



YEARLY STATUS REPORT - 2023-2024

Part A	
Data of the Institution	
1.Name of the Institution	Harcourt Butler Technical University
• Name of the Head of the institution	Prof. Samsher
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	09554449900
• Mobile no	09554449900
• Registered e-mail	deanceiqa@htu.ac.in
• Alternate e-mail address	vdkaushik@hbtu.ac.in
• City/Town	Kanpur
• State/UT	Uttar Pradesh
• Pin Code	208002
2.Institutional status	
• University	State
• Type of Institution	Co-education
• Location	Urban

• Name of the IQAC Co-ordinator/Director	Prof. Vandana Dixit Kaushik				
• Phone no./Alternate phone no	09554449900				
• Mobile	8318694566				
• IQAC e-mail address	deanceiqa@htu.ac.in				
• Alternate Email address	vdkaushik@hbtu.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year))	www.hbtu.ac.in				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	Yes				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.29	2023	10/06/2023	09/06/2028
6.Date of Establishment of IQAC			01/09/2021		
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
HBTU/PL	UPCST	UPCST	2023, 3 years	1170000
HBTU/ME	UPCST	UPCST	2023, 3 years	1808000
HBTU/CH	UPCST	UPCST	2023, 3 years	1236000
HBTU/CE	SERB_SURE	SERB	2023, 3 years	1811000
HBTU/BE	CPCB	CPCB	2023, 3 years	5700000
HBTU/ME	UPCST	UPCST	2023, 3 years	1500000
HBTU/CH	UPCST	UPCST	2023, 3 years	1536000
HBTU/CSE	UPCST	UPCST	2023, 3 years	1308000
HBTU/ME	DST	DST	2023, 3 years	1200000
HBTU/FT	DST	DST	2023, 3 years	3507000

8. Whether composition of IQAC as per latest NAAC guidelines	Yes
<ul style="list-style-type: none"> Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	01
<ul style="list-style-type: none"> 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

<ul style="list-style-type: none"> (Please upload, minutes of meetings and action taken report) 	View File
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> If yes, mention the amount 	
11. Significant contributions made by IQAC during the current year (maximum five bullets)	
<p>1.) In order to identify the fast learners and slow learners diagnostic test was conducted for first year students in subjects- maths, english, physics, chemistry during the induction program. The diagnostic test was held on 31.08.2024. Approximately 2000 students participated in the same and the identified slow learners were given remedial classes in their weak areas and as a result the students performed well at the end of their first semester. The fast learners were given opportunities to become class representatives and the list was provided to respective departments so that they can be given chance to participate and play their role in departmental activities like conferences, seminars, FDPs etc. 2.) For effective implementation of mentor-mentee system well defined policy was enforced to give maximum benefits to students. Proper log books of mentor-mentee interactions were maintained in all the departments, mentors to mentee were assigned from the same departments so that the students have full connect and sense of belongingness towards their mentor, mentor to mentee ratio within the ideal limit of 120 was ensured. It was observed that students were very responsive and they shared their issues with mentor and quick actions were taken by the respective mentors. 3.) Many positive efforts were taken for promoting gender sensitivity through various programs held round the year, value added courses baskets were formulated by various departments, courses on human values were conducted, and many extension and outreach activities were conducted. 4.) The University participated in AISHE, NIRF, India Today Ranking, NBA, regular information pertaining to 120 Prapatra to be submitted to Raj Bhavan monthly, participation in QS Asia and QS world ranking. Three departments of the University- Chemical Engineering, Electrical Engineering and Civil Engineering got NBA accreditation for 03 years, the visit of the NBA team experts was conducted in the month of April, 2024. The University qualified for NIRF ranking in the category of State Public Universities in 50-100 band. In India Today ranking the University received 19th rank and in IIRF ranking the University received prestigious 10th rank and as a result HBTU,</p>	

Kanpur received an award from IIRF in the category- "Benchmark University for Technical Education" in a conclave organized at New Delhi on 09.11.2024. 5) The IQAC has planned to organize international conference in the April, 2025. The IQAC did MOU with industries and foreign Universities for conducting research and student exchange programme. The IQAC has planned to conduct academic audit for different departments of the University.

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
Conducting International Conference every year	International Conference is planned to be conducted on 4th to 5th April, 2025,
MOU with foreign Universities	University did MOU with countries for conducting research.
Academic audit of Departments	Academic audit has been in this academic year for improvement of academic structure of departments
NIRF Ranking	University received NIRF ranking in public state University category (50-100 band))
India Today Ranking	University received India Today ranking (19th rank in Engineering)
IIRF Ranking	University received India IIRF ranking (10th rank in Engineering). As a result the University received an award from IIRF in the category-

13. Whether the AQAR was placed before statutory body?

No

- Name of the statutory body

Name	Date of meeting(s)
Executive Council	25/07/2024

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?

No

15. Whether institutional data submitted to AISHE

Year	Date of Submission
2024	03/02/2025

16. Multidisciplinary / interdisciplinary

Multidisciplinary and interdisciplinary teaching and learning has been used in Indian Education System since ancient times. The ancient higher education gave lots of thrust towards holistic development of the students imbining in them not only technical knowledge but also creative skills, human values, cultural exposure, ethics etc. The ancient education system has proven to be the best education system in the world as at that time due to the education system prevalent in India, our country was called "Vishwa Guru" or "World Mentor". Over the years, there have been many reforms in the education system especially after the British colonial rule, when our education system felt a shift from ancient methods of learning to practical methods of learning and especially in higher education which is continuing till now. National Education Policy (NEP) 2020 is announced by the Government majorly to fulfil the paradigm shift in teaching-learning process with the main focus towards making our country "World Mentor" and move towards building a stronger foundation towards excellence and march towards meeting global standards. Further, towards holistic development of students by preparing them to be innovators, job providers rather than job seekers and finally preparing them to resolve societal/ social problems as well as issues. All this cannot be achieved unless a student studies and understands different subjects which are offered to him/her under multidisciplinary section. In this light Harcourt Butler Technical University, Kanpur (HBTU, Kanpur) has implemented NEP 2020 from its academic session 2022-2023 at the undergraduate level. The students are offered various subjects which have interdepartmental credits. The main highlight being, the student of 4th year B.Tech. program completing courses with 20 or more additional credits in the area other than their branch of study (for example a Mechanical Engineering B.Tech. student if students 20 or more credits of Computer Science & Engineering with a specialization

towards Internet of Things) will be awarded degree of B.Tech. with major in their branch of study along with minor degree of specialization of additional courses (for example B.Tech. in Mechanical Engineering with minor degree in Internet of Things). HBTU., Kanpur is committed to revise all other programs based on NEP 2020 from next Academic Session, 2023-24 and give its students a competitive environment in terms of teaching and learning.

17.Academic bank of credits (ABC):

The academic bank credit has been prepared by the U.P government and Harcourt Butler Technical University, Kanpur will in due course of time implement and adopt credit transfer system as per the guidelines laid down by Higher Education Department and how the students will be benefitted from it. HBTU., Kanpur is amongst the top Universities to have adopted NEP 2020 from the Academic Session, 2022-23. The system offers extreme flexibility to the students. Any student leaving the University after completion of 1st Year B.Tech. program will be awarded Certificate of Engineering & Technology (so that the student is still employable), any student after completing 2nd Year will be awarded Diploma in the relevant branch of study and so on and so forth. Not only this, the possibility of student re enrolling in the University after some gap of few years and completing her/ his rest of the credits to get the degree will be explored and implemented from coming Academic Sessions. Also, the student of 4th year B.Tech. program completing courses with 20 or more additional credits in the area other than their branch of study will be awarded degree of B.Tech. with major in their branch of study along with minor degree of specialization of additional courses. The aim is to provide students to undertake inter disciplinary courses. Interdisciplinary approach enables integration of concepts, theories, techniques, and perspectives from two or more disciplines to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline and further make the students more employable.

