YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE
• Name of the Head of the institution	Dr. S. N. Sridhara
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	044-27474262
• Mobile no	9840540404
• Registered e-mail	vc@hindustanuniv.ac.in
• Alternate e-mail address	iqac@hindustanuniv.ac.in
• City/Town	CHENNAI
• State/UT	TAMILNADU
• Pin Code	603103
2.Institutional status	
• University	Deemed
• Type of Institution	Co-education
• Location	Rural

• Name of the IQAC Co-ordinator/Director	Dr. T. SudalaiMuthu
• Phone no./Alternate phone no	044-27474262
• Mobile	9003032533
• IQAC e-mail address	iqac@hindustanuniv.ac.in
• Alternate Email address	tsmuthu@hindustanuniv.ac.in
3.Website address (Web link of the AQAR (Previous Academic Year)	https://hindustanuniv.ac.in/iqac_hits.php
4.Whether Academic Calendar prepared during the year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	https://hindustanuniv.ac.in/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.30	2016	16/09/2016	15/09/2021

6.Date of Establishment of IQAC	01/11/2012

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	View File
9.No. of IQAC meetings held during the year	4
• The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)	Yes

• (Please upload, minutes of meetings and action taken report)	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**	
• If yes, mention the amount		

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

Academic Audit, SWOC, ATR

Administrative Audit, SWOC, ATR

Enrichment of Teaching Learning Practice through OBE

Enrichment of Quality Research

Extension of Social Activities through Curricular and Co-Curricular activities

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
Facilitating and Monitoring Attainment of Programme Outcome (PO)	Average PO Attainment is improved from 64.23% to 75.32 %
Competency Analysis and Staff Requirements	SFR is 1:15 (Engg), 1:20)Arts and Science)
Facilitating to Enrich OBE practices	Average score for OBE Practices is improved from 71.23 to 81.23 %
Outcome Based Performance Appraisal System	Average Appraisal Score improved from 57.8 to 69.12%
Flexible and Innovative Assessments	Learning Outcome is improved from 68.85 % to 75.4 %
Academic / Administrative Audit	Average Audit score is improved from 71.23 % to 78.89 %
Feedback from stakeholders	Average Feedback score is improved from 70.23 % to 75.68 %
Enrichment of Students Competency through OBE, Training, Skill based workshops	Students Placement improved from 78.2% to 82.34%
Facilitating for Publication – Plagiarism Software, Workshops on R&D, Incentive for Publications	Average three years publication is improved from 674 (2018) to 1,508 (2021) publications
Facilitating Enrichment Programme - Consultancy & Funded Project, 2.5 % Incentive	Total funding from 2018- 2021 is ?317.44 lakhs

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

- Name of the statutory body

Name	Date of meeting(s)
Academic Council Meeting (ACM)	05/02/2022

14.Whether NAAC/or any other accredited	Yes

body(s) visited IQAC or interacted with it to Assess the functioning?	

15.Whether institutional data submitted to AISHE

Year	Date of Submission
2021	30/03/2022

16.Multidisciplinary / interdisciplinary

Hindustan Institute of Technology and Science is following Choice Based Credit System from the inception as Deemed to be University. The curriculum has reserved about 45% of total credits for Electives for the students to choose from the listed verticals. These verticals are identified by the program offering departments based on the inputs received from Industrial Experts, Renowned Scientists, Alumni and other stake holders through Board of Studies. The electives are usually of multi-disciplinary in nature.

The curriculum is designed to accommodate Professional Electives and Non-Departmental Electives to address the requirement of multidisciplinary course contents in every program. Every student from third semester to seventh semester is encouraged to take up one course related to his/her area of specialization as professional electives offered by the host department. In addition, the students are given a choice to take up non departmental electives offered by other departments. This helps in the holistic approach by providing a choice based credit system supporting multidisciplinary course structure.

The curriculum also offers courses on vernacular languages, foreign languages and performing arts.

The curriculum of all Engineering and Technology have ben redesigned according to NEP -2020 with effect from 2022-23 and all the recommendations made in NEP have been implemented.

17.Academic bank of credits (ABC):

Academic Bank of Credits has been established on the lines of the National Academic Depository (NAD), in the sense, NAD is the backbone of ABC, where the students' academic data are held and academic awards are stored (i.e. storehouse of academic awards).

Our Institution has registered in the Academic Bank of Credits via National Academic Depository (NAD).

Hindustan Institute of Technology and Science has completed the registration in NAD portal and our request for participation in Academic Bank of Credits is approved.

Step by step procedure for creating students' ABC account ID was prepared and circulated to the students. Students have created ABC IDs. Around 750 ABC IDs were uploaded in NAD. The uploading of Grade sheet details is in progress.

The Institution has a standard procedure for credit transfer applicable to students getting transferred from other National and International Educational Institutions. Introduction to ABC has facilitated authenticated verification of credits earned by students who seek transfer from other institutions to join as transfer candidates into our institution. This also facilitates multiple entry and multiple exit scheme as proposed in the National Education Policy. This institution has started the process of registering our students' details in the National Academic Bank of Credit.

18.Skill development:

In the new curriculum, more than 50% courses are turned to the 'theory cum practical' courses to ensure the skill training in relevant field. New laboratories have been established and few have been upgraded to meet the requirement of skill training in nisch areas. The courses such as 'Fab Lab', 'Design Thinking' and 'Design Projects' added to increase the practical learning and skill enhancement for the students.

Hindustan Institute of Technology and Science has also taken initiatives to train the students in various disciplines of their interest/specialization. The institution has ventured into Memorandum of Understanding with industries and overseas higher Education Institutions. The department of Automobile Engineering has set up a state of art facility in association with Royal Enfield to train our students on automobile assembly and maintenance. These courses are handled by professionals from Royal Enfield Ltd. The department of Computer Science and Engineering offers courses in collaboration with IBM and Cisco for providing training and value addition programs to the students.

Every department ensures enough participation of industry experts in the Board of Students for framing the syllabus as per the current industry requirement. The institution houses a separate centre with

name Hindustan Technology Business Incubator (HTBI) & Hindustan Entrepreneurship and Innovation Centre (HEIC) which focuses on developing the technical skills, innovative ideas and Business models.

In addition, the curriculum supports practical integrated courses, where the students learn by doing. This ensures that the students learn the basics and apply it to the relevant field of study. In addition, every department is encouraged to have design project laboratory courses. In this the students work as a team, conceive ideas and develop prototype working models. The curriculum also has courses on developing the Entrepreneurial skills and honing their professional communication skills.

In addition periodic workshops are conducted, which focus on hands-on training in the latest cutting edge technologies. This ensures that the students are industry ready and can adapt to the changing needs of Industries and Corporates.

19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Hindustan Institute of Technology and Science encourages students to enrol in online courses offered by various organisations like NPTEL and SWAYAM. Students are provided with opportunities to choose electives from a list of NPTEL/SWAYAM courses approved by the institution after examining the course equivalence and domain of interest. One staff member is allotted for each NPTEL/SWAYAM course for facilitating students in learning and in completing the assignments and quizzes. Students completing the online courses will receive credits for the same. The credit score obtained is transferred to the grade sheet of the student with due weightage to the transferred credits.

The institution provides various elective courses on performing arts and students were encouraged to attend various co-curricular and extracurricular activities. The institution also conducts periodical cultural events. The institution has a separate music band and dance groups and drama clubs.

Our institution has students from widespread demography coming from various parts of the country and outside our country. Towards appreciating the diversity of Indian culture and languages, the institution has appointed professors for Indian languages including Tamil, Telugu and Hindi. A course on regional languages is made mandatory and students are encouraged to learn the regional

languages of various states of the country. It is observed that students showed keen interest in learning other regional languages. During this course, they also have classroom discussions and video clippings about the lifestyles and cultural practices of various regions of India.

Our Institution is in the process of establishing a centre to promote the Indian Knowledge System.

- Facilitate and coordinate IKS based/related inter and transdisciplinary work done by various institutions in India and abroad including universities, institutions of national importance, R&D laboratories and different ministries and inspire private sector organizations to engage with it.
- Establish, guide and monitor subject-wise interdisciplinary research groups of researchers from institutes, centres and individuals.
- Create and promote popularization schemes.
- Facilitate funding of various projects and develop mechanisms to undertake research.
- Make Policy recommendations wherever required for the promotion of IKS.

20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Hindustan Institute of Technology and Science started practising Outcome Based Education in the year 2012. The curriculum and syllabus framed in the regulation 2012 has defined outcomes for all subjects in the curriculum. The teaching, learning and evaluation techniques are tuned as per the outcomes in order to ensure the outcomes are achieved. Attainment of individual outcomes are measured after the evaluation process and appropriate corrective actions are initiated.

The curriculum was revised periodically and more emphasis and focus were given to enhance the implementation of Outcome Based Education. Periodic training by experts from renowned Educational institutions such as IIT and NITTTR was given to the faculty. In addition, our faculty also undergo residential training cum workshop conducted by IIT Madras and NITTTR Chennai.

During the curriculum design process, the Program Objectives and Program outcomes are well defined. In line with this, the curriculum and syllabi are framed. Each course has a well defined course objective and course outcome. Every assessment, classroom activity and other exercises/experiments are mapped to the

respective course outcomes. The outcome attained is measured and necessary corrective actions are recommended for the forthcoming batches of students. The faculty also periodically meet and discuss in their course committee meeting on the performance of students and the attainment of course outcomes. For every batch of outgoing students the course outcome obtained is mapped to the program outcome attainment matrix. This enables the faculty and the management to further fine tune the curriculum and syllabi to have a focus and achieve the expected outcome of the programme overall.

All faculty maintain their course files and the question papers also mention the course outcome expected from each assessment question. This helps the faculty to focus on the course outcomes which are attained to the predefined target level. The faculty are encouraged to have additional activities in the class to ensure that the students are well trained to reach the expected course outcome thereby achieving the overall program outcome.

21.Distance education/online education:

The renowned Hindustan Group of Institutions in its non-stopendeavor to be at the forefront of quality education has proudlylaunched HINDUSTAN ONLINE - CODE (Centre for Open and DigitalEducation). In the wake of the National Education Policy 2020,India is experiencing an important shift in education and Onlineprograms have successfully catered to the need of the hour byproviding highly revered qualifications to both aspiring studentsand working professionals. HINDUSTAN ONLINE - CODE offers specially designed programs withwell-researched curricula to reduce the industry-academia gap.This makes our learners more employable in this highly competitiveworld. The programs are all contemporary with a well-curated andwell-researched curriculum. Our programs do not just provide thetheoretical learning of concepts, but we focus on the practicalapplication of these concepts by following Outcome Based Learningconcepts. HINDUSTAN ONLINE - CODE aims at reforming the IndianHigher Education landscape through the provision of equitable andinclusive learning opportunities, contributing to a significantincrease in enrolment.

