

# **MINUTES**

## **15<sup>th</sup> JOINT MEETING**

### **36<sup>th</sup> Meeting of Governing Body 51<sup>st</sup> Meeting of Board of Management**

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April 21, 2022, Thursday  
02:00 p.m.  
CHARUSAT Campus

The 15<sup>th</sup> Joint meeting of the Governing Body and Board of Management (incorporating 36<sup>th</sup> meeting of the Governing Body and 51<sup>st</sup> meeting of the Board of Management) of CHARUSAT was held as per schedule.

Following members were present:

1.	Shri Surendra M Patel	<b>Chairman; (GB &amp; BOM)</b>	President, CHARUSAT
2.	Dr. R V Upadhyay	<b>Member; (GB &amp; BOM)</b>	Provost, CHARUSAT
3.	Shri Naginbhai Patel	<b>Member; (GB &amp; BOM)</b>	President, Matrusanstha
4.	Shri Virendrabhai Patel	<b>Member; (GB)</b>	Trustee, Kelavani Mandal and Treasurer, CHRF
5.	Shri Manubhai P Patel	<b>Member; (GB)</b>	Prominent Industrialist
6.	Shri Hemal Patel	<b>Member; (GB)</b>	Expert of Information Technology
7.	Dr. Y P Kosta	<b>Member; (GB)</b>	Principal, Chandubhai S Patel Institute of Technology
8.	Shri. H T Patel	<b>Member; (BOM)</b>	Former President, API Business, Zydus Cadila Healthcare Ltd. Nominated by Shri Charotar Moti Sattavis Patidar Kelavani Mandal
9	Dr. Amit Ganatra	<b>Member; (BOM)</b>	Dean, Faculty of Technology & Engineering Nominated by the Provost
10	Dr. Atul Patel	<b>Member; (BOM)</b>	Dean, Faculty of Computer Applications
11	Dr. M Balaganapathy	<b>Member; (BOM)</b>	Principal, Ashok & Rita Patel Institute of Physiotherapy
12	Mr. Devang Joshi	<b>Member-Secretary; (GB &amp; BOM)</b>	Registrar, CHARUSAT (ex-officio)

Following members attended the meeting virtually (Through Zoom Meeting):

1. Dr. M. I. Patel; Member(GB); Eminent Educationist, Industrialist and Philanthropist
2. Shri Nayanbhai Patel; Member (BOM); Executive Director, Packam Controls Private Limited & Industrialist of Repute
3. Dr. Bimal Patel; Member; (GB); Vice-Chancellor, Rashtriya Raksha University
4. Shri Deepenbhai Patel; Member (BOM);

Following invitees remained present on the request of the Chairman:

1. Shri C A Patel; Vice-President, Kelavani Mandal
2. Dr. B G Patel; Advisor to CHARUSAT
3. Shri Ashok Patel; Advisor to CHARUSAT
4. Dr. Mayur Sutaria; Coordinator, IQAC, CHARUSAT

Following members and invitees could not remain present due to their preoccupation:

1. Dr. M C Patel; Secretary, Kelavani Mandal and CHRF
2. Shri Pankaj R Patel; Member (GB); Eminent Industrialist
3. Shri Harishbhai Patel; Member; (GB); President, Universal Load Banks, USA
4. Shri Devang Patel; Member (GB); Eminent Philanthropist and Businessman
5. Principal Secretary, Dept. of Higher & Technical Education, Gujarat State; Ex-officio Member (GB)
6. Dr. Datta Madamwar; Scientific Advisor, CHARUSAT
7. Dr. Manan Raval; Member (GB); Principal, Ramanbhai Patel College of Pharmacy
8. Dr. Darshan Patel; Member (BOM); Principal, Bapubhai Desai bhai Patel Institute of Paramedical Sciences

## **AGENDA PROCEEDINGS AND RESOLUTIONS:**

### **Items of Governing Body**

**Item 36.22.01: For Confirmation;** Relevant portion of the minutes of Fourteenth Joint Meeting of Governing Body and Board of Management held on November 27, 2021

CHARUSAT had organized the Fourteenth Joint Meeting of 35<sup>th</sup> Meeting of Governing Body and 50<sup>th</sup> Meeting of Board of Management (BOM) on November 27, 2021. The minutes were circulated on December 1, 2021. No comments are received from any members. The GB is requested to confirm the relevant portions of the Minutes falling under its purview. As there were no suggestions, the minutes, as circulated were confirmed.

**Item 36.22.02: For Information;** Actions taken on the items of the 14<sup>th</sup> Joint Meeting of (35<sup>th</sup>) Governing Body and (50<sup>th</sup>) Board of Management

#### **Proceedings 36.22.02:**

The Registrar briefed on the actions taken on the items of the 14<sup>th</sup> Joint Meeting of Governing Body and Board of Management held on November 27, 2021.

1. **Under Item No. 34.21.02 (JM-13.21.09)** regarding International Students, Registrar presented that a discussion of mutual collaboration was held with Mr. Ravish Shah, International Co-operation Representative of RRU on 22<sup>nd</sup> December, 2021. Various dimensions were discussed in the meeting. Mr. Ravish Shah will be submitting a proposal for carrying out the activities for further planning /execution. His proposal is awaited. The task got delayed due to NAAC visit. Registrar also briefed about the visit of Mr. Kruten Patel, Executive Officer of International Student Cell (ISC) to Namibia, Zambia and Zimbabwe for various marketing activities to attract International students as follows:
  - Hired 5 consultants from Zambia and Zimbabwe
  - Generated 38 Offer Letters
  - Counseling of 100+ students is going on through WhatsApp
  - 5 Confirmed admissions
  - 110+ prospects for admissions from 3 countries
  - 2 new nationalities added : Ghana and Namibia

The Body noted the information. The President asked to have more discussion on Foreign Students in the next meeting.

2. Under Item No. 34.21.08(2) regarding Startup Projects, Registrar shared that a Section 8 company with name of “**CHARUSAT Innovative Ventures Foundation**” has been registered. Also a Startup support policy has been approved and notified. It now planned to make Company functional. Also, space required for Startups coming to CHARUSAT is being created.

#### **Resolution under Item 36.22.02, in continuation to item 34.21.02 from previous meeting:**

The Body approved the formation of Section-8 Company namely Charusat Innovative Ventures Foundation. It also approved a donation of Rs. 25 Lakhs to the Company. The Body directed to have investment Committee and a Mentor Group.

The Body also directed to appoint a CEO for the company. Shri Hemal Patel and Shri H T Patel offered to give mentorship for the growth of the company.

### **Resolution 36.22.02:**

The Body noted and endorsed the action taken on the items of the 14<sup>th</sup> Joint Meeting of GB and BOM held on November 27, 2021.

## **Common Items for the Governing Body and Board of Management**

### **Items on Academics and Development**

#### **Item JM-15.22.01: For Information and Discussion; Presentation by the Provost**

As resolved by GB vide resolution no. 34.21.07, the Provost had presented performance review of his leadership. The Body noted the presentation given by the Provost. It approved the actions suggested there in. The presentation is attached herewith as Annexure-1.

The suggested actions are:

a) Research and Innovation

- The efforts made to improve the project funding are (i) each faculty member is asked to submit the funding agency at-least one project (ii) in academic planning meetings it has been told to each Heads to initiate at-least Rs.5 Lakh project per Ph. D. faculty per year (ii) the submitted projects to the Government Funding Agencies (~ 10)

The suggested action plan is to encourage and help the faculty to write the project proposals.

- At-least two publications / faculty member and out of those WoS listed one must be in journal publications now onwards for better rating of the University.

- b) To formulate and execute the policies for Professor and Associate Professor of practice
- c) The appointments/ promotion of faculty members under CAS (Career Advancement Scheme)
- d) At-least one Smart classroom at every institute
- e) More number of National/ International collaborations (approximately five).
- f) Review of Strategic Plan for (2022-26) (by end of May 2022)
- g) Administrative restructuring
- h) Identification of Faculty members as Teachers and Researchers

#### **Item JM-15.22.02: For Information and Approval; Annual Quality Assurance Report (AQAR) of Academic Year 2020-21**

### **Proceedings JM-15.22.02:**

Dr. Mayur Sutaria, Coordinator (IQAC-Internal Quality Assurance Cell) gave information about Annual Quality Assurance Report (AQAR) for the Academic year 2020-21. He shared that consequent to the revision of the Manuals in January 2020 for General Universities, Autonomous Colleges and Affiliated/Constituent Colleges, NAAC implemented the revised format of **Annual**

**Quality Assurance Report (AQAR)** from the Academic Year 2020-2021. The tools and parameters in the new AQAR format have been designed in such a way that the preparation of the AQAR would facilitate the Self Study Report (SSR) preparation for the upcoming cycle of accreditation. CHARUSAT has to fill/upload and submit AQAR consisting of all the data metrics (criteria-wise) along with the scanned copies of the supporting documents in the NAAC portal on or before 31 December, 2021. But, as per notification from NAAC dated 24<sup>th</sup> March, 2022 the last date for submission of pending AQAR's stands extended up to 15th May 2022. IQAC, CHARUSAT has incorporated quantitative and qualitative data in all the metrics and is on the verge of submission. AQAR is divided into Part A and Part B. The data can be summarized as follow:

**Part A:** Consists of data of the institution. The data for the extended profile for 2020-21 is as follow:

Number of programmes offered	55
Number of departments offering academic programmes	06
Number of students	8161
Number of outgoing / final year students	2067
Number of students appeared in the University examination	8150
Number of revaluation applications	26
Number of courses in all Programmes	1235
Number of full time teachers	404
Number of sanctioned posts	405
Number of eligible applications received for admissions to all the Programmes	151710
Number of seats earmarked for reserved category as per GOI/ State Govt. rule	437
Total number of classrooms and seminar halls	141
Total number of computers in the campus for academic purpose	3513
Total expenditure excluding salary (INR in lakhs)	5260.05

**Part B:** Comprises of quality indicator frameworks disseminated into seven criteria with total 115 metrics (79 quantitative metrics and 36 qualitative metrics).

Dr. Mayur added that the **qualitative and quantitative metrics** data along with the relevant supporting documents to be submitted was circulated to all HoDs/ HoIs on **March 25, 2022** and their comments are also incorporated the presented report.

**Resolution JM-15.22.02:**

The Body approved the AQAR report for the Academic Year 2020-21 as presented by Coordinator, IQAC. It attached as Annexure 2.

### **Item JM-15.22.03: For Information and Approval; Visit of NAAC Team**

#### **Proceedings JM-15.22.03:**

Coordinator, IQAC informed the Body that the NAAC peer team visited our university during February 9<sup>th</sup>-11<sup>th</sup> February, 2022. There were a total of 07 members in the team.

He added that the first day began with greetings and Provost Presentation at the IIIM Auditorium. The team members were then divided into two groups and visited all Departments/ Institutes of the University. The first day ended with the cultural program by students.

On the second day, the team visited general facilities such as Hospital, Hostels, Sports & Gymnasium, Waste management facilities, energy management facilities, canteens, cafeteria etc. And subsequently had interactions with various stakeholders such as BoM/ GB members, employers, parents, alumni, students, faculty members, non-teaching staff, etc. The second day ended with the interaction with members of the various Cell and Centers of the University.

On the third day, the team visited the remaining facilities and mainly focused on the report writing. The day ends with the exit meeting. The result was declared on February 15, 2022.

He shared that the CHARUSAT has secured **Grade “A”** with an overall **CGPA of 3.19**, where in CGPA of **quantitative metrics is 3.23 and CGPA of qualitative metrics is 3.07**.

Further, he informed the Body that Reassessment appeal over several gaps in the assessment outcomes is filed on March 31, 2022. We are waiting for the reply from the NAAC.

He informed that subsequent to visit, following actions are suggested for further enhancement of quality at Charusat.

