
- **Provide training to students to prepare them to meet employer expectations through tie-ups.**

Good Governance and Leadership embedded with Intellectual Honesty.

To adopt good governance and demonstrate leadership at all levels, the steps are:

- **Achieve more transparency in the execution of policies and procedures ensuring participatory decision-making.**
- **Make every stakeholder accountable through effective delegation of authorities.**

File Description	Documents
Strategic Plan document	View File
Minutes of the Governing Council/ other relevant bodies for deployment / monitoring of the deliverables during the year	View File
Any other relevant information	**No File Uploaded**

6.2.2 - Effectiveness and efficiency of functioning of the Institutional bodies as evidenced by policies, administrative setup, appointment and service rules, procedures etc.

Chettinad Academy of Research and Education (CARE) notified as a Deemed to be University has its own effective and efficient functioning bodies and authorities.

Board of Management: The University has a well-defined Board of Management, the highest Governing body with experienced and eminent personalities to support the decision-making process. It is the final decision-making body of the institution in various issues relating to administration, academic, financial and developmental matters.

Academic Council: All the issues with respect to any course will be first discussed in the concerned Board of studies (BOS) and its recommendations are broadly deliberated in the Academic Council. For this purpose, the university has constituted various BOS in the Faculty of Medicine, Faculty of Allied Health Sciences and Faculty

of Nursing with external experts as members. Teaching programmes are guided by the respective statutory councils and teaching methodology is reviewed by the BOS and Academic council and is updated to keep abreast with the latest advancements.

Planning and Monitoring Board: The Institute's Planning and Monitoring Board acts as an advisory body to Academic council and Board of Management. They meet annually and work towards fulfilling the objectives of the University.

Finance Committee: It prepares the accounts and financial estimates and secure limits on the total non- recurring and recurring costs of each year depending on the resources and income of the institution.

Authorities of the Institution:The designated officers of the Institution viz. Registrar, Finance Officer, Dean, Controller of Examination, Vice-Principal, etc. monitor the functions of the institution in their respective areas adhering to the statutory guidelines wherever prescribed.

Anti- ragging: Ragging in any form is a punishable crime according to the University Grants Commission and the Hon'ble Supreme Court of India. The university follows a Zero Tolerance Policy towards Ragging & it is ensured by the Anti Ragging cell.

Various Committees:Besides the major administrative bodies, the university also does have various committees (listed below) in place to ensure an environment under which all the staff and students can work effectively. The Roles and responsibilities of various committees and memberships are specified in the additional information.

- Students Grievance Redressal Cell
- Library Committee
- Grievance Redressal for Teaching Staff
- Outreach Committee
- Grievance Redressal for Non-teaching Staff
- Disaster Management Committee
- Students Counseling Centre
- International Students Cell
- Compliance Cell for preventing Sexual harassment of Women
- Equal Opportunities Cell
- Career Counseling & Placement Cell
- Code of conduct Committee

Faculty development: The University has a thought through system for

faculty and staff's professional development. Staff's hierarchy and recruitment, service rules and promotional policies, as well as grievance redressal mechanism are defined as per the UGC's rules and approved staffing pattern.

Thus, Chettinad Academy of Research and Education under the leadership of eminent personalities and with the support of various bodies works hard to provide the best quality higher education in the country.

File Description	Documents
Annual Report of the preceding academic year	http://aqar.care.edu.in/files/6.2.2.A-Report-of-preceding-academic-year.pdf
Minutes of meetings of various Bodies and Committees for the preceding academic year	http://aqar.care.edu.in/files/6.2.2.B-MOMs.pdf
Any other relevant information	**Nil**

6.2.3 - The University has implemented e-governance in the following areas of operation Planning and Development Administration (including Hospital Administration & Medical Records) Finance and Accounts Student Admission and Support Examination	**A. All of the Above**

File Description	Documents
Institutional budget statements allocated for the heads of E-governance implementation ERP Document for the year	View File
e-Governance related document	View File
Screen shots of user interfaces	View File
Any other relevant information	**No File Uploaded**

6.3 - Faculty and Staff Empowerment Strategies

6.3.1 - The Institution has effective welfare measures for teaching and non-teaching staff and other beneficiaries.

The university displays its abundant benevolence to its employees through a variety of welfare schemes.

Provident Fund:

All the non-teaching staff are provided the EPF facilities as per norms of our university.

All employeesare eligiblefor gratuity as per norms.

Employee State Insurance (ESI):

All the employees drawing salary uptoRs. 21000/- per month are included in the ESI Scheme.

Accident Insurance Scheme (GPA):

Non-Teaching staff are covered by a group personal accident cum hospitalization policyand the premiumis paid by the management.

Maternity Leave Benefits(ML):

Maternity leave of six months with pay is extended to all female employees as per rules.

Statutory Leave:

Employees are eligible forEarn Leave (with encashment facility), Casual Leave, Study Leave as per norms.

Medical Welfare Schemes:

Employees and their families can avail the medical facilities at our hospitals with concessions in charges.

Other Welfare Measures

- **Staff Accommodation:** Our university provides Villas, Apartments and Hostel accommodation within the campus to the employees.
- **Transport Facility:** Buses are run for pick up/drop of employees from selected spots in the city. Free Two wheeler / Covered car parking is provided to employees.
- **Campus Movement:** Cycles are provided at prominent locations for commuting across the campus.
- **Security:** The campus has turnstile access across specific locations and is fully secured with uniformed guards. The campus is monitored by CCTV which enhances the security provided.

- **Care of New Born:**Facility is available within the campus for nursing mothers for feeding infants at specific intervals.
- **Yoga Centre:** A well-equipped Yoga Centre is available for all employees.
- **Bank & ATM:**A bank and two ATMs are functioning in the campus catering to the banking needs of employees.
- **Stores:** A multi-purpose store is available to meet out the need for provisions and stationeries.
- **Food Court:** A multi cuisine food court is available within the campus for all employees.
- **Sports:** A well-equipped indoor stadium, gymnasium and play-ground for outdoor sports are available for both teaching and non-teaching staff.
- **Incentives:** Based onperformance appraisal, employees are granted incentives.
- **Bank Loans:** Personal loansare arranged to staff through banks at subsidized rate of interest.
- **Uniform to doctors:** University provides uniform to doctors free of cost.
- **Refreshments to employees;** All the employees are served with coffee/tea with biscuits both forenoon and afternoon sessions.
- **Sodexo Food Card:** The administration of the university provides Sodexo Food Cards to all employees to make shopping easier.
- **Weekly Screening of Movies:** To rejuvenate students and staff to relieve them from their stress, movies are screened once in a week.

For Academic Activities:

Our university provides

- Financial support along with Academic (paid) leave for presenting papers at seminars and conferences etc., and publication of research papers in journals and membership fee
- Financial support for organizing workshops, seminars & conferences by all departments.
- Permission is accorded to use the equipment/instrument/library facilities to obtain higher qualification / carry research work.