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	62

File Description	Documents
Data Template	View File

1.2	**19**
Number of departments offering academic programmes	

2.Student	

2.1	**6726**
Number of students during the year	

File Description	Documents
Data Template	View File

2.2	**2027**
Number of outgoing / final year students during the year:	

File Description	Documents
Data Template	View File

2.3	**6415**
Number of students appeared in the University examination during the year	

File Description	Documents
Data Template	View File

2.4	**1**
Number of revaluation applications during the year	

3.Academic	

3.1	**3402**
Number of courses in all Programmes during the year	

File Description	Documents
Data Template	View File

3.2	**619**

Number of full time teachers during the year	

File Description	Documents
Data Template	View File

3.3	**680**
Number of sanctioned posts during the year	

File Description	Documents
Data Template	View File

4.Institution

4.1	**9707**
Number of eligible applications received for admissions to all the Programmes during the year	

File Description	Documents
Data Template	View File

4.2	**2499**
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

4.3	**156**
Total number of classrooms and seminar halls	

4.4	**1478**
Total number of computers in the campus for academic purpose	

4.5	**7944.03**
Total expenditure excluding salary during the year (INR in lakhs)	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

The curriculum for the programmes offered in the institution is framed and designed as a Project Based Learning (PBL) structure in compliance with industry 4.0. The courses in the curriculum are oriented towards the development of professional skill sets of the students and to prepare them as industry ready graduates. Further, each course in the program spells out clear instructional objectives that are mapped to program outcomes. It set forth additional weightage to PBL by introducing design projects from the third semester along with the final semester project. This curriculum equips the students to exhibit their skills in cutting edge technologies and inculcates social commitment by providing ethical solutions for societal needs in multidisciplinary areas. The teaching learning pedagogy and mentoring system enhance the student ability to be competent in National and Global flagship competitions. The curriculum mandates internship as a credit course to be completed during the course of study. Value added training and hands-on workshops are organized in association with industry experts and professional bodies. To summarize, the curriculum emphasises on Strong engineering foundation, problem/project-based learning, soft skills development with ethics and commitment to learn new technologies to apply in their start-ups and employment with social commitment.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

1

File Description	Documents
Upload the data template	<u>View File</u>
Upload relevant supporting document	**No File Uploaded**

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

2853

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

72

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

60

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

1.3 - Curriculum Enrichment

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

The institution hasan an Environment Club, NSS (National Service Scheme) team, YRC (Youth Red Cross) team and Fempower (Women empowerment cell)team. The activities are planned by the coordinators of the above clubs and students are involved in various initiatives and issues that are relevant to their courses such as Professional Ethics, Issues on Gender and Human Values and Environment and Sustainability. The Environment Club is coordinated by the faculty of Civil Engineering and SPADE and includes all students from First year to final year. This club creates awareness

on the issues related to the Environment and its sustainability in terms of Renewable energy, Plastic Awareness, Cleanliness and Hygiene, Green Environment, Tree Plantations through workshops, field visits, rallies and campaigns within and outside the campus. The NSS Unit of the institution encourages students to adopt a nearby village understand their problems and try to provide necessary solutions such as providing Solar Lamps, Educating the villagers on various technology based irrigation and agricultural techniques, self employment schemes, animal health safety and human health awareness by conducting medical camps and environment awareness camps.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

79

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

163

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

532

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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	View File

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	No File Uploaded

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

3332

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

688

File Description	Documents
Upload the data template	[View File]()
Upload relevant supporting document	**No File Uploaded**

2.2 - Catering to Student Diversity

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

The institution assesses the learning levels of the students in three different levels such as entry level to the institution, end and start of each semester and during the semester. The mentors will have a meeting with the students to analyze and council the academically poor performers and motivate them to perform better in the next semester. Also depending upon the academic intelligence and performance in previous semesters, they are guided on choice of electives for the subsequent semester.The students with low scores are counseled along with suitable remedial classes. Advanced learners are encouraged to enroll in MOOC Courses,Swayam, EdX. Students are encouraged to participate and present papers in various Seminars/ Conferences/ Workshops/ Inter-Collegiate Competitions organized by other colleges and professional bodies. Participation by the students in the in-house competitions such as Debate, Group Discussion, Problem Solving – Decision Making Exercises and Quiz Programmes are also encouraged. The academic achievements of the students are recognized and appreciated by awarding appreciation certificates and prizes in Institute level events such as University Day. They can take additional four courses to earn 12 credits over and above their regular academic commitment. They will specialize in a particular area of their domain.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**
Link For Additional Information	**Nil**

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
6726	**619**

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The institute follows students' centric methods to enhance student involvement as a part of participative learning and problem-solving methodology. Specifically, Students centered Teaching Methods are reflected in project work, Field Visit, Industrial visit & guest lectures. Apart from assessing students from Continuous Internal Assessment 1 and Continuous Internal Assessment 2, we assess them using the following activities.

1. Experiential Learning -Project Based Learning

The curriculum gives more weightage to project-based learning through the introduction of design projects in addition to the final semester project. Design projects are introduced from the third semester to enhance project-based learning. Assessment strategies are adopted under project-based learning where a group of students are assigned real time projects. They are supported to design and implement the same along with the demonstration. Such assessment strategies help in honing the skills of problem solving, design thinking, participative learning and learning by doing.

2.3.1.1.b Design Project

Another salient feature of curriculum is design projects from semester III to semester VII. Students are encouraged to come out with innovative solutions for addressing the needs of the society. This is carried out as individual or team activity.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The Institute follows ICT enabled teaching in addition to the traditional classroom education. Subsequent efforts are taken by the institute to provide e-learning atmosphere in the classroom. In

addition to traditional method of teaching, the faculty members are using the IT enabled learning tools such as PPT, Video clippings, Audio system, online sources, to expose the students for advanced knowledge and practical learning. 118 classrooms are equipped with Projectors and Smart boards. Most of the faculty use interactive methods for teaching. The major emphasis is on classroom interaction in terms of research paper presentations, seminars, debates, group discussions, assignments, quiz/tests/viva and laboratory work.

Introduction of LMS Moodle for all courses -HITS has adopted MOODLE as learning Management System which is highly flexible system which enables educational institutions the power to extend and add features for an excellent learning environment. HITS initiated to implement several initiatives to empower faculty and students to make use of ICT. 2018 curriculum followed at HITS is designed as a curriculum which introduced MOOC courses as part of the curriculum. The HITS is encouraging the staff to develop online courses using the Moodle. In order to empower the faculty, training programmes have been conducted.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

2.3.3.1 - Number of mentors

347

File Description	Documents
Upload relevant supporting document	No File Uploaded

2.4 - Teacher Profile and Quality

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

619

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.2 - Total Number of full time teachers withPh.D./D.M/M.Ch./D.N.B

Superspeciality/D.Sc./D'Lit. during the year

267

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

3133

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

17

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.5 - Evaluation Process and Reforms

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

13.5

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

13.5

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	No File Uploaded

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

0

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The IT integration through an ERP system has streamlined the entire examination process and has smoothened its functioning while making the whole process more transparent. The examination process features like hall ticket generation, internal and end semester marks Capture, result processing, results publication, generation of semester wise grade sheets, Consolidated grade sheets, Transcripts, Provisional certificate etc.

A self service portal exists for all stake holders (Students/ parents, Head of the departments and the management) for smooth sharing of pertinent information. Marks scored for the Continuous Internal Assessment (CIA) and End Semester Examinations (ESE) are entered directly into the systems by the evaluators, and the ERP applies relevant weightages to calculate the results.The paper and pen examinations were replaced by online examinations since April 2020 during pandemic situations. It greatly reduces the cost of conducting offline exams. OBE pattern is being followed in the question paper.The university delivers question papers through online at the exact start time of exam. This kind of Question paper delivery system (QPDS) helps in avoiding leakage of question papers and saves lot of stationery and physical movements. Continuous monitoring of examination is done using video recording which will avoid the malpractices.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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)

File Description	Documents
Upload the data template	<u>View File</u>
Upload relevant supporting document	**No File Uploaded**

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

Based on the Program Outcomes and Program Specific Outcomes curriculum is framed where each course has course outcomes. Based on course outcomes syllabus content is framed as five modules.This curriculum and syllabi are placed in Board of studies (BoS) after the scrutiny by different stakeholders such as, Parents, Students, Alumni, Industry, Academicians, and approval through curriculum review committee (CRC). Once BoS approves and recommends it is placed in Academic Council Meeting (ACM) for approval and implementation. A course teacher is assigned a course based on her choice of request and area of expertise.Throughout the delivery of the course focus is on course objective and attainment of course outcomes. Every activity carried out in classroom is mapped to the corresponding course outcomes of the course. The assessment marks of these activities reflect on attainment of course outcomes of particular course. In addition to these two internal assessments are conducted.When the question paper for internal assessments is set by the course teacher, each question is mapped with course outcomes of the course. A detailed evaluation sheet is prepared for the whole class where each student assessment is mapped with the course outcomes.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The attainment of Program Outcome, Program Specific Outcomes and

Course Outcomes are evaluated in the institution level. The course outcome attainment is calculated through internal tests, end semester examination and various other assessment strategy for a particular course. Overall course outcome attainment is calculated through all the above-mentioned methods. This attainment is set against a threshold value, fixed at starting of each semester. In case of non-attainment of course outcomes against the fixed threshold, the course teacher will analyse and submit the continuous quality improvement report for future improvements.The threshold for course outcome attainment is fixed based on student quality, course content, previous track history of course delivery (if applicable) and overall performance of students in past semester. IQAC of the institution will conduct the academic audit every semester to assess the correctness of CO attainment calculation and monitor the CQI. For every batch the course outcome is consolidated to compute the attainment of Program Outcomes and Program Specific Outcomes. As a result of monitoring these outcome attainments, the departments are encouraged for planning and upgrading program course contents. This also paves way for introduction of new programs to cater the needs of students and society as a whole.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

2027

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

https://drive.google.com/drive/folders/1B22uZwKYxeFsPEgCi7OM9cSK5_7j4Ws7?usp=sharing

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

Hindustan Institute of Technology & Science (HITS) is committed to the pursuit of excellence in research and aims to lead the national agenda across the spectrum of science and technology, humanities and social sciences. One of the key objectives is to tackle some of the challenging problems faced by 21st century society through multidisciplinary research. The university promotes industrial collaborations involving active and mutually beneficial R&D projects, publish papers in high-quality journals of international repute, file patents and transfer technologies to relevant industries, provide excellent research culture and infrastructure and create quality human resources for scientific research.The Institute provides an appropriate direction for research and looks into the fact that research leaders are trained in supervisory skills for stages of the research process, outlining or drawing up a hypothesis, identifying and defining research problems, preparing applications for grant and aid, protocol design, data recording and data analysis. Researchers are regularly encouraged to follow good research practices, follow principles of research ethics and data integrity in their research through regular workshops and webinars.The university provides periodic courses to enable researchers to understand and adopt best practices in research as quickly as possible.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

59.98

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

3

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

18

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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	No File Uploaded

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

9

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

22.8

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

74.17

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

1.7

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

The Hindustan Technology Business Incubator (HTBI) & Hindustan Entrepreneurship and Innovation Centre (HEIC) is focused to encourage the innovative talents and spirits of the students. The HTBI & HEIC is dedicated to the development and growth of innovation and entrepreneurial culture in the campus. The HTBIprovide an active eco-system with the right mentors, funders, entrepreneurs and industry experts is essential for a start-up's growth. We provide the support of our eminent mentor panel, distinguished alumni network and partner organizations.HTBI & HEIC envisions creating an ecosystem in the campus which offers every student a chance to be innovative, creative and tactical to pursue his or her dreams and gain economic, technical and entrepreneurial expertise in their

chosen field. The following services are offered at HTBI&HEIC. The student innovators and entrepreneurs are guided by internal and external experts. Mentoring sessions are held on a weekly basis with external mentors. The student start-ups and innovators are introduced to several professional bodies and business networks for furthering their enterprise. More than 2000 innovators and around 200 start-ups are triggered by HTBI so far and 1000 students were got training by student's start-ups. Around 100 patents were applied by student innovators.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

11

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

11

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

66

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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   **A. All of the above**

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
3. Plagiarism check
4. Research Advisory Committee

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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   **A. All of the above**