1. Faculty members with higher qualifications and experience to be appointed.
2. Research & innovation ecosystem, IPR activities and Patents to be further strengthened and faculty members should focus on quality research publications.
3. Industry-Institute collaboration needs to be further strengthened.
4. More interdisciplinary and value-added courses need to be introduced.
5. The scope of employment needs to be strengthened in core areas.
6. Entrepreneurship and Incubation center activities to be further strengthened.
7. More alumni participation is needed for the larger interest of students and growth of the university.
8. More Centers of Excellence in the cutting-edge technology need to be established.
9. Communication and soft skills of some students and technical staff need to be strengthened.
10. Full time faculty needs to be appointed in basic medical science subjects.
11. Library resources and IQAC documentation need to be strengthened.

#### **Resolution JM-15.22.03:**

The Body appreciated CHARUSAT employees for making efforts to obtain ‘A’ grade. It approved the suggestions given by IQAC to further strengthen quality of CHARUSAT.



**Item JM-15.22.04: For Information and Approval; Change in Intake of various programmes of CSPIT**

**Proceedings JM-15.22.04:**

Dr. Y P Kosta, Principal, CSPIT gave information about the proposed changes. He expressed the need looking to the demand-supply scenario, future needs of Industry and NBA stipulations. He suggested starting of new course, reduction / closure of courses. The summary is as follows:

• **Starting of New course(s):**

Sr. No	Branch	Exiting Intake	Proposed intake	Additional Course
<b>UG Course</b>				
1.	Computer Science & Engineering (Artificial Intelligence and Machine Learning)	00	60	Additional Course

• **Reduction of courses and Closure of courses:**

Sr. No	Branch	Exiting Intake	Proposed Intake 2022-23	Reduction/ Closure
<b>Courses (UG)</b>				
1.	Electrical Engineering	60	30	Reduction
2.	Civil Engineering	90	60	Reduction
3.	Electronics & Communication	120	90	Reduction
4.	Mechanical Engineering	120	60	Reduction
<b>Courses (PG)</b>				
1.	Embedded System & VLSI Design	18	00	Closure
2.	Electrical Power System	18	00	Closure

Provost had convened a meeting of Principal, Dean and HoDs to review the proposal in the light of:

- Admission scenario of past five years across State & India
- Industry demand for next five years across India & World.
- NBA requirement

Subsequently, changes as above were finalized and being put for approval.

Dr. Y. P. Kosta also gave information about collaboration with Gujarat Pollution Control Board (GPCB) regarding launch of P. G. Diploma program on Environmental Auditing, Monitoring & Technology” in July 2022 in collaboration and consultation with GPCB. This program is developed to create awareness and impart knowledge in the growing area of environmental audit of industries. It will equip the students to critically evaluate the regulatory compliance by industries and to observe any deviations. Sampling and analytical techniques, reporting of the results, preparation of Environment Audit Reports Field visits, etc. will be the part of the proposed Post Graduate Diploma program. At the end of the program, students' will be able to carry out environment audits as per Gujarat Pollution Control Board (GPCB), Gandhinagar laid down guidelines.

**Resolution JM-13.21.04:**

The Body approved the changes, starting of new programmes, reduction /closure of programmes, as suggested by the Principal, CSPIT and directed to take initiative in the field of Energy Audit similar to Environment Audit.

**Items on Financial Management**

**Item JM-15.22.05: For Information and Approval;** The Accounts of financial year ending on 31<sup>st</sup> March, 2022

**Proceedings JM-15.22.05:**

The Registrar presented the Audited Annual Accounts for CHARUSAT & its Constitutes for approval. He also presented the analysis of Audited Annual Accounts.

**Resolution JM-15.22.05:**

The Body approved the Accounts for the Financial Year 2021-22. It appreciated the Account team for timely and diligent accounts preparations.

**Item JM-15.22.06: For Information and Approval;** Budget for the Financial Year 2022-23

**Proceedings & Resolution JM-15.22.06:**

The Registrar presented the budget of coming financial year as approved by Finance Committee vide its 48<sup>th</sup> meeting held on 29<sup>th</sup> March, 2022.

The Body approved the Budget.

**Item JM-15.22.07: For Approval;** Minutes of Finance Committee Meetings

**Proceedings JM-15.22.07:**

The Registrar informed that the 47<sup>th</sup> and 48<sup>th</sup> meetings of Finance Committee of CHARUSAT were held on 19<sup>th</sup> October, 2021 and 29<sup>th</sup> March, 2022 respectively. He presented the salient features of the Meetings as follows:

**Salient Features of 47<sup>th</sup> and 48<sup>th</sup> Finance Committee Meetings:**

- Approval of purchase of Equipments worth Rs. 157.22 Lakhs from 01/10/2021 to 31/01/2022
- Approval of purchase of Furniture & Fixtures worth Rs. 79.08 Lakhs from 01/10/2021 to 31/01/2022
- Approval of budget of Rs. 40.76 Lakhs for purchase Mannequins for nursing laboratories at MTIN



- Approval of renewal premium of Rs. 1.21 Crore for Gratuity
- Approval of budget of Rs. 20 Lakhs for the purchase of 40 seated Bus for Nursing, Physiotherapy and Paramedical Students
- Approval of budgeted expenditure of Rs. 12.52 Lakhs for AIU Inter University Sports Tournament
- Approval of budget Rs. 6.87 Lakhs (Including Stall rent Rs. 5.90 Lakhs + Other Expenses Rs. 0.97 Lakhs) for Participation in Vibrant Gujarat [ENGIMACH 2021] at Gandhinagar during December 01-05, 2021.
- Approval of budget of Rs. 9.21 Lakhs for expansion of University Fitness Center (UFC)
- Approval of Financial Assistance of Rs. 7.31 Lakhs to organize International Conference icSoftComp 2022
- Subscription of E-Journal packages of Rs. 1.2 Crore for Library

The Registrar presented the minutes of the meetings (without annexures) to the Body.

**Resolution JM-15.22.07:**

The Body noted and approved the minutes of the 47<sup>th</sup> and 48<sup>th</sup> meetings of Finance Committee meetings held on 19<sup>th</sup> October, 2021 and 29<sup>th</sup> March, 2022 respectively.

## **Items on HR Management**

**Item JM-15.22.08: For Information and Approval; Rotation of Deans / HoDs**

**Proceedings JM-15.22.08:**

Registrar shared that CHARUSAT, for its academic and administrative governance, has adopted a mixed model. For academic governance, dimension of curricula design, curricula transaction and curricula assessment, Faculty Board and Board of Studies have been formed. The Faculty Board are to be headed by the Deans.

The constituent institutes and / or departments thereof form the organization University/Academic Units. They are headed by the Principals /HoDs and the case may be. The policy is applicable for Deanship / HoDship.

**Resolution JM-15.22.08:**

The Body approved the policy for Rotation of Deans / HoDs.

**Item JM-15.22.09: For Information; Appointment/ Resignation/ Deputation of teaching and non-teaching staff**

**Proceedings and Resolution JM-15.22.09:**

Registrar gave information regarding the new joiners and the resigned employees as well as Summary Report of all the employees of CHARUSAT. The Body noted and approved deputation, resignation and appointments as presented.

The Body suggested to show a separate list of employees who got migrated from Fix-pay to Grade-pay from next meeting onwards and also to present employee turnover figures.

**Item JM-15.22.10:** Any other item with the permission of the Chairman

**15:22:10(a): Regarding development of campus @ Kathlal, Dist: Kheda from June, 2019**

**Proceedings and Resolution:**

The President informed the Body that Vakil K M Education Society Trust (KME), Kathlal, Dist. Kheda had approached to offer their land and existing premises for beginning of a Charusat Institute. Registrar informed that it can be undertaken if the lands is leased to Charusat. President directed to present a feasibility report identifying programmes that can be started at Kathlal Campus, financial projection etc.

**15:22:10(b): Approval of Merit based Scholarship Scheme for Charusat Student.**

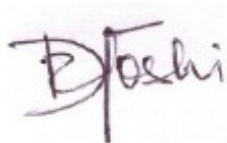
The Registrar informed the body that to attract brilliant students to Charusat in this competitive scenario It is suggested to introduce Merit Based Scholarship Schemes for all programmes of Charusat. He added that Finance Committee has already approved based guidelines as under:

- 5% students of programme intake should be beneficiary. i.e. for every 60 students intake, 3 students can be beneficiaries of the scheme.
- The beneficiary student should maintain a stipulated level of academic performance to continue his/her benefit.
- The benefit can be from 100% fees waiver up to 25% of fees waiver.

He added that F/C has suggested a committee to frame detail guidelines of the scheme for each programmes.

**Resolution:** The body approval introduction of the Merit based Scholarship Scheme. It authorized Provost to approve recommendation of sub-committee formed by Finance Committee.

*There were no other items, hence the meeting ended with the Vote of Thanks to the Chairman.*

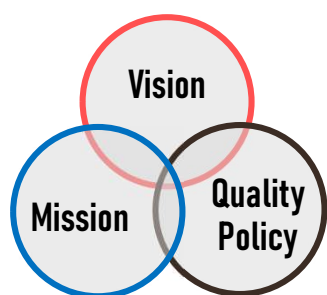


**Devang Joshi**  
**Registrar**

Date: 18<sup>th</sup> May, 2022

Presentation in GB (Date 21<sup>st</sup> April 2022)  
 Progress report  
 [As per last GB resolution ]

## CHARUSAT –Vision Mission and Quality Policy



**CHARUSAT**



VISION

To become a dynamic global institution in a knowledge driven world through excellence in teaching, research and social contributions



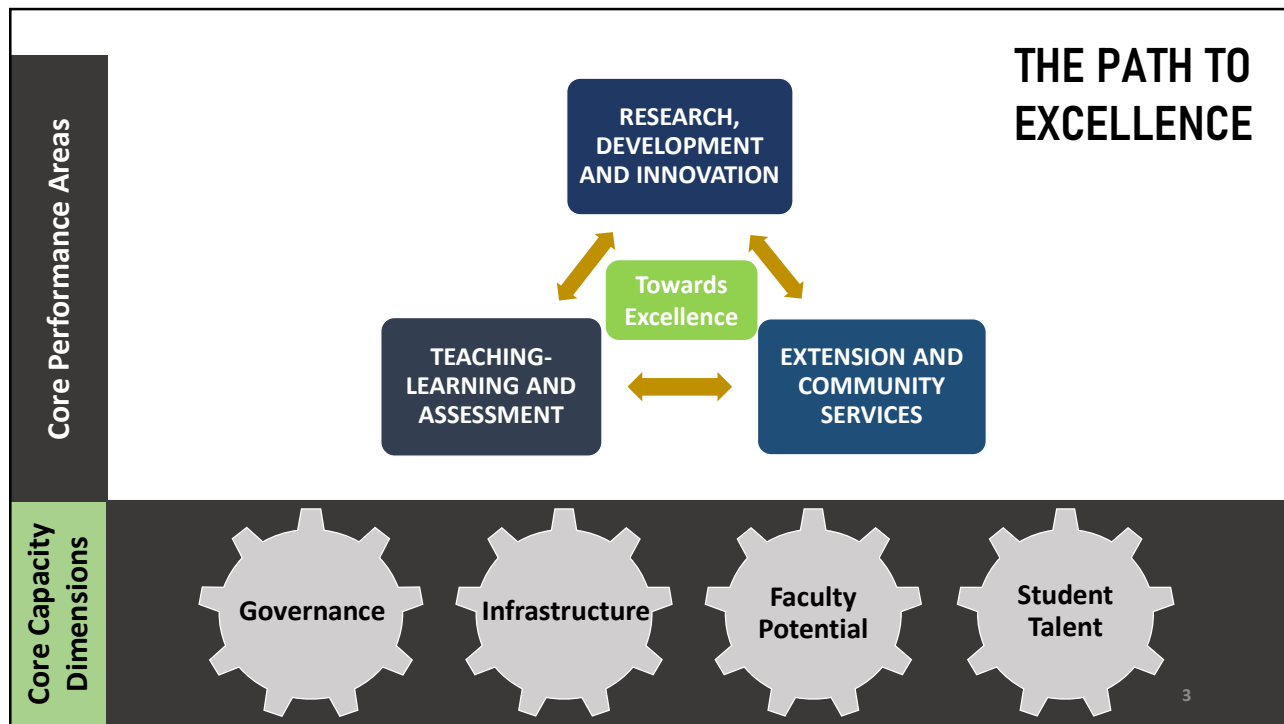
MISSION

To serve society by striving to transform it through creation, augmentation, dissemination and perpetuation of knowledge



Quality Policy

CHARUSAT is committed to quality in all its endeavors like teaching-learning, research and extension; to foster an intellectual culture; and develop graduates for a life of purpose, service and leadership.



