



# INFORMATION BROCHURE

Academic Session : 2017-2018



**HARCOURT BUTLER TECHNICAL UNIVERSITY**

KANPUR - 208 002

Telephone No. : (0512) 2534001-05, Fax : (0512) 2533812

Website : <http://www.hbtu.ac.in>

# Vision

*To become a leader of innovation in the field of technological developments, capable of producing quality engineers & technologists compatible with world standards to deliver the benefits of developed technologies to the people.*

## **IMPORTANT NOTE :**

- (1)The information brochure is subject to alteration and modification without notice. Please note that all corrections /modifications /updates are uploaded on [www.hbtu.ac.in](http://www.hbtu.ac.in).  
(2)This brochure is for information only and does not constitute a legal document.

## CONTENTS

<b>Particular</b>	<b>Page No.</b>
<b>1. The University</b>	<b>1 - 3</b>
1.1 About the university	
1.2 Brief History	
1.3 Vision & Mission of the university	
1.4 Objectives of the university	
1.5 Location	
1.6 Campus	
<b>2. Academics</b>	<b>3 - 9</b>
2.1 Academic Programmes	
2.1.1 Under Graduate (B.Tech.) Programmes	
2.1.2 Post Graduate (M.Tech. & MCA) Programmes	
2.1.3 Doctoral Programmes	
2.2 Admission	
2.2.1 B.Tech.	
2.2.2 M.C.A.	
2.2.3 M.Tech.	
2.2.4 Ph.D.	
<b>3. Academic Policy</b>	<b>9 - 10</b>
<b>4. Fees</b>	<b>10 - 11</b>
4.1 Academic Fee	
4.2 Hostel Fee	
<b>5. Financial Assistance to Students</b>	<b>12 - 13</b>
5.1 Undergraduate	
5.2 Postgraduate	
5.3 Doctoral	
<b>6. Attendance</b>	<b>13</b>
<b>7. Academic Calender for the Session 2017-18 (Odd Semester)</b>	<b>13 - 14</b>
<b>8. University Timings</b>	<b>15</b>
<b>9. Schools</b>	<b>15 - 24</b>
9.1 School of Basic & Applied Sciences	
9.2 School of Chemical Technology	

9.3 School of Engineering	
9.4 School of Humanities & Social Sciences	
<b>10. Word Bank TEQIP-II/TEQIP-III Project</b>	<b>25</b>
<b>11. Rashtriya Uchchatar Shiksha Abhiyan</b>	<b>25</b>
<b>12. Student Hostels</b>	<b>26 - 29</b>
<b>13. University Students Activity Council (USAC)</b>	<b>29</b>
<b>14. Student Discipline</b>	<b>29 - 32</b>
14.1 General Conduct	
14.2 Standing Orders for Students	
14.3 Anti-Ragging Measures	
<b>15. Training and Placement Cell</b>	<b>32 - 33</b>
<b>16. Science &amp; Technology Entrepreneurs' Park (STEP)</b>	<b>33</b>
<b>17. Central Facilities</b>	<b>33 - 35</b>
17.1. Central Library	
17.2 Central Workshop	
17.3 Computer Center	
<b>18. General Facilities</b>	<b>35 - 36</b>
18.1 Canteen	
18.2 Medical Center	
18.3 Banking & Postal Facilities	
18.4 Railway Concession	
18.5 Student Counseling	
18.6 Guest House	
<b>FACULTY IN POSITION</b>	<b>37 - 40</b>
<b>HELPLINE</b>	<b>41 - 43</b>

## **1. The University**

### **1.1 About the University**

Harcourt Butler Technical University Kanpur has been established in year 2016 by the Government of Uttar Pradesh with a view for making it a leading Residential Technical University to become a Centre of Excellence with focus on Research and Development and Incubation in the field of Engineering, Technology, Basic & Applied Sciences, Humanities, Social Science & Management, Architecture and other professional courses. HBTU aims to promote studies, research & innovation in engineering areas of higher education, to enhance skill development through continuing education programme and knowledge and to achieve excellence in higher technical education.

On academic front, the University is running Four Schools with thirteen Undergraduate Programmes in Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Information Technology, Leather Technology, Mechanical Engineering, Biochemical Engineering, Food Technology, Oil Technology, Paint Technology and Plastic Technology along with M.C.A, full time & part time M.Tech. Programme in various disciplines and going to start full time Ph.D. programme in number of disciplines as part of Quality Improvement Programme of MHRD and TEQIP-III. In view of the emerging need of the time, the University is planning to start number of Programmes at Undergraduate and Post Graduate level in the near future.

The University provides a congenial environment for the holistic growth and all round development of the students such that they become globally acceptable personalities with communication skills, proper attitudes, aptitudes, problem solving capabilities and to work as a team.

HBTU Kanpur (Formerly HBTI) has received aid from the World Bank (TEQIP-I & TEQIP-II) for various developmental projects. This aid has been used for development of the infrastructure, new laboratory equipments, maintenance and repair of old laboratory equipments, funding for research and lectures attended by faculty in foreign universities and aim towards community development and overall growth.

The faculty members have contributed large numbers of research papers in Indian as well as International journals. Besides, many R&D schemes sponsored by DST, UGC, ICAR, DRDO, UPCST, CSIR, DAE, ICMR, DOE and ministry of civil supplies have been successfully completed.

### **1.2 Brief History**

Erstwhile Harcourt Butler Technological Institute has always been a paragon and a source of inspiration in the field of science and technology since 1920. Its roots date back to 1920 when the Government of United Provinces established "Government Research Institute, Cawnpore", which was subsequently renamed as "Government Technological Institute" in 1921. Finally, in 1926, it got the name by which we had been knowing it till August 2016 i.e., "Harcourt Butler Technological Institute". It was previously a Government Department, but w.e.f. 26.03.1965, it was declared as an autonomous institution. The institute was fully financed by the Government of Uttar Pradesh. Recognizing its competence to enhance technical horizons, Outlook Magazine in its June 2012 and May 2013 issue ranked HBTI as 24th and 25th respectively among the top technical institutes of the country including IITs. It was also awarded as Best Government Engineering College of the Country by ABP News in year 2012 and year 2013. Presently HBTU Kanpur is

residential technical university fully financed by UP Government. Till August 2016, HBTI remained to be the first choice of the candidates qualifying UP State Entrance Examination (UPSEE), among all government and private technical institutions of the state. After becoming university, students are admitted through JEE (Mains) in B.Tech. programme, NIMCET in MCA and through GATE/NET in M.Tech./Ph.D. Programmes.

### **1.3 Vision & Mission of the University**

#### **Vision**

“To become the leader of innovation in the field of technological developments, capable of producing quality engineers & technologists compatible with global standard to deliver the benefits of developed technologies to the society.”

#### **Mission**

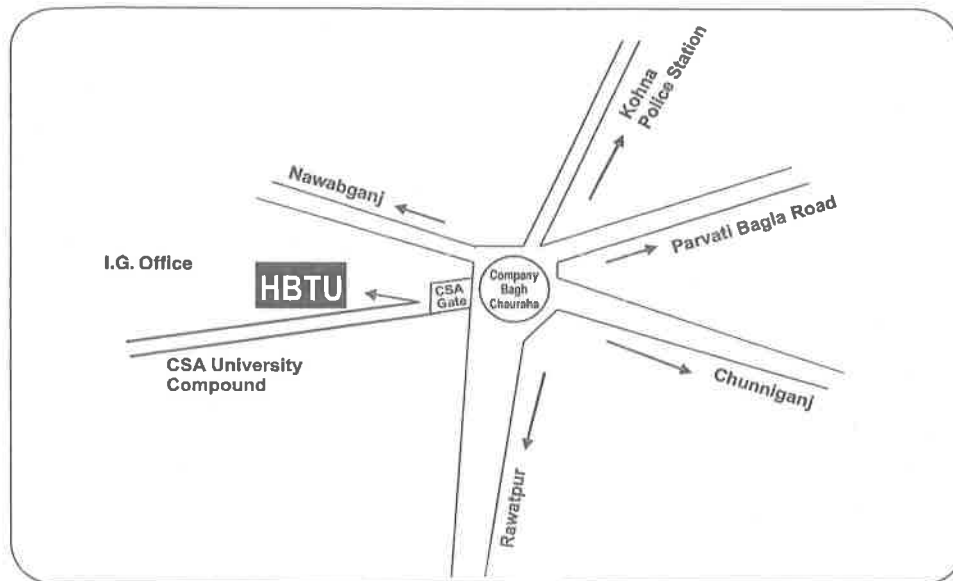
“To create an environment conducive to provide opportunities to the budding engineers, technologists, researchers & practicing engineers of industries, for fusion of their ideas in developing areas of technology, so that society could be benefitted at vast level.”