File Description	Documents
Policy document on welfare measures	http://aqar.care.edu.in/files/6.3.1.A-policy-document-for-welfare-measures.pdf
List of beneficiaries of welfare measures	http://aqar.care.edu.in/files/6.3.1.B-List-of-Beneficiaries-of-Welfare-Measures-2020-21.pdf
Any other relevant information	**Nil**

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

335

File Description	Documents
Details of teachers provided with financial support to attend conferences, workshops etc. during the year (Data Template)	View File
List of teachers provided membership fee for professional bodies during the year	View File
Policy document on providing financial support to teachers	View File
E-copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support under each head	View File
Audited statement of account highlighting the financial support to teachers to attend conferences/workshops and towards membership fee for professional bodies during the year	View File
Any other relevant information	**No File Uploaded**

6.3.3 - Number of professional development / administrative training programmes organized by the University for teaching and non- teaching/technical staff during the year (Continuing education programmes, entrepreneurship development programmes, Professional skill

development programmes, Training programmes for administrative staff etc.,)

167

File Description	Documents
List of professional develoment / administrative training programmes organized by the University for the year	View File
The lists of participants who attended the above programmes during the year (Data template)	View File
Detailed program report for each program	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View File
Reports of Academic Staff College or similar centres. Verification of schedules of training programs	View File
Copy of circular/ brochure/report of training program self-conducted program may also be considered	View File
Any other relevant information	View File

6.3.4 - Number of teachers who have undergone Faculty Development Programmes (FDP) including online programmes (Orientation / Induction Programmes, Refresher Course, Short Term Course etc.) during the preceding academic year

355

File Description	Documents
Details of teachers who attended FDPs during the preceding academic year (as per Data Template)	View File
Details of teachers who attended FDPs during the preceding academic year (as per Data Template)	View File
E-copies of the certificates of the programs attended by teacher Any other relevant information	View File

6.3.5 - Institution has Performance Appraisal System for teaching and non-teaching staff

Our university has a performance appraisal system to assess the quality of the faculty and work efficiency of non-teaching staff.

Our appraisal system namely HRIS e-PMS incorporates benchmarking practices with specific objectives that make our performance appraisal process robust and enables our leadership team to assess, evaluate, monitor and maximize our employee's performance standards towards promoting a high performance driven work culture.

The faculty appraisal is based on qualification, experience, research output and guidance, experience in curriculum designing, external expertise offered, consultancy, contribution to co-curricular, extra-curricular, administrative and social units, participation in extension activities, projects undertaken, papers presented in international and national seminars, publications in journals, patents applied, filed or granted, awards and recognitions.

The non teaching staff appraisal is done according to their requirements like qualifications, trainings underwent, responsibilities held etc.

The benchmarking practices that are adopted in e-PMS process are listed below.

1. Appraise's performance scoring through Star scoring description is well defined along with guidelines. This facilitates our appraiser to assess the individual KRA achievement objectively and accordingly award the scoring.
2. Appraiser is made to assess the individual employee's

professional developmental needs and recommend the learning requirements to enhance their capabilities/competencies.

3. With the help of PIP (Performance Improvement Plan) process, under performers are identified, monitored and corrective measures/self-development efforts are initiated.

Policy for Reward & Recognition

1. The institution gives reward or recognition appropriate to the employee's level and type of contribution and achievements.
2. The various forms of reward/recognition include Confirmation, Re-designation, Pay adjustment, Promotion (with or without adjustment)

Reward Mechanism:

A structured reward mechanism is in place for recognizing the performance of the employees which takes care of disparity among employees, salary revisions and out of turn promotions for recognizing and retaining the performers who exceed expectations.

Appraisal Procedure:

The performance period for all employees of the university is from 1st April of the year to 31st March of the next year.

- While employees undergo the performance appraisals yearly, the Management cadre is assessed bi-annually.
- Appraisal process is done online and initiated 45 days before the end of appraisal cycle.
- List of employees eligible for appraisal as per norms is prepared by HR Department and shared with all concerned departments for data input.
- Individual employees fill up the appraisal forms and send them to HODs through online mode and in turn forwarded by HODs with recommendations to HR Manager.
- Registrar reviews the appraised data with HR / HODs to weed out any anomalies so as to adhere to normalization guidelines
- This is followed by discussion with the Trustee and the increment scheme gets approved.
- HR Manager takes necessary action on the increment scheme.
- Percentage of revision is subject to Management's decision and the Management has the right to change/modify percentages as they deem fit.
- HR manager informs the award of increment to all employees

File Description	Documents
Performance Appraisal policy of the Institution	[View File](#)
Report on the analysis of the Performance Appraisal for the teaching and non-teaching staff for the year as submitted to the Board of Management/ University Senate etc.	[View File](#)
Any other relavent information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilization of resources

The financial resources are:

Resources through Education

Funds are raised internally by way of collection of tuition and other fees from students across various teaching programs of CARE. Mails/Letters/SMS are sent to the parents with the intimation of due dates for payment of fees during the beginning of the academic year. Fees is collected through digital modes such as RTGS/NEFT/IMPS or through Cheque/DD/Cash directly deposited by the students in our specified bank account. We ensure that cash deposits are made by the students within the limits stipulated by the Government.

Establishment of new Schools in Law, Architecture, Pharmacy and Physiotherapy are the futuristic strategies for resource generation.

Resources through subsidized health care and Hospital revenue

The 1180 bedded hospital with emergency care, ICU, OT and Diagnostic services attached to the medical college with the average daily 3000 out patients is another area of resource generation. Hospital collections are deposited with the bank on a daily basis.

Resources through External grants - Extramural funds

Being a Higher Education Institution having UG, PG and PhD programs, CARE has started attracting extramural funding from Government agencies like DST, DST Indo-Italy, DST-ECR, DBT, CSIR, ICMR, RSSDI etc, for research projects in all emerging areas.

Implementation of various industry sponsored R&D projects, clinical trials, pre-clinical studies and consultancy services helps in resource generation.