## First step

### To consolidate first what exist then expand

- The mission of the university is to **transform the knowledge created** at the service of society. At the same time, the University also aspires to become the **country's premier university** over the next ten years.

→ Action taken

- NIRF**- ranking: An initiation is taken for applying NIRF. **Four institutes** have applied this year.
- NBA**- Engineering departments were asked to submit the need analysis as well as status. Based on the inputs departments were asked to proceed for NBA accreditation.

## Student centric activities (Sept-April 2022)

### Foundation course:

- Separate laboratory space is allotted for the each labs.
- New recruitments were made.
- The courses will be formulated on workshop mode.

### Other initiatives

- IELTS exam center established at IIIM
- Start-up support scheme.
- Charusat Undergraduate fellowship (UGSF) to promote research aptitude among students.
- Charusat Merit scholarship (100% ): 5% students. (In line with NIRF/CoE)

5

## Academic: @ CHARUSAT

1. Teaching learning & evaluation
2. Technology automation

Stimulate **productivity**

Reinforces the importance of the **university on a national scale**.

How do we make it better?

Faculty student ratio (FSR)

High-quality **Faculties**

Adjunct professors.

Practical/Skilling  
Laboratory Teaching  
Validating principles



Digital  
Minimum Digital Literacy  
Programming,  
Artificial Intelligence



**Student**

Theory/Tutorial  
Classroom Teaching  
Fundamental knowledge



Practice  
Projects, Industrial/  
Clinical  
Training/Communities &  
Societies



6

## Actions under taken: FSR

### Institute wise status

Institute	FSR (31/3/2022)	Appointed (1/9/2021-1/4/2022)
CSPIT	19.6	09
DEPSTAR	27.2*	12
CMPICA	37.4*	7
PDPIAS	18.0	11 (Includes Foundation course)
RPCP	16.6	6
IIIM	20.6	22
ARIP	13.8	6
MTIN	10.7	6
BDPIS	18.7	3
Total		82 (PhD:34/pursuing18)

**AV: 20.2**

**Off-center and  
continuous  
recruitment drive.**

7

## To recruit High quality Professors

### Actions under taken

- Professor/Associate professors requirements at each faculties are identified and process to upgrade/appoint is under process. (dead line 1<sup>st</sup> July 2022)
- A policy is drafted to appoint Professor/Associate professor of Practice. (dead line 1<sup>st</sup> Sept 2022)
- **Adjunct** professor list is invited from the Deans of faculties. (present: **10**)

8



## Pedagogy & automation

- More attention is focused on skills and learning than teaching.
  - Efforts in this direction have already been initiated at CHARUSAT.
  - *The outcome of these efforts put forward by each faculty members will be reflected in next academic council meeting.*
- 
- Technological automation forms an integral part of teaching and learning.
  - That's what's happening at CHARUSAT right now, and there are positive outcomes that are evident at the university level. (appreciated in NAAC)
  - This year university is planning to have at least one **SMART classroom** at every institutes. [ Present: **4 SMART** classrooms]

9

## New Programs to be Introduced

### Programs

Program	Faculty	Title
M. Pharm	Pharmacy	Phytopharmacy & Phytomedicine
M. Pharm	Pharmacy	Pharmaceutical Chemistry
BBA	Management	Business Analytics
BBA	Management	Entrepreneurship & New venture management

**Number of certificate courses** are identified by different faculties as per NEP-2020 guidelines. **These courses will be approved by respective boards and finally will put forward for academic council for approval. [Before 1 June 2022]**

10

## Research & Innovation

*This recognizes the university at the national/international level.*

Projects received **Sept 2021-April 2022**

Faculty	Number of Projects	Amount in lacs
Science	06	126.1
Technology & engineering	04	036.7

Efforts made to improve the project funding:

- Each faculty member is asked to submit the funding agency at least one project.
- In academic planning meeting it has been told to each heads to initiate at least 5 lacs project per Ph. D faculty per year.
- The submitted projects to Govt. funding agencies (~10).

**Action needed: To encourage and help the faculty to write the project.**

11

## Research & Innovation

**Publications : Sept 2021-April 2022**

Publication in	Number	Scopus/WoS
International Journal	121	85
National Journal	06	(UGC-CARE 30)

- Action needed: At-least two publication/faculty member
- WoS journal publications only required now onwards for better rating of university.

**University H-indexed: 53**

Year	Scopus journal	Scopus Citation
2021	315	9372
2022 (April)	94	3662

PhD	Number	PhD Staff	others
Awarded till today	217	182	35
Pursuing	340	150	190
Supervisors	155	114	41

12

## Research & Innovation

MoU (academic & Research) : Sept 2021-April 2022

Institute/organization	Purpose
Bhaikaka University	Teaching-learning & clinical training
Mahagujarat Medical society	Teaching & clinical training
Smt Malini Kishore Sanghvi Homeopathic Medical College	Research
Motorola Solution & research	Research & Innovation & Training
Federation of Gujarat Industries	Certificate courses , industry exposures and Research Collaboration
Sorting Hat Techno. Pvt. Ltd	Orientation & mentoring for students & faculties

13

## Research & Innovation

### EV-vehicles by Students



Battery	LFP Battery- 120Ah, 60V
BLDC motor	3000 W, 60 V
Seating Capacity	6 People
Charging Time	6-8 Hours
Speed	40-45 Km/Hr
Capacity	1250 kg
Budget	Rs. 6.44 Lakhs



14

## New Initiatives



- MOEF&CC recognition of Environment Engineering laboratory
- NABL-Concrete Technology Laboratory (NC-reports pending)
- NABL-Geotechnical Engineering Laboratory (Under process)
- NABL-Medical Testing Laboratories (under process)
- Collaboration with GPCB. (Joint conference is on 25<sup>th</sup> April 2022)
- Gym facilities were established @Girls Hostel
- Walk-way created around CHARUSAT pond

15

## Last Mile Preparation of NAAC (Sept-21 to 11<sup>th</sup> Feb 2022)



- Stockholder's motivation and interaction
- Documents verification
- **Department wise presentations**
- Mock-presentations and Interactions with experts
- **Infrastructure refurbishing** (within and out side institutes)
- Provost Presentation Mock round with experts.
- **Final presentation round with faculties.**

**Supports received from all is acknowledge here**  
**Special Thanks to IQAC-TEAM**

16

## Outcome of Joint efforts

- **Center of Excellence:** Govt. of Gujarat
- **NAAC grade A** in Second Cycle (under appeal for A+ grade)
- **Up-gradation of Data center:** Smart racks were installed and it is under operation.
- 85-Virtual servers, 80 Wi-Fi access points, ~4000 Desktops.
- **FSR is achieved** @university level.
- Charusat Innovative Ventures Foundation (**CIVF**) (section 8 company) formed.

17

## What next? [April-Sept 2022]

- To complete the policies as discussed earlier for Professor & Associate professor of practice. [**Before June end**]
- The appointments/up-gradation of faculties for next posts under CAS [**Before July 2022**]
- Efforts to apply for 12B under UGC. (**Must for future growth**)
- Curriculum development based on NEP-2020. [**Before June end**]
- More number of National/International collaborations.
- **Strategic plan for (2022-26) [by end of May-2022]**
- **Administrative restructuring**

THANK YOU

18



# **YEARLY STATUS REPORT - 2020-2021**

Part A	
Data of the Institution	
1.Name of the Institution	Charotar University of Science and Technology
• Name of the Head of the institution	Dr. R V Upadhyay
• Designation	Provost
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02697-265015
• Mobile no	9427215242
• Registered e-mail	Provost@charusat.ac.in
• Alternate e-mail address	
• City/Town	Charusat Campus, Changa, Anand
• State/UT	Gujarat
• Pin Code	388421
2.Institutional status	
• University	Private



• Type of Institution	Co-education				
• Location	Rural				
• Name of the IQAC Co-ordinator/Director	Dr. Mayur Sutaria				
• Phone no./Alternate phone no	02697-265037				
• Mobile	9426371641				
• IQAC e-mail address	coordinator.iqac@charusat.ac.in				
• Alternate Email address	mayursutaria.iqac@charusat.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	<a href="https://charusat.ac.in/iqac/naac/2019_20/">https://charusat.ac.in/iqac/naac/2019_20/</a>				
4.Whether Academic Calendar prepared during the year?	Yes				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.11	2016	25/05/2016	24/05/2021
6.Date of Establishment of IQAC			19/04/2012		
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	
Nil	Nil	Nil	Nil	Nil	
8.Whether composition of IQAC as per latest NAAC guidelines			Yes		
• Upload latest notification of formation of IQAC			<a href="#">View File</a>		
9.No. of IQAC meetings held during the year			2		
• The minutes of IQAC meeting and compliance			Yes		

to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)	
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>	
11. Significant contributions made by IQAC during the current year (maximum five bullets)	
1. Academic and Administrative Audits (AAAs) of the constituent institutes/departments and allied cells/centers/departments. 2. Preparation, compilation, and submission of IIQA and SSR. 3. Improvising the existing e governance system to develop a single point data capturing system, for streamlining the operations. 4. Documentation and facilitation of the procedure towards NIRF rankings, GSIRF (Gujarat State level) ratings and Centre of Excellence (CoE Gujarat State level) award, and SIG Campaign. 5. Imparting training for mapping COPO and assessment of attainment for the programs offered by the university, towards strengthening Outcome Based Education system.	
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
Apply for NIRF ranking	<ul style="list-style-type: none"> <li>NIRF 2021 data was submitted on 19th February 2021.</li> <li>P D Patel Institute of Applied Sciences secured 22nd rank nationally in 'college category' in NIRF India Ranking 2021.</li> <li>CHARUSAT retained position in the ranking band of 151-200 in NIRF India Ranking 2021.</li> </ul>
Academic and Administrative Audit (AAA) of constituent institutes and allied departments	<ul style="list-style-type: none"> <li>An orientation to the activity was undertaken by an internal committee at the end of the odd semester, while a team constituted by the Provost conducted the audit at the end of the academic year for all the 9 constituent institutes and 17 allied departments.</li> <li>Feedback of Institutional performance from previous AAA audit was also</li> </ul>

	communicated to respective institutional heads for self-assessment and future plan of action.
Review, introspection and amendments of the existing policies required for the functioning of the University	<ul style="list-style-type: none"> <li>University policies/ guidelines/ Standard Operating Procedures (SOPs) etc. are reviewed in IQAC meetings or close-group meeting with relevant in-charges and amended in line with the quality criteria suggested by NAAC as well as through self-assessment with reference to peers. The amendments are then notified.</li> </ul>
Preparation and submission of Annual Quality Assurance Report (AQAR)	<ul style="list-style-type: none"> <li>AQAR for AY 2019-20 was submitted on 31 December 2020, as per directive of the NAAC.</li> </ul>
Regular communications across the University to create awareness regarding changing policies of important regulatory bodies in academics like UGC, AICTE etc. as well as accreditation bodies like NAAC, NIRF, GSIRF, as applicable.	<ul style="list-style-type: none"> <li>General awareness has been created and the institutes and its stakeholders have been encouraged to plan their goals and mode of operation accordingly.</li> <li>Previous year rankings/ratings and audit outputs were analyzed and communicated to respective institutes to enable self-assessment and goal statement with respect to the changing guidelines.</li> </ul>
Review of CHARUSAT Strategic Plan	<ul style="list-style-type: none"> <li>Review of CHARUSAT Strategic Plan (2015-16 to 2019-21) for the achievements.</li> </ul>
Conferences/seminars/expert talks to be conducted on quality and research topics by Institutional IQAC	<ul style="list-style-type: none"> <li>FDP under the theme of "Interdisciplinary Research at CHARUSAT" for Research supervisors of CHARUSAT from December 14-17, 2020.</li> <li>Webinar on Vision of India's new education system "National Education Policy 2020" on April 27, 2021.</li> <li>Various research group activities conducted by mathematics faculty members during January- February, 2021.</li> </ul>
Enhancing curriculum by focusing on Out Come Based Education (OBE).	<ul style="list-style-type: none"> <li>A dedicated committee was constituted to review, facilitate and strengthen OBE at CHARUSAT.</li> <li>Sub-committees having representatives from all the institutes have been constituted and oriented to strengthen OBE.</li> </ul>
13. Whether the AQAR was placed before statutory body?	Nil