### **1.4 Objectives of the University**

- (a) To provide facilities for, and devise and implement programmes of education in engineering, technology,, basic and applied sciences, humanities, social sciences and management, architecture and other professional courses keeping in mind the current needs, anticipated changes and projected long term academic, research and industry and societal requirements related to engineering and technology.
- (b) To further the advancement of knowledge in engineering, technology, basic and applied sciences, humanities, social sciences and management, architecture and other professional courses, pursue and promote research, innovation and incubation, disseminate knowledge for the betterment of the society and bring about wide spread awareness of the tool and methods continuously generated by the advances in such field.
- (c) To serve as a centre for fostering co-operations and exchange of ideas between the academic and research community on one hand, and the Industry and the University on other, and promote entrepreneurship.
- (d) To promote better interaction and co-ordination to approve the governance of the University and facilitate for higher education.
- (e) To promote discipline and the spirit of intellectual inquiry and to dedicate itself as a fearless academic community to the sustained pursuit of excellence.
- (f) To promote innovation through research and knowledge incubation.
- (g) To further skill development and manpower training activities for the benefit of the society.
- (h) To provide research and development and incubation facilities for budding entrepreneurs among students, teachers and others and to provide help related to legal, financial, marketing and other matters to them.

## 1.5 Location

The university is located at around 9 km from the Kanpur Central railway station, in the Nawabganj area of the city. Various prominent spots or locations such as CSA Agricultural University, GSVM Medical College, Kanpur Zoo, Company Bagh Chauraha, Rawatpur railway station etc. are located in close vicinity of the university.



## 1.6 Campus

The university is spread across two campuses, the east campus (77 acres) and the west campus (271 acres) situated about 3 km apart. The main (EAST) Campus of the institute, located near CSA University of Agriculture & Technology, houses mainly administrative and instructional buildings. In addition, East campus also consists three hostels for boys namely, the Lake-View Hostel (old and new) and four hostels for girls viz., GH-I, II, III & IV. It also has a few residential quarters. The West Campus of the university, located on the road connecting Kanpur Zoo and GT Road, houses five hostels for boys namely, the West Campus Hostel I, II, III & Dr. B. R. Ambedkar Hostel I, II as well as a PG Hostel, in addition to the residential quarters for most of the faculty and staff of the university. The East campus of the university is now connected to a separate 33KV sub-station for uninterrupted power supply. The hostels in West Campus have independent power backup through generators.

## 2. ACADEMICS

### 2.1 Academic Programmes

#### 2.1.1 Under Graduate (B. Tech.) Programme

The university runs 13 undergraduate programmes leading to B. Tech degree. Each of these programmes is of four year duration (8 semesters). The first component of these programmes is the core program common to

all branches, and planned to give the students a strong base of the general education in engineering sciences, humanities and applied sciences. The second component of the UG programme includes professional courses and a project in the chosen branch of Engineering & Technology. The B.Tech Degree is offered in Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Information Technology, Leather Technology, Mechanical Engineering, Biochemical Engineering, Food Technology, Oil Technology, Paint Technology & Plastic Technology.

Branches	Sanctioned Seats
(i) B.Tech. (Chemical Engineering)	50
(ii) B.Tech. (Civil Engineering)	30
(iii) B. Tech. (Computer Science & Engineering)	60
(iv) B.Tech.(Electrical Engineering)	33
(v) B.Tech.(Electronics Engineering)	45
(vi) B.Tech.(Information Technology); <i>Self-financed</i>	30
(vii) B.Tech. (Leather Technology)	20
(viii) B.Tech.(Mechanical Engineering)	60
(ix) B.Tech. (Biochemical Engineering)	30
(x) B.Tech. (Food Technology)	30
(xi) B.Tech. (Oil Technology)	30
(xii) B.Tech. (Paint Technology)	30
(xiii) B. Tech. (Plastic Technology)	30

### 2.1.2 Post-graduate (M.Tech. & MCA) programmes

The university offers M.Tech. and MCA programmes. The M.Tech. programme is of 2 years (four semester) duration for full time students and 3 years (six semester) for part time students. The Master of Computer Application (M.C.A.) programme is of 3 years (six semester) duration. The goal of these programmes is to develop high quality of scientific and engineering manpower to cater the needs of industry, R&D organizations and educational institutes. The university offers the following PG programmes:

#### M. Tech. (Regular Full-Time)

1. M.Tech. (Chemical Engineering)	18
2. M.Tech. (Chemical Technology)	34
(a) with specialization in Biochemical Engineering	
(b) with specialization in Food Technology	
(c) with specialization in Oil Technology	
3. M.Tech. (Computer Aided Design)	18



4. M.Tech. (Electronics & Communication Engg.)	18
5. M.Tech. (Environmental Sci. & Engg.)	18

#### **M.Tech. (Part-Time)**

1. Chemical Engineering	10
2. Civil Engineering	
(a) Soil Mechanics & Foundation Engineering	10
(b) Structural Engineering	10
3. Electrical Engineering	
(a) Power Electronics & Control	10
4. Mechanical Engineering	
(a) Mechanical Engineering Design	10
(b) Industrial Systems Engineering (ISE)	10

<b>MCA Regular (FULL-TIME)</b>	<b>60</b>
--------------------------------	-----------

#### **2.1.3 Doctoral Programmes**

The research facilities exist in all the disciplines of Engineering, Technology and Basic Sciences (Physics, Chemistry, Mathematics) & Humanities. A good number of students carry out research work in thrust areas in different departments leading to Ph.D degree. Many Ph.D. scholars working under sponsored research projects receive JRF and SRF. Total seats for Ph.D admission are 34 per year. There are 08 no. of seats under QIP in Electronics Engineering, Mechanical Engineering, Chemical Engineering and Civil Engineering Programme.

## **2.2 Admission**

### **2.2.1 B.Tech.**

As per the provisions of 35(2-4) of the HBTU Act, there shall be an Admission Committee who will be responsible for making selections for admissions to various courses in the university through a National Level Entrance Examination, subject to the superintendence of the Executive Council. The admission committee shall lay down the principles or norms governing the policy of admissions to various courses of studies in the university. Consequent upon the provisions laid there in, an Admission Committee of the University was constituted vide order no. 154/RO/2016 dated 06-01-2017 (amended vide letter 62/HBTU/Admn./GA/2017 dated 22-04-2017 and 229/HBTU/Admn./GA/2017 dated 06.06.2017). The Admission Committee of the University has decided that for the academic session 2017-18, the admission to B.Tech. programme in the university be made through JEE Main 2017 rank. The Admission Committee is authorized to take every decision regarding conduct and admissions through JEE Mains 2017.

- **Eligibility**

The academic qualifications, as prescribed in Information Bulletin of JEE (Main)-2017, on the basis of which the candidate appeared for the JEE Mains 2017 are applicable for admission to B.Tech. programme at HBTU Kanpur. Extracts of some of the salient eligibility are reproduced below.

- **Eligibility for appearing in JEE (Main) – 2017**

**i) Date of Birth**

Only those candidates whose date of birth falls on or after October 01, 1992 are eligible. However, in the case of scheduled caste (SC), scheduled tribe (ST) and persons with disabilities (PWD) candidates, upper age limit is relaxed by 5 years, i.e. SC, ST and PWD candidates who are born on or after October 01, 1987 are eligible. Date of birth as recorded in the Secondary Education Board/University certificate will only be considered.

**ii) Year of Appearance in Qualifying Examination (QE)**

Only those candidates who have passed their class 12th examination or any equivalent qualifying examination in 2015 or 2016; or those who are appearing in their class 12th examination or any equivalent qualifying examination in 2017 are eligible to appear in JEE (Main)- 2017. Candidates who passed class 12th/qualifying examination in 2014 or before as well as those who will appear in such examination in 2018 or later are not eligible to appear in JEE (Main) – 2017. Candidates who appeared in class 12th/equivalent qualifying examinations in 2014, did not pass in 2014, but passed in 2015 are also not eligible to appear in JEE (Main) 2017.