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

66

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

42

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

653

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

388

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

3.4.7 - E-content is developed by teachers For e- **D. Any 2 of the above**
PG-Pathshala For CEC (Under Graduate) For
SWAYAM For other MOOCs platform For
NPTEL/NMEICT/any other Government
Initiatives For Institutional LMS

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

Scopus	Web of Science
4.43	4.58

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
53	34

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

Hindustan Institute of Technology and Science (HITS) is an academic institute dedicated to excellence in teaching and research in consonance with the contemporary and future needs of India. The university actively encourages its faculty members and other academic staff members to undertake consultancy projects with industry and other comparable institutions of higher learning in the form of industrial consultancy. Consultancy works are undertaken to suggest solutions to real life problems in industry and socio economic problems experienced in the society. The university offers Consultancy Services to industries, service sectors, government departments and other national & international agencies in specialized areas of expertise available in the university. These service are offered along the lines of 'Professional Services' and will hence carry with them obligations and ethical requirements associated with such services as per the standard terms and conditions. All Consultancy works and related jobs are structured and executed in the spirit of promoting HITS, as a vehicle for augmenting levels of excellence in teaching and research, for proper

placement of HITS graduates and in the process of generating funds.The university offers Consultancy and related services under following categories:Individual Consultancy,Departmental Consultancy,Testing and Evaluation / Calibration and Standardization Services

File Description	Documents
Upload relevant supporting document	No File Uploaded

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)

25.29

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

Hindustan Institute of Technology & Science [HITS] jointly with Dr. K. C. G. Verghese Charitable Trust has expressed its oneness with the public and needy and contributed immensely by its innovation and relief activities, worth over Rs. 1.3 Crores, towards the welfare of the society during this pandemic. Hindustan Covid Camps reached out to over 5000 families by distributing essential Groceries like Dhal, Rice, Oil etc., and medical kits that cost over Rs. 50 Lakhs. The camp successfully was set at various villages including Illalur, Kayar, Vembedu, Idayankuppam, Thirupporur, Padur, Kelambakkam, Pudupakkam, Neelangarai and Injambakkam, Chennai, and all Chengalpattu District. Rs. 50 Lakhs was donated to Tamil Nadu CM Relief Fund during Covid first wave.HITS in association with Trier University, Germany has procured Rs. 50 Lakhs worth of Medical kits including Oxygen concentrators. Medical kits were distributed to Government Hospitals (Chengalpattu and Chennai) and Public Health Centers in the adopted villages of HITS. The face masks (FFp2) were also distributed in Kayar, Illallur, Vembedu and Padur villages. Rs. 25 Lakhs worth relief materials (Groceries and Food) were

distributed to the needy people in around Thiruprour Town Panchayat along with Rotary and Y's Men Community of HITS.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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)

40

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

4435

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

19

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

26

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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 institution has various facilities to impart teaching-learning process and the details are furnished hereunder:All classrooms are built in accordance with the guidelines published by statutory bodies like CoA, BCI AICTE, etc. There are 163 classrooms, well ventilated and furnished are spread over 10 blocks to provide both theoretical and practical information for students. Most of the classrooms have latest ICT/AV facilities, few of them are smart classrooms. In addition, the institution has approximately 19 AC and wi-fi enabled seminar halls in champion classes for Symposia, Workshops, Group discussions, etc. As a precaution towards COVID-19 spread all seats are well spaced out and arranged with care to avoid interpersonal contact.A total of 104 laboratories are available at the institution.HITS has always been in the forefront adopting

technologies and providing IT enabled service to all its stakeholders and has a clear policy regarding Information Technology. The policy with the vision to provide state of the IT infrastructure and make all the content and services IT enabled with the mission to nourish the IT infrastructure regularly and remain at the cutting edge of technology, accord to legalized use of software systems and applications.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

HITS has a versatile environment that allows integrated development of body and mind through provision of facilities that enhance, develop and nurture skills in sports, cultural and performing arts that showcase inherent talent and artistic expressions.Studentsare tremendously encouraged to participate in cultural activities.Institution have capacities ranging from 175 to 1000 students and are used to host wide cultural festivals. Students have access to practice rooms withcapacities ranging from 15 students to 60 students to nurture and train aspiring students for national and international events. These practice rooms are also used to host club meetings and various activities for music, dance, arts, literary youth empowerment clubs.The Yoga centre is well adulated by yoga club through which international yoga day' is organized and many active happenings are adorned.HITS has an excellent infrastructurewith all facilities for sports and recreation help students to improve their physical and mental well-being, thereby producing good and outstanding sports persons.Our sports and recreation facilities include 20 courts for outdoor games and 06 Indoor courts for indoor games are available including the ones inside hostels. Our students viz. Dinesh Karthik, Washington Sundar, Shah Rukh Khan currently play for India and in IPL.

File Description	Documents
Upload relevant supporting document	No File Uploaded

4.1.3 - Availability of general campus facilities and overall ambience

The campus resonates with a breath of fresh air amidst the concrete jungle in Chennai. Sprawled over 38.5 Acres, HITS campus is a mixture of calmness, proximity to nature, smoke free, lush green,

open space and unique architectural design.

The campus is adjoining the breath taking Muttukadu backwaters and thus boasts of a serene salubrious seascape visible from all the high rise buildings. The gentle sea breeze that caresses the lush green arboriculture evokes a feel of serenity to one and all visiting the campus.

- The main building is a picturesque vintage pillar architecture with sandwiched Kerala tiles which testifies the uniqueness of the building.
- The SPADE building is a unique in its façade, a parabola adjacent and sunken tile structures.
- The Jubilee block has an embossed mural that depicts the essence of all courses taught at Hindustan and literally stands tall and imposing.
- The founders block is oval in architectural terms with finesse written all over it.

HITS campus provides comprehensive facilities that are mentioned below

- Accommodation.
- Central Kitchen and dining facilities.
- Safety.
- Sports Facilities.
- Medical Facilities.
- Cleanliness & Hygiene.
- Horticulture and Gardening.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

2403.17

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

4.2 - Library as a Learning Resource

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

The HITS library is situated in the founder's block of the University campus with a total carpet area of 65,000 sq. ft. (Carpet area of Library-6039 sq.m and Reading Space-1394 sq.m) There is a beautiful botanical garden around the library, with a vehicle parking facility available outside the library. Ramp facility and Lift are also available for differentially abled students. The Library is centralized Air-Conditioned in all its 3 Floors. With a huge collection of over 2,14, 363 volumes of book, 389 International/National periodical in print, back volumes and over 3500 CDs/DVD, the library houses more than 42,000 e-journals and 20,2542 e-books with online database, via IEEE, SAE International, AIAA, SPRINGER LINK, SCENCE DIRECT, PROQUEST, EBSOC with Remote Access etc. Digital Library has 65 Apple IMAC systems, 10 I PATE with Wi-Fi Internet Connectivity for the faculty, research scholar and students to access Online Electronic Information Resources. Apart from these 65 IMAC systems, there are 10 laptops and 5 numbers of Amazon Kindle devices which are issued to students. The library has another 25 computers for the students to access OPAC and E-Resources. Besides a central library, departmental libraries collectively support the teaching, research, and extension program of the institute.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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	**No File Uploaded**

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

96.57

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

676

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

156

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

HITS has always been in the forefront adopting technologies and providing IT enabled service to all its stakeholders and has a clear policy regarding Information Technology. The policy with the vision to provide state of art IT infrastructure and make all the content and services IT enabled with the mission to nourish the IT infrastructure regularly and remain at the cutting edge of technology, accord to legalized use of software systems and applications. To provide fail safe and secure IT infrastructure that can provide a platform for all type of information and technology.

Institution has a Department of Information & System Management which looks into the IT infrastructure related matters. The departmentprovides integrated IT services such as smooth running of systems, servers & peripherals, up-gradation and maintenance of software and hardware, troubleshooting of networking equipment including internet connectivity, Wi-Fi connectivity, Email creation

& support, procurement of hardware & software, staff biometric services, CCTV connectivity & maintenance. Campus is networked with single and multimode fiber optic cables covering a distance of around 2000 meters for faster and efficient connectivity and Wi-Fi internet facility provided in Hostels, Library, Smart Class rooms, Seminar Halls, Auditoriums and Common places including Canteens.

File Description	Documents
Upload relevant supporting document	No File Uploaded

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
6726	1478

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- **?1 GBPS**

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded
Upload the data template	<u>View File</u>

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

3905.41lakhs

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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.

HITS aims to provide an immaculate and conducive environment to foster knowledge amongst students and research scholars alike while helping the faculty and non-teaching staff to excel in their jobs. While academics becomes the sword arm in this endeavour "Admin" is a capable supporting arm that has accentuated the efficiency of the University. In order to achieve this objective, HITS has established a dedicated Administration Department which has standardised systems and processes for regular and timely maintenance as well as optimal utilization of structures, classrooms, laboratories, sports facilities, hostels, canteens, greens and turfs.

At the policy level, all maintenance work is categorized into annual maintenance, routine maintenance and preventive maintenance. HITS policy mandates that all equipment including laboratory and computer systems either have up-to-date annual maintenance contracts or supported by well-trained in-house technical staff. Policies such as zero litter policy, no spitting policy, no smoking policy, which relate to public cleanliness and hygiene are strictly enforced as well.

HITS also ensures a zero waste campus with its staff ensuring complete conversion of food waste garden waste into compost to be utilized for Gardens and Farms. Central Air Conditioning is selectively provided through well-maintained chiller plants, Air Handling Units, and ducts.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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)

4005

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

2225

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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	View File
Upload relevant supporting document	No File Uploaded

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

- **All of the above**

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

78

File Description	Documents
Upload the data template	*View File*
Upload relevant supporting document	**No File Uploaded**

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

1495

File Description	Documents
Upload the data template	*View File*
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

250

File Description	Documents
Upload the data template	*View File*
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

69

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

The Hindustan Students Council (HSC) plays an integral part in student management in the institution. It consists of 26 members representing different departments. It is a composite council with a wide variety of members from different states, languages and cultures. It is a gender balanced council with an equal representation of boys and girls. Members of the HSC are involved in all activities of the institution.

From academic to co-curricular to social activities, HSC is a vibrant institution. Grassroot democracy is fostered through the involvement of Class Representatives and HSC members.

Class Representatives are found to actively participate in the curriculum formation and to put in place student amenities to airing grievances and getting it solved. The bottom to top approach is fruitful in resolving the student grievances quickly.

Bi-monthly meeting of Class Representatives are held in the department and their concerns and grievances are listened and are taken up for resolving.

The Class Representatives are connected to the HSC. Through this strong network, institution is very active.

HSC takes lead in giving inputs for futuristic curriculum, innovations, path-breaking research, entrepreneurship and skill development. They are actively guided by the faculty.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

27

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

HITSAA is registered as a Society (Sl. No. 156/2014) under the Tamil Nadu Societies Registration Act 27 of 1975. HITSAA Office is situated on the campus and is actively functioning since 1993.

HITSAA acts as a bridge between the alumni and the institution and provides a channel of communication for interactions of alumni with students and faculty. HITSAA Office manages Alumni Relations which include catering to the Alumni needs, establishment and operation of National and International Alumni Chapters, Alumni Reunions, the release of HITSAA Newsletter, and so on.

Membership of HITSAA is open for all graduates of erstwhile Hindustan College of Engineering (HCE) and Hindustan Institute of Technology and Science (HITS), and all such people who pursued Short term courses, Certificate or Diploma programs from the University.