<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name	Date of meeting(s)
Nil	Nil
14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	Nil
15. Whether institutional data submitted to AISHE	
Year	Date of Submission
2020	23/01/2020

Extended Profile	
<b>1. Programme</b>	
1.1 Number of programmes offered during the year:	55
1.2 Number of departments offering academic programmes	6
<b>2. Student</b>	
2.1 Number of students during the year	8161
2.2 Number of outgoing / final year students during the year:	2067
2.3 Number of students appeared in the University examination during the year	8150
2.4 Number of revaluation applications during the year	26
<b>3. Academic</b>	
3.1 Number of courses in all Programmes during the year	1235
3.2 Number of full time teachers during the year	404
3.3	405

Number of sanctioned posts during the year	
<b>4. Institution</b>	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	151710
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	437
4.3 Total number of classrooms and seminar halls	141
4.4 Total number of computers in the campus for academic purpose	3513
4.5 Total expenditure excluding salary during the year (INR in lakhs)	5260.05

Part B
<b>CURRICULAR ASPECTS</b>
<b>1.1 - Curriculum Design and Development</b>
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University
<p>Charotar University of Science and Technology (CHARUSAT) caters diverse opportunities under the ambit of six faculties viz. Faculty of Technology and Engineering, Faculty of Pharmacy, Faculty of Computer Science &amp; Applications, Faculty of Management Studies, Faculty of Sciences and Faculty of Medical Sciences. The curricula of various programmes are developed through a well-defined procedure considering societal needs, feedback from stakeholders, stipulation of various regulatory bodies e.g., UGC, AICTE, PCI, INC, GSCPT, competencies of aspiring graduates, prospective opportunities as well as the government initiatives e.g., Make in India, Start-Up India etc. The vision and mission of the university have relevance to the local, national and global needs which are reflected in program outcomes (PO) and course outcomes (CO). The POs are mapped with United Nations' sustainability goals, ethics, effective communication skills, etc. The specific, realistic and tangible COs are aligned with minimum one PO, to facilitate mapping. The university has identified the dynamic competencies and adopted the graduate attributes so that the graduates should possess the knowledge and skills in accordance with the prevailing industry requirements, prevailing</p>

thrust areas of research and entrepreneurial potential, with a focus to empower the graduates in solving the societal issues and serving the nation.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

22

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

##### 1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

1196

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.2 - Academic Flexibility

##### 1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

48

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

##### 1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

53

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.3 - Curriculum Enrichment

##### 1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum



CHARUSAT has designed student-centric curricula for all the programs in line with national and international practices, to promote self-learning, peer-learning and holistic development of the learners. The core component of courses entitled Philosophy for Life, Society, Governance & International Studies, Human Values and Professional Ethics, Contributory Personality Development, Introduction to Law and Justice in India, Pharmaceutical Jurisprudence, Advocacy in Physiotherapy, Ethics in Research, Creativity Problem Solving and Innovation, Environmental Sciences, Organizational Behaviors are directly linked with crosscutting issues relevant to Human Values, Professional Ethics, Gender Equality and Environment and Sustainability. A course entitled Sustainable developmental goals (SDG) Handprint lab offered in collaboration with Centre for Environment Education, challenges the students to understand the goals and targets in a selected geographic area and design solutions. Non-discriminative environment on campus is bolstered through Women Development Cell, Equal Opportunity Cell, Cell for Prevention of Sexual Harassment. Professional ethics including honesty, transparency, fairness and equity are inculcated through courses as well as involvement of students in financially accountable organization of diverse activities, inter-departmental teamwork, Plagiarism check and appropriate acknowledgement in academic/research writings. Students are sensitized towards human values and societal responsibilities through volunteering in social development activities by NGOs and NSS.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

8

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

#### 1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

1396

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.3.4 - Number of students undertaking field projects / research projects / internships during the year

3342

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 1.4 - Feedback System

**1.4.1 - Structured feedback for design and review of syllabus - semester wise / is received from Students Teachers Employers Alumni**

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.4.2 - Feedback processes of the institution may be classified as follows**

- Feedback collected, analysed and action taken and feedback available on website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### TEACHING-LEARNING AND EVALUATION

#### 2.1 - Student Enrollment and Profile

##### 2.1.1 - Demand Ratio

##### 2.1.1.1 - Number of seats available during the year

2691

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)**

**2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

430

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 2.2 - Catering to Student Diversity

**2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners**

Unique set of skills, abilities and competencies in every student, key to their career progression, are analyzed to identify slow learners as Easy Paced Learners (EPL) and advanced learners as Fast Paced Learners (FPL). The mechanism to identify EPL and FPL involves:

1. Entry Level Competency Test
2. Admission Rank
3. Counselling Session
4. Performance in examinations

A specialized test is arranged for first semester students to identify their competencies in various areas. Its output is analyzed to counsel and groom the student through a robust-mentor system. The merit rank of the student additionally implies academic orientation and competency.

Choice Based Credit System is implemented to facilitate capacity-driven progression of both EPL and FPL. Besides, the following special activities are conducted for advanced learners

1. Summer Research Programme
2. Expert sessions and add-on courses
3. Research Projects
4. Career guidance and aptitude building programs
5. Preparatory sessions for competitive examinations
6. Organizing workshops/seminars on scientific/technological/management advances and financial assistance to participate in such events
7. Felicitation of achievers during annual day function

Following activities are conducted for slow learners

1. Remedial classes
2. Individual academic counselling
3. Conduction of internal improvement test
4. Counselling by Psychologist to the needy students

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	Nil

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
8161	404

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

### 2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

CHARUSAT has adopted outcome-based education approach and student-centric methodology in teaching-learning process, while ensuring holistic development of the students. Experiential learning, participatory learning and problem-solving methodologies are extensively used as pedagogical tools, implemented using following strategies.

**Experiential Learning: Translation of classroom knowledge into practice and applications**

- Extensive laboratory component in curricula and state-of-the-art lab setup
- Industrial training and visits to give exposure to the corporate/company culture
- Summer trainings, on-site trainings and clinical postings
- Training through supervised funded research projects, industrial projects and dissertation, with interdisciplinary components

**Participatory Learning: Imparting management skills and problem-solving capacities**

Interpersonal skills, attitude of peer-learning, time management and problem-solving capacities in students are enhanced through following pedagogical components like

- Group discussions and Group projects
- Involvement in organizing Workshops/techfests
- Assignments and presentations
- Integration of MOOCs (e.g. SWAYAM, NPTEL)
- Hackathons, technical competitions
- Online learning modules
- Role play, community visits

**Problem Solving Methodologies**

Case-studies from management and administration, Patient-based Case studies, Comprehensive design problems, Industrial applications and Software projects, Research problems and Solutions, Pharmacotherapy-based Case-studies are several problem-solving methodologies employed to enable students to observe, understand, evaluate, and find solutions to local/regional problems. A dedicated course on Creativity, Problem solving and Innovation is offered to all the students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

CHARUSAT extensively integrates use of the ICT-enabled tools with the traditional classroom education, to adopt blended learning

approach. Efforts have been taken by the university to provide e-learning environment through following measures

- Classrooms and laboratories fully furnished with the multimedia projectors, digital interactive boards and writing pads
- On-campus internet speed of 1150 MBPS
- Mandatory use of LMS
- Well-trained faculty

CHARUSAT employs following ICT-enabled tools:

1. DELNET equipped CHARUSAT library for resource sharing and access to books, journals, technical reports, etc. through the OPAC
2. Collaborative LMS resources (Microsoft Teams, Edmodo, Google Classrooms)
3. Virtual and simulation labs
4. Media lab facility to create and share video lectures
5. Online quizzes and polls to record student's feedback
6. Teacher-owned/managed YouTube channels and blogs to provide a modern and accessible interface
7. Licensed use of Video Conferencing software like Zoom for interactive expert sessions
8. Promoting learning through MOOCs like NPTEL, Udemy, Coursera. CHARUSAT has purchased the license of NPTEL and has its' NPTELLocal chapter in addition to the LMS.
9. Tie-up with Coursera to offer the advanced courses to the teachers and students

Well prepared ICT infrastructure and well-trained faculty enabled smooth academic progression even during the pandemic-imposed restrictions.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues during the year

#### 2.3.3.1 - Number of mentors

365

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Total Number of full time teachers against sanctioned posts during the year

404

File Description	Documents
Upload the data template	<a href="#">View File</a>

Upload relevant supporting document	<a href="#">View File</a>
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**2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. during the year**

153

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.4.3 - Total teaching experience of full time teachers in the same institution during the year**

**2.4.3.1 - Total experience of full-time teachers**

2861

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year**

64

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.5 - Evaluation Process and Reforms**

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

**2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year**

15

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

26

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>



2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

Evaluation is a crucial aspect of the teaching-learning process, enabling successful academic progression of students. The Examination Reform Committee continually reviews the exam management procedures and recommends IT-integrated automation for improvisation. Effective examination system is executed through IT software called e-Governance.

Continuous internal assessment conducted at Institution level involves

- Sessional examination of theory component through Unit Test, Assignment, Presentation, Case Study etc.
- Evaluation of practical component through regular lab performance, practical exam and viva-voce.

End-Semester Assessment usually is conducted through regular written paper/practical test/oral test/presentation or a combination of these.

Some of the Key Exam Reforms adopted during online/hybrid teaching

- Increased accountability of the evaluation process through "Know Your Answer Book" scheme for online exams, allowing personal verification of answer book in presence of Parents, Course Convener, Dean of the Faculty and provost nominee.
- Well-proctored Digital Paperless Examination using exam-from-home module of PEXAlite software
- Evaluation of practicals in hybrid teaching mode, through task-based examination, followed by viva-voce using Microsoft Teams
- Conduction of internal examinations through Google classrooms and dedicated storage of question papers and answer-books
- Timely publication of results and issuing necessary certificates to facilitate timely placement and progression into higher studies for students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.5.4 - Status of automation of Examination division along with approved Examination Manual	A. 100% automation of entire division & implementation of Examination Management System (EMS)
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File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

CHARUSAT has focused on intricate development of curricula involving various elements of Outcome-Based Education (OBE). Considering the recommendations from regulatory bodies (i.e., AICTE, IEEE, UGC, PCI, GSCPT) and the stakeholders, the institutes/departments have evolved respective program outcomes (POs), course outcomes (COs), program educational objectives (PEOs) as well as Program Specific Outcomes (PSOs) (for Departments under Faculty of Technology), in alignment with well-defined Vision-Mission statement

#### Dissemination:

The elements of OBE systems are propagated across all the stakeholders through various platforms like

- Handbooks provided to the students during orientation sessions
- Library reference records
- University Website
- Physical displays at key locations in institute/university buildings

#### Implementation:

The practice includes

- Preparation of lesson planning and course content analysis before commencement of every semester
- Identification and specification of instructional objectives based on Bloom's Taxonomy
- Clear description of the knowledge skills and competency expected from the students
- Mapping of COs of all courses with respective POs in fastidious manner.
- Carefully drawing question papers to evolve the attainments of COs
- Critical mapping and review of attainment of POs

The students are made aware of such practices during their regular classroom sessions, tutorial meetings and counselling sessions.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

CHARUSAT has aligned teaching-learning methodology with the outcome based education (OBE) approach. Attainment of Program Outcome (POs), Program Specific Outcome (PSOs), and Course Outcome (COs) constitute the integral part of teaching-learning process at

the institutes. The attainments are also indicative of the effectiveness of academic activities.