**iii) Number of subjects in the Qualifying Examination (QE)**

Candidates must have taken at least five subjects in class 12th/qualifying examination in order to be eligible for writing JEE (Main) - 2017. The candidates who have taken four subjects are not permitted to write JEE (Main)-2017 and if such candidates appear in JEE (Main)-2017 by furnishing wrong information, their rank/result will not be declared.

**iv) Eligibility for admission to First year B.Tech. programme at HBTU Kanpur**

The subject combination required in the qualifying examination (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be Physics, Chemistry and Mathematics.

For admission to first year of B.Tech., a candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University without grace in required each compulsory subjects and one optional subject as given above and securing minimum 45% marks (40% marks for SC/ST category candidates) in aggregate in required three subjects.

- **Admission To Fee Waiver Seats Under “Tuition Fee Waiver” Scheme**

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B.Tech. programme at the university. No tuition fee will be charged from the candidates admitted

against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit the requisite certificate given on the admission website at the time of verification of documents.

• **Category Definitions**

• **Reservation of Seats**

**1) Vertical Reservation (Category):**

Category	Percentage of Reservation
(a) Scheduled Caste of U.P.	21 %
(b) Scheduled Tribe of U.P.	02%
(c) Other Backward Classes of U.P.	27%

**2) Horizontal Reservation (Sub-category available in each category):**

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defence personnel of U.P. either retired (superannuated) or killed / disabled in action or defence personnel posted in U.P./defence personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Handicapped / Disabled of U.P.	UPHC	03%
(d) Girls of U.P.	UPGL	20%

3) The candidates can be given **only one** type of horizontal reservation out of UPFF/UPAF/UPHC.

**However, the girl candidates can also claim for any one of UPFF/UPAF/UPHC alongwith UPGL.**

- 4) Subsequent request for the change of category / sub-category filled in Application Form **shall not** be entertained under any circumstances.
- 5) Category / sub-category must be supported by the relevant certificates as per proforma given on the website to be produced at the time of counseling/reporting, failing which the candidates shall be treated in General Category.
- 6) The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defence personnel of U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.', and 'the defence personnel posted in U.P.' on the date of JEE Main 2017.
- 7) Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates.

- **Medical Standards**

- Candidates will have to submit a certificate of Medical fitness/ handicap on Certificate number 9 at the time of counselling.
- The medical standards prescribed are given below:

**Medical Standards Applicable:**

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles, congenital or any other disease etc.	Presence of any of these is to be corrected before joining.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.
<b>Physically Handicapped / Disabled:</b>	
Type -- I	Minimum 40% permanent Visual impairment
Type -- II	Minimum 40% permanent Locomotors disability
Type -- III	Minimum 40% permanent speech and Hearing impairment

- **Tuition Fees**

The total fees for admission to First year B.Tech for all branches is Rs.98300/-. However, few courses are under self-finance scheme and the details of the fee for such courses would be as per the guidelines available in the university. The information about hostel fee can be obtained from the University.

- **Admission To Non-resident Indian (NRI) Candidates In First Year**

NRI candidates, who possess prescribed qualifications may get direct admission on 5% seats of total intake in HBTU Kanpur having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The candidates, seeking for admission under this scheme, need not appear in JEE Mains.

- **Admission To Kashmiri Migrants In First Year**

Direct admission to Kashmiri Migrants in first year is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and is limited to one admission in the university.

- **Admission To Fee Waiver Seats For Economically Weaker Meritorious Students**

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also

available in B.Tech. courses in HBTU Kanpur. No tuition fee will be charged from the candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit a valid Income Certificate at the time of verification of documents.

### **2.2.2 MCA**

The admission to MCA programme running in the university is being made through NIMCET - 2017, a national level entrance examination for admission to MCA programme in NITs. In order to be eligible for MCA programme at HBTU Kanpur, a candidate should be a domicile of U.P. (For details, refer to university website <http://www.hbtu.ac.in>)

### **2.2.3 M.Tech.**

Admission to M.Tech. programmes (Full time & Part time) are to be made *on-line* only. The admission in M.Tech. (Full Time) will be through GATE qualified candidates. If, after counseling of all GATE qualified candidates, seat remain vacant, admission would be made through non-GATE candidates. The U.P. govt. has schemes for fee exemption/reimbursement for M.Tech. (Full time) candidates of various categories of students belonging to U.P. No tuition fee shall be charged from eligible SC/ST candidates at the time of granting admission as per U.P. government order No. 37 Bha.saa/26-3-04-4(77)/02 dated 18-06-04. A relaxation in the tuition fee amount equal to tuition fee of govt. institutions has been granted to OBC/General category economically weaker students by the govt. vide order No. 4136/solah-1-2008-135/2008 dated 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated 16.09.08. (For details, refer to university website <http://www.hbtu.ac.in>)

### **2.2.4 Ph.D.**

Application for admission to Ph.D. Programme is to be made through *on-line* only. There is no age limit for candidates seeking admission to the Ph.D. Programme. The admission to Ph.D programme (full time & part time) will be done as per UGC notification issued on May 05, 2016 in the form of The Gazette of India. The qualified candidates (cut-off 50%) in written examination will be eligible for interview. (For details, refer to university website <http://www.hbtu.ac.in>)

## **3.0 Academic Policy**

The overall academics in the university is governed by the Academic Council of the university, which is the supreme body for academic matters. The constitution of the council includes all Deans, Heads of Department, EC nominee with the Dean (Academic affairs) as the Member Secretary and Vice-chancellor, HBTU Kanpur as the Chairman. The council has two sub bodies namely the Board of Studies and the Board of Examinations. The Board of Studies deals with the change, revision or upgradation of scheme or syllabus of various subjects being taught by various departments. The overall responsibility of question paper setting, conduct of examination, evaluation, result preparation and declaration of results lies in the domain of

Examination Committee. For routine academic matters, the university has an Academic Committee which has all Heads of Departments as the members, the Dean (Academic Affairs) as the Member Secretary and the Vice-chancellor, HBTU Kanpur as the Chairman.

• **Examinations**

The examinations are conducted under the supervision of Board of Examinations, HBTU Kanpur under the overall superintendence of the Controller of Examinations. From the academic session 2017-18, the university would be adopting Credit based promotion rules, as detailed in the university ordinance. The evaluation process of the students is based on the concept of continuous monitoring/assessment & evaluation, and it has two components viz. the sessionals and the end semester theory exam. The sessional component (of 40 marks) for theory subjects comprises of one class test of 30 marks, assignments/quizzes etc. of 5 marks and attendance of 5 marks. The end semester examination comprises of 60 marks. The distribution of marks for sessional, end semester theory papers, practicals and other examinations, seminar, project, industrial training and general proficiency shall be as prescribed in scheme of evaluation and criteria is prescribed in ordinances.

**4.0 Fees**

**4.1 Academic Fees**

The fees charged from first year students are given below. In case of any change in University fee and other fees/charges by the competent authority, the students will have to pay the same.

Sl.No.	University Fee	B.Tech	MCA	M.Tech	Ph.D
1.	Tuition Fee	70000.00	40000.00	45000.00	12000.00
2.	Caution Money	5000.00	5000.00	5000.00	5000.00
3.	Examination Fee	7000.00	7000.00	7000.00	7000.00
4.	University Development Fee	2000.00	2000.00	2000.00	1000.00
5.	Student Welfare Fund	500.00	500.00	500.00	250.00
6.	Enrolment Fee	1000.00	1000.00	1000.00	2000.00
7.	Admission / Registration Fee	500.00	500.00	500.00	500.00
8.	Council of Student Activity Fee	1000.00	1000.00	1000.00	1000.00
9.	Identity Card Fee	100.00	100.00	100.00	100.00
10.	College Day Fees	200.00	200.00	200.00	200.00
11.	Magazine Fee	150.00	150.00	150.00	150.00
12.	Student Add Fee	200.00	200.00	200.00	200.00