HITSAA has established five international Alumni Chapters and many city chapters within India. Plans are underway to inaugurate Alumni Chapters at Singapore, USA Alumni Chapter (East Zone, Texas, Mid-West Coast, & West Coast)

HITSAA Social media accounts for information exchange on a day-to-day basis. Around 19,000 alumni follow us on social media. We are active on LinkedIn, Twitter, Facebook, and Instagram. Also we have a dedicated alumni website alumni.hindustanuniv.ac.in.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

A. ? 5Lakhs

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance of the institution. The vision and mission of the institution has been revised in 2018. Institution has received the feedback from various stake holders and the suggestions were reviewed by a committee headed by Dr. K. M. Mehata, Senior Professor. The revised Mission and Vision statements have been placed for review and approved in the 25th Academic Council, held on 06.10.2018.

MOTTO

To Make Every Man A Success and No Man A Failure

VISION

To be an International Institute of Excellence, providing a conducive environment for education with a strong emphasis on innovation, quality, research and strategic partnership blended with values and commitment to society.

MISSION

- To create an ecosystem for learning and world class research.
- To nurture a sense of creativity and innovation.
- To instill highest ethical standards and values with a sense of professionalism.
- To take up activities for the development of Society.
- To develop national and international collaboration and strategic partnership with industry and institutes of excellence.
- To enable graduates to become future leaders and innovators.

VALUE STATEMENT

Integrity, Innovation, Internationalization.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The institute has well-defined decentralization policy in line with UGC and other statutory councils. The various stake holders include students, parents, staff, alumni, industrialists and academicians are participating in the process of defining the policy, process and decision making through various committees. The faculty members are involved in Board of Management (BoM), Academic Council (ACM), Planning and Monitoring Board, Finance Committee and Board of Studies (BoS) and other committees. The BoS has consists of eminent industrialist, alumni, external academician and faculty. The Academic Council has been constituted inline with UGC regulations. The institute has been very successful in implementing a decentralized model of governance. This model ensures participative management. Board of Governors,meets regularly, and the proceedings are conducted in a transparent manner. The Finance committee appraises the BOM pertaining to the finances of the institution. Budgetary provisions for the department are made based on the requirements provided by the HOD. The Institution also publishes audited financial statements on its website.IQAC of the institute monitors the activities of all committees and sub committees. The institution also focusses on Student Centric Learning which helps the student to enhance his creative and critical thinking abilities.

File Description	Documents
Upload relevant supporting document	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The Institution has prepared the Institutional Strategic Plan for 2025 which is formulated by considering the Emerging trends in Higher Education in India, World Class Universities, and the Interactions with stakeholders of the Institution. The strategic plan has set the targets / goals thatillustrates the ways of achieving the targets and goals over the timeline. A team of Senior Professors are involved in monitoring the implementation of the strategic plan. The progress in achievement of the targets is reviewed periodically.

Strategic Plan

Targets for accomplishment

Branding and Visibility

- To establish 1 center for excellence each in Aero and Auto
- To build minimum 5 industry partnerships for each center
- To generate fund up to Rs. 10 Lakhs per center through collaboration with industries / institutions in India / Abroad

Research Excellence

- One Research Centre/Centre of Excellence in each Department
- Two research papers by each faculty per year in Scopus/Web of Science Indexed Journals
- Rs. 50 crores worth of the funded research projects

Faculty Excellence

- Around 35-40 FDP and Skill development programs to be conducted in a year
- Each department shall conduct FDP per year as per the formula: No. of FDP = 10% of the Department faculty

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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.

QUALITY POLICY

1. To provide students with the latest and the best in the rapidly changing field of Engineering, Technology, Management and Human development.
2. To nurture students with competence, skill and state-of-the-art professionalism thus rendering them capable of taking up any challenges in their respective field.
3. To mould students into responsible citizens with moral, ethical and social values so as to fulfil their obligations to

themselves, to the nation and the society at large.

ADMINISTRATIVE SETUP

The various statutory bodies are listed below

1. **Academic Council Meeting**
2. **Board of Management**
3. **Planning and Monitoring Board**
4. **Finance Committee**

APPOINTMENT, SERVICE RULES AND PROCEDURES

- **HOD of departmentsreview the staff requirements and availability based on the AICTE/UGC norms. The subcommittee prepares the faculty requirements and submit the same to the IQAC.**
- **The faculty requirements are perused by the Recruitment and Selection Committee and submits the report to the ViceChancellor for approval of the BOM**
- **BOM approves the requested requirements after perusing the requirements**
- **Advertisements are released in the leading newspapers**
- **Applications are received and scrutinized based on criteria prescribed for the position.**
- **The short-listed applicants are invited for the interview process.**
- **The selection committee recommends the selection of candidates to BOM and appointed by Registrar.**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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   **A. All of the above**

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

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

The Performance Based Appraisal System (PBAS) is a unique system as designed as Outcome Based Appraisal System in reference to the Accreditations and Ranking agencies includes UGC, AICTE, NBA, NAAC, NIRF, Vision -2025 of the Institution. This unique assessment system was introduced in 2018. The Intellectual Property of Copyright (R.No: L-93939/2020) for the system has been obtained for the Institution. The outcome based PBAS system has been enriched every year based on the feedback and suggestions of various stakeholder's year by year. The institution is providing the performance based incentive range from 5% to 12% of their basic pay over and above the salary.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

459

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

71

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

472

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.4 - Financial Management and Resource Mobilization

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

The Institution's major income is from fees which is collected systematically from the students. Annual budgets are pared to systematic and planned utilization of resources. All the departments and units of the Institution provide their budget requirement each year and are allowed to utilize budgeted amounts for departmental improvements and purposes. Capital Projects are planned and executed for the development of the Institution.

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 V) (INR in Lakhs)

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

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)

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

6.4.4 - Institution conducts internal and external financial audits regularly

Institution conducts regular annual statutory (external) audit and statement of accounts are certified by Statutory Auditors. Internal audit is conducted by the Institution and reports are submitted to the Management for perusal and remedial measures.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

6.5 - Internal Quality Assurance System

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 & methodologies of operations and learning outcomes at periodic intervals

The primary aim of HITS IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

The academic audit system reviews the regular academic work during each semester under the well organized under the Internal Quality Assurance Cell (IQAC), which ensures quality constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes. Academic audit is carried out based on the institution activities and department activities scheduled as per the institutional academic calendar and the department academic calendar prepared and communicated by the institution and the department respectively. IQAC academic plan compliance and declaration report is also monitored by the Internal IQAC coordinator for every department. Based on the academic activity listed compliance report has been generated after final verification by the Head of the Department for external auditing

system. In order to monitor the internal auditing system, the external audit will conduct twice in an academic year (Each per semester) by a team of member other than the parent department.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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	[View File](#)
Upload relevant supporting documnent	**No File Uploaded**

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)

The institution has a regular practice of Quality enhancement in academic and administrative activities of the institution through IQAC. The IQAC conducts academic and administrative audit every year. The various departments submit the Quality Evaluative Report with SWOC analysis as per the prescribed format. The reports are reviewed in the IQAC meeting and the necessary direction, guidelines, policy were communicated to the concerns for the effective implementation and enrichment of Quality in the process. The process of quality enhancement is carried out through the following

- **Introduced reforms in the online Performance Based Appraisal System (PBAS) for faculty quality improvement**
- **Quality Audit Processes for NBA (5 Programmes), NIRF and QS rankings with regular audits and quality feedback.**
- **Improving quality of teaching by insisting the faculty to pursue MOOC courses and attend the faculty development**

- programmes from institutions of repute.
- Improve quality of research by emphasizing faculty to publish their research work in indexed and Q1 journals.
- Curriculum and Syllabus Revision for all the programmes of the University
- Introduced Quality control audits for Laboratory practices
- Preparation and dissemination of Strategic Plan and its implementation for the University for Rankings and Accreditation.
- Introduced project-based learning for all courses.

File Description	Documents
Upload relevant supporting document	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

The institution has 42% of women employees. The institution has established several centers in the campus for women welfare. The centers promote gender equity, women empowerment and addressing the various challenge of woman. The centers include Fempower (women empowerment cell),Gender equality cell, Women grievance cell, Internal Complaint Committee (ICC) - prevention of sexual harassment, Women welfare committee and Women Counseling Cell. A total of 217 events were conducted for women welfare, women empowerment, women awareness, motivational talk, celebrations and other skills enhancement programmes for women.

The institution has the dedicative facilities for the women in the campus that includes Women's Hostel for girl students, Guest House for working women, Kids Day care for working women, Women leisure room in each block of the building. The institution provides maternity leave for all the eligible women in the institution.

The institution has offered the scholarships worth of 28 Crores (approximately) to the needed students in the last academic year. An exclusive scholarship, namely "Dr. Elizabeth Verghese Founder Chancellor Scholarship" is provided only to girl students of low-income parents.

The institution also has a dedicative lady counselor, lady nurse and a lady doctor for the welfare of women students and staff.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**
Annual gender sensitization action plan(s)	**Nil**
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	**Nil**

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	**No File Uploaded**

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

The waste management policy og the institute is to Reduce, Reuse and Recycle. The food wastes from hostels and campus canteen have high organic content and hence its treatment by the process of bio-methanation which is most viable as it produces useful products like biogas and enriched manure. A study was conducted where lab-scale bio-methanation studies for biogas recovery from food waste generated from hostels in HITS, we have achieved maximum quantity of biogas production from food waste along with novel waste materials. The HITS diverts more than 50 % of its waste from landfills. We have recycled an average of 34 % waste, our goal is to reduce the E-waste generation. Waste segregation bins system is followed at HITS campus. At the end of every semester exams, the donation box for books is available in all hostels to collect the books and the books will be re-distributed and available to needy students. Students have choice for networking through a healthy exchange of books. Book swap was a successful and interactive initiative where the students

have to go with books in hand.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

File Description	Documents
Upload relevant supporting document	No File Uploaded

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:

A. Any 4 or all of the above

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

promotional activities

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded

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)

The institution has taken lot of initiatives to provide an inclusive environment by contributing to local community in multiple ways. The institution has adopted the local village and has taken wide steps to cater the needs of the village people by providing the necessary commodities and organizing awareness program for them. More than 200 students and staffs participate in each activity and bring out harmony towards cultural, regional, linguistic, and socioeconomic environment. An overview of few such initiatives/efforts taken in the institution are tabulated below:

Number of initiatives to address locational advantages and disadvantages

Number of initiatives taken to engage with and contribute to local community

Date

Duration

Name of the Initiative

Issues addressed

Number of participating students and staff

5

5

20-07-2019

5

Village Survey [UBA]

Issues and Needs of Village

200

1

1

15-08-2019

1

Sudhandhira thinam& Rainwater Harvesting awareness

Rain Water Harvesting

50

1

1

07-09-2019

1

One student One tree

Deforestation

200

1

1

07-09-2019

1

Blood Donation Camp

Blood Donation Camp

488

1

1

24-09-2019

1

Swachatta Hi Seva campaign

Cleaning Awareness

200

1

1

08-10-2019

1

Rain coat distribution

Community Service

500

1

1

21-01-2020

5

Swachh Pakhwada

Cleaning Awareness

300

1

1

26-01-2020

1

Republic Celebrations & Gram sabha. [UBA]

Issues and Needs of Village

50

1

1

14-02-2020

1

Blood Donation Camp

Blood Donation Camp

472

1

1

17-03-2020

5

Corona awareness Camp

Awareness program

100

1

1

11-05-2020

20

Hindustan Covid Camp

Relief Kit Distribution to 5000 Families

100

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The institution has made persistent efforts to make the students and employees to be a responsible citizen of the country. Various events and awareness programmes are organized to inculcate the values, rights, duties, and responsibilities, namely, Independence Day, Republic Day, Voter Awareness Rally, International Day of Yoga, Green Diwali, Rashtriya Ekta Diwas (National Unity Day) etc., Moreover a course on Professional ethics and Life skills is offered to every student as part of their curriculum. This would enrich their knowledge on the human values, by obliging the duties and make them more responsible towards societal commitments.