Step 1: Defining Program Outcomes (PO) and Program Specific Outcomes (PSO)

Step 2: Defining Target level of each POs and PSOs

Step 3: Defining Course Outcomes

Step 4: Preparing Course Articulation matrix which/ maps each course with appropriate POs and PSOs.

Step 5: Evaluation of the Course Outcome is based upon data collection through following exemplary assessment.

Step 6: Attainment of COs

The attainment level is measured in terms of actual percentage of students getting set percentage of marks, as follows.

Table1: Attainment level

Level

1

50% student scored above 60%

Level

2

60% student scored above 60%

Level

3

70% student scored above 60%

Step 7: Analysis and action taken based on calculated attainment level and targeted attainment level.

Total attainments of particular program for all POs or PSOs are calculated from course wise attainment in all the faculties across CHARUSAT, analyzed and action is sought for further improvement, if needed.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

[Nil](#)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

CHARUSAT aims at fostering a quality research environment through

- Integration of research components across UG/PG curriculum
- Autonomy to faculty and students to pursue research in self-identified domains
- Well-structured research policy implemented through University Research Cell is uploaded on the university website. This includes
  - Promoting original research through plagiarism checks
  - Disseminating research through publications in SCOPUS/Web of Science indexed journals
  - Endeavours to obtain patents/security for inventions/innovations
  - Seed Research Grants
  - Administrative and infrastructural support to facilitate application of research grants to various funding agencies, with a support upto 30% of equipment grant for every sanctioned projects.
  - Financial support to researchers to participate in conference/workshops
  - Fellowships for UG, PG, doctoral and postdoctoral students
  - Consideration of research endeavours for career advancement of teachers
  - Research paper awards
  - Institutional Ethics Committee
  - Endowment Chair funds
- Developing research facilities through institutionalization and upgrade of
  - Dedicated research centres like Dr. K C Patel R & D Centre, CHARUSAT Space research Centre, NABL accredited labs for Oil & Environment, International Centre for Cosmology, Centre of Excellence in AI, Sophisticated Instrumentation Labs, Supercomputing facilities

- Regular infrastructure audit and policy to update the existing or replace the outdated equipment

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

77.95

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year**

03

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

04

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.5 - Institution has the following facilities to support research**  
 Central Instrumentation Centre  
 Animal House/Green House  
 Museum Media laboratory/Studios  
 Business Lab Research/Statistical Databases  
 Moot court Theatre Art Gallery

A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year**

06

File Description	Documents
Upload the data template	<a href="#">View File</a>

Upload relevant supporting document	<a href="#">View File</a>
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### 3.2 - Resource Mobilization for Research

**3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)**

32.33

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)**

136.2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year**

0.07

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3 - Innovation Ecosystem

**3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge**

CHARUSAT envisages to contribute successful job creators to the society. Entrepreneurship Development and Incubation Cell (EDIC) was established to create necessary eco-system for entrepreneurship and innovations. Through a range of initiatives, focused approach, collaborations as well as diverse support from Government of Gujarat, EDIC subsequently setup a CHARUSATSTARTUPANDINNOVATIONCENTRE in December 2020. Two student start-ups were supported in 2020-21 under the Student Startup and Innovation Policy (SSIP) initiated by Gujarat Knowledge Society, Commissionerate of Technical Education, Govt. of Gujarat,

Following major activities have been carried out under its aegis

- Training Program was organized for trainers/ researchers of Indian Academy for Self Employed Women – (IASEWA) unit of SEWA during March 01, 2021, to March 08, 2021

- Offered an International Online Certificate Program for Business Professionals on Agri – Business Entrepreneurship during March 05, 2021 to August 22, 2021
- Organized a Business Plan Development Workshop in Webinar Series mode for Pharma Professionals during September 25 to October 09, 2020
- Organized a workshop on Business Plan Development (Six-day value added e-Course on Entrepreneurship) during January 25-30, 2021
- Nine Entrepreneurship Awareness Workshop (EAW) were organized for different programs like Engineering, BBA, MBA, Physiotherapy etc.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year**

**3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year**

133

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year**

**3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year**

201

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### **3.4 - Research Publications and Awards**

**3.4.1 - The institution ensures implementation of its stated Code of Ethics for research**

**3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following**

- Inclusion of research ethics in the research methodology course work

**A. All of the above**



<ul style="list-style-type: none"> <li>• Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)</li> <li>• Plagiarism check</li> <li>• Research Advisory Committee</li> </ul>	
---	--

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website</b>	<b>B. Any 3 of the above</b>
---	------------------------------

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4.3 - Number of Patents published/awarded during the year</b>
<b>3.4.3.1 - Total number of Patents published/awarded year wise during the year</b>
<b>3</b>

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4.4 - Number of Ph.D's awarded per teacher during the year</b>
<b>3.4.4.1 - How many Ph.D's are awarded during the year</b>
<b>19</b>

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year</b>
<b>0.63</b>

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

#### 3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

57

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

E. None of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.5 - Consultancy

#### 3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

Strengthening Industry-Academica Interface is a major focus area at CHARUSAT towards becoming a research-driven academia. The University has engaged in consultancy with industries, peer organizations and other stakeholders of the society including partnered investment of intellectual and infrastructural capacity to provide solutions to a problem, validate/develop/improve a process or a product, offer a coursework or part thereof in organizations other than University, develop curricula for establishing new courses etc.

A well-defined University Policy segregates diverse consultancy initiatives into three broad categories viz

1. Individual Consultancy
2. Departmental Consultancy
3. Institutional Consultancy

The mechanism to enter into an agreement involves

- Proposal submission
- Review and discussion in the presence of university authorities and Industry client
- Mutual agreement of terms and conditions
- Implementation

This mechanism ensures that the academic community and the university are not subjected to financial and other risks, such as a conflict of interest.

Researchers/Faculty members are encouraged to involve in consultancy, through a liberal and mutual benefit sharing policy; 70% to be disbursed for Intellectual Inputs and 30% is with the university. A designated University Industry Interaction Cell (UIIC) is established to facilitate collaboration amongst academicians, scientists, and industry.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

57.15

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

#### 3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

CHARUSAT is driven to make extensive endeavours to drive desired impact on society and sensitise students towards the role of youth as responsible citizens in sustainable development through major activities like Health, Education and Nature Awareness Drives, Social Awareness Drives, Civic Awareness Drive and many more. CHARUSAT under its extension activity units- CREDP and NSS- organizes various activities including celebration/observation of Independence Day, Republic Day, International Day of Yoga, Constitution Day, Gandhi Jayanti, Sardar Jayanti, Annual NSS Camps etc. Nature Awareness drives encompasses volunteers involved in tree plantation on campus and nearby villages, spreading awareness about importance of water, saving injured birds, animals, etc. Under Health Awareness Drives activities like cleanliness drives/health awareness programs focusing on personal hygiene, sanitation, menstrual hygiene etc. in villages adopted under Unnat Bharat Abhiyan and other vicinity, have positively influenced the attitude and conduct of students, rural community, local vendors etc. These activities are also an attempt to align with the Swatchh Bharat Abhiyaan. The NSS/CREDP units have extensively collaborated with local government bodies to ensure implementation of Covid protocols and lockdown measures. These programmes/activities have brought about a remarkable change in the outlook and attitude of students and community towards life and society.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year**

**3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year**

**2**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

**63**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**

**3344**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.7 - Collaboration**

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**561**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

16

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

The university has actively engaged in creating and upgrading infrastructural facilities to ensure teaching-learning process of best standards while adhering with the recommendations by various state and national level statutory bodies.

. This includes

- 151 air-conditioned classrooms including seminar halls
- Classrooms integrated with modern ICT facilities to enable use of multiple pedagogical methods
- Easy access of classrooms/labs and other learning centres for differently abled individuals
- Over 3500 computers and 1150 Mbps internet connectivity on-campus; with Cloud ready infrastructure

The university houses well-equipped laboratories to facilitate skill development and experiential learning for students including but not limiting to

- SUPERCOMPUTER granted by the Government of Gujarat
- Super Micro server to enhance computational infrastructure
- Laboratories developed under SERB-DST/DBT funded research projects
- Pneumatics system, Hydraulic system and Modular production system with three MPS stations
- Artificial Intelligence Lab, Mobile/IoT Research Lab
- Robotics/Virtual Reality/Augmented Reality Research Lab
- NABL accredited Environmental Engineering Lab
- CHARUSAT Sophos Information Security & Research Lab
- Human motion analysis and research lab
- Computer Assisted Learning Laboratory (CALL)
- Exercise and fitness testing laboratory
- Aseptic Laboratory/Cell culture Lab
- Animal house for preclinical Research
- Pharmacognosy Drug Museum and Herbal Garden
- Tinkering Lab
- Nursing Foundation lab
- I.C. Engine Lab

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

CHARUSAT has extensive facilities to promote sports and cultural activities among students. The university has two playgrounds with a total area of 32,434 square meter (sqm) and two gymnasiums (275+180 sqm) with modern fitness equipment. Existing playgrounds are equipped for sports like Cricket, Football, Handball, basketball, Athletics, Volleyball, Kabaddi and Kho-Kho. Another playground with a size of 10,652 sqm have been proposed for development in near future.

Two Open-air theatres and nine auditoria located at various constituent institutes are used to organize various cultural events. These facilities were utilized for training, practice and inter and intra university competitions; two major ones being a week-long annual event 'SPOURAL' and 'VRUND'-The garba festival. Considering the mass participation involved, these celebrations have been avoided in the AY2020-2021 on account of pandemic guidelines

The university actively encourages and facilitates practicing Yoga and meditation. Dedicated yoga sessions are conducted for students, staff and the neighborhood community through in-house experts. A unique initiative called 'Yog Nrutya' was undertaken, to orient people towards yoga and fitness through practicing aerobics in the form of dance.

The university thus increasingly focuses on spiritual, physical and cultural wellbeing by promoting mindfulness, fitness and recreation.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.3 - Availability of general campus facilities and overall ambience

The general campus facilities include

- Fully furnished Principal's/HoD's/Dean's office for every institute, office rooms for University executives with interiors, furniture and fixtures. All offices and staff rooms are provided with separate restrooms
- Common Rooms (for boys and girls) with attached restrooms, lockers with furniture.
- Specialised facility for physically challenged persons includes specially equipped restrooms, ramps and lift.
- Outdoor and Indoor sports, fitness and recreation facilities
- Open-air theatres and Auditoria across all institutes
- Multiple food & beverage joints, canteens
- On-campus ATM and banking facility

- Well-guarded campus entrance
- Girls Hostel and mess
- Souvenir and general stores
- Parking area and pedestal walkways
- Water storage tanks and reservoirs
- Staff quarters
- Workshop

The overall ambience of the university campus is largely serene owing to a lush green layout and the farm-clad surroundings. The institute buildings are well-designed to surround a central courtyard. Cleanliness and ambience are maintained through dedicated housekeeping and gardening contracts along with the policies promoting environment-friendly practices from students and staff. A dedicated security team, supported by university policy also promotes a traffic-free environment. Utmost care is also administered to preserve the natural biodiversity and ecosystem across the campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

841.28

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

### 4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

CHARUSAT houses a central library as well as institutional libraries, enriched through institutional membership of DELNET, IIM-A, AMA, British Council Library, and AIMA, the benefits of which are accessible to over 8000 users. The library resources include books, rare books, e-journals, periodicals, CDs/DVDs/Floppies, Course Packs from IIM, Case studies, project reports and theses.

Cataloguing and acquisition of these are managed through SOUL 2.0, an integrated library management software, compliant to international standards. RFID and bar-coding system are used to computerize the bibliographic details of the resources.

Remote access to the library resources is provided through 'On Desktop Facility'. Librarians provide document delivery service digitally to selected students, research scholars and staffs on request.