13.	Internet Fee	4000.00	4000.00	4000.00	4000.00
14.	Computer Stationary Charges	500.00	500.00	500.00	500.00
15.	Placement Fee	1000.00	1000.00	1000.00	1000.00
16.	Exam Contingency	500.00	500.00	500.00	300.00
17.	Medical Fee	1350.00	1350.00	1350.00	1000.00
18.	Library Fee	1000.00	1000.00	1000.00	1000.00
19.	Laboratory Fee	1000.00	1000.00	1000.00	1000.00
20.	Alumni Membership	1000.00	1000.00	1000.00	1000.00
21.	Information Boucher	200.00	200.00	200.00	200.00
22.	Miscellaneous Fee	100.00	100.00	100.00	100.00
23.	Contingency	-	-	-	16000/-
	<b>Total</b>	<b>98300.00</b>	<b>68300.00</b>	<b>73300/-</b>	<b>55500/-</b>

#### 4.2. Hostel Fee

S.No.	Head	Amount
1	Hostel fee Hostel Security	17000/- 1000/-
2	Mess Advance	30000/-
<b>Distribution of Funds</b>		
A	Room rent	10000/-
B	Hostel management	4400/-
	i) Hostel activity	800/-
	ii) Electric fan	400/-
	iii) Utensil/crockery	200/-
	iv) Ward boy salary	3000/-
C	Hostel maintenance	600/-
D	Electricity charges	2000/-

## 5. Financial Assistance to Students

### 5.1 Undergraduate

#### (i) Merit Scholarship

Meritorious students (ten percent of sanctioned intake or actual intake whichever is less in order of merit) of each year and each branch of Undergraduate Engineering and Technology are awarded university Merit Scholarship (IMS) of the value of Rs 300/- p.m. The scholarship is tenable for 10 months. It is normally expected that the students who have been awarded the merit scholarship shall make proper use of the same, behave properly, and show interest in their studies. However, the university may, for genuine and sufficient reasons (to be recorded), not award the merit scholarship or cancel the scholarship once awarded, at any stage.

#### (ii) Other Scholarships & Aids

##### SC/ST/OBC/General & Minority Scholarships

There exist a provision of scholarship / fee reimbursement from the Government of U.P. to all those SC/ST students, OBC/General/Minority category students, whose parents have total annual income less than **Rs. 2.0 lakh**. From the Central Government the minority category students can also avail merit-cum-means scholarship/fee reimbursement if the total income of their parents is less than **Rs. 2.5 lakh**. The students willing to apply for scholarship will have to submit an application along with the following. (Please see the website [www.scholarship.nic.in](http://www.scholarship.nic.in) for details)

1. Valid **caste certificate** issued by competent authority (not below the rank of Tehsildar) (Applicable for SC/ST/OBC/Minority only).
2. Original **income certificate** of their parents from the revenue authority, i.e., tehsildar stating that the total income of the family (from all the sources) is not more than Rs 2lac/2.5lacs (as the case may be). Besides, the students whose either/both parents are employed will have to produce income certificate from their employer(s).
3. **Domicile Certificate**.
4. Copy of internet **varification certificates/slips** for above certificate downloaded from the Board of Revenues website: <http://bor.up.nic.in>
5. Copy of **Aadhar Card** of the Student.

**Note: The Saving Bank A/c in Central Bank of India, HBTI, Kanpur Branch to which Scholarship amount has to be remitted, is to be linked with this Aadhar No.**

6. Affidavit by the father/guardian giving the personal details (name, age, wards name and college of study, caste, address of residence) and stating that:
  - a) The fact regarding the income mentioned at (2) above.
  - b) **\*\*not more than two of my children are availing the said facility of reservation (fee exemption and grant of maintenance allowance) in the current academic year.**



c) The information given at (a) and (b) above is true and if, at any stage it is found that I have concealed/ lied some information, I shall forfeit the entire amount and shall be liable to legal action/prosecution as per rules.

\* For SC/ST students, there is exemption on the total fee at the time of registration. In addition they are eligible for maintenance allowance.

\*\* This limit of 2 children/wards shall not be applicable in case of only girl child.

## **5.2. Postgraduate**

### **M. Tech.**

GATE qualified candidates admitted to the postgraduate full time Programmes are awarded scholarship for 24 months subject to the availability of grant from AICTE.

## **5.3 Doctoral Programme**

Fellowships of DST, UGC, CSIR, UPTU and other organizations are available as per provisions of the funding organizations.

## **6. Attendance**

Students are expected to attend 100% classes. Normally student shall be allowed to appear in an mid/end - semester examination only if he / she has put in 75% attendance in all the theory / practical subjects in that semester. However, an additional shortage by an amount not exceeding 15% of the total number of lectures delivered or practical work done in each subject may be condoned for special reasons, as given below:

- (a) A shortage upto 5% of the total number of lectures delivered or practical work done in each subject may be condoned by the Head of the Department.
- (b) A further shortage upto 10% may be condoned by the Vice-chancellor of the university on the specific recommendation of the concerned Head of Department.

## **7. Academic Calender for the Session 2017-18 (Odd Semester)**

The students are advised to see the notice board of academic section and the website of HBTU Kanpur [www.hbtu.ac.in](http://www.hbtu.ac.in) from time to time to apprise themselves regarding academic calender and other related matters.



## **8. University Timings**

The official timings for academic activities of the university are from 10.00 hrs. to 17.00 hrs. (Monday to Friday) and from 10.00 hrs. to 13.30 hrs. on Saturday. Any change in these timings is duly notified. The students are advised to see the notice boards and university website regularly. The time table/class schedule is also displayed on the notice boards and on university website.

## **9. Schools**

### **9.1 School of Basic and Applied Sciences**

#### **Chemistry Department**

The department of Chemistry is one of the oldest department of HBTU Kanpur established in 1924. The department has formulated a dynamic and relevant curriculum for UG program being run in the university, and possesses an excellent infrastructure. The basic aim of this department is to introduce new combination of theoretical studies, technologies in industrial applications and research oriented activities. To carry out research in cutting edge areas, both of basic and applied nature, at par with international standards, the Ph.D. students are educated and trained to become world class scientists. The department is globally recognised for its outstanding research in Polymer Science, Solar Energy Conversion and Storage, Chemical Kinetics, Synthesis and Biological Evaluation, Water Treatment, Coordination Chemistry and Molecular Spectroscopy. In order to meet the demand of skilled manpower in the emerging areas of Chemistry, the department has suitable infrastructure supported by modern equipments to train the students. The department has procured various sophisticated analytical instruments through TEQIP, Phase-II. The department has also planned to start postgraduate programmes like M.Sc. in Chemistry and M.Sc. in industrial Chemistry in the coming years.

The department imparts education in Physical, Organic, Analytical and Industrial Chemistry at U.G and Ph.D. level. The department has excellent research outputs that are comparable to any High profile academic institution. The department has completed several research programs/schemes sponsored by the National funding agencies like UGC, CSIR, DST, ICAR, UPCAST, INSA, AICTE etc. The qualified and dedicated faculty of this department have written books on various fields of Chemistry and published good number of research papers in National and International (around 430) journals of repute. The department has also organized a number of National and International conferences and seminars. The department also imparts testing and consultancy facilities to the industries of Kanpur and nearby areas to improve the quality of their products. The main strength of the department has been research and development for last nine decades.

#### **Mathematics Department**

The Department of Mathematics has been developed for teaching engineering students at undergraduate and postgraduate level and for conducting research in Applied and interdisciplinary areas. The faculty of the department is actively engaged in research in emerging thrust areas viz. mathematical modeling, ecological and environmental systems, mathematical biology, biomechanics, fluid mechanics of the eye and cerebrospinal fluid, blood flow dynamics, etc. Facilities for interdepartmental and interdisciplinary research activities have also been evolved.

The Department is well equipped with computing and internet facilities. A number of research schemes sponsored by different organizations like CSIR, CST UP, UGC, DST, AND ICMR have been completed. Also, various conferences, seminars, workshops, summer and winter schools have been organized by the department. Apart from this, the faculty members of the department also regularly visit to deliver lectures in conferences and seminars outside. Nearly 61 students have been awarded Ph.D. degrees under the supervision of departmental faculty members. The department plans to start masters programme in Mathematics in near future.

### **Physics Department**

Department of Physics imparts physics teaching to undergraduate students of this university. This department has taught several courses like Physics-I, Physics-II, Material Science and Engineering Materials as well as Material Science in recent past. Presently it is delivering Engineering Physics course to all branches of B. Tech. (First year Engineering and Chemical Technology students). In addition, this department is also teaching Solid State Physics to B. Tech. (Second Year, Electronics Engineering Branch students). This department has been pioneer in research for more than last 35 years and produced more than 50 Ph.D. students. Most of these are now at reputed positions at various universities of India and abroad. This department has also published more than 500 research papers and undertaken several research projects from CSIR, UGC, DST etc. The department plans to start PG programme (M.Sc. Physics) with specialization in Condensed Matter Physics in future.