18.Skill development:

Harcourt Butler Technical University, Kanpur (erstwhile HBTI, Kanpur) was established in 1921 to provide technical know how to nascent industries in the region. We continue to serve to the best of our abilities by catering to the needs of industry and the society. Keeping pace with rapid changes in the technology and requirements of the industry, we have been continuously updating our curriculum with the main aim towards nurturing relevant skills amongst our students. Our Curriculum Design and Development is totally oriented towards fulfilling the local, national, regional

and global developmental needs of the society at large. Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) of each course is meticulously stated and they are aligned to the vision and mission of the University. Proposed program curriculum is thoroughly discussed in the meeting of Board of Studies (BoS) of the Department comprising of all faculty members, external domain experts and the representatives of the alumni / students. Finally, this program curriculum is sent to the Academic Council of the University for approval. While revising the program curriculum, focus on employability / entrepreneurship / skill development of the students is always upper in mind. The Choice Based Credit System (CBCS) / Elective Course System was introduced in the erstwhile Institute to allow students to choose courses from a basket of courses as per his / her choice and requirements. Courses on professional ethics, human values and environment are included in each program to inculcate professional traits at work place. Due weightage is accorded to the field projects / research projects / internships and value added courses for imparting knowledge, skill and real life problem solving ability. Due to the meticulously designed course curriculum, the placement statistics at HBTU., Kanpur are remarkable with more than 75% students placed in renowned companies and many of them have multiple job offers.

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

Harcourt Butler Technical University, Kanpur has been a premier University with its Vision and Mission totally aligned to cater to local, regional, Indian and global knowledge system along with addressing to societal needs through technical solutions and innovations. The Vision of the University is "To achieve excellence in technical education, research and innovation" and the mission is, to be a Technical University driven to Knowledge to develop analytical ability amongst the students in science and technology to serve the industry and society at large so that the students develop conceptual, technical and managerial skills to transform the organization and society. Further, they entrepreneurial philosophy and innovative thinking to promote research, consultancy and institutional social responsibility and finally to serving people, society and nation with utmost professionalism, values and ethics to make development sustainable and quality of life. HBTU, Kanpur being the top notch State Technical University is fully committed towards developing an understanding amongst our students to respect diversity and cultural differences and also to develop a respect towards diverse cultural perspectives. Therefore, even being a

purely Technical University, the University encourage multiculturalism through its courses as well as University Student Council Activities (USAC). With the implementation of NEP 2020, the University is planning to introduce online courses in the coming academic session to teach different languages.

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

The University religiously attempts to monitor the progress of learning outcomes through different mechanisms and adhere to revise and amend the syllabus to fill any such viable gaps. The components of the evaluative process are: The Head of the Department and faculty members periodically reviews program specific outcomes and course outcomes through interaction with students concerned. This is followed by a discussion with the teachers at the Departmental Committee meeting and finally in the meetings of the Board of Study (BoS) in a specific subject/department. The BoS comprises of faculty members statutorily empowered for inclusion and include external members of high academic integrity and ability from research institutes and/or other universities. The learning outcomes are achieved by developing ability to use latest ICT applications, software including specialized software and devices. Our courses also aim to develop personality of the students and in this, Department of Psychology and Happy thinking Lab is playing a vital role. To develop industry professionals, the University is offering professional courses like Engineering, Law, MCA, Journalism and Mass Communication, Management and Yoga. The courses are updated time to time in order to keep the students the ready for upcoming challenges in this rapidly changing world and work environment. The process of evaluating the students' performance in different subjects in the Departments is undertaken from time to time during their field work assignments, participation in the interface programmes, conferences, seminar and workshops. The progress of learning outcomes is also measured through internal assessment and end-term examination performance. The departments change and update their syllabus from time to time with redefining the POs, PSOs and COs, if need be and then restructuring or changing the syllabus to suit the objectives. Departments also try to attain the course outcomes and program outcomes by conducting the activities such as cultural activities, N.S.S. Activities, National Cadet Corps programme, Career Counselling, Personality Lectures on Health Awareness Programs, Life Skills Development Program, adhering to the spirit of NEP 2020.

21.Distance education/online education:

Keeping in sync with the global movement to integrate educational resources and increase the ease of accessibility to them while

harnessing the powers of the global revolution, University has established MOOCs Recording Studio for e-content development. This will promote online education. Apart from this, the University also encourages students to take online courses from NPTEL/ SWAYAM portals. For final year students there is a provision for entire semester Internship and during that period all the courses are done through online platforms. Research scholars also take online courses through NPTEL/ SWAYAM portal relevant to their research area. University is also planning for transfer of Academic Credits through standard online platforms.

Extended Profile

1.Programme

1.1	32
Number of programmes offered during the year:	

File Description	Documents
Data Template	View File

1.2	17
Number of departments offering academic programmes	

2.Student

2.1	3624
Number of students during the year	

File Description	Documents
Data Template	View File

2.2	906
Number of outgoing / final year students during the year:	

File Description	Documents
Data Template	View File

2.3	3588
Number of students appeared in the University examination during the year	

File Description	Documents
Data Template	View File
2.4 Number of revaluation applications during the year	12
3.Academic	
3.1 Number of courses in all Programmes during the year	1383
File Description	Documents
Data Template	View File
3.2 Number of full time teachers during the year	241
File Description	Documents
Data Template	View File
3.3 Number of sanctioned posts during the year	241
File Description	Documents
Data Template	View File
4.Institution	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	9009
File Description	Documents
Data Template	View File
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	846

File Description	Documents
Data Template	View File
4.3 Total number of classrooms and seminar halls	86
4.4 Total number of computers in the campus for academic purpose	2369
4.5 Total expenditure excluding salary during the year (INR in lakhs)	2717.14
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	
<p>The aim of the Curriculum Design and Development is to fulfil local, national, regional and global developmental needs. POs, PSOs and Cos of each course are meticulously stated and are aligned with the vision and mission of the University. The proposed curriculum is thoroughly discussed in the meeting of BoS of the Department comprising of all faculty members, external domain experts and the representatives of the alumni / students. Finally, this curriculum is sent to the Academic Council of the University for approval. While revising the program curriculum, focus on employability / entrepreneurship / skill development of the students is given due importance. The CBCS/ Elective Course System was introduced in the erstwhile Institute to allow students to choose courses from a basket of courses as per his / her choice.</p>	
<p>This basket is not limited to the courses listed in the syllabus, the students are free to choose courses from open online platforms such as NPTEL, MOOCs etc., after due approval from competent authority. Courses on professional ethics, human values and environment are also included in each program to inculcate professional traits at workplace. The university has also implemented NEP 2020 from its academic session 2022-2023 at the undergraduate level.</p>	

File Description	Documents
Upload relevant supporting document	View File

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

30

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

1383

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

299

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

30

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3 - Curriculum Enrichment

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

One of the Mission statements of the University reads 'serving people, society and nation with utmost professionalism, values and ethics to make development sustainable and quality of life.' This in itself is indicator that the University values very highly cross cutting issues relevant ethics, values and gender issues.

All the students of B.Tech First Year are offered a non-gradual course Indian Constitution 2 (2-0-0) to inculcate justice, liberty, equality along with dignity of the individual and unity and integrity of the nation.

All first-year students are exposed to the environmental issues through a non-gradual course Environment and Ecology which deals with air and water pollution and its control.