Access of library resources to differently-abled users is facilitated through software like ABBY FineReader and NVDA, and E-Reader Instruments as well as doorstep services upon request.

#### Digitization Facility:

The University has D-Space (CHARUNIDHI) to build and update Institutional repository of research papers, theses as well as the collection of University Newsletter-CHARUSAT Comet, Journal published by University, memorial lectures, Convocation Addresses of Chief Guests, and newsletters of the patron organization. Through Cloud-based digitized services, Newspaper Clippings, Exam papers, Rare Books are also digitized for access through intranet.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources** Library has regular subscription for the following: e - journals e-books e-ShodhSindhu Shodhganga Databases

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

80.38

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)**

275

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3 - IT Infrastructure

**4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year**

141

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>



#### 4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

CHARUSAT primarily formulates and executes its IT policy through Wireless information and networking cell (WINCELL). WINCELL has established Cloud Ready Central Setup facilities and manages central IT services like Internet, e-mail, e-governance and other departmental/institutional servers.

##### Networking Policy

- Fibre, Ethernet and Wireless connectivity across the campus
- Modern network technology and equipment are procured, utilized efficiently and upgraded

##### Data Centre, Cloud Computing and Server Policy

- Management of IT services and portals by a Central Data Centre with cloud-ready infrastructure connected to Central Storage Area Network (SAN) and redundant power supply having fibre optic connectivity
- Incremental and full backup for all the server database

##### Cyber and Security Policy

- Gateway level firewall commissioned to protect WAN traffic
- Discrete usage procedures for different user-levels, with personalized login
- Annual internet bandwidth upgrade
- Regular monitoring of internet surfing reports
- Controlled social media access
- Antivirus solution to protect against computer viruses

##### Email Policy

- Separate proprietary email domains for students and staff
- Well-designed grouping for efficient email communication

##### Updating IT facilities

- Regular review of Data Centre considering technological updates and suitable allocation of budget
- Plan to replace conventional racks with smart rack at budgetary cost of Rs. 65 lacs.
- Technology to incorporate energy-efficient utilization

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
8161	3513

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)	<ul style="list-style-type: none"> <li>• <math>\geq 1</math> GBPS</li> </ul>
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File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing	A. All of the above
---	---------------------

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

4.4 - Maintenance of Campus Infrastructure
4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year
4418.77

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.
<p>CHARUSAT has Infrastructure Development and Maintenance Section (IDMS) comprising technical and administrative staff oversees (1) New Development and (2) Maintenance of buildings/class-rooms/laboratories and other facilities including emergency set-ups like sanitization tunnels. Institute-wise IDM committees are constituted to facilitate coordinated execution of maintenance activities.</p> <p>Up-to-date records of preventive maintenance, breakdown maintenance, and log book of machines/equipment are maintained by the Institutes. Interdepartmental verification of stock is carried at the end of every year and the missing/damaged items are written-off. Sophisticated equipment is covered under annual maintenance contract. Budgeted provision of 10-15% of Capital Related Expenditure is made each year for Maintenance expense.</p> <p>The IT services and computational facilities are maintained by Wireless Information and Networking Cell (WINCell) through a dedicated policy.</p>

Classrooms/Laboratories are effectively utilized as per timetables designed by each department/institute. Good Laboratory Practices are followed for correct utilization of lab equipment. Ventilation, aseptic area, fire extinguisher etc ensure safe utilization of facility.

A library committee is responsible for policy framing, implementation, monitoring and developmental aspects of the library. The maintenance of the library is practiced through yearly audits.

Dedicated staff in Sports and cultural section is allocated for regular upkeep of sports and gymnasium facilities.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

2376

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

6335

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution  
Soft skills  
Language and communication skills  
Life skills (Yoga, physical fitness, health and hygiene)  
Awareness of trends in technology

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	<ul style="list-style-type: none"> <li>• All of the above</li> </ul>
--	--

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

441

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.2.2 - Total number of placement of outgoing students during the year

898

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

524

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

## 5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events

(award for a team event should be counted as one) during the year

7

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

Students Council at CHARUSAT represents the Student Community in curricular, co- and extra-curricular initiatives for student welfare and institutional development. It comprises of student volunteers selected across all institutes and functions with the following objectives

#### Objectives

1. To promote and propagate life values in students.
2. To develop leadership skills, organizational skills and collaborative skills among students.
3. To enhance interaction among students of different faculties as well as within their own faculty.
4. To organize all-rounded co-curricular and extracurricular activities at Intra University and Inter University levels.
5. To raise awareness and encourage involvement in co-curricular and extracurricular activities among students.
6. To organize a variety of activities for holistic personality development of students.
7. To explore and bring out students potential and talents to the fullest.

#### Major activities by Student Council in AY2020-21

- Orientation Session for first year students
- Farewell Function
- Alumni Meet
- Annual Day
- Foundation Day
- Science Manthan
- Teachers Day
- Engineers Day
- National Science Day
- Independence Day
- Republic Day

The flagship events like Convegno, Cognizance, Ignite, usually organized by students' council; weren't organized owing to pandemic stringencies. Suggestions received from the council regarding sports/cultural facilities, event organization processes, academic improvisations etc, have been reviewed for needful consideration.

File Description	Documents
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Upload relevant supporting document		<a href="#">View File</a>
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**5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year**

11

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.4 - Alumni Engagement**

5.4.1 - The Alumni Association/Chapters (registered and functional)contributes significantly to the development of the institution through financial and other support services during the year

CHARUSAT Alumni Association (CAA) has been registered as a public trust at ANAND PRADESH, ANAND, as per year 1950 Mumbai Public Trust Act (Registration number: "F/1819/ANAND"). A total of 11,162 alumni are registered and connected on the CHARUSAT Alumni portal (<https://charusatalumni.org/>)

CHARUSAT Alumni contributions and achievements

- Built worldwide reputation for the university through their remarkable performances have and achievements in their respective areas worldwide.
- Recruited at senior positions in many multinational companies and provide better opportunities to our existing students in training and job aspects
- Motivate the existing students as speakers, experts and guest lecturers
- Sponsored various technical and non-technical events (workshops and conferences) organized by the university.
- Provide active feedback for academic and infrastructural enrichment
- Active interface with alma matter as member of university IQAC, Visiting Faculty members, member for Area Advisory Board, involvement in Mentor-Mentee program
- Share lateral job posting for fellow alumni on the Alumni platform
- Donations of funds and resources like books in CHARUSAT library Regular alumni meets occur twice a year (institutes) and annually (university level) to continually strengthen the alumni interactions.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**

A. ≥ 5Lakhs

File Description	Documents
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## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

CHARUSAT functions on four core values- honesty, integrity, transparency and social responsibility. The Vision and Mission statements of CHARUSAT

([https://www.charusat.ac.in/journey\\_of\\_charusat.php](https://www.charusat.ac.in/journey_of_charusat.php)) are:

#### Vision:

To become a dynamic global institution in a knowledge driven world through excellence in teaching, research and social contributions

#### Mission:

To serve society by striving to transform it through creation, augmentation, dissemination and perpetuation of knowledge

The key performance areas are

#### Academic excellence

- Semester-based programs through Choice Based Credit System
- Curricula aligned with national/international standards and needs
- Continuous refinement through feedback from stakeholders
- Emphasis on Outcome-Based Education through student-centric pedagogical innovations and faculty upskilling
- Regular exam reforms and automation
- Holistic development of students through mentor-mentee system

#### Research-driven empowerment of academics and society

- Well-structured policies for implementation of research projects, publications in national/international journals, IP security, consultancy
- Supporting Start-up and Innovation from students/faculty

#### Community services

- Adoption of villages under Unnat Bharat Abhiyaan
- Free primary education, affordable healthcare services and upgrading the civic substructure in near vicinity
- Infrastructural/research/academic practices inclined towards environmental sustainability

Governance: Transparent accountancy; No capitation fees/hidden costs to students, UGC pay scales, regular audits; involvement of Industrialists/academicians/philanthropists in Board of Management/Governing Body



Thus, CHARUSAT espouses and practices its mission and endeavours to follow its vision.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

#### Leadership at CHARUSAT

CHARUSAT believes in inclusive growth by involving all the employees in decision-making processes like recruitment, finance/purchases, admissions, infrastructural development, curricula development/transaction/assessment. Active consideration of feedback from all the stakeholders is ensured to strengthen these dimensions

1. Functional autonomy at the level of curricula development, transaction and assessment

Faculty members are given autonomy in curricula design, pedagogy, and components of continuous assessment. Curricular enrichment and pedagogical innovations are based on comprehensive analysis of feedback from various stakeholders.

2. Empowerment of the employees.

Faculty members are empowered to gain individual-centric professional development through

- autonomy to decide their respective goals and key performance areas (KPA) which are then appraised vis-à-vis self-appraisals
- autonomy to define research pursuits
- autonomy to procure equipment/software/books/other resources
- Facilitation to pursue PhD, with scholarships
- support to upgrade their knowledge in chosen domain and skills through training in industries/industrial sectors of their choice

Participative management:

Involvement of stakeholders like employers, industry, academia, scientists etc. as members in bodies like BoS, Faculty Board, Academic Council, Board of Management, Governing Body, recruitment panels etc. This facilitates efficient interaction with university officials likes Provost, Registrar, Deans, Principals, HoDs. Teachers and lab technicians also participate in purchase process.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed



CHARUSAT aspires to establish itself a leading national university and to realize this vision the university has developed and effectively implemented its five-year vision plans since its inception.

The Strategic Plan of CHARUSAT elaborates strategic action plans aligned with its vision, its past accomplishments, its strengths and resources, and challenges. The challenges identified by CHARUSAT are:

- Government Policies and (Lack of) Autonomy
- Competition and increasing the Brand Equity
- Resource Generation
- Reconciling Autonomy with Quality Enhancement
- Affordability of Higher Education to common mass
- Digital/ICT initiatives and ensuing disruption
- Availability and retention of outstanding faculty

The plan is being achieved by focusing on Research, Development and Innovation; Teaching, Learning and Assessment; and Extension and Community Service as the Core Performance Areas through Good Governance, Infrastructure, Faculty Competence and Student Talent as Core Capacity Dimensions.

Major initiatives towards its implementation are

1. Nation-wide advertisement for faculty recruitment,
2. Preferred appointment of PhD-qualified faculty with evident research output
3. Stake of students' feedback of faculty in annual performance appraisal
4. Human resource development through fostering attitude/knowledge enhancement/skill polishing
5. Research promotion through administrative, financial and infrastructural support under progressive research policies implemented by University Research Cell.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The University has well-linked organizational structure to facilitate participative decision making and execution.

For academic and research aspect, Board of Studies, Faculty Boards, Research Council and Academic Council are in place. For other aspects University Industry Interaction Cell (UIIC), CHARUSAT Rural Education Development Program (CREDP), Career Development and Placement Cell (CDPC) are in place. Advisory Boards, HR Committee and Finance Committee are also well functional. Decision of all these are discussed in Board of Management. The decisions of Board of Management are ultimately

taken up in Governing Body. The approach is both ways: top-down and bottom up. This approach ensures fast, efficient and effective decision making.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.2.3 - Institution Implements e-governance in its areas of operations

#### 6.2.3.1 - e-governance is implemented covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

Performance Based Appraisal System (PBAS) is designed in consonance with UGC; mainly based on self-appraisals vis-à-vis self-set annual goals. The performance assessment process for teachers involves

1. Self-assessment of annual performance in a structure proforma including following components

- Teaching-Learning-Evaluation related inputs
- Professional Development, Co-Curricular and Extension Activities
- Research contributions
- Students' feedback

2. One-on-one interactions with university-nominated panel

3. Sharing performance feedback and evaluation through formal communication

Career Advancement/Promotion scheme (CAS) for teachers is facilitated as under

- Submission of application after achieving desired qualifications (i) completing required years of experience (ii) obtaining Academic Performance Indicator (API) scores
- Granting CAS promotion based on recommendation of Screening cum Evaluation Committee

Performance appraisal/promotion of non-teaching staff is based on decided structure of their job profiles.