The awareness pertaining to significance of Indian Independence, culture, and constitutional rights etc., are furnished to the students and employees by celebrating the national and international commemorative days, events and festivals every year. Massive volunteer clean up campaigns aligned to Swachh Bharat missions have involved thousands of students and staff in the institution. The

details of few events celebrated in the institution can be overlooked in the following links:

- https://hindustanuniv.ac.in/events/Azadi-Ka-Amrut-Mahotsav
- https://hindustanuniv.ac.in/events/VOTERS-AWARENESS-RALLY
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MOTHER-LANGUAGE-DAY-2021
- https://hindustanuniv.ac.in/events/72ND-REPUBLIC-DAY
- https://hindustanuniv.ac.in/events/PANEL-DISCUSSION-ON-EQUITY-DIVERSITY-INCLUSION-IN-AN-ERA-OF-COVID
- https://hindustanuniv.ac.in/events/NATIONAL-SCIENCE-DAY

- https://hindustanuniv.ac.in/events/GREEN-DIWALI-2019
- https://hindustanuniv.ac.in/events/WALK-FOR-WATER-2019
- https://hindustanuniv.ac.in/events/NCC-OCTOBER-ACTIVITIES
- https://hindustanuniv.ac.in/events/SCIENCE-MEET
- https://hindustanuniv.ac.in/events/TEACHERS-DAY-CELEBRATIONS-2019
- https://hindustanuniv.ac.in/events/73RD-INDEPENDENCE-DAY-CELEBRATIONS

https://hindustanuniv.ac.in/events/NATIONAL-FOLK-FESTIVAL

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	No File Uploaded

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

Hindustan Institute of Technology and Science has made sincere efforts to celebrate National days such as Independence Day, Gandhi Jayanthi, Republic Day, and other cultural and religious festivals such as Pongal, Onam, Christmas, Diwali, Ugadi, etc., Our

Independence Day celebrations involves cultural programs and patriotic plays that portray the diversity of cultures in India. International Day of Yoga is celebrated involving yoga practice and training sessions with staff and students. Moreover, the institution also celebrates World Women's Day, International literacy day, World Water Day, World Social Work day, World Theatre Day, World Mathematics Day, Earth day, World Health day, International Youth Fellowship, Mindset & Culture Day, English Language Day, portraying the significance of each day through eminent speakers. More information related to the national and international commemorative days, events and festivals celebrated in the institution can be seen in the following links:

- https://hindustanuniv.ac.in/events/Azadi-Ka-Amrut-Mahotsav
- https://hindustanuniv.ac.in/events/NATIONAL-SCRABBLE-DAY-2021
- https://hindustanuniv.ac.in/events/WORLD-THEATRE-DAY
- https://hindustanuniv.ac.in/events/INTERNATIONAL-WOMENS-DAY-CELEBRATION-21
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MOTHER-LANGUAGE-DAY-2021
- https://hindustanuniv.ac.in/events/72ND-REPUBLIC-DAY
- https://hindustanuniv.ac.in/events/PONGAL-CELEBRATION-2021
- https://hindustanuniv.ac.in/events/YOGA-FOR-HOLISTIC-HEALTH
- https://hindustanuniv.ac.in/events/INTERNATIONAL-DAY-2019
- https://hindustanuniv.ac.in/events/INTERNATIONAL-WORKSHOP-ON-SUSTAINABLE-ENERGY-AND-SMART-GRID
- https://hindustanuniv.ac.in/events/5TH-ANNUAL-INTERNATIONAL-YOGA-DAY-2019
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MENSTRUAL-HYGIENE-DAY
- https://hindustanuniv.ac.in/events/WORLD-HEALTH-DAY
- https://hindustanuniv.ac.in/events/CELEBRATION-OF-WORLD-THEATRE-DAY-ON-ABOVE-AND-BEYOND-A-SOJOURN-THROUGH-DRAMA

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

The curriculum for the programmes offered in the institution is framed and designed as a Project Based Learning (PBL) structure in compliance with industry 4.0. The courses in the curriculum are oriented towards the development of professional skill sets of the students and to prepare them as industry ready graduates. Further, each course in the program spells out clear instructional objectives that are mapped to program outcomes. It set forth additional weightage to PBL by introducing design projects from the third semester along with the final semester project. This curriculum equips the students to exhibit their skills in cutting edge technologies and inculcates social commitment by providing ethical solutions for societal needs in multidisciplinary areas. The teaching learning pedagogy and mentoring system enhance the student ability to be competent in National and Global flagship competitions. The curriculum mandates internship as a credit course to be completed during the course of study. Value added training and hands-on workshops are organized in association with industry experts and professional bodies. To summarize, the curriculum emphasises on Strong engineering foundation, problem/project-based learning, soft skills development with ethics and commitment to learn new technologies to apply in their start-ups and employment with social commitment.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

2853

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

72

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

60

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

1.3 - Curriculum Enrichment

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

The institution hasan an Environment Club, NSS (National Service Scheme) team, YRC (Youth Red Cross) team and Fempower (Women empowerment cell)team. The activities are planned by the coordinators of the above clubs and students are involved in various initiatives and issues that are relevant to their courses such as Professional Ethics, Issues on Gender and Human Values and Environment and Sustainability. The Environment Club is coordinated by the faculty of Civil Engineering and SPADE and includes all students from First year to final year. This club creates awareness on the issues related to the Environment and its sustainability in terms of Renewable energy, Plastic Awareness, Cleanliness and Hygiene, Green Environment, Tree Plantations through workshops, field visits, rallies and campaigns within and outside the campus. The NSS Unit of the institution encourages students to adopt a nearby village understand their problems and try to provide necessary solutions such as providing Solar Lamps, Educating the villagers on various technology based irrigation and agricultural techniques, self employment schemes, animal health safety and human health awareness by conducting medical camps and environment awareness camps.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

79

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

163

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

532

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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	View File

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	**No File Uploaded**

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

3332

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

688

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.2 - Catering to Student Diversity

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

The institution assesses the learning levels of the students in three different levels such as entry level to the institution, end and start of each semester and during the semester. The mentors will have a meeting with the students to analyze and council the academically poor performers and motivate them to perform better in the next semester. Also depending upon the academic intelligence and performance in previous semesters, they are guided on choice of electives for the subsequent semester.The students with low scores are counseled along with suitable remedial classes. Advanced learners are encouraged to enroll in MOOC Courses,Swayam, EdX. Students are encouraged to participate and present papers in various Seminars/ Conferences/ Workshops/ Inter-Collegiate Competitions organized by other colleges and professional bodies. Participation by the students in the in-house competitions such as Debate, Group Discussion, Problem Solving – Decision Making Exercises and Quiz Programmes are also encouraged. The academic achievements of the students are recognized and appreciated by awarding appreciation certificates and prizes in Institute level events such as University Day. They can take additional four courses to earn 12 credits over and above their regular academic commitment. They will specialize in a particular area of their domain.

File Description	Documents
Upload relevant supporting document	No File Uploaded
Link For Additional Information	Nil

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
6726	619

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The institute follows students' centric methods to enhance student involvement as a part of participative learning and problem-solving methodology. Specifically, Students centered Teaching Methods are reflected in project work, Field Visit, Industrial visit & guest lectures. Apart from assessing students from Continuous Internal Assessment 1 and Continuous Internal Assessment 2, we assess them using the following activities.

   1. Experiential Learning -Project Based Learning

The curriculum gives more weightage to project-based learning through the introduction of design projects in addition to the final semester project. Design projects are introduced from the third semester to enhance project-based learning. Assessment strategies are adopted under project-based learning where a group of students are assigned real time projects. They are supported to design and implement the same along with the demonstration. Such assessment strategies help in honing the skills of problem solving, design thinking, participative learning and learning by doing.

2.3.1.1.b Design Project

Another salient feature of curriculum is design projects from

semester III to semester VII. Students are encouraged to come out with innovative solutions for addressing the needs of the society. This is carried out as individual or team activity.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The Institute follows ICT enabled teaching in addition to the traditional classroom education. Subsequent efforts are taken by the institute to provide e-learning atmosphere in the classroom. In addition to traditional method of teaching, the faculty members are using the IT enabled learning tools such as PPT, Video clippings, Audio system, online sources, to expose the students for advanced knowledge and practical learning. 118 classrooms are equipped with Projectors and Smart boards. Most of the faculty use interactive methods for teaching. The major emphasis is on classroom interaction in terms of research paper presentations, seminars, debates, group discussions, assignments, quiz/tests/viva and laboratory work.

Introduction of LMS Moodle for all courses -HITS has adopted MOODLE as learning Management System which is highly flexible system which enables educational institutions the power to extend and add features for an excellent learning environment. HITS initiated to implement several initiatives to empower faculty and students to make use of ICT. 2018 curriculum followed at HITS is designed as a curriculum which introduced MOOC courses as part of the curriculum. The HITS is encouraging the staff to develop online courses using the Moodle. In order to empower the faculty, training programmes have been conducted.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

2.3.3.1 - Number of mentors

347

File Description	Documents
Upload relevant supporting document	No File Uploaded

2.4 - Teacher Profile and Quality

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

619

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.4.2 - Total Number of full time teachers withPh.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

267

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

3133

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

17

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

2.5 - Evaluation Process and Reforms

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

13.5

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

13.5

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

0

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The IT integration through an ERP system has streamlined the entire examination process and has smoothened its functioning while making the whole process more transparent. The examination process features like hall ticket generation, internal and end semester marks Capture, result processing, results publication, generation of semester wise grade sheets, Consolidated grade sheets, Transcripts, Provisional certificate etc.