Students are exposed to courses like Cyber Security, Organization Behavior and Business Ethics to make them aware about professionalism, human values, behavioral and ethical issues and protection against cyber bullying and frauds.

A senior faculty member oversees the university's National Social Services section, which engages students in rural cleanliness by teaching village children and raising awareness of social problems, pollution, and hygiene. A Mahila Adhyayan Kendra at the university addresses gender issues and women's empowerment. This centre hosts programs aimed at raising knowledge of women's rights, equality, and personal cleanliness among girls.

File Description	Documents
Upload relevant supporting document	View File

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

8

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

3126

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

700

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File

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

1653

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

667

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.2 - Catering to Student Diversity

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

The slow learners are identified based on their performance in the assessment process.

Slow learners are helped by their mentor faculty members who act as their counsellors to solve their academic and other problems through mentor-mentee provision.

At departmental level, special remedial, tutorial and extra classes were conducted for slow learners For students with Hindi Medium background, remedial English and communicational skill development

related courses are organized

Various personality development programs are organized from time to time to improve the overall personality of students.

Hostel wardens, who are regular faculty members, take special care of all the students and provide counselling on regular basis to handle any mental stress, psychological trauma or any other behavioral issue.

The University encourages the advanced learners to participate in various co-curricular and extra-curricular activities:

A lot of seminars, workshops, expert lecture series, Quizzes, debates etc. are organized.

There are several active technical clubs e.g. Aero Club, Coder Club, Product Design Club, Google Club, which organize activities on regular basis.

Innovative pedagogy and andragogy is designed and developed by faculty members that could enhance the self-learning ability of students

Advance learners are also encouraged in startup and entrepreneurship activities through the University Incubation Hub

File Description	Documents
Upload relevant supporting document	View File
Link For Additional Information	https://erp.hbtu.ac.in//NAACIQAC/ViewPDF.aspx?fileId=201

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
3624	241

File Description	Documents
Upload relevant supporting document	View File

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 academic module for various programme in HBTU is tailored to give a holistic learning experience to the students. Innovative teaching-learning strategies are employed that encourage students to participate and contribute to the learning experience of their peers. The core curriculum ensures that students have a strong grasp on the basic concepts and are able to apply the knowledge to analyses, evaluate and use in practical situations. Emphasis is given to Outcome-Based Education where a student achieves a goal by the end of the educational experience. Choice Based Credit System (CBCS) allows students to choose papers of their choice that aligns with their goal for the future. The following measures are taken to ensure experiential learning, participative learning and problem-solving methodologies:

Experiential learning through Laboratory experimental work, Summer Internship, Semester Internship, field visits, Industrial visits etc.

Students make use of the latest software and tools available in the labs to enhance their knowledge and expertise.

Participative learning through brainstorming sessions, expert lecture and conducting quiz at department level. Problem solving methodologies through research project work.

Faculty makes use of multimedia teaching-learning process using smart classroom and the latest software like matlab, virtual lab, smartdraw, ArgoUML etc. for demonstration purpose.

File Description	Documents
Upload relevant supporting document	View File

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

Teachers make use smart classroom for effective teaching and learning processes.

Teaching Learning tools like Microsoft PowerPoint, Google Classroom,

G-suit Meet, Microsoft Teams, YouTube Channel are being used for regular Lecture session as well as Webinars. Faculty members prepare power point presentation on their own for teaching and upload the same along with other learning materials, assignments, tutorials on LMS.

Faculty members promote and use NPTEL, Coursera, National Educational Alliance for Technology (NEAT), e-PG Pathshala, National Digital Library (NDL) by IIT Kharagpur etc.

Advanced computing software including MATLAB, NS2, Qualnet, IBM Rational Rose and RSA, CAD, ProE, NISHA, SPSS, Virtual Lab, etc. are being used to enhance practical and analytical skills of the students.

Teachers and Students access e-books procured by library from anywhere through the University website. Ph. D. scholars make ample use of e-journals of IEEE, Springer, ACM, Inderscience, ASME, ASCC, ASCE and other reputed publishers. They have access to e- resources provided by Shodhganga and e-ShodhSindhu through campus IPs.

Teachers and Students make extensive use of online platform for coding and other technical interactions.

Expert lectures from academia and industry persons are conducted in virtual mode..

Plagiarism checking tool Turnitin is extensively used by faculty and students

File Description	Documents
Upload relevant supporting document	View File

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

2.3.3.1 - Number of mentors

241

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

2.4.1 - Total Number of full time teachers against sanctioned posts during the year**241**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. during the year**127**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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****10**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**27**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

18

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

18

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

12

File Description	Documents
Upload relevant supporting document	View File

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 Office of the Controller of Examinations has fully integrated the Information Technology in the management of Examination System i.e., filling of Examination form, marks entry for mid semester / end semester, result preparation, result display, result correction and result analysis. Examination Management System is the part of ERP System and fully integrated with other subsystems of ERP.

Before the examination marks are punched on university ERP Portal, the students are given an opportunity to go through their evaluated answer scripts. They have to write "Seen and Satisfied" on answer script along with their signature. It is a best practice of the University which strengthens the credibility of the Examination System.

The students can login to the ERP portal of the University for downloading their Admit Cards. Students have access to view their detailed marks of the academic performance in the University website by logging in with their Roll Number and validating it with the password. Final academic records of students are being published on National Academic Depository for hassle free verification by

employers. As per NEP 2020, ABC ID have been created for each student and integrated with their Credits earned shown on NAD portal.

File Description	Documents
Upload relevant supporting document	View File

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	View File

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

The University has well defined learning outcomes that are extensively publicized through its Website, Portrayal Displays placed at strategic locations, Information Brochures etc. POs and, and PEOs have been published on the University website www.hbtu.ac.in. PSOs and Cos are available at Department Pages on Website. Students are provided with a copy of the Information Brochure containing Vision, Mission, PEO and other information about the department at the time of admission of the students in the first year.

Process to Ensure Questions from Outcome/Learning Levels Perspective

Complete syllabus of the theory courses has been generally divided into five units whereas syllabus of theory-cum-lab courses consists of six units.

Accordingly, the 5-6 COs have been identified for various courses.

In the question paper of end semester examination, it is mandatory to give one question from each unit. Thus, it insures that all COs are covered in the question papers. Questions in the question papers

are of various levels as per the pattern of the Bloom's Taxonomy i.e., remember, understand, apply, analyze, evaluate and create.

To insure the quality of the question papers, an internal audit is conducted by a Committee of senior faculty members of the department.

File Description	Documents
Upload relevant supporting document	View File

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

For a course we map the COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix. Course Outcomes are the statements that declare what students should be able to do at the end of a course. POs are defined by Accreditation Agencies of the country (NBA in India), which are the statements about the knowledge, skills and attitudes, graduate attributes of a formal engineering program should have. Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level.

The Program outcomes reflect the ability of graduates to demonstrate knowledge in fundamentals of Basic Sciences, Humanities and Social Sciences, Engineering Sciences and apply these principles in understanding and practically apply the knowledge in professional core subjects, electives and projects which enables the graduates to be competent at the time of graduation.

Program Specific Outcomes are the statements that assert what the graduates of a specific engineering program should do what they can able to do. Program Educational Objectives are the broad statements which describe in detail about the career and professional accomplishments after significant years of graduation that the program prepare the graduates to achieve.