Physics department of the University is well equipped with research facilities; such as Thin Film Evaporation unit, LCR Meter (Digital), Vacuum Sealing unit, High Temperature Furnaces, Photoconductivity Set-up, High Field Conductivity Set-up etc. The university provides an opportunity for doing Ph.D. to those students who have completed M.Sc. in Condensed Matter Physics.

## **9.2 School of Chemical Technology**

### **Bio-Chemical Engineering Department**

The department of Biochemical Engineering came into its independent existence as a separate department with inception of Harcourt Butler Technical University (earlier known as H. B. T. I.) Kanpur in the month of September 2016. Earlier the department established in 1964 as twin department of Biochemical Engineering and Food Technology completed 52 glorious years of its journey. The department is running four year full time undergraduate (B. Tech.) program and two year full time postgraduate (M. Tech.) program for award of B. Tech. and M. Tech. degree in Chemical Technology with specialization in Biochemical Engineering. In addition to this the department also offers admission to full time Ph. D. program. The laboratories of the department are well equipped with modern facilities to meet necessities of various programs and to acquaint the students with latest practices used in industries and research areas relevant to Biochemical Engineering and Biotechnology. The faculty of department is highly qualified and instrumental in enriching students with knowledge and skills that enables them to serve in industry and research organization. The department has been granted various projects with financial assistance approved by reputed organizations for example CST, DBT and World Bank (TEQIP-I and TEQIP-II). The department successfully organized number of national and international seminars, workshops, conferences and faculty development programs. Genesis is one of

such program organized every year by the students of the department reflecting creativity and productivity of students. The department is also actively involved in testing and consultancy work. The alumni of the department are highly placed in various industrial and other government and private organizations contributing their best in growth and development of nation and for benefit of society. The department has a clear vision in enhancement of its capabilities in future by updating faculty and students with latest technical know-how through modernization of laboratories and periodic review of syllabus.

### **Chemical Engineering Department**

The department of chemical engineering was established in 1954 to build up trained and versatile technical manpower to the growing chemical and allied industries. The department has highly qualified and experienced faculty members involved in research as well as teaching chemical engineering and chemical technology at B.Tech., M.Tech. and PhD level. The department strives to provide its students with facilities and environment that are conducive for creative and dynamic work. More than 7000 students have been exhaustively and thoroughly trained by the committed faculty and staff of the department. The basic understanding of chemical engineering education to many of these students has certainly provided the impetus, confidence and leadership capability to such a greater extent that our old students are found at the higher echelon of almost all the reputed organizations and institutions all over the world.

The department has built up a comprehensive research infrastructure with excellent facilities for carrying out teaching and research. Constant efforts are being made to maintain and enhance the high standards of this department with ranking among the best of chemical engineering departments of India. The department has run several research projects in technology, engineering and basic sciences, of which some were sponsored by institutions like UGC, CSIR, DST, BARC, ICAR, MHRD, UPCST and CIDA(Canada). The faculty has extensively contributed by writing books and publishing good number of research papers in national and international journals. The department has organized a number of national and international seminars, workshops and short term courses and training programs. The department is actively engaged in fostering new ideas in the field of chemical engineering education and is looking forward to a still better tomorrow.

### **Food Technology Department**

Department of Food Technology was set up as a separate department under the aegis of School of Chemical Technology after the conversion of HBTI into HBTU in September 2016. Previously, it was called Department of Biochemical Engineering and Food Technology since it was formed by collaboration of two areas namely Biochemical Engineering and Food Technology, and was set up in 1964. Being one of the oldest departments of the University, it aims to produce man power with high quality scientific skills, broad understanding of fundamentals & innovations in the field of Science & Technology, immense knowledge in their areas of specialization, keen interest to stay updated with the technical developments in their specialized areas, ability to solve practical industrial problems and above all the capacity to learn continually and interact with multi-disciplinary groups.

The department is offering four year B.Tech. and two year M.Tech. programs in Food Technology along with a regular Ph.D. program to support the students to develop skills and knowledge in their respective fields according to the present and future needs of society and industry.

The department is having a team of distinguished faculty with immense knowledge and hands on experience in the field of research in food processing, food product development and food quality. They are grooming the young technocrats into promising professionals to have un- matched knowledge, wisdom and moral values. The rich pool of alumni have proved their mettle in various organizations including civil services, teaching, research & development and multinational companies.

The infrastructure and laboratory facilities are top-notch possessing equipments which used high through put techniques to provide research oriented work at par under one roof. An association of students and faculty exists to invigorate not only the organizational skills and soft skills but also the personality development of students which is reflected in the numerous activities organized by the students like-Fresher's welcome, Farewell function, National and State level Seminars and Workshops. Various refresher courses and Faculty Development Programs are organized in view of social responsibility. This department has also organized community service camp and programs to provide training to common masses. Many sponsored projects funded by various central/state agencies like DST/DBT/MHRD/MoFPI/UPCST/AICTE/TEQIP (World Bank) etc. have been undertaken and successfully completed.

Alumni of the department are placed at high positions in government, industries and academic sectors in India and abroad. They are always willing to help the department and its students to further the collective mission. Department has now completed its glorious and successful fifty three years and will continue to achieve more and more in coming years.

#### **Leather Technology Department**

The department of Leather Technology was established in the year 1978, to meet the demand of skilled/trained manpower in the emerging areas of Leather Industry. The department has suitable infrastructure supported by equipments for Practical and Theoretical Teaching. The passed out students are serving the Leather Industry at reputed firms. The requirement of Technical manpower is increasing with the flourishing Leather Trade in Kanpur, Unnao, Jalandhar, New Delhi, Kolkata & Chennai etc. Our students gets in plant summer training in different reputed firms like TATA, CLRI, BASF, STAHL, TFL, Balmer Lawrie etc. and department conducts seminars, workshops etc. with the industry. The emerging and flourishing footwear trade also offers exciting career to the students as also the leather products and garment manufacturing.

#### **Oil Technology Department**

The Department of Oil Technology is the oldest department of HBTU (Formerly HBTI) Kanpur, established in 1921. The department offers B.Tech., M.Tech. and Ph.D. programmes. Since its inception in 1921, the department has made great strides in the past. The department has highly qualified faculty having Ph.D. degree with good number of research publications in National and International journals of high repute. The faculty of the department frequently visits abroad regarding presentation of their research work in international Conferences. The department also maintains a close liaison with other national and International institutions and industries, and has accomplished several research and development projects in collaboration with them. Further, the department has successfully completed a number of research projects sponsored by National funding agencies viz. AICTE, DST, CSIR, UPCST etc. The department also

conducted a prestigious Indo-Canadian partnership project in collaboration with University of Guelph, Canada. Besides this, Centre of Excellence on “Applied Research Training and Education in Lipid Science” has been established in the department under TEQIP-II (World Bank Project) in which a new state-of-the-art laboratory named, Advanced Surfactant Laboratory has been established. This laboratory is equipped with good number of modern sophisticated instruments viz. UV- Visible, FT-IR spectrophotometer, GC-MS, Atomic Bomb Calorimeter, DSC, TGA, Glossmeter, Safety Analyzer, Multi-fuel Analyzer, Surface Tensiometer, Rheometer etc. Apart from this, Knowledge Resource Center has also been established under Center of Excellence in which 20 desktop computers equipped with different software viz. MATLAB, Design Expert, STATISTICA and Origin Pro for strengthening R&D activities have been set-up. About five dozens of new books on thematic area of the Center are also available for the users. The department has also signed MoU with a number of industries viz. M/s Ruchi Soya Industries Ltd., Mumbai, M/s FARELABS, Gurgaon, M/s Mineral Oil Corporation, Kanpur and M/s MILINDIA Ltd., Noida. The financial assistance/scholarship is available to undergraduate students of Oil Technology from M/s Ruchi Soya Industries Ltd., Mumbai. The postgraduate students of Oil Technology are also having a provision of financial assistance / scholarship from M/s FARELABS, Gurgaon. In addition, a few number of Teaching & Research Assistantships/ Research-cum-Teaching Fellowships are available for Master's and Doctoral Programmes under TEQIP-II and Center of Excellence (CoE) as well as HBTU. The scenario of placement of students of the department is excellent, as almost all students get jobs through campus placement in the organizations of high repute. Besides this department is birth place of Oil Technologists' Association of India (OTAI). The zonal and head offices of OTAI are also functioning effectively in the department.