A self service portal exists for all stake holders (Students/ parents, Head of the departments and the management) for smooth sharing of pertinent information. Marks scored for the Continuous

Internal Assessment (CIA) and End Semester Examinations (ESE) are entered directly into the systems by the evaluators, and the ERP applies relevant weightages to calculate the results.The paper and pen examinations were replaced by online examinations since April 2020 during pandemic situations. It greatly reduces the cost of conducting offline exams. OBE pattern is being followed in the question paper.The university delivers question papers through online at the exact start time of exam. This kind of Question paper delivery system (QPDS) helps in avoiding leakage of question papers and saves lot of stationery and physical movements. Continuous monitoring of examination is done using video recording which will avoid the malpractices.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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)

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

Based on the Program Outcomes and Program Specific Outcomes curriculum is framed where each course has course outcomes. Based on course outcomes syllabus content is framed as five modules.This curriculum and syllabi are placed in Board of studies (BoS) after the scrutiny by different stakeholders such as, Parents, Students, Alumni, Industry, Academicians, and approval through curriculum review committee (CRC). Once BoS approves and recommends it is placed in Academic Council Meeting (ACM) for approval and implementation. A course teacher is assigned a course based on her choice of request and area of expertise.Throughout the delivery of the course focus is on course objective and attainment of course outcomes. Every

activity carried out in classroom is mapped to the corresponding course outcomes of the course. The assessment marks of these activities reflect on attainment of course outcomes of particular course. In addition to these two internal assessments are conducted.When the question paper for internal assessments is set by the course teacher, each question is mapped with course outcomes of the course. A detailed evaluation sheet is prepared for the whole class where each student assessment is mapped with the course outcomes.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The attainment of Program Outcome, Program Specific Outcomes and Course Outcomes are evaluated in the institution level. The course outcome attainment is calculated through internal tests, end semester examination and various other assessment strategy for a particular course. Overall course outcome attainment is calculated through all the above-mentioned methods. This attainment is set against a threshold value, fixed at starting of each semester. In case of non-attainment of course outcomes against the fixed threshold, the course teacher will analyse and submit the continuous quality improvement report for future improvements.The threshold for course outcome attainment is fixed based on student quality, course content, previous track history of course delivery (if applicable) and overall performance of students in past semester. IQAC of the institution will conduct the academic audit every semester to assess the correctness of CO attainment calculation and monitor the CQI. For every batch the course outcome is consolidated to compute the attainment of Program Outcomes and Program Specific Outcomes. As a result of monitoring these outcome attainments, the departments are encouraged for planning and upgrading program course contents. This also paves way for introduction of new programs to cater the needs of students and society as a whole.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

2027

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

https://drive.google.com/drive/folders/1B22uZwKYxeFsPEgCi7OM9cSK5_7j4Ws7?usp=sharing

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

Hindustan Institute of Technology & Science (HITS) is committed to the pursuit of excellence in research and aims to lead the national agenda across the spectrum of science and technology, humanities and social sciences. One of the key objectives is to tackle some of the challenging problems faced by 21st century society through multidisciplinary research. The university promotes industrial collaborations involving active and mutually beneficial R&D projects, publish papers in high-quality journals of international repute, file patents and transfer technologies to relevant industries, provide excellent research culture and infrastructure and create quality human resources for scientific research.The Institute provides an appropriate direction for research and looks into the fact that research leaders are trained in supervisory skills for stages of the research process, outlining or drawing up a hypothesis, identifying and defining research problems, preparing applications for grant and aid, protocol design, data recording and data analysis. Researchers are regularly encouraged to follow good research practices, follow principles of research ethics and data integrity in their research through regular workshops and webinars.The university provides periodic courses to enable researchers to understand and adopt best practices in research as quickly as possible.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

59.98

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

3

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

18

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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	**No File Uploaded**

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

9

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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)

22.8

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

74.17

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

1.7

File Description	Documents
Upload the data template	<u>View File</u>
Upload relevant supporting document	**No File Uploaded**

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

The Hindustan Technology Business Incubator (HTBI) & Hindustan Entrepreneurship and Innovation Centre (HEIC) is focused to encourage the innovative talents and spirits of the students. The HTBI & HEIC is dedicated to the development and growth of innovation and entrepreneurial culture in the campus. The HTBIprovide an active eco-system with the right mentors, funders, entrepreneurs and industry experts is essential for a start-up's growth. We provide the support of our eminent mentor panel, distinguished alumni network and partner organizations.HTBI & HEIC envisions creating an ecosystem in the campus which offers every student a chance to be innovative, creative and tactical to pursue his or her dreams and gain economic, technical and entrepreneurial expertise in their chosen field. The following services are offered at HTBI&HEIC. The student innovators and entrepreneurs are guided by internal and external experts. Mentoring sessions are held on a weekly basis with external mentors. The student start-ups and innovators are introduced to several professional bodies and business networks for furthering their enterprise. More than 2000 innovators and around 200 start-ups are triggered by HTBI so far and 1000 students were got training by student's start-ups. Around 100 patents were applied by student innovators.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

11

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

11

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

66

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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 1. Inclusion of research ethics in the research methodology course work 2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc) 3. Plagiarism check 4. Research Advisory Committee	**A. All of the above**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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	**A. All of the above**

medal at a University function Certificate of honor Announcement in the Newsletter / website

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

66

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

42

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

653

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

388

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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	**D. Any 2 of the above**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

Scopus	Web of Science
4.43	**4.58**

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	No File Uploaded

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
53	**34**

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

Hindustan Institute of Technology and Science (HITS) is an academic institute dedicated to excellence in teaching and research in consonance with the contemporary and future needs of India. The university actively encourages its faculty members and other academic staff members to undertake consultancy projects with industry and other comparable institutions of higher learning in the form of industrial consultancy. Consultancy works are undertaken to suggest solutions to real life problems in industry and socio economic problems experienced in the society. The university offers Consultancy Services to industries, service sectors, government departments and other national & international agencies in specialized areas of expertise available in the university. These service are offered along the lines of 'Professional Services' and will hence carry with them obligations and ethical requirements associated with such services as per the standard terms and conditions. All Consultancy works and related jobs are structured and executed in the spirit of promoting HITS, as a vehicle for augmenting levels of excellence in teaching and research, for proper placement of HITS graduates and in the process of generating funds.The university offers Consultancy and related services under following categories:Individual Consultancy,Departmental Consultancy,Testing and Evaluation / Calibration and Standardization Services

File Description	Documents
Upload relevant supporting document	No File Uploaded

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)

25.29

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

Hindustan Institute of Technology & Science [HITS] jointly with Dr. K. C. G. Verghese Charitable Trust has expressed its oneness with the public and needy and contributed immensely by its innovation and relief activities, worth over Rs. 1.3 Crores, towards the welfare of the society during this pandemic. Hindustan Covid Camps reached out to over 5000 families by distributing essential Groceries like Dhal, Rice, Oil etc., and medical kits that cost over Rs. 50 Lakhs. The camp successfully was set at various villages including Illalur, Kayar, Vembedu, Idayankuppam, Thirupporur, Padur, Kelambakkam, Pudupakkam, Neelangarai and Injambakkam, Chennai, and all Chengalpattu District. Rs. 50 Lakhs was donated to Tamil Nadu CM Relief Fund during Covid first wave.HITS in association with Trier University, Germany has procured Rs. 50 Lakhs worth of Medical kits including Oxygen concentrators. Medical kits were distributed to Government Hospitals (Chengalpattu and Chennai) and Public Health Centers in the adopted villages of HITS. The face masks (FFp2) were also distributed in Kayar, Illallur, Vembedu and Padur villages. Rs. 25 Lakhs worth relief materials (Groceries and Food) were distributed to the needy people in around Thiruprour Town Panchayat along with Rotary and Y's Men Community of HITS.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

40

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

4435

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

19

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

26

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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 institution has various facilities to impart teaching-learning process and the details are furnished hereunder:All classrooms are built in accordance with the guidelines published by statutory bodies like CoA, BCI AICTE, etc. There are 163 classrooms, well ventilated and furnished are spread over 10 blocks to provide both theoretical and practical information for students. Most of the classrooms have latest ICT/AV facilities, few of them are smart classrooms. In addition, the institution has approximately 19 AC and wi-fi enabled seminar halls in champion classes for Symposia, Workshops, Group discussions, etc. As a precaution towards COVID-19 spread all seats are well spaced out and arranged with care to avoid interpersonal contact.A total of 104 laboratories are available at the institution.HITS has always been in the forefront adopting technologies and providing IT enabled service to all its stakeholders and has a clear policy regarding Information Technology. The policy with the vision to provide state of the IT infrastructure and make all the content and services IT enabled with the mission to nourish the IT infrastructure regularly and remain at the cutting edge of technology, accord to legalized use of software systems and applications.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

HITS has a versatile environment that allows integrated development of body and mind through provision of facilities that enhance, develop and nurture skills in sports, cultural and performing arts that showcase inherent talent and artistic expressions.Studentsare tremendously encouraged to participate in cultural activities.Institution have capacities ranging from 175 to 1000 students and are used to host wide cultural festivals. Students have access to practice rooms withcapacities ranging from 15 students to 60 students to nurture and train aspiring students for national and international events. These practice rooms are also used to host club meetings and various activities for music, dance, arts, literary youth empowerment clubs.The Yoga centre is well adulated by yoga club through which international yoga day' is organized and many active happenings are adorned.HITS has an excellent infrastructurewith all facilities for sports and recreation help students to improve their physical and mental well-being, thereby producing good and outstanding sports persons.Our sports and recreation facilities include 20 courts for outdoor games and 06 Indoor courts for indoor games are available including the ones inside hostels. Our students viz. Dinesh Karthik, Washington Sundar, Shah Rukh Khan currently play for India and in IPL.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

4.1.3 - Availability of general campus facilities and overall ambience

The campus resonates with a breath of fresh air amidst the concrete jungle in Chennai. Sprawled over 38.5 Acres, HITS campus is a mixture of calmness, proximity to nature, smoke free, lush green, open space and unique architectural design.

The campus is adjoining the breath taking Muttukadu backwaters and thus boasts of a serene salubrious seascape visible from all the high rise buildings. The gentle sea breeze that caresses the lush green arboriculture evokes a feel of serenity to one and all

visiting the campus.

- **The main building is a picturesque vintage pillar architecture with sandwiched Kerala tiles which testifies the uniqueness of the building.**
- **The SPADE building is a unique in its façade, a parabola adjacent and sunken tile structures.**
- **The Jubilee block has an embossed mural that depicts the essence of all courses taught at Hindustan and literally stands tall and imposing.**
- **The founders block is oval in architectural terms with finesse written all over it.**

HITS campus provides comprehensive facilities that are mentioned below

- **Accommodation.**
- **Central Kitchen and dining facilities.**
- **Safety.**
- **Sports Facilities.**
- **Medical Facilities.**
- **Cleanliness & Hygiene.**
- **Horticulture and Gardening.**

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

2403.17

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

4.2 - Library as a Learning Resource

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

The HITS library is situated in the founder's block of the University campus with a total carpet area of 65,000 sq. ft. (Carpet area of Library-6039 sq.m and Reading Space-1394 sq.m) There is a beautiful botanical garden around the library, with a vehicle parking facility available outside the library. Ramp facility and Lift are also available for differentially abled students. The Library is centralized Air-Conditioned in all its 3 Floors. With a huge collection of over 2,14, 363 volumes of book, 389 International/National periodical in print, back volumes and over 3500 CDs/DVD, the library houses more than 42,000 e-journals and 20,2542 e-books with online database, via IEEE, SAE International, AIAA, SPRINGER LINK, SCENCE DIRECT, PROQUEST, EBSOC with Remote Access etc. Digital Library has 65 Apple IMAC systems, 10 I PATE with Wi-Fi Internet Connectivity for the faculty, research scholar and students to access Online Electronic Information Resources. Apart from these 65 IMAC systems, there are 10 laptops and 5 numbers of Amazon Kindle devices which are issued to students. The library has another 25 computers for the students to access OPAC and E-Resources. Besides a central library, departmental libraries collectively support the teaching, research, and extension program of the institute.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded

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

96.57

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

676

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

156

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

HITS has always been in the forefront adopting technologies and providing IT enabled service to all its stakeholders and has a clear policy regarding Information Technology. The policy with the vision to provide state of art IT infrastructure and make all the content and services IT enabled with the mission to nourish the IT infrastructure regularly and remain at the cutting edge of technology, accord to legalized use of software systems and applications. To provide fail safe and secure IT infrastructure that can provide a platform for all type of information and technology.

Institution has a Department of Information & System Management which looks into the IT infrastructure related matters. The departmentprovides integrated IT services such as smooth running of systems, servers & peripherals, up-gradation and maintenance of software and hardware, troubleshooting of networking equipment

including internet connectivity, Wi-Fi connectivity, Email creation & support, procurement of hardware & software, staff biometric services, CCTV connectivity & maintenance. Campus is networked with single and multimode fiber optic cables covering a distance of around 2000 meters for faster and efficient connectivity and Wi-Fi internet facility provided in Hostels, Library, Smart Class rooms, Seminar Halls, Auditoriums and Common places including Canteens.