Procedure for optimum utilisation of resources

The BOM, Planning & Monitoring Board, Finance Committee and regular conduct of internal and external audit help in monitoring the optimum utilisation of resources. The institution has various Committees for the transparent and efficient utilization of the resources. These Committees help in the planning and budgeting processes. The funds available are allocated for various purposes:

- Corpus fund creation

- Resource utilization for Education & Health care

- Subsidized health care offered to patients is allocated substantial resource
- Infrastructure/Purchase Committee ensures the development & maintenance of necessary infrastructure and other facilities provided by the college including hostel, transport, herbal garden, landscaping, canteen, sports, library and Hospital etc.,
- Biomedical/Purchase Committee ensures the purchase and maintenance of laboratories, equipment, reagents, chemicals, machines, AMC, calibrations etc.,
- Outreach committee ensures to conduct health camps and social activities through NSS.
- Library Committee ensures to augment the library facilities and also in optimal utilization of the resources.
- Scholarship Committee ensures issuance of scholarship to deserving candidates

- Resource utilization for research

- Encouragement for full time PhD scholars through CARE Junior Research Fellowship and Post-doctoral fellowship as well. This also includes free boarding and lodging facility including contingency grant annually
- Seed money for faculty and student research
- Complete financial support & Guidance for research publication and Patent filing
- Financial support for conducting/participation in workshops, conferences etc.,
- Promoting visiting faculty from reputed institutions in India

> **and abroad to train and guide in latest techniques and promote quality research**

File Description	Documents
Resource mobilization policy document duly approved by BoM / Syndicate / Governing Council	http://aqar.care.edu.in/files/6.4.1.A-Resource-mobilization-policy-document.pdf
Procedures followed for optimal resource utilization	http://aqar.care.edu.in/files/6.4.1.B-procedure-for-optimal-resource-utilization.pdf
Any other relevant information	**Nil**

6.4.2 - Funds / Grants received from Government / Non-Government bodies / philanthropists during the years (excluding scholarships and research grants covered under Criterion III)

File Description	Documents
Audited statements of accounts for the year	View File
Copy of letter indicating the grants/funds received by respective agency as stated in the metric	View File
Provide the budget extract of audited statement towards Grants received from Non-Government bodies, individuals, philanthropist duly certified by chartered accountant and/or Finance Officer	View File
Information as per Data template	View File
Any other relevant information	**No File Uploaded**

6.4.3 - Institution conducts internal and external financial audits regularly

Our university has a very strong mechanism for conducting internal and external audits.

Accounts of the university are maintained digitally in ERP using Sage ACCPAC, an integrated Hospital Management System and Accounting software. The financial monitoring mechanism of the university involves internal and external audits, payments through banks, purchase based on tenders and quotations, transparency in

transactions.

Internal Audit:

In our university, internal audits are done on a regular frequency/ concurrent basis by the internal audit team deputed by the Trust Head Office. Based on the accounts and records submitted by our university office, the internal audit team does verifies all vouchers, supporting documents, records and books, e-statements of the transactions that are carried out in each financial year including budget estimations, utilizations, cash transactions, bank reconciliation statements, verification of the events happened in the area of financial managements.

Mechanism of internal audit and settlement of objections implemented in the institution is as follows:

1. Examine the previous financial statements
2. Evaluation of Internal control system
3. Verifications of student's fee registers
4. Authorization of fees concessions, controls, policies
5. Examining the statutory payments to different bodies like EPF, ESI, TDS, Income Tax
6. Examining the Bank Pass book
7. Examining Sponsorships, Deposits, Payments
8. Interdepartmental stock checking reports

After a study of the audit reports, the management instructs the concerned section to rectify the errors if any, to set right the audit objections.

External Audit:

External audit is carried out on yearly basis by independent statutory auditors. The auditor draws the Audit Schedule and conducts audit based on it. As of now there is no major findings / objections. Minor errors of omissions and commissions pointed by the audit team are immediately rectified / corrected after appropriate discussions with the Management and precautionary steps are taken to avoid recurrences of such errors in future.

Mechanism and settlement of objections of External Audi are as follows:

1. Examining the procedures and policies and regulations
2. Vouching the receipts by the university, payments, PO, etc.

3. Verify the salary payment, TDS, Income Tax, EPF, ESI, Professional tax, Gratuity, etc
4. Examining the property titles, approvals, payments to regulatory bodies
5. Evaluating fee receipts
6. Certify the audit report
7. Filing the Income Tax returns regularly
8. Carrying of audit in accordance with the rules of the financial statements

The statutory auditor provides audit reports as per Income Tax Act 1961.

Every year audit reports are filed with Income Tax department and Audit Reports of each year are placed with the financials of the respective year.

A separate audit for GST as per statutory requirements is also conducted by our statutory auditors every year.

File Description	Documents
Policy on internal and external audit mechanisms	http://aqar.care.edu.in/files/6.4.3.A-policy-on-internal-and-external-audit-mechanisms.pdf
Financial Audit reports for the years	http://aqar.care.edu.in/files/6.4.3.B-Financial-audit-report-for-the-year.pdf
Any other relevant information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Instituion has a streamlined Internal Quality Assurance Mechanism

VISION

To be a catalyst in making CARE a center of excellence for education with quality being the defining element that facilitate the development of competent professionals and valuable citizens who excel in health care delivery, research and innovation and also aid in disseminating knowledge across the globe influencing and impacting the better future.

MISSION

To conduct periodic assessment and accreditation of all academic programmes or projects within the university; to maintain an excellent academic environment and promote quality of teaching -learning, high quality research and innovation, to encourage self-evaluation, accountability and autonomy of the colleges, to provide training programmes with best quality.

GOAL

1. To develop and implement a quality system to improve the academic and administrative standards of the University and Constituent colleges of CARE.

2. To design and execute procedures that will assist towards constant quality improvement.

OBJECTIVES

1. To promote a quality assurance culture within CARE.

2. Institutionalize the quality assurance culture to improve the academic performance of &institutionalization of best practices

- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the University.
- Conduct of periodical audit of academic and administrative activities of the University.
- Obtaining and analyzing of feedback from various stake holders towards improvement in quality.
- Dissemination of information on the various quality parameters of higher education.
- Organization of workshops, seminars on quality related themes.
- In terms of UGC Regulations 2010, IQAC shall act as the Documentation and Record-Keeping cell of the University.
- Preparation of Annual Quality Assurance Report (AQAR) to be submitted to National Assessment and Accreditation Council.
- Conduct of regular meeting of IQAC members

IQAC, CARE plans its strategies around the following aspects

1. Establishing Academic Distinctiveness

2. Excellence in Research, Innovations & Collaborations

3. Sophistication in Infrastructure, dedicated Staff support &

Talent nurturing

4. Excellence in Patient Care & Community Service

IQAC under the Chairmanship of Vice Chancellor of CARE, Management representative, administrative representatives and nominated members &coordinators from various constituent colleges meets once in 3 months to discuss the objectives, strategies to achieve the objectives and plan actions accordingly.