File Description	Documents
Upload relevant supporting document	View File

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

882

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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://erp.hbtu.ac.in//NAACIOAC/Criterion2NAACIOAC.aspx?Session=2023-2024>

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

Harcourt Butler Technical University, Kanpur has a well-defined policy duly approved by the Executive Council (apex body) of the University for the promotion of research. The research facilities are frequently updated at regular intervals. This policy provides an overview of the research support provided to faculty members, staff and researchers for promotion of the quality research. The major objectives of the research policy are as follows:-

1. To establish an administrative structure within the University to support the research and innovation activities
2. To frame the norms for undertaking Research work and facilitate administrative processes to improve the overall quality of research for betterment of society
3. To motivate faculty members, staff members, students for cutting-edge research, innovations and incubation
4. To encourage undertaking of research projects from various funding agencies/sponsors
5. To encourage collaborative and interdisciplinary research

Various main aspects of Research Promotion Policy are as follows:

- Research Inventiveness
- Research Administration and Financial Support
- Research Publications
- Research Ethics

The University has well defined Ph.D. Ordinances and a well documented Research Manual describing various intricacies from the admission to the award of final Ph.D. degree. Ph.D. Ordinances, Research Policy, and Research Manual are uploaded on the University website.

Detailed information is shared via Link: <https://hbtu.ac.in/3-1-1/>

File Description	Documents
Upload relevant supporting document	View File

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

126.02

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

111

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

101

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.1.5 - Institution has the following facilities to support research
Central Instrumentation
Centre Animal House/Green House Museum

A. Any 4 or more of the above

Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery	
File Description	Documents
Upload relevant supporting document	View File
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	
12	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
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)	
10.620	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)	
216.45	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year	
0.1062	

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

As per HBTU Act 2016, the University has established an Incubation Hub (IH) for innovation, incubation, entrepreneurship, skill development and manpower training activities for students and society. It provides incubation facilities for budding entrepreneurs amongst students, teachers, and others, and to provide them help related to legal, financial, marketing and other matters. It also provides services related to patenting and commercialization. Incubation Hub, has developed comprehensive expertise to foster innovations at the ideation stage of businesses aiming to scale up. It aims to provide critical ingredients for technology-driven, multidisciplinary innovations across agriculture, healthcare, aerospace, energy, water, and education.

As per National Startup Policy guidelines for promoting startup ecosystem in Higher Education Institutions, the University founded its Incubation cum Technology Commercialization Unit (ITCU) as HBTU-Technology Business Incubation Foundation (HBTU-TBIF), Section-8 of Company Act 2013 (Non-profitable) in May 20, 2022 (Incorporation No: U80904UP2022NPL164475) for managing startups ecosystem more effectively. The University is committed to support HBTU-TBIF with Rs 65.0 lac annually as per AICTE / MHRD guidelines. Startup Policy & Startups: HBTU Startup policy-2020 was formed for students and faculty as per AICTE / MHRD guidelines. Faculty members have been given permission to establish Pvt Ltd company to establish & promote startup. But, the private limited companies founded by faculty and students should be incubated at HBTU-TBI Foundation during the initial period of 03 years for faculty and 03 years by students. Presently, 10 startups have been registered.

File Description	Documents
Upload relevant supporting document	View File

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

44

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

44

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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**

206

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File
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	View File
Upload relevant supporting document	View File
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	
37	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
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	
38	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year	
2.52	

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

158

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

B. Any 4 of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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
5.7	7.6

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

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
35	36

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

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

HBTU, Kanpur has a well-defined policy for consultancy and testing, which also includes the terms of revenue sharing between institutions and individual faculty. The policy has been framed for full-time faculty and academic staff to encourage them in consultancy and testing work without interference with their normal academic duties. The salient features of the policy are:

Individuals or departments can take up consultancy work. The report of the departmental consultancy projects will be signed by the investigators and countersigned by the Head of the department and the report of the individual consultancy project will be signed by the Principle Investigator(PI).

- For projects involving only site visits for consultation work and/or personal discussion, fees may be charged on per day basis at a mutually acceptable rate excluding the day spent on travel.
- For technical and other staff, making only site visits outside the scope of ongoing consultancy projects, fees may be charged on a per day per man basis.
- Student assistants for consultancy work will be paid 150 rupees per hour subject to the 50-hour maximum in a month.

File Description	Documents
Upload relevant supporting document	View File

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)

4,39,78,113.38

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

HBTU, Kanpur, prioritizes the development of both skilled professionals and socially conscious citizens. Through its National Social Service (NSS) sub-council and Women Study Center (WSC), the university organizes events for community engagement and women empowerment. These initiatives extend to nearby villages and schools.

The university emphasizes health and environmental protection, conducting programs to promote hygiene and environmental awareness. Efforts include tree plantation and campaigns to reduce plastic usage and promote cleanliness through Swacch Bharat Abhiyan.

NSS addresses social issues like dowry, gender equality, and education through various activities, including blood donation camps. HBTU celebrates International Yoga Day and conducts voter awareness programs to promote civic engagement.

The university honors martyrs and supports communities during natural disasters. It also aids nearby primary schools with books and accessories. The WSC organizes events beyond women empowerment, benefitting the wider community with initiatives like Environment Day and National Science Day.

File Description	Documents
Upload relevant supporting document	View File

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**35**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)**31**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**8934**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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****497**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

47

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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.

HBTU Kanpur has 04 schools with 16 departments within these schools. Each department has sufficient teaching-learning facilities such as the number of well-equipped laboratories, classrooms for teaching, seminar halls, conference rooms, computing equipment/facilities, and rooms for faculty and non-teaching staff members as prescribed by the statutory bodies like AICTE, New Delhi and UGC, New Delhi. Every department has at least one computer laboratory equipped with advanced computing software including MATLAB, Qualnet, IBM Rational Rose and RSA, CAD, PROE, NISHA, SPSS etc. to enhance the practical and analytical skills of the students. The university has a Central Instrumentation Lab, Centres of Excellence, Incubation Hubs, a Food Processing Laboratory, CAD and 3-D Printing Labs, a Central Workshop with CNC Machines etc.

There are well equipped three (03) Auditoriums, one seminar hall in every department, Engineering Drawing Halls, Design Centres etc. Details of some of such facilities are given below:

- Well-designed administrative building with ICT-enabled conference rooms and computer-enabled chambers for the efficient functioning of the University.
- 1 GBPS, 24x7 Internet facility along with the Wi-Fi facility

Central Library with latest Books, e-books, Journals, e-Journals, Library Automation Software (ILMS), digital library and subscribed databases.

- A total of 96 classrooms, seminar rooms and laboratories 63 are equipped with digital boards and ICT equipment.
- University has the proper facility for Audio-visual centre Lecture Capturing System(LCS) for e-content development

File Description	Documents
Upload relevant supporting document	View File

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

The University Students Activity Council (USAC) aims to groom the extra-curricular, co-curricular, and technical skills of the students through 10 sub-councils with activities of each sub-council managed by a committee consisting of a faculty member as its advisor/convener, a nominated/elected student secretary, and council members. The university has adequate facilities for indoor and outdoor games and sports including the Cricket Ground of National Standard in which State level North Zone and All India Inter-university Cricket Tournaments are organized, a Cricket Pitch (Turf Wickets) made by the International Pitch Curator of BCCI, Pitch and Ground Roller of International Standard, Basketball Courts, Volleyball Court, Football Ground, Badminton Courts, Lawn Tennis Courts, Table Tennis Hall, etc. A Gymnasium with the state of the art facilities is also functional in the West Campus of the University. Various cultural and literary activities of the University are organized in Radhakrishnan Auditorium and New Auditorium in the East Campus and Multi-purpose Hall (Shatabdi Bhawan) in the West Campus. Apart from this, there are two open stages where cultural and extra-curricular activities like open-air theatre, nukkad natak, etc. are conducted which encourage open expression of the students.