Effective welfare measures for teaching/non-teaching employees

**1. Allowances and Benefits as per Government Norms:**

- Dearness/Travelling/Medical Allowances
- Gratuity/Employee Provident Fund
- Leave Encashment
- Maternity/Paternity/Sabbatical Leave
- Opportunities for Self-Development:
- Facilitating higher study
- Financial assistance for career progression initiatives
- IELTS/APTIS Coaching
- Appreciations and felicitations in university-level functions
- Access to fitness facility
- Other Initiatives
- Medical Services at CHARUSAT hospital and insurance
- CHARUSAT Employees Consumer Co-operative Society Ltd.
- Day-care facility
- Fees Waiver/Financial aid schemes for Children/Spouse of CHARUSAT Employees
- On-campus banking services

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

30

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year**

77

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)**

264

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

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

Being an unaided institution, fund mobilization and its optimum utilization becomes a crucial aspect of resource management. The capital and current expenditure is borne through philanthropic donations, project funding, allocation from fees income, consultancy and internal resources.

Apart from dedicated fund allocated by the university, the research projects and organization of workshops/conferences/seminars/symposia/STTPs is financially supported from Government funding agencies. Endowment funds are received for offering specialized courses on 'Creativity, Problem Solving and Innovation' and Foundation of Basic Sciences or for hosting chair professors. Financial support for organizing curricular/extra-curricular activities is obtained from stakeholders/associates. Resources received in kind are used for experiential learning.

#### Efficient utilization of financial resources

- Annual financial budget reviewed by Financial Committee
- Maintenance of hard/soft records
- Internal and external audits
- Financial transactions based on Makers-checkers' concept
- Accounting through standard principles

#### Optimal utilization of other resources

- Procurement of equipment through institute/university-level purchase/finance committees
- Dedicated training sessions for upskilling the end-users
- Access to sophisticated instruments/software for users involving nominal charges
- Auditing maintenance/functioning of instruments through faculty in-charges and university-level committees
- Purchase of chemicals/consumables through e-governance via annual rate contracts Overall, the strategic goal is to build adequate corpus of resources and ensure their optimal utilization with maximum benefit for stakeholders.

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and

<b>V) (INR in Lakhs)</b>	
<b>15.59</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)</b>	
<b>585.64</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4.4 - Institution conducts internal and external financial audits regularly</b>	
<p>CHARUSAT has the mechanism of Internal and External Audit. Internal Audit is performed by the Internal Auditor for all the transactions of the University. The External Audit is undertaken quarterly by the Statutory Auditor. Both the auditors are qualified chartered accountants.</p> <p>The audited Accounts of the University are prepared within 10 days after 31st March of each Financial Year. As a result of Accurate and Precise Accounting, there have been no major audit objections.</p> <p>The finance committee appropriately considers audit remarks if any. The internal audit remarks are immediately addressed and the external auditors audit report is considered at the end of financial year.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.5 - Internal Quality Assurance System</b>	
<b>6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures &amp; methodologies of operations and learning outcomes at periodic intervals</b>	
<p><b>IQAC-CHARUSAT plays an instrumental role in planning, monitoring, reviewing, refining and reforming the academic, research and administrative functionalities of the university through</b></p> <ul style="list-style-type: none"> <li>• Academic planning/monitoring</li> <li>• Implementation of Outcome Based Education</li> <li>• Benchmarking quality practices in teaching-learning process, research and university operations</li> <li>• Implementation of University Strategic Plan</li> </ul>	

- Guiding peer organizations over quality practices

The two practices that have been successfully institutionalized as a result of IQAC initiatives are as follows:

#### 1. Academic and Administrative Audits (AAA) of its constituent institutes/departments/Cell and Centres

The Practice:

- Orientating and inviting annual plans
- Audit by Provost-nominated team including external experts
- Communicating the audit feedback to institutional heads for self-assessment and future plan of action.

Eventually, IQAC facilitates participation of university and its institutions in state/national level ranking and accreditation frameworks like NAAC, NIRF, GSIRF, NBA, NABL etc

#### 2. Implementation and strengthening of e-governance for streamlining of university operations

The e-Governance system is deployed largely on CHARUSAT intranet (private) network. IQAC plays the crucial role in developing single-point data capturing system and automation in operations like organizational set-up & security, HR, finance, academics and timetable, examination, purchase & inventory, feedback, as well as research activities like publications/project outputs/participation at various academic/research events, through e-Governance in a time-effective manner.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. Any 5 or all of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting documnt	<a href="#">View File</a>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and

subsequent cycles)

Multidimensional initiatives undertaken to ensure continuous quality improvement across academics, research and administration include

Quality Benchmarking

Institute

Ranking

PDPIAS (NIRF-2021)

22nd

CMPICA (GSIRF-2021)

★★★★★

CSPIT (GSIRF-2021)

★★★★★

RPCP (GSIRF-2021)

★★★★★

IIIM (GSIRF-2021)

★★★★★

MTIN (GSIRF-2021)

★★★★★

ARIP (GSIRF-2021)

★★★★★

CIPS (GSIRF-2021)

★★★★★

- Selection for 'Study in Gujarat' Campaign
- Internal and external Academic & Administrative Audits
- SIRO recognition by DST
- In principle approval as Centre of Excellence by Government of Gujarat

Specific Post-accreditation initiatives

Consolidating the implementation of Outcome-Based Education and CBCS



- Over 90% courses oriented towards professional development and employability
- Executive Programmes introduced to mobilize financial resource
- Entrepreneurial ecosystem strengthened under CHARUSAT Start-up and Innovation Centre
- Alumni engaged in organizing placement-related activities, industrial trainings, internships for UG/PG students; Procurement of 'Almashines' to manage alumni base
- Corporate potential tapped through collaborative research projects/industry-designed projects/consultancies/infrastructural augmentation; their inclusion as members in regulatory bodies.
- "Paperless Examination' and 'Exam from Home' using customized software; strengthening e-Governance
- Streamlining PhD Programme through revised University Research Policy and increased recognition of faculty as research supervisors
- Upgrading ICT services on-campus.
- Online teaching-learning through extensive use of LMS; development of in-house MOOCs-Charuvidya
- Efforts to enhance relative proportion of women employees
- Functionalization of residential quarters; approved plan for construction of on-campus boys' hostel

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 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

The university prioritizes gender equality with highest ethical standards. The university harbours ~50% density of female employees and students owing to an inclusive and empowering work culture offering equal rights, access to resources, opportunities, and security, regardless of gender. This is ensured through

1. Women's Development Cell (WDC)
2. Equal Opportunity Cell (EOC)
3. Grievance Redressal Cell (GRC)
4. Cell for the Prevention of Sexual Harassment (CPSH)
5. Anti-Ragging Committee (ARC)

Measures initiated

#### a) Awareness and Sensitization Programmes

- Gender equity promotion through poster-creating contests, quizzes, expert talks, seminars, workshops, essay/poetry writing competitions
- Sensitization through legal education/redressal, conflict resolution



**b) Special Support for females**

- Prioritizing women in allocation of staff-quarter
- On-campus day-care services
- Transportation during long working hours, clinical postings in nearby areas, camps etc.
- On-campus girls' hostel accommodating >1100 students
- Girls' common rooms and sanitary vending machines
- Work-from-home schemes for pregnant women; maternity leaves

**c) Outreach Programs for Women and Children**

- Women-centric initiatives through celebration of International Women's Day/Women's Education Day – camps and awareness drives on promotion of Menstrual Health and Hygiene
- Recycling newspaper waste to create eco-friendly pens, to support small-scale business by local women

CHRF-launched Vatsala Matrusambhal program-prenatal healthcare of pregnant women of Charotar region, physiotherapy, dental screening

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	<a href="https://charusat.ac.in/data/AQAR/2020/7/7-1-1/7.1.1.pdf">https://charusat.ac.in/data/AQAR/2020/7/7-1-1/7.1.1.pdf</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	<a href="https://charusat.ac.in/documents/pdfs/data/7/7-1-1/Facilities.pdf">https://charusat.ac.in/documents/pdfs/data/7/7-1-1/Facilities.pdf</a>

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

**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management**

**CHARUSAT has in-house facilities for management of solid/liquid**

waste generated on-campus. Other wastes are disposed through agencies authorized by Gujarat Pollution Control Board (GPCB).

#### 1. Solid Waste Management

The solid waste mainly papers, plastic, garden and food waste. Segregation of dry and wet waste is ensured through installation of separate waste-bins across the campus. The dry waste is incinerated while the wet and garden waste is used to produce compost. Efforts are made to minimize daily food-waste through sensitization drives.

#### 2. Liquid Waste Management

Sewage is treated through Integrated Wetland System (100 KLD capacity), the quality of treated effluent being within stipulated limits prescribed by pollution control board. Final sewage management is facilitated through 34 underground Soak Pits/Septic Tanks.

#### 3. Biomedical Waste Management

This is segregated and disposed through M/s Samvedana BMW Incinerator (Unit-II), Tarapur (GPCB authorized Common Bio-Medical Waste Treatment Facility)

4. E-waste Management through authorized agency dealing with the recycling of the e-waste.

#### 5. Waste Recycling System

- Newspaper waste is recycled to make Paper Pens.
- Optimize automations (e-Governance and paperless examination) to reduce paper consumption

#### 6. Hazardous Chemicals and Radioactive Waste Management

Safely managed through GPCB authorized Transfer, Storage and Disposal Facility (TSDF) at Nandesari Environment Control Ltd. (NECL)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution:** Rain water 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
Upload relevant supporting document	<a href="#">View File</a>

### 7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

Initiatives and efforts to create an inclusive environment at CHARUSAT include

- Orientation program for the first-year students to facilitate cross-culture mingling between students irrespective of their identity or learning preferences as well as familiarization with university/institute/faculties/cells/centres facilities on the campus
- Special sessions for interactions with senior students and ice cracking games
- Course on French language
- Elective courses on Liberal Arts including painting, photography, designing, dance, dramatics etc to strengthen cultural avenues
- Freshers' and farewell parties
- Mentor-mentee system
- Celebration of regional festivals
- Celebration of Sadbhavana Divas; International Mother Tongue Day
- Street-plays on cultural/regional/social harmony within campus or in the villages adopted by university under Unnat Bharat Abhiyaan
- Catering to accommodation and food choices of the international students
- EOC, WDC, NSS unit, Grievance Redressal Cell and Students' Central Council largely oversee the inclusivity in co-curricular and extracurricular activities with-in and out-side the campus
- Volunteered free education drives and developmental activities for rural children by students and faculty
- Activities for welfare and rescue of animals and birds by NSS volunteers

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

CHARUSAT proudly believes in "Education without character is futile" as endorsed by Shree Sardar Vallabhbhai Patel, the Iron Man of India. The university follows High Moral Values like Honesty, Integrity, Transparency, Fairness, Equity, and Accountability.

To inculcate the societal responsibilities in the students, the university has included a course of Values & Ethics in the curriculum.

Activities organized to spread awareness about societal responsibilities include

- Wall of Kindness: A charity initiative by the students to donate usable clothing, books, utensils etc for the needy people
- Collecting and donating funds to National Association for the Blind, Gujarat.
- Visits to old age homes and orphanage
- Health check-up camps volunteered by students and faculty

Sensitization for the constitutional obligations through activities like:

- Run for Unity: To celebrate the birth anniversary of Shri Sardar Vallabhbhai Patel and to inculcate the values of unity and Integrity
- National Festival Celebration: Independence Day and Republic Day celebration to infuse patriotism
- Gujarat Foundation Day celebration on 1st May.
- Youth Parliaments to discuss various societal and national issues

Encouraging organization of activities by Students' Central Council and clubs to develop sense of duties, responsibilities and ethical values in students

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 organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized

All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

Celebration of national/international commemorative days/events and festivals forms an essential element of strengthening culture of unity in diversity at CHARUSAT.