Working Mechanism

Academic Distinctiveness

1. Quality benchmarks development and application.
2. Definition of parameters for various administrative and academic activities of CARE.
3. Facilitating quality education to adopt the required knowledge and development of skills and research and enable our students to have access to lifelong learning and aim to become a leader in technology enabled teaching – learning and research institution.
4. Feedback analysis from all relevant stakeholders on institutional quality processes with periodic revision of feedback forms
5. Transfer of information on various academic/research and other quality parameters to stakeholders.
6. Organization of intra and inter institutional seminars, workshops on quality related themes and in Academics/Research/Community inclusiveness/ Equitable access to education within the constituent colleges like establishing robust, young dedicated Medical Education Units, Curriculum committee, various other committees from all constituent colleges.
7. Documentation of activities that leads to quality enhancement.
8. Acting as facilitator of CARE to coordinate quality-related activities.
9. Conduct of Academic and Administrative Audits periodically.
10. Preparation and submission of the Annual Report on Quality assurance as per NAAC guidelines.
11. To facilitate in the preparation of Annual reports.
12. To facilitate and help the constituent colleges develop their internal audit system, quality system as and when required
13. Periodic monitoring of all the activities are carried out based on points as a measure of quality sustenance and enhancement Curriculum planning –

- To revise the curriculum periodically by the constituent colleges.
- To start new programs in the emerging field
- To enrich the curriculum to suit the needs of the industry/society as per the graduate attributes of the programs in line with that of the University.
- To ensure Outcome based Learning - To define the Course Objectives (COs),Program Educational Objectives (PEOs) and Program Outcomes(POs) of all programs across the constituent colleges of CARE, so as to carry out the mapping of the PEOs POs, and COs that leads to student learning outcomes (SLOs).

Research culture and innovation with collaboration

1. Promotion of Research at Institutional level in the form of seed grant to both students and teachers
2. Development of Institutional Citation Index, Impact factor,
3. Promotion of publication of papers in highly indexed scopus/WoS Journals
4. Awareness to all departments for the development of facilities by Funds generated by DST, FIST, DBT, Technology information, Forecasting and Assessment Council (TIFAC), different Ministries, ICSSR, ICHR etc.,
5. Industry-Institution Interaction Centre, Promotion of Incubation Centre, Innovation Park,
6. Code of Ethics, Research Training and support to Ph D students
7. Number of patents registered, Intellectual Property Rights and commercialization
8. Number of consultancy services provided and its earnings
9. Development of resources by National/International funding agencies
10. Promoting faculty for their research work for national and international awards
11. Publication of University Research Journal, Newsletter
12. Encouragement and guidance in Industry, Research & Academic Collaborations

Infrastructure, talent nurturing & Staff support

1. Promoting and setting of skill development centres,
2. Recognition of Best Practices of various constituent colleges, departments and Dissemination of Best Practices within the institution throughstrong internal communication System (upward and top down)
3. Using ICT as learning resources, library and e-resources for research, e-content preparation

4. Integration of library resources into the curriculum and access to students
5. To conduct SWOC analysis periodically of all departments
6. Recognition of faculties and staff who have done commendable service to the profession
7. Awards at all categories to students, staff and faculty
8. Nurturing academic, research and extracurricular talents by conducting inter &Intracollege activities

Patient Care & Community Health Service

1. Validated SOPs in all sections of patient care, monitoring the adherence
2. Maintaining quality -NABH & NABL Accreditation of hospital & Central Clinical Laboratory - preparation, documentation of all Quality System Manuals & Quality System Procedures
3. Promote community health programs,
4. students participating in NSS, Community Health services

File Description	Documents
The structure and mechanism for Internal Quality Assurance	http://aqar.care.edu.in/files/6.5.1.A-Structure-and-mechanism-of-IQAC.pdf
Report on the quality sustenance/enhancement initiatives of the IQAC during the year	http://aqar.care.edu.in/files/6.5.1.B-Report-on-quality-sustenance.pdf
Minutes of the IQAC meetings for the year	http://aqar.care.edu.in/files/6.5.1.C-Minutes-of-meeting-IQAC.pdf
Any other relevant information	Nil

6.5.2 - Quality assurance initiatives of the Institution include: Academic and Administrative Audit (AAA) and initiation of follow-up action Conferences, Seminars, Workshops on quality Collaborative quality initiatives with other Institution(s) Orientation programmes on quality issues for teachers and students Participation in NIRF process Any other quality audit by recognized State, National or International agencies (ISO, NABH, NABL Certification, NBA, any other)	A. All of the Above

File Description	Documents
Report /certificate of the Quality Assurance Initiatives as claimed by the Institutions eg: NBA, ISO, NABH, NABL, AAA etc.,	View File
Data template including documents/certificates relating to options 1 to 6 above	View File
Any other relevant information	No File Uploaded

6.5.3 - Impact analysis of the various initiatives carried out and used for quality improvement during the year

- IQAC of Chettinad Academy of Research and Education (CARE) was established with the objective to review and analyze the academic standards and performance indicators and form strategies to constantly improve the quality of higher education.
- To promote quality culture as the prime concern of Higher Education Institutions through institutionalizing and internalizing all the quality-enhancing and sustaining initiatives taken with internal and external support.
- To develop a mechanism to promote conscious, consistent and catalytic action plans to improve the academic and administrative performance of the institution.
- To promote institutional quality enhancement and sustenance through the internalization of quality culture and institutionalization of the best practices.

An abstract of the impact analysis of these initiatives is below:

Teaching & Learning Resources

Initiatives :

- Initiated a video recording of every physical class taken by medical faculty for undergraduate students.
- HD Video recording camera is fixed in lecture halls
- Recorded the video of theory classes.

Outcome:

- Students accessed the theory classes recorded video after the regular class hours.

- Helped the students in their repeated learning process
- Pass percentage of UG students in pre and para clinical is significantly increased

Student Performance

Initiatives :

- To provide flexible learning environment in a small group for below average students in academics
- Special evening fast track classes were taken to improve their academic performance
- Effective mentorship adopted

Outcome:

- Weak students performed well in the University exams and it was evident with their results

Research and Innovations

Initiatives :

- Providing Incentives for Scopus indexed
- Training faculty members for copyright process
- Motivated faculty members to provide good publications
- Conducted seminar on how to write a good research article as well as for copyright process

Outcome:

- Chettinad Academy of Research and Education has been awarded a 3 star by MHRD's Innovation Cell
- No. of Scopus publications increased significantly.
- Many faculty were awarded copyright for their literary work

Reforms in academic excellence and Quality Assurance

Initiatives :

- Initiation of Faculty Quality Cell to create quality environment among the faculties through IQAC
- Highly Experienced faculty members were newly appointed
- Several reforms were implementedin academic activities

Outcome

The WEEK Magazine 2020 Ranking

- 10th Best Private Medical College in South Zone
- 15th best Private Medical College in India
- 32nd Best Medical College in India

The Outlook Ranking 2020

Outlook I care India University Ranking 2020

- 6th Best Medical University

Green Campus

Initiatives :

- Initiation of additional plantation of green trees
- Creation of man-made forest inside the campus
- Up gradation of herbal garden

Outcome:

Evident by

- Chettinad Academy of Research and Educationstands 5th in the country ranking by UI Greenmetrics
- Indian Green Building Council (IGBC) Rating-Platinum