File Description	Documents
Upload relevant supporting document	View File

4.1.3 - Availability of general campus facilities and overall ambience

HBTU, Kanpur is spread across approximately 329 acres area in two campuses - East Campus (77 acres) and West Campus (251.8 acres) which is more than the area required by the AICTE, New Delhi. The

main building of the University was designed and constructed during the British regime and has a very artistic monumental look.

The University has 6 Girls' Hostels and 8 Boys' Hostels with a total capacity of 674 girls and 1492 boys. The University has disabled friendly environment for the smooth movement of Divyangjan.

Important occasions such as Earth Day and Environment Day are organized by involving the students to understand and appreciate nature and contribute to a sustainable environment. Also, there are adequate numbers of residences for Faculty and Staff. The East Campus includes mainly administrative, academic departments, auditorium, and other Central facilities.

West Campus is mainly a residential campus for Faculty, Staff, and Students. The University Sport's Ground has a National standard and B.C.C.I. approved cricket pitch and ground roller for National level/Inter University level cricket matches. To ensure pollution-free and convenient commutation between the two campuses, the University provides free cycles and e-rickshaws facilities to the students and staff.

Recent developments include the construction of new residential houses in East Campus, the renovation of existing houses and hostels in West Campus, the establishment of a millet café and new canteen, and renovation of the workshop laboratory and library.

File Description	Documents
Upload relevant supporting document	View File

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

971.75

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2 - Library as a Learning Resource

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

Name of ILMS Software: Libsys 10

Tagore Central Library: A Hub for Learning and Research

HBTU's Tagore Central Library empowers students and researchers with a vast collection of resources. Boasting over 109,000 books, 1900+ e-journals, and extensive online databases, the library caters to diverse learning needs.

Fully Automated for Efficiency: Since 2008, Libsys 10 software seamlessly manages library operations (Acquisition, Cataloguing, Circulation, report generation & OPAC). Users can search the online catalog (OPAC) to locate physical and electronic resources. Furthermore, anti-plagiarism software Turnitin (available since 2022) ensures academic integrity.

Rich Resources, Easy Access: The library offers access to a wealth of e-resources, including the National Digital Library of India (NDLI), Shodhganga (INFLIBNET), and renowned databases like IEEE Xplore and Web of Science. These resources are accessible remotely through J-Gate.

Promoting Literacy and Research: The library fosters a culture of learning with a spacious reading room and open-access facilities. Extended hours during exams and a 24/7 reading room in the West Campus ensure uninterrupted study time.

The Heart of Academic Life: Tagore Central Library is a cornerstone of HBTU, providing a dynamic environment for learning and research.

File Description	Documents
Upload relevant supporting document	View File

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	View File

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

Total Expenditure: Rs. 57,21,826.00

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

479

File Description	Documents
Upload relevant supporting document	View File

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

63

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

The University has a well-formulated IT policy to manage procurement, upkeep & maintenance, upgradation of the IT resources including Wi-Fi facilities, and ensure protection/security, and legal & appropriate use of IT infrastructure established by the University in the campus. Information assets addressed by the policy include data, information systems, computer network devices, intellectual property as well as documents and verbally communicated information.

The major objective of this policy is to ensure proper access to and usage of HBTU's IT resources and prevent their misuse by the users. The use of IT resources provided by the HBTU implies the users' agreement to be governed by this policy. The policy establishes University-wide strategies and responsibilities for protecting the

confidentiality, integrity, and availability of the information assets that are accessed, created, managed, and/or controlled by the University.

The university has a 100 MBPS internet facility provided through the National Knowledge Network (NKN) line and 100 MBPS lease line from Power Grid Corporation of India Ltd. All the departments of the University are connected through an optical fiber network. They can also have access to this wired internet facility through various departmental computer Labs. The university also provides a Wi-Fi facility through Reliance Jio and a 1 GBPS Wi-Fi facility through BSNL in the entire campus. The university makes proper budgetary provisions under capital head expenditure (CAPEX) as well as recurring/operational head expenditure (OPEX).

File Description	Documents
Upload relevant supporting document	View File

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
3624	2369

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

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	View File

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	View File
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**1053.26 lakhs**

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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.

All maintenance activities in the University are conducted in a planned manner as per the Vision and Mission of the University. The Maintenance Policy forms a part of the HBTU's Strategic Plan and consists of well-defined schedules, procedures, and rules for maintenance. The "Building and Works Committee" (BWC) is a principal statutory body as per the HBTU Act, whose role is to decide the development and renovation of new Civil Infrastructure in the University.

The Central Store and Purchase Section of the University, in collaboration with Maintenance and other Section In-charges, takes care of the purchase-related activities concerned with the maintenance of various sections. The university has Tagore Central Library apart from the departmental libraries developed in every department to keep programme-specific books. University laboratories are well equipped with state-of-the-art equipment and facilities with proper stock maintenance.

For day-to-day pretty maintenance activities, every department is sanctioned an imprest amount of Rs. 5000/-. To provide practical knowledge of manufacturing, the University has a Central Workshop. Maintenance activities about the IT infrastructure including the Computer Centre, Internet lease lines, etc. are managed by the System Manager through a well-defined IT Policy.

File Description	Documents
Upload relevant supporting document	View File

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)

1696

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

2404

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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	View File

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	View File

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

66

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

554

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

14

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

166

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

The University is committed to the student's overall personality development and welfare and promotes a healthy atmosphere for them. The university has an active Student Council known as the "University Students Activity Council " to groom students in extra-curricular and co-curricular skills. The students of the University are encouraged to take part in all the activities of the council to inculcate cultural, literary, technical, and social betterment to serve society and the Nation with the utmost professionalism, ethics, and improved quality of life. The Dean of Students Welfare is the Chairperson of USAC and is associated with the Secretary/Deputy Secretary and Faculty Advisors nominated by the Vice-Chancellor of the University. The 10 Sub-Councils are as follows:

1. Sports Sub-Council
2. Cultural Sub-Council
3. Hobby Sub-Council
4. Literary Sub-Council
5. Photography Sub-Council
6. NSS Sub-Council
7. Yoga Sub-Council
8. Social and Print Media Sub-Council
9. Technical Sub-Council
10. NCC Sub-Council

The students of the University also participate in various inter-university/ State / National level programs/ Competitions. The USAC activities are funded from the fees collected by the students as well as grants received from the Government or other agencies for organizing the various activities and events.

File Description	Documents
Upload relevant supporting document	View File

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

46

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

Alumni Association, HBTU, Kanpur is registered under the Societies Registration Act which is approved by competent authority. It is an association of the alumni of Harcourt Butler Technical University, Kanpur (formerly HBTI). The main aim of the Association is to develop a strong bond between alumni and the University. Alumni Association has been continuously organizing International Alumni Meet every year since 2005 with good participation of alumni from India and abroad. The University has completed 100 years of its existence and celebrated Centenary function on 25th November 2021, with the support of Alumni Association in the presence of Hon'ble President of India. Alumni of the University have made significant contribution for the betterment of civilization across the globe. Over the period of time the University has expanded and made significant enhancements in the number of undergraduate and postgraduate programs leading to the awards of B.Tech, M.Tech, MCA, BBA, MBA, MSc. and Ph.D. degrees and thus creating a large Alumni base all across the globe.

Each year since past 103 years, the graduates have become successful entrepreneurs and leaders in various companies both in private and government sectors.