File Description	Documents
Upload relevant supporting document	No File Uploaded

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
6726	1478

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded
Upload the data template	View File

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

3905.41lakhs

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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.

HITS aims to provide an immaculate and conducive environment to foster knowledge amongst students and research scholars alike while helping the faculty and non-teaching staff to excel in their jobs. While academics becomes the sword arm in this endeavour "Admin" is a capable supporting arm that has accentuated the efficiency of the University. In order to achieve this objective, HITS has established a dedicated Administration Department which has standardised systems and processes for regular and timely maintenance as well as optimal utilization of structures, classrooms, laboratories, sports facilities, hostels, canteens, greens and turfs.

At the policy level, all maintenance work is categorized into annual maintenance, routine maintenance and preventive maintenance. HITS policy mandates that all equipment including laboratory and computer systems either have up-to-date annual maintenance contracts or supported by well-trained in-house technical staff. Policies such as zero litter policy, no spitting policy, no smoking policy, which relate to public cleanliness and hygiene are strictly enforced as well.

HITS also ensures a zero waste campus with its staff ensuring complete conversion of food waste garden waste into compost to be utilized for Gardens and Farms. Central Air Conditioning is selectively provided through well-maintained chiller plants, Air Handling Units, and ducts.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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)

4005

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

2225

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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	View File
Upload relevant supporting document	**No File Uploaded**

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	• **All of the above**

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

78

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

1495

File Description	Documents
Upload the data template	View File
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

250

File Description	Documents
Upload the data template	View File
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

69

File Description	Documents
Upload the data template	[View File](#)
Upload relevant supporting document	**No File Uploaded**

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

The Hindustan Students Council (HSC) plays an integral part in student management in the institution. It consists of 26 members representing different departments. It is a composite council with a wide variety of members from different states, languages and cultures. It is a gender balanced council with an equal representation of boys and girls. Members of the HSC are involved in all activities of the institution.

From academic to co-curricular to social activities, HSC is a vibrant institution. Grassroot democracy is fostered through the involvement of Class Representatives and HSC members.

Class Representatives are found to actively participate in the curriculum formation and to put in place student amenities to airing grievances and getting it solved. The bottom to top approach is fruitful in resolving the student grievances quickly.

Bi-monthly meeting of Class Representatives are held in the department and their concerns and grievances are listened and are taken up for resolving.

The Class Representatives are connected to the HSC. Through this strong network, institution is very active.

HSC takes lead in giving inputs for futuristic curriculum, innovations, path-breaking research, entrepreneurship and skill development. They are actively guided by the faculty.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

27

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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

HITSAA is registered as a Society (Sl. No. 156/2014) under the Tamil Nadu Societies Registration Act 27 of 1975. HITSAA Office is situated on the campus and is actively functioning since 1993.

HITSAA acts as a bridge between the alumni and the institution and provides a channel of communication for interactions of alumni with students and faculty. HITSAA Office manages Alumni Relations which include catering to the Alumni needs, establishment and operation of National and International Alumni Chapters, Alumni Reunions, the release of HITSAA Newsletter, and so on.

Membership of HITSAA is open for all graduates of erstwhile Hindustan College of Engineering (HCE) and Hindustan Institute of Technology and Science (HITS), and all such people who pursued Short term courses, Certificate or Diploma programs from the University.

HITSAA has established five international Alumni Chapters and many city chapters within India. Plans are underway to inaugurate Alumni Chapters at Singapore, USA Alumni Chapter (East Zone, Texas, Mid-West Coast, & West Coast)

HITSAA Social media accounts for information exchange on a day-to-day basis. Around 19,000 alumni follow us on social media. We are active on LinkedIn, Twitter, Facebook, and Instagram. Also we have a dedicated alumni website alumni.hindustanuniv.ac.in.

File Description	Documents
Upload relevant supporting document	No File Uploaded

5.4.2 - Alumni contribution during the year (INR in Lakhs)	A. ? 5Lakhs

File Description	Documents
Upload relevant supporting document	No File Uploaded

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

The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance of the institution. The vision and mission of the institution has been revised in 2018. Institution has received the feedback from various stake holders and the suggestions were reviewed by a committee headed by Dr. K. M. Mehata, Senior Professor. The revised Mission and Vision statements have been placed for review and approved in the 25th Academic Council, held on 06.10.2018.

MOTTO

To Make Every Man A Success and No Man A Failure

VISION

To be an International Institute of Excellence, providing a conducive environment for education with a strong emphasis on innovation, quality, research and strategic partnership blended with values and commitment to society.

MISSION

- To create an ecosystem for learning and world class research.
- To nurture a sense of creativity and innovation.
- To instill highest ethical standards and values with a sense of professionalism.
- To take up activities for the development of Society.
- To develop national and international collaboration and strategic partnership with industry and institutes of excellence.
- To enable graduates to become future leaders and

innovators.

VALUE STATEMENT

Integrity, Innovation, Internationalization.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The institute has well-defined decentralization policy in line with UGC and other statutory councils. The various stake holders include students, parents, staff, alumni, industrialists and academicians are participating in the process of defining the policy, process and decision making through various committees. The faculty members are involved in Board of Management (BoM), Academic Council (ACM), Planning and Monitoring Board, Finance Committee and Board of Studies (BoS) and other committees. The BoS has consists of eminent industrialist, alumni, external academician and faculty. The Academic Council has been constituted inline with UGC regulations. The institute has been very successful in implementing a decentralized model of governance. This model ensures participative management. Board of Governors,meets regularly, and the proceedings are conducted in a transparent manner. The Finance committee appraises the BOM pertaining to the finances of the institution. Budgetary provisions for the department are made based on the requirements provided by the HOD. The Institution also publishes audited financial statements on its website.IQAC of the institute monitors the activities of all committees and sub committees. The institution also focusses on Student Centric Learning which helps the student to enhance his creative and critical thinking abilities.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The Institution has prepared the Institutional Strategic Plan for

2025 which is formulated by considering the Emerging trends in Higher Education in India, World Class Universities, and the Interactions with stakeholders of the Institution. The strategic plan has set the targets / goals thatillustrates the ways of achieving the targets and goals over the timeline. A team of Senior Professors are involved in monitoring the implementation of the strategic plan. The progress in achievement of the targets is reviewed periodically.

Strategic Plan

Targets for accomplishment

Branding and Visibility

- To establish 1 center for excellence each in Aero and Auto
- To build minimum 5 industry partnerships for each center
- To generate fund up to Rs. 10 Lakhs per center through collaboration with industries / institutions in India / Abroad

Research Excellence

- One Research Centre/Centre of Excellence in each Department
- Two research papers by each faculty per year in Scopus/Web of Science Indexed Journals
- Rs. 50 crores worth of the funded research projects

Faculty Excellence

- Around 35-40 FDP and Skill development programs to be conducted in a year
- Each department shall conduct FDP per year as per the formula: No. of FDP = 10% of the Department faculty

File Description	Documents
Upload relevant supporting document	No File Uploaded

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.

QUALITY POLICY

1. To provide students with the latest and the best in the rapidly changing field of Engineering, Technology, Management and Human development.
2. To nurture students with competence, skill and state-of-the-art professionalism thus rendering them capable of taking up any challenges in their respective field.
3. To mould students into responsible citizens with moral, ethical and social values so as to fulfil their obligations to themselves, to the nation and the society at large.

ADMINISTRATIVE SETUP

The various statutory bodies are listed below

1. Academic Council Meeting
2. Board of Management
3. Planning and Monitoring Board
4. Finance Committee

APPOINTMENT, SERVICE RULES AND PROCEDURES

- HOD of departmentsreview the staff requirements and availability based on the AICTE/UGC norms. The subcommittee prepares the faculty requirements and submit the same to the IQAC.
- The faculty requirements are perused by the Recruitment and Selection Committee and submits the report to the ViceChancellor for approval of the BOM
- BOM approves the requested requirements after perusing the requirements
- Advertisements are released in the leading newspapers
- Applications are received and scrutinized based on criteria prescribed for the position.
- The short-listed applicants are invited for the interview process.
- The selection committee recommends the selection of candidates to BOM and appointed by Registrar.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	View File
Upload relevant supporting document	**No File Uploaded**

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

The Performance Based Appraisal System (PBAS) is a unique system as designed as Outcome Based Appraisal System in reference to the Accreditations and Ranking agencies includes UGC, AICTE, NBA, NAAC, NIRF, Vision -2025 of the Institution. This unique assessment system was introduced in 2018. The Intellectual Property of Copyright (R.No: L-93939/2020) for the system has been obtained for the Institution. The outcome based PBAS system has been enriched every year based on the feedback and suggestions of various stakeholder's year by year. The institution is providing the performance based incentive range from 5% to 12% of their basic pay over and above the salary.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

459

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	**No File Uploaded**

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

71

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

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)

472

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded

6.4 - Financial Management and Resource Mobilization

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

The Institution's major income is from fees which is collected systematically from the students. Annual budgets are pared to systematic and planned utilization of resources. All the departments and units of the Institution provide their budget requirement each year and are allowed to utilize budgeted amounts for departmental improvements and purposes. Capital Projects are planned and executed for the development of the Institution.

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 V) (INR in Lakhs)

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

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)

0

File Description	Documents
Upload the data template	**No File Uploaded**
Upload relevant supporting document	**No File Uploaded**

6.4.4 - Institution conducts internal and external financial audits regularly

Institution conducts regular annual statutory (external) audit and statement of accounts are certified by Statutory Auditors. Internal audit is conducted by the Institution and reports are submitted to the Management for perusal and remedial measures.

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

6.5 - Internal Quality Assurance System

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 & methodologies of operations and learning outcomes at periodic intervals

The primary aim of HITS IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

The academic audit system reviews the regular academic work during each semester under the well organized under the Internal Quality Assurance Cell (IQAC), which ensures quality constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes. Academic audit

is carried out based on the institution activities and department activities scheduled as per the institutional academic calendar and the department academic calendar prepared and communicated by the institution and the department respectively. IQAC academic plan compliance and declaration report is also monitored by the Internal IQAC coordinator for every department. Based on the academic activity listed compliance report has been generated after final verification by the Head of the Department for external auditing system. In order to monitor the internal auditing system, the external audit will conduct twice in an academic year (Each per semester) by a team of member other than the parent department.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	View File
Upload relevant supporting documment	No File Uploaded

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)

The institution has a regular practice of Quality enhancement in academic and administrative activities of the institution through IQAC. The IQAC conducts academic and administrative audit every year. The various departments submit the Quality Evaluative Report with SWOC analysis as per the prescribed format. The reports are reviewed in the IQAC meeting and the necessary direction, guidelines, policy were communicated to the concerns

for the effective implementation and enrichment of Quality in the process. The process of quality enhancement is carried out through the following

- Introduced reforms in the online Performance Based Appraisal System (PBAS) for faculty quality improvement
- Quality Audit Processes for NBA (5 Programmes), NIRF and QS rankings with regular audits and quality feedback.
- Improving quality of teaching by insisting the faculty to pursue MOOC courses and attend the faculty development programmes from institutions of repute.
- Improve quality of research by emphasizing faculty to publish their research work in indexed and Q1 journals.
- Curriculum and Syllabus Revision for all the programmes of the University
- Introduced Quality control audits for Laboratory practices
- Preparation and dissemination of Strategic Plan and its implementation for the University for Rankings and Accreditation.
- Introduced project-based learning for all courses.