### **Paint Technology Department**

The formal Chemical technology-Paint Technology degree education in India was started during 1964 with “B.Sc. (Chem. Tech.) Paint Technology”, of three year duration. In 1991 the 3 years B.Tech course after B.Sc. was changed to 4 years B.Tech course after I. Sc. (10+2), at par with other Engineering and Technology courses. There are Ph. D. program also in the department. The Paint Technology department remained joint with Oil Technology Department for a very long time. The twin department used to call as Oil and Paint Technology Department. After the status of university, the new Department Chemical technology – Paint Technology was formed on 9th January 2017, and Professor P.K.Kamani was appointed as the first Head of the Department.

The students of the Paint Technology Department, are endowed with the inherent attributes of excellence and perfection. The department has undoubtedly been a centre of excellence for learning in the country. There is a close relationship between the faculty and students. The faculty regularly provides technical updates regarding the latest industrial trends. The students are given small projects of research oriented at UG level. They are motivated for paper writing , presentation in seminars, symposium, conferences etc. to develop their professional perception. The department has sculpted numerous engineers, who had proved their mettle by becoming the souls and roots of various industries in the field of research in the country and abroad, and are repatriating credit and fame to the department. Various programs are designed to impart knowledge, and strengthen concepts and intellectual skills through course work, seminars and project/ thesis work and cater to the needs of industry, R&D organizations, and educational institutions. The department maintains a close touch with other national and international educational institutions & industries and has accomplished several research & development projects in collaboration with them.

There are more than 100% placement at UG level at various applications ( Maruti, Honda, Hyundai, TVS, Volkswagen, Tata motors etc, ) and manufacturing (Asian Paints, Kansai Nerolac, PPG, Sherwin Williams, Berger Paints, Indigo Paints, Railways, etc.) industries. Further to add, the department is proud of having the students of high caliber as most students go abroad for higher education MS, Ph.D. MBA, M. Tech etc. The department is also having the Scholarship from Asian Paints Charitable Trust Mumbai and every year the 3-5 poor students with high rank are given full scholarship. There is a National level Association PACT (Paint and Coating Technologists' Association of India) in the department having more than 500 members from premier industries who provide support to the department in various manner e.g. expert lectures from top level personnel, placement and training support etc.

The department is well equipped with laboratory equipment of general testing and sophisticated instrumental testing along with pilot plant on powder coating application, spray application, resin manufacturing and also paint, putty, past & ink manufacturing etc. The department conducts training program on paint application and manufacturing industries for their skilled and semiskilled workers. In addition, the workshops are also organized time to time to train the semi skilled, skilled, educated unemployed youths, BPL youngsters etc. The department is government recognized for providing the certificates and test reports to various government and private agencies. The materials (paint, varnish, raw materials) are tested and evaluated. The consultancy and certificates are provided by experience faculty members of the department. The department is in communication with Eastern Michigan University USA for Memorandum of Understanding for exchange programm/higher education of students of the department.

### **Plastic Technology Department**

The Department of Plastic Technology was established in 1964. At that time B.Sc. Chemical Technology degree course of 3-year duration was started, which in the year 1978 was converted to B.Tech. (Chemical Technology) (Plastic technology) degree course of three years duration. In 1991 the course was upgraded to B. Tech. 4-year degree course after 10+2. Besides this, department also offers Doctoral programme in Plastic Technology & Applied Chemistry. The curriculum of B.Tech. programmes encompasses latest developments in the field, as well as present and future needs of the industry. These are modified from the time to time as per the suggestion by board of studies members who are reputed personalities from the industry, and other academic institutions.

At present there are seven faculty positions in Plastic Technology Department out of which three senior faculty members are present. The remaining faculty positions are filled with contractual appointments.

**Details of Laboratories :-** There are four main laboratory at the under graduate level, which are as follows-

**1) Processing Lab-** Equipped with Injection molding machine, Extrusion plant for pipe, Extrusion plant for film, Rotational molding machine, Compression molding machine, Twin screw extruder, Two roll mills, etc

**2) Polymerization Lab-** Polymerization set up for emulsion suspension polymerization set up for phenol formaldehyde, resin synthesis, Abbe's refractometer, Ostwald viscometer, etc.



**3) Testing Lab** - Universal tensile testing machine, Impact testing machine, falling dart impact testing machine, Abrasion testing machine, Rockwell hardness tester, Shor A hardness tester, Vicat softening and Heat distribution temperature tester, Brookfield viscometer, Electronic Densimeter, Rock Well Hardness Tester, Indigenous 4 Sided Applicator.

**4) Characterization Lab**- U.V. spectrophotometer, Rheometer, Ultrasonicator, wear and Friction tester, Microwave synthesizer, Lab Injection molding Machine, etc.

The department has built up a comprehensive research infrastructure with top-notch facilities for carrying cutting-edge teaching and research. Constant efforts are being put up to maintain the high standards of this department to be ranked as one of the best in India. The department strives to provide its students with facilities and environment that are conducive for creative and dynamic work. The department has contributed by way of research paper publications in national/international journals of repute; and by paper presentations in national/international conferences. The department has run various R&D projects sponsored by AICTE, UGC, DMSRDE, and UPCST etc. It has also undertaken relevant research projects, which serves the interest of the industries. The plastic technology department is proud of its excellent infrastructure and its role in providing the best professionals to the nation. The department also host a student chapter named Polymer Engineers & Technologists Association (PETA) and runs a departmental library. The department also takes special care in arranging offshore as well as highly paid summer trainings to the students at the end of third year. The department has excellent placement records with 90% placement in session 2016-2017.

### **9.3 School of Engineering**

#### **Civil Engineering Department**

The Department of Civil Engineering was established in 1966. It is one of the premier department of the university. The department offers full time undergraduate degree programme in Civil Engineering and post graduate degree programme in Environmental Science and Engineering. The department also offers two 3-years part time post graduate degree programme in Structural Engineering and Soil Mechanics & Foundation Engineering. The curriculum of these programs encompasses latest developments in the field as well as present day and future needs of industries.

The department has well developed laboratories with all essential facilities for running undergraduate and post graduate programs. The major equipments available in the department includes fire furnace, core cutter apparatus, ultrasonic concrete tester, universal testing m/c., loading frame, electronics total station, U. V. spectrophotometer, rock core cutting machine, electrical resistivity meter, vehicle counting and classifier, hand held traffic speed radar gun, Francis turbine etc. The students have an in-depth exposure to computing environment using water CAD, sewer CAD, storm CAD, STAAD. Pro, GEOMETICA Education set, Auto desk education solution set and Arc view. The department has a well furnished building housing ten laboratories, three classrooms, one tutorial room, one drawing hall, library, departmental office and separate rooms for faculty. The total area of laboratory and drawing hall is approximately 1300m<sup>2</sup>. The departmental library has 400 books and more than 1100 journals.

The department is among the best in the Institute in terms of practical exposure and Institute industry interaction. The department has learned and dedicated faculty members contributing towards research and development and continuing education programmes. Number of projects funded by AICTE, New Delhi and UPCST, Lucknow has been successfully completed by the department. Over the years, industrial interaction has increased and today the annual external funding in the department runs to more than 100 lacs as industrial consultancy.

### **Computer Science & Engineering Department**

The department was established in the year 1984 with a 4-year B.Tech. program is Computer Science & Engineering having an intake of 30 students. Master of Computer Application (MCA) programme with an intake of 30 students was introduced in the year 1987. Under the recommendations of IT task force, B.Tech. in Information Technology program was started in the year 2000 with an intake of 60 students. Presently, the department is running B.Tech. Computer Science & Engineering (Accredit by National Board of Accreditation for 3 years), B.Tech. Information Technology and MCA programs with students' intake as 60, 30 and 60 respectively. Department has highly qualified and committed faculty members to take care of the academic and other requirements of the students. Faculty members have published large number of research papers in International and National Journals and Conferences. The faculty members of the department are also engaged in supervising Ph.D. students in their respective areas of expertise. Various research projects funded/sponsored by AICTE & UGC, New Delhi, have been completed successfully. Few research projects sponsored by TEQIP are running in the department. Students are given in depth knowledge and exposure to the computing facilities available in various laboratories of the department. The department is known for producing quality software engineers and providing better placements in leading software development organizations of India & Abroad. Besides academic curriculum, students are also encouraged to take part in various co-curricular activities organized from time to time under the aegis of FCIT (Fraternity of Computer and Information Technologist), an association of the department. INCORD, the annual technical fest of the department is well recognized by Engineering and Technological Institutions all over the state and country. As a short term goal, the department is planning to start an M.Tech. program in Computer Science & Engineering discipline.