File Description	Documents
Upload relevant supporting document	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)	C. 3 Lakhs - 4Lakhs
File Description	Documents
Upload relevant supporting document	View File
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	
<p>VISION STATEMENT</p> <p>"To achieve excellence in technical education, research, and innovation".</p> <p>MISSION STATEMENT</p> <ol style="list-style-type: none"> 1. Imparting knowledge to develop analytical ability in science and technology to serve the industry and society at large. 2. Equip and enable students with conceptual, technical, and managerial skills to transform the organization and society. 3. Inculcating entrepreneurial philosophy and innovative thinking to promote research, consultancy and institutional social responsibility. 4. Serving people, society and nation with utmost professionalism, values and ethics to make development sustainable and quality of life Process of formulating <p>The following stages explain the formulation of the Vision and Mission statements of HBTU, Kanpur:</p> <p>Step 1: Analysing the previous Vision and Mission of the Institute (HBTI).</p> <p>Step 2: Underlying the objectives and purpose of University formation mentioned in the HBTU Act 2016.</p> <p>Step 3: Meeting and discussions with all stakeholders.</p>	

Step 4: Draft of Vision and Mission Statements.

Step 5: Discussions with Faculty and HODs for suggestions.

Step 6: Incorporation of necessary suggestions in the Vision and Mission statements draft.

Step 7: Meeting with the Vice Chancellor, Pro-Vice Chancellor, Registrar, Deans, and HODs to finalize the vision and mission statements.

Step 8: Approval of the Final Vision and Mission of the University by the Executive Council.

File Description	Documents
Upload relevant supporting document	View File

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

HBTU Kanpur practices decentralization and participative management through a structured governance framework across three levels: Function, Fund, and Functionaries (3F).

Function Level: The University operates under a participatory governance structure to ensure academic and institutional excellence. The Hon'ble Governor of Uttar Pradesh, as the Chancellor, oversees and monitors academic activities. The Executive Council, chaired by the Hon'ble Vice Chancellor, serves as the apex decision-making body, guiding the University's growth and development. Decision-making is participatory, involving statutory and advisory bodies such as the Academic Council, Finance Committee, Building and Works Committee, Board of Studies, Board of Examinations, Student Research Advisory Committee, University Student Activity Council, and Central Purchase Committee.

Fund Level: A structured financial management system ensures transparency and accountability. The Accounts Section, led by the Finance Controller, oversees budgeting and fund utilization. Financial powers are decentralized, empowering Deans, Heads of Departments, University Officers, Sectional Incharges, and Wardens to manage their respective budgets. This approach facilitates efficient functioning, timely decisions, and accountability across administrative and academic units.

Functionaries Level: The University's hierarchical structure ensures efficient governance. The Chancellor holds administrative powers, appointing the Vice Chancellor as the Chief Executive Officer. Schools are led by Deans, with Departments managed by Heads, ensuring streamlined academic and administrative operations. This framework promotes operational efficiency and academic excellence throughout the university.

File Description	Documents
Upload relevant supporting document	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

The University has well laid Strategic plan and is effectively deployed. Further, the Strategic plan for 2021 to 2030 defines a complete framework of priorities of the University and its Schools, Departments, and Sections. The annual reports are published in hardcopy as well as on the University website.

One Successful Activity: Restructuring the existing UG programmes and starting various new programmes

- To improve the academic environment by responding to present opportunities and tomorrow's challenges and also providing enough choices and more flexibility in the academic curriculum to nurture creativity, experimentation, and skills in students, we perform restructuring of the existing UG programs i.e. increasing the intake of popular UG programs to meet the requirement of technical manpower of the industry and for revenue generation.
- University has introduced new Master in Science programs such as M.Sc. in Mathematics and Data Science, M.Sc. Chemistry in Chemical Sciences, M.Sc. Physics with specialization in Opto-Electronics; Master of Technology programs in the Department of Computer Science & Engineering, Electrical Engineering, Department of Plastic and Paint Technology; Master of Business Administration and Bachelor of Business Administration programs.
- University has introduced new integrated BS/MS programme in Mathematics and Data Science with the capacity of 30 seats. This programme is successfully run by department of Mathematics, HBTU, Kanpur.
- Apart from the above, University is running some new programs

like B. Pharma and B. Tech. in Biotechnology and B. Tech for working professional in branch of Electronics, Electrical and Mechanical Engineering.

File Description	Documents
Upload relevant supporting document	View File

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

The University operates with the utmost transparency and fairness, ensuring no discrimination in any of its policies, administrative setups, service rules, or procedures. All policies are formulated through comprehensive discussions and consultations at multiple levels to maintain inclusivity and accountability.

Currently, the University is guided by 08 well-defined policies that govern its various functions, reflecting its commitment to a transparent and systematic approach to institutional governance. These policies serve as a cornerstone for ensuring efficient and equitable functioning across all aspects of the University.

1. Research Promotion
2. Waste Management
3. Information Technology (IT)
4. Maintenance
5. Consultancy
6. Students with Disabilities (Divyangjan)
7. Academic Audit
8. Recruitment

Administrative Setup:

- The Executive Council (EC)
- The Academic Council (AC)
- Finance Committee (FC)
- Admission Committee
- Board of Studies

- Research & Development Committee (RDC)
- Central Purchase Committee (CPC)
- Building and Works Committee (BWC)
- Grievance Redressal Committees (GRCs)
- Appointment: All the Teaching/Non-Teaching staff recruitment in the University is made as per the guidelines received from Raj Bhawan incorporating the latest AICTE/UGC regulations. University also follows guidelines/recruitment rules of the Government of Uttar Pradesh, from time to time for the recruitment of faculty and staff.

Service Rules and Procedures:

The service rules for the employees of the University are governed by the Statutes of the University, which are currently under review and consideration by the State Government. In the interim, the service rules and bylaws of the erstwhile HBTI Kanpur are being adhered to, ensuring consistency and continuity in employee management until the formal adoption of the University's Statutes.

File Description	Documents
Upload relevant supporting document	View File

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	View File

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

HBTU Kanpur has established a comprehensive Performance-Based Appraisal System (PBAS) to assess the annual performance of teaching

and non-teaching staff. This system adheres to AICTE/UGC and State Government guidelines, ensuring transparency and fairness. Teaching staff promotions are facilitated under the Career Advancement Scheme (CAS) based on performance, research contributions, and academic achievements. For non-teaching staff, ACRs form the basis for promotions and ACP awards.

Welfare Measures: The University is committed to creating a supportive work environment for teaching and non-teaching staff through various welfare initiatives:

- **Residential Facilities:** Regular employees are provided housing on campus.
- **Financial Security:** GPF and NPS benefits ensure financial stability for employees and retirees.
- **Leave Provisions:** Maternity and childcare leave are available to support employees during significant life events.
- **Healthcare:** A fully equipped dispensary with a qualified Medical Officer addresses health needs.
- **Recreational Facilities:** A Guest House, Gymnasium, and sports grounds promote well-being and community engagement.

Faculty Empowerment: To foster professional growth, the University provides financial support for attending training programs, conferences, and seminars. Study leave is available for Ph.D. and post-doctoral research. Additionally, the University's MOOCs Recording Studio enables faculty to create high-quality e-learning materials, advancing digital education.

File Description	Documents
Upload relevant supporting document	View File

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

60

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

36

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)

170

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4 - Financial Management and Resource Mobilization

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

The University has established a robust and transparent financial management system to effectively mobilize and utilize resources, ensuring financial stability and the achievement of academic, research, and infrastructural goals. Resource mobilization strategies are diverse and inclusive, with funding generated from the Government of Uttar Pradesh, Rashtriya Uchchar Shiksha Abhiyan (RUSA), Testing and Consultancy, and the Deen Dayal Upadhyay Quality Improvement Programme (DDU-QIP). Additional sources include grants from national agencies (UGC, AICTE, DST), student fees, research collaborations, alumni contributions, rental income, event registration fees, and cost-cutting measures such as solar geysers and energy-efficient lighting.