File Description	Documents
Upload relevant supporting document	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

The institution has 42% of women employees. The institution has established several centers in the campus for women welfare. The centers promote gender equity, women empowerment and addressing the various challenge of woman. The centers include Fempower (women empowerment cell),Gender equality cell, Women grievance cell, Internal Complaint Committee (ICC) - prevention of sexual harassment, Women welfare committee and Women Counseling Cell. A total of 217 events were conducted for women welfare, women empowerment, women awareness, motivational talk, celebrations and other skills enhancement programmes for women.

The institution has the dedicative facilities for the women in the campus that includes Women's Hostel for girl students, Guest House for working women, Kids Day care for working women, Women leisure room in each block of the building. The institution provides maternity leave for all the eligible women in the

institution.

The institution has offered the scholarships worth of 28 Crores (approximately) to the needed students in the last academic year. An exclusive scholarship, namely "Dr. Elizabeth Verghese Founder Chancellor Scholarship" is provided only to girl students of low-income parents.

The institution also has a dedicative lady counselor, lady nurse and a lady doctor for the welfare of women students and staff.

File Description	Documents
Upload relevant supporting document	No File Uploaded
Annual gender sensitization action plan(s)	Nil
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	Nil

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	No File Uploaded

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

The waste management policy og the institute is to Reduce, Reuse and Recycle. The food wastes from hostels and campus canteen have high organic content and hence its treatment by the process of bio-methanation which is most viable as it produces useful products like biogas and enriched manure. A study was conducted where lab-scale bio-methanation studies for biogas recovery from

food waste generated from hostels in HITS, we have achieved maximum quantity of biogas production from food waste along with novel waste materials. The HITS diverts more than 50 % of its waste from landfills. We have recycled an average of 34 % waste, our goal is to reduce the E-waste generation. Waste segregation bins system is followed at HITS campus. At the end of every semester exams, the donation box for books is available in all hostels to collect the books and the books will be re-distributed and available to needy students. Students have choice for networking through a healthy exchange of books. Book swap was a successful and interactive initiative where the students have to go with books in hand.

File Description	Documents
Upload relevant supporting document	No File Uploaded

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	No File Uploaded

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	No File Uploaded

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	**No File Uploaded**

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	**No File Uploaded**

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)

The institution has taken lot of initiatives to provide an inclusive environment by contributing to local community in multiple ways. The institution has adopted the local village and has taken wide steps to cater the needs of the village people by providing the necessary commodities and organizing awareness program for them. More than 200 students and staffs participate in each activity and bring out harmony towards cultural,

regional, linguistic, and socioeconomic environment. An overview of few such initiatives/efforts taken in the institution are tabulated below:

Number of initiatives to address locational advantages and disadva ntages

Number of initiatives taken to engage with and contribute to local community

Date

Duration

Name of the Initiative

Issues addressed

Number of participating students and staff

5

5

20-07-2019

5

Village Survey [UBA]

Issues and Needs of Village

200

1

1

15-08-2019

1

Sudhandhira thinam& Rainwater Harvesting awareness

Rain Water Harvesting

50

1

1

07-09-2019

1

One student One tree

Deforestation

200

1

1

07-09-2019

1

Blood Donation Camp

Blood Donation Camp

488

1

1

24-09-2019

1

Swachatta Hi Seva campaign

Cleaning Awareness

200

1

1

08-10-2019

1

Rain coat distribution

Community Service

500

1

1

21-01-2020

5

Swachh Pakhwada

Cleaning Awareness

300

1

1

26-01-2020

1

Republic Celebrations & Gram sabha. [UBA]

Issues and Needs of Village

50

1

1

14-02-2020

1

Blood Donation Camp

Blood Donation Camp

472

1

1

17-03-2020

5

Corona awareness Camp

Awareness program

100

1

1

11-05-2020

20

Hindustan Covid Camp

Relief Kit Distribution to 5000 Families

100

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

The institution has made persistent efforts to make the students and employees to be a responsible citizen of the country. Various events and awareness programmes are organized to inculcate the

values, rights, duties, and responsibilities, namely, Independence Day, Republic Day, Voter Awareness Rally, International Day of Yoga, Green Diwali, Rashtriya Ekta Diwas (National Unity Day) etc., Moreover a course on Professional ethics and Life skills is offered to every student as part of their curriculum. This would enrich their knowledge on the human values, by obliging the duties and make them more responsible towards societal commitments.

The awareness pertaining to significance of Indian Independence, culture, and constitutional rights etc., are furnished to the students and employees by celebrating the national and international commemorative days, events and festivals every year. Massive volunteer clean up campaigns aligned to Swachh Bharat missions have involved thousands of students and staff in the institution. The details of few events celebrated in the institution can be overlooked in the following links:

- https://hindustanuniv.ac.in/events/Azadi-Ka-Amrut-Mahotsav
- https://hindustanuniv.ac.in/events/VOTERS-AWARENESS-RALLY
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MOTHER-LANGUAGE-DAY-2021
- https://hindustanuniv.ac.in/events/72ND-REPUBLIC-DAY
- https://hindustanuniv.ac.in/events/PANEL-DISCUSSION-ON-EQUITY-DIVERSITY-INCLUSION-IN-AN-ERA-OF-COVID
- https://hindustanuniv.ac.in/events/NATIONAL-SCIENCE-DAY

- https://hindustanuniv.ac.in/events/GREEN-DIWALI-2019
- https://hindustanuniv.ac.in/events/WALK-FOR-WATER-2019
- https://hindustanuniv.ac.in/events/NCC-OCTOBER-ACTIVITIES
- https://hindustanuniv.ac.in/events/SCIENCE-MEET
- https://hindustanuniv.ac.in/events/TEACHERS-DAY-CELEBRATIONS-2019
- https://hindustanuniv.ac.in/events/73RD-INDEPENDENCE-DAY-CELEBRATIONS

https://hindustanuniv.ac.in/events/NATIONAL-FOLK-FESTIVAL

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	All of the above

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

File Description	Documents
Upload relevant supporting document	**No File Uploaded**

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

Hindustan Institute of Technology and Science has made sincere efforts to celebrate National days such as Independence Day, Gandhi Jayanthi, Republic Day, and other cultural and religious festivals such as Pongal, Onam, Christmas, Diwali, Ugadi, etc., Our Independence Day celebrations involves cultural programs and patriotic plays that portray the diversity of cultures in India. International Day of Yoga is celebrated involving yoga practice and training sessions with staff and students. Moreover, the institution also celebrates World Women's Day, International literacy day, World Water Day, World Social Work day, World Theatre Day, World Mathematics Day, Earth day, World Health day, International Youth Fellowship, Mindset & Culture Day, English Language Day, portraying the significance of each day through eminent speakers. More information related to the national and international commemorative days, events and festivals celebrated in the institution can be seen in the following links:

- https://hindustanuniv.ac.in/events/Azadi-Ka-Amrut-Mahotsav
- https://hindustanuniv.ac.in/events/NATIONAL-SCRABBLE-DAY-2021
- https://hindustanuniv.ac.in/events/WORLD-THEATRE-DAY
- https://hindustanuniv.ac.in/events/INTERNATIONAL-WOMENS-DAY-CELEBRATION-21
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MOTHER-LANGUAGE-DAY-2021
- https://hindustanuniv.ac.in/events/72ND-REPUBLIC-DAY
- https://hindustanuniv.ac.in/events/PONGAL-CELEBRATION-2021
- https://hindustanuniv.ac.in/events/YOGA-FOR-HOLISTIC-HEALTH
- https://hindustanuniv.ac.in/events/INTERNATIONAL-DAY-2019
- https://hindustanuniv.ac.in/events/INTERNATIONAL-WORKSHOP-ON-SUSTAINABLE-ENERGY-AND-SMART-GRID
- https://hindustanuniv.ac.in/events/5TH-ANNUAL-INTERNATIONAL-YOGA-DAY-2019
- https://hindustanuniv.ac.in/events/INTERNATIONAL-MENSTRUAL-HYGIENE-DAY

- https://hindustanuniv.ac.in/events/WORLD-HEALTH-DAY
- https://hindustanuniv.ac.in/events/CELEBRATION-OF-WORLD-THEATRE-DAY-ON-ABOVE-AND-BEYOND-A-SOJOURN-THROUGH-DRAMA

File Description	Documents
Upload relevant supporting document	No File Uploaded

7.2 - Best Practices

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

Title of Practice: Project Based Learning (PBL). The unique practice of the PBL is practiced in all departments. A sample is illustrated here practiced in Basics of Mechatronics Engineering.

Objectives of thePractice

The Objective of this PBL is to give students the opportunity to develop knowledge and skills through engaging in projects set around challenges and simple problems they may face in the real-world mechatronic systems applications. The concept of thispracticeis through design of solutions by identifying and integrating the elements of mechatronics systems such as sensor, controller, and an actuator.

The Context

Solving problems for simple mechatronic system design Presence of at least a sensor, actuator, and controller Analog or Digital controller except the microcontroller should be used.Total cost of the product should be less than Rs. 500.

ThePractice

Design, develop and demonstrate a simple mechatronic system having at least a sensor, Actuator and a Analog/ Digital controller, where the outcome complements the theoretical knowledge and enhance creative thinking and problem solving skills

Problems Encountered and Resources Required

- Short of time or Availability of time
- Guidance for self-learning

- **Project Cost and Teamwork**
- **Adequate resources**
- **Software and Modelling**

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)

The School of Aeronautical Sciences, being the flagship School of HITS, housing the Department of Aeronautical and Aerospace Engineering since 1996. The B. Tech. Aeronautical Engineering programme offered by Department of Aeronautical Engineering is accredited by NBA.Endowed with various types of Aircraft, Flight Simulators, Helicopters, and Fatigue Testing Machine, the School applies latest technology to study the advancement in the field of Aviation, Space Exploration and Defence System. The School houses the Centre of Excellence for Centre for Autonomous Systems, Aircraft Maintenance and SIMCRASH under its flagship. The strong collaborations with International Universities offer Semester Abroad programme for students at IPSA, ENAC, MAI. Nebula Astro, Aero, HITS Rocketry & CubeSat Clubs are some of the active Clubs which provide opportunities to students participate in international competitions sponsored by NASA, Airbus, UVSI, SAE International etc., and get to design and develop new and innovative products. The School consists of experienced faculty members from industry (DRDO, HAL, IAF, DLR) who have published over 450 Scopus indexed journal publications and filed 7 Indian patents & published 6 International Patents. The School received funded project of worth INR 15 Crores and Consultancy of INR 2 crores.

7.3.2 - Plan of action for the next academic year

Strategies /Targets Proposed:NAAC Accreditation – 2nd Cycle

Target Year:2022

Compliance from 2016 - 2022:HITS accredited by the NAAC with 3.30, A grade in 2016. The application (IIQA) has been submitted to NAAC. The SSR is prepared and uploaded in the portal. The approval of SSR and the committee visit is pending

Strategies /Targets Proposed:All programmes with NBA Accreditation

Target Year:2023

Compliance from 2016 - 2022:5 programmes are accredited by NBA in 2019.Another 5 departments have applied and Visit is to be scheduled in April 2022.

Strategies /Targets Proposed:300 full time Ph.D. scholars

Target Year:2023

Compliance from 2016 - 2022:HITS has total of 483 PhD scholars which includes 86 full time scholars.

Strategies /Targets Proposed:Research centers in all departments

Target Year:2025

Compliance from 2016 - 2022: Already 14 research centres have been established. 5 more centres in the emerging areas are in the pipeline to be established.

Strategies /Targets Proposed:Strengthening International Collaborations

Target Year:2025

Compliance from 2016 - 2022: HITS has 35 active MoUs with international institutions and exchanged a total of 85 students and staff upto 2021-2022.