Membership in Professional bodies

Initiatives :

- Gained knowledge and its importance about various professional bodies
- Applied for membership in various premier professional bodies

Outcome:

Obtained Institutional membership in:

- Red Cross Society Annual Youth Red Cross
- DELNET Membership (Renewal)
- Association of Commonwealth Universities(Renewal)
- International Association of Universities Membership (Renewal)
- Association of Indian Universities Annual Membership (Renewal)

Recognitions from MCI/NMC

Initiatives :

- Applied for recognition / renewal
- Successful conduction of MCI inspection

Outcome:

- MCI – CHRI - 1st Renewal of Recognition of M.D. General Medicine starting intake 04 seats
- MCI – CHRI - 1st Renewal of Recognition of M.D. Pathology starting intake 01 seat
- MCI – CHRI - Recognition of M.D. Pathology increased intake from 01 to 03 seats
- MCI – CHRI - 1st Renewal of Recognition of M.D. Respiratory Medicine starting intake 02 seats
- MCI – CHRI - M.D. Respiratory Medicine increased intake from 02 to 03 seats
- NMC – CHRI - 1st Renewal of Recognition of M.S. Ophthalmology starting intake 01 seat
- NMC – CHRI - 1st Renewal of Recognition of M.D. Dermatology, Venerology and Leprosy starting intake 02 seats
- NMC – CHRI - 1st Renewal of Recognition of M.D. Anesthesiology starting intake 04 seats
- NMC – CHRI - 1st Renewal of Recognition of M.S. Orthopedics starting intake 02 seats

File Description	Documents
Relevant documents/information on the process and results of impact analysis on the above aspects	http://aqar.care.edu.in/files/6.5.3.A-Document-on-impact-analysis.pdf
Any other relevant information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the institution for the promotion of gender equity during the year

Measures initiated by the university to promote gender equity are illustrated as follows:

Safety and Security:

- **24 x 7 security services**
- **Well trained in-house female security staffs are posted in different locations to provide safety to all staff and students within the campus.**
- **Security patrolling is on duty in and around the campus 24 x 7.**
- **Regular checking of vehicles and people at all entry and exit points.**
- **Periodic checking of parking areas, open grounds, college, hospital, hostel, canteen etc.**

- **Separate hostels for men and women with experienced in-house wardens (male and female) are available 24x7.**

- **Faculty and Staff members are assigned to supervise the hostels.**

- **Female Junior Assistants are placed in the lecture halls / classrooms / demo rooms to monitor the student activities.**

- **RFID tagged ID cards are provided to monitor the student activities.**

- **An extensive electronic surveillance takes place using CCTV cameras throughout the campus and well equipped control rooms to prevent acts of harassment / violence against women.**

- **Biometric access has been implemented for entry and exit into college, hospital, hostels, classrooms, transport and library.**

- **Prominent Helpline posters with visuals are displayed throughout the campus for emergency.**

- **Free ambulance service is provided to all inmates within the campus.**

- **The university has constituted an active Complaint Cell for prevention of sexual harassment of women working in the university.**

- **Orientation program is conducted for all newly admitted students sensitizing gender issues.**

- **Biometric access enabled toilets are available in every block**

Counseling:

CARE provides effective counseling on academic and other personal issues for both boys and girls.

CARE has appointed professional female counselors and psychiatrists for providing counseling services to all the girl students and women employees within the campus.

Dean, Principals of constituent colleges and senior faculty members provide counseling to all the students at the time of admission and whenever required.

Individual departments offer counseling through mentorship programs and help the students in academics, administrative, sports and other extracurricular activities including making career choices.

Common room:

Exclusive common room facilities for boys and girls are provided with attached toilet and beds in each of the constituent colleges / schools.

Day care center for young children:

Free Daycare Centre is functioning within the campus for young children to support working mothers who are employees of the university.

Any other relevant information:

CARE Policy advocates the following:

- Know your rights: Sexual harassment is illegal; both the law of the land and CARE prohibit sexual harassment.
- Speak up: If you can, tell the person who indulges in the act to stop. Convey in clear terms that the unlawful act would warrant deterrent legal punishment.
- Get information and support: In case you cannot speak up, ask your friends to help you and bring it to the notice of CARE authorities. Keep records that might be useful for pursuing the case.

File Description	Documents
Annual gender sensitization action plan	http://aqar.care.edu.in/files/7.1.1.A-Gender-sensitization-action-plan.pdf
Specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://aqar.care.edu.in/files/7.1.1.B-Specific-facilities.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

A. All of the Above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File
Data template in prescribed format	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 100 - 200 words)

The university employs effective techniques for the management of the wastes that are accumulated in the campus as elaborated below.

Solid Waste Management:

Solid wastes include food waste, paper waste, plastics, glass, ashes and garden waste. In the campus, the main items are food waste and garden waste. A place is earmarked in the campus wherein garden waste is dumped in large pits and compost formed is used to maintain the lush greenery. The University takes all necessary steps to provide a scientific solution to food waste. All the other types of solid wastes are collected and removed from the campus by the government health department.

Liquid Waste Management:

Liquid wastes comprise of waste-water, fats, oils / grease, used oil

and dangerous liquids of other types. Theseare detrimental to human health cum environment and thus should be managed with all precautions. Liquid waste generated from hostel, different labs and other places are sent to the treatment plant. The treatment of waste liquids consists of:

Primary Treatment (Screening) where raw sewage is filtered; all solid particles are manually removed at fixed time intervals and disposed. The solid organic waste is collected and converted to compost.

Secondary Treatment:

i) Equalization: The filtered sewage is collected in the collection sump for equalization. Pump sets transfer this into an aeration tank.

ii) Biological treatment: This converts organic matter present in waste-water into bacterial flock.

iii) Secondary Settling:The overflow from the settling tank is taken to a Clarified Water Tank.

Tertiary Treatment and UF:

Water is pumped through a pressure sand filter along with necessary mixing of alum and chlorine for reduction of BOD and COD levels.

Sludge Drying:

In the sludge decanting process, the excess sludge formed is used as manure for gardening.

Biomedical Waste Management:

Biomedical wastes such as human anatomical wastes, microbiology and biotechnology wastes, syringes, hypodermic needles and scalpels are segregated and collected in color-coded bags. They are removed from the source and dumped in Biomedical Waste Yard from where it is cleared by GJ Multiclave, (Govt. authorized biomedical waste management agency) to Common Biomedical Waste Treatment Facility (CBMWTF).

e-Waste Management:

E-waste or Waste Electrical and Electronic Equipment (WEEE) are

loosely discarded, surplus, obsolete, broken, electrical or electronic devices. This is very complex in nature. E-waste generation in our campus is very low and consists of used batteries and computer parts both damaged and obsolete. They are taken back by the vendors who supplied them.