The systematic allocation of funds is carried out transparently through an Annual Budget, reviewed and approved by the Finance Committee and Executive Council. Prioritized areas include infrastructure, library enhancement, research, training, and student welfare. The decentralized financial management system allows departments to manage their budgets effectively, while compliance with statutory audit mechanisms ensures transparency. The Finance Committee oversees expenditures to maintain adherence to budgetary guidelines, and all purchases are processed through the GeM portal to ensure accountability.

File Description	Documents
Upload relevant supporting document	View File

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)

200.00

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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)

5.32

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4.4 - Institution conducts internal and external financial audits regularly

The University conducts two levels of audits regularly

1. Auditing by Chartered Accountant:

University account is prepared by University staff under the control of the Finance Controller. After the preparation of the account, a Chartered Accountant is assigned for preparation of the

balance sheet and income expenditure statement of the University. After the preparation of annual accounts, balance sheet, and income expenditure statement, another Chartered Accountant is assigned to audit the accounts. After auditing of accounts, balance sheet and income expenditure statement are presented to the Finance Committee and the Executive Council of the University for approval.

1. Audit by Accountant General (A G) Uttar Pradesh:

This audit is done by a team of officers of A G Uttar Pradesh. The University presents its complete book of accounts, ledger and various record for audit to the A G team. After that, A G team gives its report to the University. Finally, the University prepares para-wise answers and compliance and sends them to A G Uttar Pradesh. At present, there is no major para pending and also the reconciliation of all the accounts is done.

Other related information:

The Director of the Institute of Engineering and Technology is nominated as the Coordinator, Steering committee by the Government for the quarterly tally of salary and wages, non-salary and other admissible grants of faculty members /administrative officers and non-teaching personnel.

File Description	Documents
Upload relevant supporting document	View File

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 IQAC is meant for planning, guiding, and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the University including Academic Audit, Feedback Analysis, formats for Self-Appraisal (faculty and staff), Career Advancement Scheme rules and compilation of monthly progress of the University in the form of Prapatra-55 etc.

1. Active Participation in different grading/ranking frameworks and Surveys:

The top leadership of the University (Hon'ble Chancellor, and Hon'ble Vice-Chancellor) carefully monitors all the grading and/or ranking framework processes of the University. IQAC organizes meetings quarterly to review and discuss quality assurance strategies and processes. As per the direction of the Hon'ble Chancellor, the University is sending all the administrative, academic and financial information in the form of '55 proforma' (drafted by the Raj Bhavan, U.P.) to Governor office every month.

2. Centenary year celebration in the University with 100 state-of-art academic events:

Since 1921 Harcourt Butler Technical University (Formerly HBTI Kanpur) has always been a paragon and a source of inspiration in the field of science and technology. In 2021, the organization has completed 100 years and it was decided by the University administration and all the stakeholders to celebrate this auspicious occasion in a unique manner. The Hon'ble President of India, the First Citizen of our Country graced the occasion of the Centenary year celebration on 25 Nov., 2021 with his benign presence and deeply appreciated the developmental activities going on at the University.

File Description	Documents
Upload relevant supporting document	View File

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 document	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)

Starting of New Programmes:

University has started various new programmes like B. Pharma, B. Tech. in Biotechnology, BS/MS in Mathematics and Data Science, M. Tech. in Paint Technology, Plastic Technology, Computer Science and Engineering, Electrical Engineering, MBA, BBA, M.Sc. in Physics, Chemistry and Mathematics. Further, University is poised to start

new UG programmes in emerging areas.

Increase in Sanctioned Intake:

The University has almost doubled its intake in various existing programmes during last five years, as per local, regional and global needs. Enhancement in Research, Consultancy and Collaborative Activities:

Infrastructure Development:

University has developed state-of-art infrastructure like ICT enabled Classrooms, Lecture Hall Complex, MOOCs Recording Studio for e-content development, Multipurpose Hall (Shatabdi Bhawan), New Auditorium, Centenary Pillar (Shatabdi Stambh), Girls Hostels (200 and 36 seated), Gymnasium, Helipad in West Campus, Environment friendly commute facilities through bicycles, Buses and e-rickshaws between both campuses etc. Apart from this, Central Library is continuously augmented with latest Books, e-Books, Journals, e-Journals, databases and Integrated Library Management Software (ILMS). University has established Centre of Excellence in Oil Technology and workshop of Food Technology.

- Promotion of Existing Faculty through Career Advancement Scheme (CAS)
- New Faculty Recruitment
- Promotion of Staff Members
- Grants Received from Various Government/Non-Government Bodies
- Outreach and Extension Activities
- Continuing Education and Quality Initiatives

File Description	Documents
Upload relevant supporting document	View File

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

HBTU is committed towards the promotion and practice of the ideals of social and rights of all human beings without prejudice to caste, religion and gender. It regularly organizes a lot of gender-equity programs in which equal opportunity is given in various events. All the hostels have secured environment manned by security-guards on 24x7 basis. Special care is taken for the safety-security

of girl students by providing round-the-clock security through lady guards, lady wardens, faculty mentors and attendants. Separate-hostels, badminton-court, gymnasium, canteen etc. are available for girls. The University has a Women-Counselling-Cell/ Internal-Complaint-Committee to cater all the issues related to girl students/women employees in order to create an atmosphere free from any form of discrimination and redressal of sexual harassment. For all the students, health-center, ambulance-service, Cashless-Mediclaim facility are provided in the campus for 24 hours.

Counseling

There is a dedicated center for women 'Mahila-Adhyayan-Kendra' which organizes various activities/awareness programs on social issues (like gender-equality, girl education, nutrition etc.). Mentors are assigned to all the students at the time of admission itself in order to have effective monitoring

Common Room:

A well-furnished common room is made available in all the hostels with recreational facilities like magazines, daily-newspapers, television, indoor-games etc.

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	https://erp.hbtu.ac.in//NAACIQAC/ViewPDF.aspx?fileId=188
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	https://erp.hbtu.ac.in//NAACIQAC/ViewPDF.aspx?fileId=148

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	View File

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

Solid-Waste-Management:Dustbins are provided in the campus at convenient locations to keep campus clean. All the garbage and solid-wastes are collected from the sweepers/cleaners and disposed of into an open pit area in the University campus.

Liquid-Waste-Management: The sewage, laboratory, laundry, hostel, and canteen effluent wastes are treated through constructing septic tank in all the residences. The University is periodically paying Water-Tax and Sewer-Tax for the treatment of liquid-waste to Kanpur Nagar Nigam.

Biomedical-Waste-Management: It contains infectious or potentially infectious materials. These wastes are generated during the diagnosis, treatment, and immunization of humans and animals. There is a proper arrangement for the disposal of used sanitary pads through the Incinerators installed in the girls hostels.

E-waste-Management:The minor repairs of the electronic items are done by the laboratory staff. E-waste generated is first reused in the campus itself, if it is possible. The e-waste and other obsolete and unserviceable items are auctioned through a centralized mechanism from time to time to authorized vendors.

Hazardous-Chemicals and Radioactive-Waste-Management: The University does not produce any hazardous and radioactive-waste. The biological and chemical-wastes are disposed properly through standard procedures. The electronic gadgets and computers which are discarded are auctioned as scrap for safe disposal.

File Description	Documents
Upload relevant supporting document	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks

A. Any 4 or all of the above

and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Upload relevant supporting document	View File

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	View File

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	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-

A. Any 4 or all of the above

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.