### **Electrical Engineering Department**

The Department of Electrical Engineering was established in the year 1965. It is one of the oldest and premier engineering department of the university. The number of the students having completed their undergraduate programme has reached more than 1000 figure mark. The department has been playing a vital role in producing scientists and technologists of highest caliber ever since its inception. A part from offering a bachelor degree programme in electrical engineering, the department also offers part time master degree programme in power electronics and control discipline also department offer Ph.D. The department has been playing a pioneering role in producing world-class postgraduates and research scholars.

The department has rich and experience faculty members. The department has distinguished faculty, all holding degrees from renowned institutes/universities. The passed out students have proved their mettle in various private organizations, public sector organizations, civil services, teaching & research, research &

development and multinational companies. Electrical Engineers rolling out of the institute are well groomed in the care areas of Control Systems/ Power Electronics/ Electrical Machines/ Power Systems/ Measurement and Instrumentation and Instrumentation/ Machine Design / power generation, Transmission & distribution as well as Software Development / Handling and R & D work.

The continuous updations in the course curriculum polishes the budding electrical engineers, in a way, so as to meet the challenges posed by newer technologies and reach the ever-expanding horizons. The experience, expertise and enriched knowledge of the faculty members are the distinguishing features of this department. The department has an annual intake of 33 students in the Undergraduate B.Tech. programme, 10 in post graduate M. Tech. degree programme and few in Ph.D. depending upon availability.

The infrastructure and laboratory facilities are being upgraded from time to time as to provide adequate opportunities for students and researchers to learn and carry out technological innovations. The department has Library, Electrical Machines Laboratory, Power Electronics & Electric Drive Laboratory, Microprocessor & Control Laboratory, Power System Laboratory, Network Laboratory, Electrical Fabrication Laboratory, Simulation Laboratory, Electrical Measurement Laboratory, Instrumentation Laboratory. The department has state of art class room, Committee Room, library and State of art equipment like Real Time Simulator, Industrial control trainer, Solar and wind system etc..

The department is continuously engaged in research and development activities. Several national and state level seminars, technical festivals, faculty development programmes, conferences, symposia, expert lectures, workshops etc. are part of its yearly agenda. The department has been accredited by National Board of Accreditation, (NBA). The department also undertakes many research projects sponsored by both the government and the industry.

### **Electronics Engineering Department**

The Department has committed faculty members for taking care of academic and other requirements of the students. It offers B.Tech. in Electronics Engineering and M.Tech. in Electronics and Communication engineering. In addition for Ph.D. programme there are two seats under QIP and one seat under TEQIP-II as research cum teacher fellow. At present there are nine Ph.D. scholars under QIP/TEQIP. The Department has successfully implemented many sponsored projects funded by Swiss Bank, AICTE, DST, DRDO and TEQIP.

The Board of Studies of the department regularly updates the syllabus to meet and requirements of industry and academia. The department is having well equipped labs and software for virtual instrumentation, VLSI design, PCB design, signal processing, optical networks etc. Various extracurricular activities are regularly organized by the students under the aegis of Association of Electronics engineers for their overall development. The students of the department are well placed in Govt. sector, private sector, MNCs, civil services, engineering services, teaching, R & D, higher education in IITs and IIMs.

The faculty of the department is well qualified and associated with institutes of repute like IITs, IISC, NITs and has published several papers in referred journals and conferences of international and national repute. The faculty members of the department are continuously involved in R & D activities with their research students. Several national level seminars, conferences, faculty development programmes, expert lectures, workshops etc. have been organized by the department.

The Department is also growing in terms of infrastructure. Various grants have been received from AKTU, TEQIP and RUSA (National Higher Education Mission) MHRD for equipment and separate building of the department.

### **Mechanical Engineering**

The Department of Mechanical Engineering was established in 1964. It runs a regular B.Tech. programme in Mechanical Engineering with a student intake of 60. The department runs a regular M.Tech. programme in Computer Aided Design with an intake of 18 students. Department also runs two part time programmes- M.Tech. (Mechanical Engineering Design) and M.Tech.(Industrial System Design) with 10 seats each. Department is a QIP Center and has two Ph.D. seats under this scheme of MHRD, Govt. of India. Two Ph.D seats are also available under University Merit Scholarship. Department has committed and highly qualified faculty members and most of them have obtained their Ph.D. from reputed institutions / universities of the country. They take care of all the academic and other requirements of the students and expose them to the latest developments, knowhow and skill enhancement.

Department is the front runner in organising seminars, workshops, FDPs, conferences etc. in the University and recently organised an International Conference. A number of research projects sponsored by outside agencies such as AICTE, UGC, UP CST & DST have been completed by the department and a few are still under progress. Department also pursued several minor projects under TEQIP-II. Department has started one Incubation Center under TEQIP-II, World Bank Scheme. Faculty members of the department are pursuing research in the areas of composites, smart materials and structures, advanced and hybrid machining, 3D printing and reverse engineering, biomaterials, alternative fuels etc.

Department has two registered student Chapters- Institution of Engineers (India) and ISHRAE which are helpful in their regular interaction with working professionals and Industry. All sorts of technical and extracurricular activities are regularly organised by the students under the aegis of Association of Mechanical Engineers (AME) in the Department.

## **9.4 School of Humanities and Social Sciences**

### **Humanities Department**

Department of Humanities was constituted along with all other twelve academic departments, as a full fledged department as per HBTI society by laws in the year 1965. The department initially catered the need of communication for the under graduate students as per the industrial need for the professional skills in technocrats, department introduced many courses for under graduate, post graduate and doctoral students. At present the department offers courses such as Professional Communication, Professional Communication Laboratory, Remedial English Language (B.Tech Ist year), Engineering Economics & Management (B.Tech. IIIrd year), Organizational Behavior (B.Tech. IIIrd year, CS & IT), Accounting & Financial Management, Organizational Structure & Human Resource Management, (M.C.A. Ist year). Apart from these compulsory courses the department also runs an open elective course entitled as Entrepreneurship Development. The department offers Ph.D. programme in the areas of Economics and Management.

At present, there are three regular faculty members in the department which includes one Professor & two

Associate Professor in Economics and in Human Resource Management each. Two guest faculty members in English also augment the efforts of department in developing future technocrats.

The department is also supported by one Research Assistant and two attendants right now. The faculty members of department are highly qualified and competent with their proven capabilities in their respective areas.

The department of Humanities has two language laboratories : one analog language laboratory and one digital language laboratory equipped with ultra modern facilities and software to facilitate the students of UG & PG level. More than 1000 reference books and 10 international journals in the Economics and Management subject are available in the central library. The department has also organized seminars and faculty development programmes as a part of its contribution to the development of academic fraternity.

#### **10. World Bank TEQIP- II/TEQIP-III project**

The Ministry of Human Resource Development in December, 2002 had launched the “Technical Education Quality Improvement Programme of Government of India (TEQIP)”, which aims to upscale and support ongoing efforts in improving quality of technical education and enhancing existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring both at national and international levels. The programme was conceived and designed as a long term project to be implemented in 10-12 years in 3 phases to support excellence and transformation in Technical Education in the country.

Harcourt Butler Technological Institute, Kanpur had been a part of TEQIP phase - I, and TEQIP phase-II. TEQIP phase - II project had two components viz. hard component and soft component. Under hard components existing PG laboratories have been modernized and new facilities have been created. Encouragement has been given for Internal Revenue Generation, Faculty, Staff and Student development, research etc. during the implementation of the TEQIP- II project.

The TEQIP - II project has been completed on 31-03-2017 and TEQIP - III phase has been sanctioned to HBTU Kanpur by Government of India.