Waste recycling system:

Clearly labeled bins are placed in well demarcated zones all over the campus which ensure that the waste that can be recycled is segregated at the source itself. The metal and glass pieces thus received is up-cycled in the form of containers that can be autoclaved / sterilized and similar such resuitable purposes.

Hazardous Chemicals and Radioactive Waste Management:

We do not handle or generate radioactive waste.

The chemical waste incidentally generated in various labs and other places is collected and disposed as per the Govt. guidelines.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	http://aqar.care.edu.in/files/7.1.3.A-Relevant-documents-like-agreements-MoUs.pdf
Geotagged photographs of the facilities	http://aqar.care.edu.in/files/7.1.3.B-Waste-Management.pdf
Any other relevant information	Nil

7.1.4 - Water conservation facilities available in the Institution Rainwater harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or All of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include: Restricted entry of automobiles Battery-powered vehicles Pedestrian-friendly pathways Ban on the use of Plastics Landscaping with trees and plants	A. All of the Above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Relevant documents / reports	View File
Any other relevant documents	No File Uploaded
Data template in prescribed format	View File

7.1.6 - Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives: Green audit Energy audit Environment audit Clean and green campus recognitions / awards Beyond the campus environmental promotion activities Any awards received for green campus initiatives	A. All of the Above

File Description	Documents
Audit reports of the institution related to the metric Data template	View File
Any other relevant information	View File

7.1.7 - The Institution has Divyangjan friendly, barrier-free environment Built environment with ramps/lifts for easy access to classrooms. Divyangjan friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for Divyangjan to access NAAC for Quality and Excellence in Higher Education AQAR format for Health Sciences Universities Page 68 website, screen-reading software, mechanized equipment Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading	A. All of the Above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Relevant documents / reports	View File
Any other relevant information	**No File Uploaded**
Data Template	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

As part of our efforts to provide an inclusive environment, our university recognises the importance and value of tolerance and harmony as essential components of quality education and has taken a vow to instil tolerance and harmony in the minds of students and faculty through co-curricular and extra-curricular activities.

The institution operates by its Vision and Mission, which ensures that all stakeholders are treated equally, regardless of gender, class, religious affiliation, or ethnic heritage. CARE thinks that knowing each other's culture, area, and language allows people to respect each other equally. By developing mutual understanding among teachers, staff, and students, the university hopes to strengthen tolerance and concord. The CARE family truly represents its regional, cultural, gender, language, communal, and socio-economic diversity with its beautiful strength.The campus is vibrant with several languages spoken and several regional, ethnic, cultural and other events being celebrated with appropriate welcome arches, Rangoli, flower decoration etc.

The institution has established a universal clothing code for students, which fosters a sense of fairness among all students. Hostel life brings students closer together, making it a home apart from home. Teachers' Day, International Women's Day, Freshers' Day, Independence Day, and Republic Day provide opportunities for students to work together as a team, burying their differences. The absence of ragging and sexual harassment in the collegiate environment means that students live in peace.

The following events held since 2015 bear testimony to CARE's commitment to Tolerance & Harmony.

Tolerance & Harmony towards culture

- Christmas, New Year, Ramadaan, Ugadi& Tamil New Year celebrations

- Ramzan fasting diet during Ramadaan

- Yoga day

- Prayer for Muslims & Halal Diet

Tolerance & Harmony towards region

- Onam, Dandiya celebrations

- Matribhasha celebrations

- Regional Movie screening

- Festival based food Menu

Tolerance and harmony towards linguistics:

Language workshops conducted in

- English

- Tamil

- Hindi

- Spanish, French

- Regional Movie screening

Tolerance and harmony towards communal and socioeconomic status:

- Oblique dress code

- No caste based benefits

- Merit based scholarship

Tolerance and harmony towards other diversities:

- Celebration of ethnic days

- Ramzan, Christmas, Holi and other ethnic festivals are celebrated

CARE actively promotes the theme of Unity in Diversity. It instills a feeling of global citizenship among its members, which include students, faculty, and staff. This Centre for Diversity and Inclusion is a home away from home for CARE students, encouraging intercultural involvement via educational and social programming to improve their overall experience. Students, staff, and professors can use this office as a multicultural resource. We provide support for student organisations, off-campus cultural excursions, and unique campus programming to celebrate the diverse cultures represented on campus and across the country. We engage the university community through our facilities, programming, and services, fostering holistic student development.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	http://aqar.care.edu.in/files/7.1.8.A-supporting-document.pdf
Any other relevant information	Nil

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Our university is committed to ensuring that all members of the Chettinad Family, including students, faculty, staff, and authorities, are law abiding, performing civic duties, contributing to the welfare of the society to which they belong, self-disciplined, tolerant, patriotic, trustworthy, and honest citizens of this great country, as enshrined in our constitution.

Everyone on campus is made aware of and mindful of the basic responsibilities that come with being a citizen of this country, and these responsibilities are listed, which include:

- National flag and National Anthem should be respected

- Ideals of the freedom struggle are to be followed.
- Country should be defended and national services are rendered whenever needed.
- Common brotherhood is to be followed
- Culture to be preserved
- Sovereignty and integrity of India is to be protected
- Natural environment should be protected

- Public property should be safe guarded
- Children in the age group of 6-14 years to school by their parents and guardias.

The above are impressed in the minds of the students during the normal teaching sessions.

CARE takes constant steps to ensure that students, staff, and professors put these values into practice in their daily lives and that they also go out of their way to instill them in the minds of the general public with whom they deal. On the following national days, our university arranges unique festivities through its component colleges every year:

1. Independence Day
2. Republic Day
3. Gandhi Jayanthi
4. National Youth Day
5. Human Rights day and few such similar events.

It should be noted that students on campus commemorate the aforementioned days with zeal and grandeur, emphasizing their significance. On these days, students in great numbers participate in cultural activities that include folk songs, dance, and theatre that project the culture of different parts of the country, and dignitaries offer speeches honoring our founders and freedom fighters' efforts in attaining independence. Such activities instill a sense of national unity and patriotism in our kids, and they undoubtedly inspire them to become deserving citizens of our country.

Students and staff at the university should also be aware of their rights as residents of this country, such as the right to free speech and expression, the right to freedom of religion, and the right to be free from exploitation in the areas of education and culture. These rights are thoroughly communicated to students as needed, either during lecture sessions or during encounters.

It should be noted that the village adoption program, as well as the bi-monthly trips to these villages, provide a great platform for our students to demonstrate their social obligations.

We are addicted to the dictum - A country can flourish when its citizens are responsible enough to build a strong and powerful nation.

We will continue to carry out our responsibilities in the belief that we are all accountable for the protection and development of our country.