These include celebrating/organizing/commemorating occasions signifying diverse aspects and people of relevance

- Gender Equality: International Women's Day to signify the gender equality and celebrate the excellence of women in

various areas

- **Environmental Preservation:** World Environment Day, World Water Day, World Oceans Day, International Day for Preservation of the Ozone Layer-sensitizing
- **Nationalism and Patriotism:** Independence Day, Republic Day, Constitution Day, Voters Day, National Science Day, National Service Scheme Day, National French Day, and National Education Day
- **Commemorating freedom fighters and national heroes:** Birth anniversary of Sardar Vallabhbhai Patel as National Unity Day, Swami Vivekananda as National Youth Day, Dr. Sarvapalli Radhakrishnan as Teachers' Day
- **Science and Technology:** celebrating discovery of Raman Effect by Sir C V Raman as National Science Day, Engineers Day
- **Health and Wellness:** World Osteoporosis Day, World Organ Donation Day, International Day of Yoga, World Pharmacist's Day, World Sight Day, World Spine Day, Anaesthesia Technician Day, National Nutritional Week, World Mental Health Day, World Physiotherapy Day, World Heart Day, International Radiology Day, Blind Flag Day and World Cancer Day.

**Institutional Significance:** CHARUSAT Foundation Day (28th January); Annual day

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

### 1. Title of the Practice:

Human Resource Development and People-First Approach

### 1. Objectives of the Practice:

- Empower the human resource as major core-capacity dimension by inculcating, enhancing and developing diverse competencies
- Create a work environment conducive for all the stakeholders enabling mutual growth and development
- Achieve and sustain organizational goals through people-first approach

### 1. The Context:

CHARUSAT has identified three core performance areas to deliver as a responsible organization viz. (i) Research, Development, and Innovation (ii) Teaching-Learning-Evaluation and (iii) Extension and Community Services. Human resource is realized as a major chassis driving the university's all-round growth and development. Rich human resource directly and indirectly associated with CHARUSAT includes employees including teaching and non-teaching staff, students, parents, donors and philanthropists, service providers and local community. The purpose of the human resource

development towards achieving the organizational goals is manifold including achieving academic excellence, administrative efficiency and contributing its share as a responsible organization in societal uplift.

#### 1. The Practice:

CHARUSAT steers the human resource enrichment through integration of liberalized HR policies, training for professional and personal improvisations and bottom-up leadership involving constituent institutes and its human resource components to actively contribute to decision making and institutional management. The goal is to foster a progressive, flexible, amicable yet dynamic work culture allowing a decent work-life balance. Directed efforts are extended through Prin. B I Patel Human Resource Development Centre (HRDC), Internal Quality Assurance Cell (IQAC), Charotar Rural Education Development Programme (CREDP) as well as through autonomous functions of its component institutes.

A continuous practice (individual or group centric), adopted involves following stages:

(i) I

(ii) Designing various initiatives to foster holistic talent development, annual scheduling and organizing the programs in a batchwise manner

(iii) Feedback and evaluation of the improvements through structured ways, hierarchical observations and interactions

Faculty development initiatives: Empowering the inherent and acquired potential of the faculty pool is quintessential. Constant emphasis and efforts to enhance the competency of faculty is ensured through

- 100 % academic autonomy and feedback-driven improvisations, enabling continuous enrichment of faculty capacities, outlook and the overall process
- Fostering professional development at two levels (i) polishing vocational, soft and communication skills through induction/orientation programs and faculty development programs (FDPs) themed on counselling, professional etiquettes, spiritual discourses, education management, academic leadership; Competitive examination to improve language proficiency (English, French) etc. (ii) guidance and assistance for upgrading technical/scientific caliber through self-identified industry exposure and domain knowledge trainings, autonomy in choosing research areas and collaborations as well as full financial support for research-related activities through dedicated budget allocations.
- Incentivizing faculty members for their research outputs
- Active involvement of faculty members in management and administration



Student development initiatives: Students are dynamic and the most important human resource for any educational organization.

CHARUSAT ensures holistic development of its students through

- Student-centric academic practices- curricula at par with national and international standards, blended learning-based pedagogy, outcome-based education, career development initiatives
- Fully funded industrial visits/clinical training/participation & paper presentations in seminars
- Orientation programs to facilitate smooth transition into higher education systems
- Ensuring socio-psychological and spiritual wellness through robust mentor-mentee system and spiritual discourses
- Facilitating multi-dimensional development through extracurricular activities and specialized courses on 'Liberal Arts' and 'Creativity, Problem solving and Innovation'
- Building teamwork and leadership skills through active involvement in management of routine academic processes, students clubs and community services
- Appreciating their academic achievements through prizes, scholarships and gold medals
- Discussing the students' progression through regular parents' meetings

Development initiatives for non-teaching staff

- Lab technicians are trained for building and maintaining digital records, instrument operations, efficient lab management and are involved in decision making
- Conducting motivational sessions on work-life balance, communication skills, etiquettes, importance of code of conduct
- Sensitizing attendants and supporting staff through healthcare awareness programs

Community development initiatives-As an Institutional-Social Responsibility, the long-term agenda is to build the capacity of the rural community and improve the socio-economic quality of life

- Educating and training the rural community through CREDP, CHARUSAT
- Encouraging and supporting girl child education through special scholarships and parents' counseling
- Equal opportunities and financial assistance for higher studies through philanthropy to support the progression of students from economically constrained background
- Sensitization camps, door-to-door surveys and community activities to promote personal and public hygiene, pre and postnatal maternal care, awareness on mental health, state-level antiaddiction drives, national level campaign like Swachha Bharat and Swasth Bharat, etc
- Employment and support to small-scale businesses for the local rural community



- Training to auto-rickshaw drivers, security personnel, food vendors etc.

#### Special initiatives during Covid pandemic

- Introducing work-from-home modules and flexi-timings for employees
- Full and timely salaries for employees; fees payment relaxations for students as a conscious effort to alleviate financial burdens
- Well-prepared, efficient and smooth shift to online academics through integration of IT in pedagogical innovations; well-proctored exams using Exam-from-Home module of customized softwares
- Door-to-door delivery of books to students; remote access to online learning resources
- Covid-care center set-up at CHARUSAT hospital in collaboration with Government of Gujarat
- Educating local community towards following lockdown protocols and preventive measures through NSS-CHARUSAT initiatives
- Vaccinating the frontline employees

#### 5) Evidence of Success:

##### Faculty enrichment and staff mobilization

- More than 100 faculty members have been appreciated under Research Paper Awards Scheme
- Visibly enhanced multidisciplinary projects and inter-institutional collaborations
- HRDC-CHARUSAT has organized over 100 induction/developmental programs for enrichment of faculty, non-teaching and support staff, during last five years.
- Efforts to enhance domain knowledge and industry exposure has reflected in improvisation in academics, research and teacher-student relationships, as evident through feedback from the stakeholders. These efforts are appraised annually.
- The university has financially supported >400 faculty members for participation in national/international level workshops/symposia/conferences, through allocation of Rs. 20,000/- per faculty per year. Research projects worth ~1.3 Crores have been supported through seed grants.
- Organization of tech-fests, conferences/symposia/webinars/STTPs/guest lectures/industrial visits as well as non-technical events like Convocations, University Foundation Day, Sports and Cultural festival etc. reflects the experience invested by well-groomed faculty in terms of quality of resource persons, content and smooth management.
- Around 115 non-teaching employees have been trained through 13 programs. Trained lab-technicians contribute to effective institutional management through additional roles like admission counseling, organization of various technical/non-technical events and other administrative duties
- Around 25 attendants trained through 5 programs are seen adopting a healthier lifestyle and attitude.

## Student progression

- Almost all the first-year students benefited significantly from orientation programs
- Over 330 activities over last five years have benefited career development of ~5000 students annually.
- Academic progression, career prospects and overall wellbeing of every student has been facilitated through mentor-mentee interactions
- Merit-based scholar ships to >1520 students while 151 gold medals have been awarded through convocations in last five years
- Over 7030 and ~4730 students participated in courses on Liberal Arts and Creativity, Problem Solving and Innovations, respectively

## Institutional-Social Responsibility

- Six villages-Mehlaav, Malataj, Kaloli, Ghuteli, Dethali Gada, have been adopted through CREDP
- Collaboration with Government of Gujarat for conducting clinics and health surveys
- Initiatives under Unnat Bharat Abhiyan to educate rural women over revoking the social stigma about gynecological issues and environment-friendly menstrual sanitation
- Small-scale businesses including tiffin services, hostel accommodation, pick-n-drop transport facilities, Xerox centers, food and beverage joints, general provision stores etc have been supported on-campus and in nearby areas.
- Over 85% of staff in house-keeping, security, gardening, canteen contracts and maintenance sectors of operations, are employed from the local rural community
- MoUs signed with ~72 schools to train staff/students/parents

## Outputs in pandemic situations

- Successful adherence to academic calendar
- Number of research initiatives (paper publications/writing project proposals/webinars) significantly increased during the work-from-home schedules
- Online summer trainings were also organized for students
- Several students were supported financially for sustained education

## 6) Problems Encountered and Resources Required

Human resource development, although a massive determinant of organizational growth, is sensitive owing to diversity with respect to gender, socioeconomic backgrounds, educational qualifications and individual life goals. Following constraints and challenges are faced while implementing the developmental initiatives

Employee specific:

1. Addressing diverse needs of the faculty members, within limited training modules
2. Time constraints in scheduling trainings within the academic calendar, balancing with lesser quality time for innovations in academics and research
3. Availability of qualified resource persons with desired frequency and specializations
4. Tangible mapping of the outcomes and efficacy of training modules
5. Difficulties in motivating employees to engage in training and self-development and align with organizational vision and mission

**Student specific:**

1. Managing diversity of learning abilities and socio-economic background
2. Assimilating vernacular medium students into English medium education regime
3. Mobilizing students from the mindset of 'individualistic-learning' to 'peer-learning'
4. Tight academic schedules leaves less time for recreational activities
5. More financial resource flow required to support the meritorious but economically constrained students

**Community specific:**

1. Difficult convincing rural community over the long-term benefits of participating in university initiatives
2. Limited ventures for university-community partnerships restricts opportunities to explore the rural potential
3. A more focused collaboration under development initiatives by Government of India may help the university to propel rural development

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

CHARUSAT has increasingly adopted the approach of research-driven teaching-learning and societal development. Qualified, trained, and self-motivated human resource including faculty members, doctoral and post-doctoral students are key contributors to the research environment. About 38% faculty members are PhD qualified; their research outputs are encouraged through career advancements. Currently 54% of faculty members at CHARUSAT are pursuing PhD. 73 faculty members have been supported through CHARUSAT seed grants worth 130 lacs. Dr. K C Patel Research and Development Centre

(KRADLE) has successfully executed 16 projects worth >500 lacs INR. Through these all-round inputs at CHARUSAT have translated into more than 1300 research publications, ~82 industrial consultancy projects worth >1.8 Crores successfully implemented on campus, 70 MoUs for diverse research activities, total of 12 patents (published and granted), 2 royalty agreements and over 460 research-oriented events organized to augment the research network. Research & extension initiatives are also focussed on healthcare deliverables to improve quality of life in rural vicinity, including health surveys & camps in collaboration with Government of Gujarat and infrastructural setup like Covid-care centre and Molecular Diagnostic lab, recently. CHARUSAT has 3 researchers appearing in top 2% most-quoted scientists of the world (<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918>) while one elected as TWAS fellow.

### 7.3.2 - Plan of action for the next academic year

1. Apply for NIRF 2022 ranking.
2. Aligning curriculum and pedagogy with NEP 2020 policy.
3. Promote use of ICT in academic processes.
4. Introduction of online courses/programmes.
5. Strengthen and expand alumni association and associated activities.
6. Review existing University policies, its implementation and amendment.
7. Enhancement of schemes for awards/incentives for staff and faculty members.
8. Enhance quality of research publications.
9. Strengthen student capability enhancement and development scheme.
10. Encourage and promote interdisciplinary learning and research.
11. Enhance industrial consultancies and government funding in thrust areas of research.