File Description	Documents
Upload relevant supporting document	View File

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

The University has taken all possible initiatives to provide an inclusive environment for cultural, regional, linguistic, socioeconomic, and other diversities. The University is committed to the student's overall personality development and welfare and promotes a healthy atmosphere for them. The university has an active Student Council known as the "University Students Activity Council" aimed at grooming the students in extra-curricular and co-curricular skills.

Women's Study Centre events

S.No.

Name of Events

Months

1.

World Nature Conservation Day

28th July, 2023

2.

Walk for Freedom race

15th August, 2023

3.

National Sports Day (Sports: Volleyball, basketball, and football competitions)

29th August, 2023

4.

Women's Study Centre on Gandhi Jayanti and Lal Bahadur Shastri Jayanti

2nd October, 2023

5.

Farmer's Day the birth anniversary of Chaudhary Charan Singh ji

23rd December, 2023

6.

Peace and Unity Run

26th January, 2024

7.

Organized National Science Day Lecture and Exhibition

28th February, 2024

8.

International Women's Day, various sports competitions for girls like volleyball, basketball, badminton, chess,

7th March, 2024

9.

World Environment Day

5th June, 2024

10.

International Yoga Day, the program was organized in the villages adopted by the university, at Barhat Bangar, Ramnagar, Luhawa Kheda and Atal Ghat.

21st June, 2024

File Description	Documents
Upload relevant supporting document	View File

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

- There is a well-defined mechanism for the students and employees to follow the code of conduct in the University, to understand the constitutional social obligations, to understand the rights and duties of being an Indian citizen.
- 15-day Induction Program, a mandatory activity of AICTE, is organized in University for the First-year students. The participation in all activities of this program is mandatory.
- A mandatory audit-course, HHS 205-Indian Constitution is taught in second-year to all the branches. The course on constitution of India highlights key features of Indian-Constitution, like directive principle of state policy, fundamental-rights and duties, election-commission, judiciary, union-executive and the various organs of constitution. The course aims at providing general awareness about the Indian Constitution. The main course objectives of this course are:
 - Understand the preamble and fundamental-rights
 - Understand the governance and functioning of constitutional functionaries.
 - Describe the functions of legislative bodies.
 - Decipher the judiciary system & its role in governance.
 - On the occasion of Independence-Day and Republic-Day, the constitutional-values, rights and duties are discussed and disseminated among students, faculty and staff members of the university.
- National-Service-Scheme and National-Cadet-Corps organize different awareness-programs to make the students and employee aware and abide by all the law and order of the country.

7.1.10 - The Institution has a prescribed code

All of the above

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

File Description	Documents
Upload relevant supporting document	View File

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

S.No.

Name of Events

Months/Occasion

1.

Organized World Nature Conservation Day

28th July, 2023

2.

The Walk for Freedom race a sports event organized by Harcourt Butler Technical University (HBTU), Kanpur, Uttar Pradesh held annually in the university's East Campus.

15th August, 2023

3.

Volleyball, basketball and football competitions were organized for students on National Sports Day

29th August, 2023

4.

Lecture/speech by active students at Women's Study Centre (WSC) on Gandhi Jayanti and Lal Bahadur Shastri Jayanti

2nd October, 2023

5.

Workshop was organized on Farmer's Day the birth anniversary of Chaudhary Charan Singh ji

23rd December, 2023

6.

Peace and Unity Run organized

26th January, 2024

7.

Organized National Science Day Lecture and Exhibition

28th February, 2024

8.

On the eve of International Women's Day, various sports competitions for girls like volleyball, basketball, badminton, chess and carrom were organized at Khel Mela 2024 under the theme of Investing in Women's Progress

7th March, 2024

9.

Celebration of World Environment Day

5th June, 2024

10.

A week before International Yoga Day, the program was organized in the villages adopted by the university, at Barhat Bangar, Ramnagar, Luhawa Kheda and Atal Ghat.

21st June, 2024

000000000000

File Description	Documents
Upload relevant supporting document	View File

7.2 - Best Practices

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

- HBTU actively enhances placement opportunities for its students through internships, industrial visits, training programs, and industry-relevant projects. The university organizes career counseling sessions and gathers feedback from companies to align its curriculum with the latest industry trends. In 2023-2024, HBTU secured 642 job offers, achieving a placement rate of 85.6%, with the highest package at 32 LPA and an average package of 7 LPA. Key collaborations include research in healthcare technologies with KGMU, urban development initiatives with Kanpur Smart City, skill development with Amchem Products, academic partnerships with GBPUAT, and agro-food processing innovations with Kamtech Associates
- Harcourt Butler Technical University (HBTU) promotes rural development through its Women's Study Center (WSC) and National Service Scheme (NSS). The WSC empowers rural women by educating them on health, hygiene, nutrition, government schemes, and skill development. NSS activities include village clean-ups, educational support, and health drives. HBTU has adopted three villages to foster social responsibility. Initiatives include supporting female inmates' rehabilitation at Kanpur District Jail, organizing sports activities for children, celebrating International Yoga Day, and offering career guidance to students from nearby schools. These efforts focus on holistic development, empowerment, and community engagement in rural areas

Link for Detailed information::

<https://erp.hbtu.ac.in/NAACIQAC/ViewPDF.aspx?fileId=24>

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)

Harcourt Butler Technical University (HBTU), Kanpur erstwhile Harcourt Butler Technical Institute (HBTI), Kanpur is a distinct institute which is renowned and oldest in Uttar Pradesh established in 1921 to promote high quality technical education in United Provinces by Governor of United Provinces. This is the only institute of India having priority and thrust in imparting technical education to sixteen branches including Chemical Technology branches namely Oil Technology, Chemical Engineering, Plastic Technology, Paint Technology, Food Technology, Bio-chemical Engineering and Leather Technology. It is unique in the sense that no other institute in India is delivering all these programmes.

Contribution of HBTU: These branches encouraged in the creation of an ecosystem for establishment of small scale industries and inculcating a feeling among technocrats to be job providers rather than job seekers

Comparison of branches offered by HBTU with other Institutes in India/Abroad:

India

Abroad

1. In India Institute of Chemical Technology Mumbai, offers only five Chemical Technology branches.
2. MIT-WPU Pune offers only three Chemical Technology branches together.

No other institute in India offers seven branches together.

1. Outside India, Imperial College London, UK offers five Chemical Technology branches together.

2. University of Delaware, US, has three Chemical Technology branches.

7.3.2 - Plan of action for the next academic year

1. Strengthening Core Values and Vision

- Organize annual workshops, short term courses and FDPsto promote awareness of institutional values among students, faculty, and stakeholders.

2. Academic Excellence and Skill Development

- Introduce industry-linked certification programs and promote skill-based learning.
- Establish Centers of Excellence in key areas of strength (e.g., Renewable Energy, Rural Development).
- Foster research culture by creating dedicated research wings and supporting student innovation projects.

3. Social Responsibility and Community Engagement

- Strengthen community-based outreach programs aligned with local socio-economic challenges.
- Promote student participation in volunteering, NSS, or social service activities.

4. Entrepreneurship and Innovation

- Collaborate with local industries and business incubators to provide mentorship and funding opportunities for student startups.
- Organize an annual innovation expo to showcase student projects and research.

5. Alumni connect

- StrengthenAlumni network for the benefit ofcurrent students.

6. Fostering social responsibility

- Educating and motivating childrens of nearby rural school

Link for detailed information:

<https://erp.hbtu.ac.in//NAACIQAC/ViewPDF.aspx?fileId=101>