File Description	Documents
Details of activities that inculcate values necessary to render students to be responsible citizens	http://aqar.care.edu.in/files/7.1.9.A-Details-of-activities.pdf
Any other relevant information	**Nil**

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organized professional ethics programmes for students, teachers, administrators and other staff during the year Annual awareness programmes on Code of Conduct were organized during the year	**A. All of the Above**

File Description	Documents
Weblink of the code of conduct	https://care.edu.in/code-of-conduct/
Details of the monitoring committee of the code of conduct	View File
Details of Programs on professional ethics and awareness programs organized during the year	View File
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Our university strongly believes that unless the present generation of youth is sensitized to the significance of the national festivals and the sacrifices made by great men and women of this country for the upliftment of their countrymen, the students will not be able to understand their responsibility towards their secular nation. Our university, being very conscious of its responsibility towards

building up a nation comprised of individuals committed to the society, organizes the celebration of many national festivals as well as commemoration of birth / death anniversaries of great personalities of our nation, so as to inculcate the spirit of nationalism in the minds of students and staff.

The institution celebrates Days of National Importance like Independence Day and Republic day with fervor and festivity. During such events, the unceasing toil of our leaders who contributed in building the nation is recalled with homage and gratitude. Death and Birth anniversaries of great personalities, Important Days of National and International events are also celebrated in meaningful fashion.

Celebrating festivals not only brings joy and smile but also creates a sense of harmony among people and helps in holistic personal and community development. The practice of honoring commemorative days is an effective way of directing the students towards a world that has no borders although people are divided by countries and continents.

During the past 5 years, while traditional cultural festivals such as Pongal, Holi, Christmas, Ramzan and Diwali were celebrated with great pomp and gaiety, CARE also venerated national and international commemorative days such as World Cancer Day, National Energy Conservation Day and Road Safety Week with equal effort by organizing Conferences, Workshops and Seminars on the theme of the commemoration in order to stretch the knowledge and awareness of the student community.

Our campus celebrates World No Tobacco Day on May 31st of every year wherein public awareness pamphlets are distributed on the ill effects of tobacco usage on the body.

The International Women's Day is celebrated every year with jubilance as girl students, women teachers and women non-teaching staffoutnumber their male counterparts in our university. As a part of this program, various screening tests are conducted for faculties and students. We also conduct events related to training women on 'women safety'.

As our university is mainly involved in imparting medical education, we do celebrate National Doctors' Day on the 1st July of every year and all the doctors in the campus are honored for their noble services.

Similarly, Mathra Basha Diswas, International Nurses' Day, Teachers' Day, Gandhi Jayanthi, World Pharmacists Day etc. are all celebrated every year, on the respective days, with the whole-hearted participation of staff, students and faculty.

CARE upholds the faith that celebrations and events train the minds of the students about diversity, tolerance, harmony, sacrifice, determination and provide them a sense of belonging as well as serve as the right platform for being transformed as worthy citizens.

File Description	Documents
Annual report of the celebrations and commemorative events for the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution during the year as per NAAC format provided in the Manual

Best Practice 1:

Title of the practice:

E-management of Examination System

Aim:

To manage the end-to-end processes of the examination right from the application to declaration of results by using a highly integrated and sophisticated software system.

Objectives:

1. To make the examination system fully automated
2. To ensure smooth and easy functioning of the examination system for all the stakeholders- students, faculty and examiners
3. To facilitate online evaluation of the papers

Context:

CARE always want to upgrade the existing systems in order to make it easy and for efficient functioning. In that context, attempt has been made to make the whole system of examination fully automated with all the processes integrated with each other. The goal is to facilitate and help all the stakeholders involved in the examination process to have a smooth and easy access to all aspects of the exam system.

The current system has been designed in such a way that the student can log in any time and he/she will have access to the syllabus, question banks, IA marks, attendance, eligibility for examination and so on. Further, the students can apply online for the examination and pay their exam fee through this portal. They also can download their hall ticket in the same portal.

Like students, the faculty (Heads of the Departments) will have a separate log in ID, through which they can submit the attendance, IA marks of the students. The eligibility criteria has been built in as default in the software and based on the IA marks and the attendance, the software will automatically detect whether the student is eligible for the examination or not.

The unique aspect about this new system is the "Online evaluation" where the answer sheets of the students will be scanned and uploaded in the portal and the examiners can view the answer sheets for evaluation. The marks for each question has to be awarded separately in the allotted field and the total will be calculated. The advantage is that there will not be any error that occur in the totaling, like in manual evaluation.

After the evaluation, the results will be declared within a week's time and the students can view their marks in the same portal.

The Practice:

The Online Evaluation System has been developed and maintained in house by a team of qualified IT professionals, after getting inputs from the Students, Faculty and Controller of Examiner.

The following environment is used for the development and maintenance of the software.

Coding Language: PHP

Operating System: Windows Server 2012 R2

Database: MySQL

The software consists of exam session, courses, subjects, students are assigned to the exam session. Create examiners for the corresponding subjects. Upload answer sheets and assigned to the examiners, they examine the answer sheets through online and post the marks. Finally examiners acknowledge the report for their subjects and sent through email to Examination Section.

After the development of the software, the IT team has given orientation to the students and faculty on how to use this software through demo sessions. Later, the portal was released in the website for use.

Obstacles faced if any and strategies adopted to overcome them:

- At the initial stages of this process, there were different expectations from the stakeholders like students, faculty and COE. Several meetings were convened involving all the stakeholders and all the concerns were addressed and the suggestions were incorporated in such a way that it could satisfy all the expectations and demands.
- Once the system has been launched, initially the students and the faculty felt it difficult to use the software but this problem was overcome by repeated demo sessions by the IT department.

Evidence of Success:

1. Easy access to all the processes of examination for the students anywhere and anytime
2. Contributed to the environmental sustainability as it reduced most of the paperwork
3. Time saving for the students, faculty and the staff

Resources: Extended hours of work by the IT team, Budget for software development

Best Practice 2:

Title of the practice: Chettinad Free Community Hospital (CFCH) – "Revisiting the health care needs of Rural Poor"

Aim:

To provide free health care and health awareness to all population

living in the villages in and around CHRI.

Objective:

To offer quality health services at free of cost to all strata of society through CFCH and integrated outreach program.

CFCH aims to provide free health care starting from basic primary health checks extending up to advanced diagnosis and care to all individuals attending CFCH. The different services offered include Consultation, Diagnostics, In-patient care, Surgery, Treatment and Medications.

Context:

Chettinad Hospital & Research Institute (CHRI) was established in the year 2005 with an objective "Health care for all at affordable cost" ie., everyone should be able to access health care service offered at the hospital without subject to any financial hardship. The management's focus towards the underprivileged resulted in the introduction of very affordable health care services and several health schemes in the region to help people to stay healthy.

In-spite of all the efforts, some population especially in difficult to reach villages were unable to access the effective and affordable health care offered at CHRI as these people have their own logistic, economic and social reasons.

There is growing evidence that poverty leads to ill-health and vice versa. In order to prevent the negative downward spiral of poverty and illness, Chettinad under the motto – "Health care for all" promoted "CHETTINAD FREE COMMUNITY HOSPITAL" through INTEGRATED COMMUNITY OUTREACH PROGRAMME aiming towards a disease free community by providing health care services to all the poor people who are economically unstable at free of cost in order to increase access to health care for poor households.

The Practice:

To contribute to the welfare of the society, CFCH was initiated with the following agenda

- High quality OP consultation 6 days a week
- IP admission & Consultation 24x7
- Community oriented Primary care (COPC) services
- Implementation of national health Program (RNTCP, NCPDCS,

NPCB)
- Diagnostic & Imaging facilities
- Treatment facilities
- Day care procedures
- Minor surgical procedures
- Free medication
- Free transportation of the patients
- Free food

On the above basis, necessary Infrastructure, lab instruments, computers, printers for billing, internet connection & equipment's etc for the functioning of CFCH is provided with necessary manpower. Regular health camps and outreach programme to create awareness is practiced. Diagnostic services including ECG services are provided. Admission procedures, surgeries, medication including food and beverages to such patients are given free of cost. ERP billing is adopted to make the process easy. We send vehicles to every village and take the patients to our hospital to provide services under this programme and the patients are dropped back at their villages in the end.

Introduction of Importance of healthcare at grassroots

All schools coming under the field practice area is made aware of health care issues and regular nutritional assessment, along with routine health check up and screening the children for various diseases (Anaemia, Refractory error, heart diseases, developmental anomalies, etc) is practised. Important health education activities like Hand wash hygiene, menstrual hygiene, healthy life style, etc. is covered.

The practise is as follows:

Primordial (healthy person): Includes health promotion involving health education and healthy environment

Primary (Risk factors): Includes risk factor management involving counselling and specific protection covering immunization and smoking and alcohol cessation

Secondary (Disease): Includes early diagnosis and screening covering opportunistic screening for NCD risk, pharmacist approach for NCD, mental health screening, screening cervical and breast cancer risk

Tertiary (Complications): Includes rehabilitation covering physical,

psychological and vocational. Palliative care for terminally ill patients and rehabilitation of persons with disabilities

Obstacles faced if any and strategies adopted to overcome them:

1. Main obstacle is shortage of manpower: This is overcome by increasing the manpower and also appropriate shift based work allocation.
2. Another Obstacle faced is resources: This is overcome by increasing the number of buses, vans, ambulances
3. Difficult to reach population groups and to refer patients especially underprivileged to CHETTINAD FREE COMMUNITY HOSPITAL: This can be overcome by issue of family privilege membership cards and awareness through outreach programs actively pursued by the department of community medicine.

Evidence of Success

1. Infrastructure establishment – Facility, buses, vans and manpower
2. No of outreach programs for creating awareness on CFCH
3. No of people attending to CFCH
4. Patient feedback.
5. Preventive healthcare measures for underprivileged
6. Collaborations with village health workers and village heads
7. Appreciation from village health workers and village heads
8. Data on advanced treatments offered

File Description	Documents
Best practices in the Institutional web site	https://care.edu.in/best-practice/
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution during the year in one area distinctive to its priority and thrust within 100 - 200 words

Chettinad Hospital and Research Institute, one of the constituent colleges and a major stake holder of Chettinad Academy of Research and Education was started with the core objective of transforming medical education, contributing to research and development in health and biological sciences and above all, providing affordable and quality healthcare at global standards to the population in

need.

The hospital is located in the suburban and rural zone in the outskirts of Chennai and from the time it was started the key focus is to offer state of the art, tertiary care along with preventive health care at the community level. The medical college and hospital has Essentiality certificate issued by Tamilnadu Govt and necessary statutory permissions and recognitions from Ministry of Health and family welfare, Govt. of India.

Health care in rural centres:

The doctors from CHRI have been serving in the primary health centres and other hospitals, in Chengalpattu, Kanchipuram and Chennai districts to offer heath care, apart from the routine service being rendered at the satellite health centres of CHRI, Poonjeri and Karapakkam. The health care services were offered at the following Primary Health Centres: Kannaginagar, Kelambakkam, Thandalam and Semmencheri. The doctors from all the specialities including General Medicine, Orthopaedics, OBG, Ophthalmology, etc. are allocated to these PHCs daily on rotation, thereby improving the manpower and the quality of health care provided at these centres.

The ophthalmologists from CHRI are being posted in Sankara Eye Hospital, Pammal.

The satellite health centres of CHRI have been upgraded, especially during the COVID-19 pandemic including setting up of a new oxygen plant at Poonjeri.

COVID-19 care:

Since the onset of COVID-19 pandemic, CHRI has been fully equipped in terms of manpower and other necessary resources for handling COVID-19 and non-COVID patients. The microbiology lab has BSL 2 facility and is an ICMR recognized centre for COVID-19 testing. More than 5000 COVID patients have been treated and more than 25000 RT-PCR tests have been carried out. In addition, CHRI also offered COVID-19 home care, which included sample collection at home for COVID diagnosis, teleconsultation and medicines delivery to the patients at home, round the clock.

File Description	Documents
Appropriate web in the Institutional website	https://care.edu.in/institutional-distinctiveness/
Any other relevant information	Nil

7.3.2 - Future Plans of action for next academic year (100 - 200 words)

1. Planned to conduct several brainstorming sessions with various stakeholders in order to analyse the strengths, weaknesses, opportunities, and challenges of the institute with the aim of making CARE a centre of excellence in the future.

2. Strengthening the culture of research and innovation by applying for additional extramural research grants from various government/private bodies. Furthermore, CARE has set a goal to achieve triple digits with regard to the number of patents and copyrights.

3. Several strategies will be adopted to foster an incubation facility for registered start-ups and to create a supportive environment for entrepreneurs.

4. In the past, CARE has made significant contributions to ranking and accreditation (national and international). However, the thrust to reach a new horizon for additional accreditation is always a passion. Hence, several initiatives will be taken to achieve the same.

5. Smart and green campuses, including ERP with strengthened ICT facilities, will be adopted.

6. Proposed to construct an ultra-modern, state-of-the-art accommodation facility for students.

7. CARE is intended to introduce new undergraduate, postgraduate, and fellowship programmes in the future academic year.

8. Alumni contacts with the institution will be nurtured and strengthened.

9. In the coming academic year, the institute intends to place a greater emphasis on faculty publications by boosting them with incentives and will also encourage undergraduate students to publish

research papers.

10. Preparation will be done to have more academic interface so that there will be additional collaborative participation in academics.

11. To promote cleanliness, waste water management and creation of awareness about it will be done.

12. Planned to improve the existing teaching, learning, and evaluation process, and the measurement of learning outcomes will be assessed, as well as feedback from students will be obtained.