#### **11. Rashtriya Uchchatar Shiksha Abhiyan**

Rashtriya Uchchatar Shiksha Abhiyan (RUSA) is National Higher Education Mission under MHRD, Government of India. The proposal of Harcourt Butler Technological Institute has been approved under Component no. 1 of RUSA “Conversion of Autonomous College into University”. The approval has been given for the total amount of Rs. 55 Cr. The various heads given in proposal are as follows. An amount of Rs. 25 crores has been approved for Building of Electronics Engineering Department, Lecture Hall Complex, Auditorium and Incubation Hub. In addition to this, an amount of Rs. 13 crores has also been approved for repair and maintenance work of Academic and Administrative buildings, and hostels, Centralized AC of Library and dedicated power line for West Campus. In order to strengthen the academics, Rs. 17 crores have been approved for equipment of various laboratories of the university.

## 12. Student Hostels

The main (EAST) Campus of the university, located near CSA University of Agriculture & Technology houses administrative and instructional buildings. In addition, it has three hostels for boys namely, the Lake-View Hostel Old and New four hostels for girls viz. GH-I, II, III & IV. It also has some residential quarters. The West Campus of the institute, located on the road connecting Kanpur Zoo and GT Road houses five boys hostels namely, WCH-I, II, III and Dr. B.R. Ambedkar hostel- I, & II as well as a PG Hostel. In addition, the West Campus also has residential quarters for most faculty and staff of the university.

The university has an accommodation for 1095 boys (in 10 hostels) and 433 girls (in 04 hostels). The details of number of seats available in each hostel are given below :

1. Girls Hostel-I	Triple seated	105 seats
2. Girls Hostel-II	Triple seated	105 seats
3. Girls Hostel-III	Triple seated	105 seats
4. Girls Hostel-IV	Single seated	118 seats
5. Lake View Hostel-Old	Double/Triple seated	150 seats
6. Lake View Hostel-New	Single/Triple seated	200 seats
7. West Campus Hostel-I	Single seated	180 seats
8. West Campus Hostel-II	Triple seated	162 seats
9. West Campus Hostel-III	Single seated	180 seats
10. Dr. B.R. Ambedkar Hostel-I	Triple seated	105 seats
11. Dr. B.R. Ambedkar Hostel-II	Triple seated	105 seats
12. Ganges View Hostel	<b>Seats are not available for allotment in 2017-18</b>	
13. PG Hostel (Boys)	<b>Seats are not available for allotment in 2017-18</b>	

In addition to above, a new boys hostel (total capacity of 400) in the West Campus of the university is under construction.

At present the number of seats in hostels for allotment is less than the total strength of students, and hence the hostel accommodation may not be available to all first year students. Each of the above hostel has its own mess. The detailed hostel and mess rules are given overleaf.

### 12.1 Hostel and Mess Rules

#### a) Hostel Rules

1. The Wardens of the hostel shall be responsible for managing the hostel efficiently. In every hostel, there will be a Hostel Management Committee (HMC), nominated by the Warden for smooth running of the hostel. The HMC comprises of;

a.	General Secretary	Secretary
b.	Prefects on every 20-25 students	Member
c.	Mess Secretary	Member
d.	Sports Secretary	Member
e.	Common Room Secretary	Member
f.	Cultural Secretary	Member
g.	Maintenance Secretary	Member

However, Wardens can also constitute specific committees/subcommittees for specific purpose.

2. Within and outside the hostel the residents should do nothing which may cause noise and distraction in studies or may be deemed vulgar in any way.
3. No unauthorized person is allowed to stay at night (9:00 PM to 6:00 AM) in the hostel. Prior permission must be obtained from the Warden. If this is not possible for some urgent reason, the warden should be informed the following morning explaining full reason for the delay in receiving prior permission. No female guest is allowed to stay in the boys hostel and vice-versa under any circumstances either during day or at night.
4. Every student who has been granted hostel accommodation must reside in the accommodation allotted to him/her. Students should not interchange hostel or rooms in the same hostel without prior consent of the Warden.
5. Furniture provided in the room should not be removed and used elsewhere.
6. Every resident is required to be present in the hostel during night (9:00 PM to 6:00 AM). Absence from the hostel without prior written permission from the Wardens is an offence.
7. Heaters are not allowed in the hostel. Residents are encouraged to have Personal computers in the hostel, but strictly for academic purpose.
8. The Hostel inmates will refer their difficulties to the General Secretary or the Prefect concerned who will take necessary action in consultation with the Warden.
9. The hostel mess will be run by students under the general supervision of the warden. The inmates are required to follow the mess rules strictly.
10. No meetings/Associations are permitted in the hostel unless prior permission of the Warden taken stating the nature and scope of the meeting.
11. Every student residing in a hostel shall join the hostel mess. However, the wardens may exempt an individual student from the hostel mess on medical grounds for a specified period.
12. Student falling sick should inform the hostel Warden who will make necessary arrangement for their treatment.
13. Gambling of any kind and use of liquor/drugs of any variety is strictly prohibited.
14. A student is not permitted, even though possessing a licence, to keep firearms with him/her. Also pets such as dogs etc. are not permitted in the hostel.

15. All hostels are required to be vacated during the summer vacation. Before proceeding on vacation students must handover charge of their rooms, furniture, fittings etc. The Warden is authorized to break/open a locked room. No responsibility will be accepted by the university for the private belonging of the student concerned found in these rooms.
16. Common room shall be available to the hostelers from the morning to 10.00 P.M. in the night. After 10 P.M. it will be closed and the key will be placed with common room secretary. In case of any specific event, the timings for common room may be extended with the prior written permission of the Wardens.

The working of the hostel is controlled by the Dean of Student Welfare (DSW), who is also the chairman of the council of Hostel activities.

The discipline of students, within and outside the university is controlled by the Proctorial Board headed by the Chief Proctor, along with student perfects and class representatives.

#### **b) Mess Rules**

Each student will deposit a sum of Rs. 30,000=00 (Thirty Thousand) for an academic year at the time of registration or allotment of room in the hostel as a Mess advance. At the end of year, the Mess Manager will prepare the account of the student with the help of hostel committee members. If there is balance amount in favour of the student, it will be refunded to him/her and no dues will be given to student by the warden. In case of extra charges on the student's account, it should be paid by the student for getting no dues from the warden.

1. The mess will be run by the students under the general supervision of the Wardens. An Executive Committee consisting of elected or nominated members will be formed for the management of the mess. The duties and responsibilities will be divided amongst the members of the committee for smooth running of the mess.
2. The Executive Committee shall consist of the following;
  - a. Mess Secretary
  - b. Mess Manager
  - c. Mess Manager's nominee. In the case of double and triple seated rooms, the nominee shall be the room mate or one of his room mates.
  - d. Mess Committee Members on every 40 students.
  - e. Outgoing Mess Manager.
3. The list of Mess Managers for the whole session shall be prepared by the Warden in the beginning of the academic year. Each Mess Manager and his/her nominee and mess committee members shall hold office for one month.
4. The Mess Manager will prepare the account with the help of the committee members and circulate it within 3 days of the closure of the month.
5. Only full day Mess offs can be allowed to such residents who have taken prior station leave permission from the Wardens provided the application for mess offs is received by the mess manager at least two days in advance.



6. Guest will be charged according to the number of diets and/or Breakfast taken as per the charges fixed by the mess committee from time to time.
7. Guest will not be normally allowed to take meals for more than 3 consecutive days unless the host has taken prior permission from the hostel Warden.
8. Outsiders i.e. those not residing in the hostel can not normally become a member of the mess. However, the Warden is empowered to allow outsiders to take meals in the mess for a brief period only. 'Outsider' means non-hosteller university students or ex-hostellers or members of the staff.

**Note:** *As per decision taken at the competent level, the mess facility in students hostels is soon to be run by firms of repute, engaged in providing such service.*

### 13. University Students Activity Council (USAC)

The university is committed for overall personality development of the students. The USAC activities are aimed at grooming extra-curricular skills of the students. It has 8 sub-councils. These sub-councils are :

- a) NSS Sub - Council
- b) Photography Sub - Council
- c) Literary Sub - Council
- d) Hobby Sub - Council
- e) Sports Sub - Council
- f) Yoga Sub - Council
- g) Cultural Sub - Council
- h) NCC Sub - Council

The activities of each sub-council are managed by a committee consisting of a faculty member as its convener, elected student secretary, two nominated staff members and two nominated student members. The sports sub-council has a Physical Instructor as an additional member. The USAC activities are funded from the fees collected from the students as well as from the grants received from the Government or other agencies for the purpose. The university has two play-grounds with adequate facilities for most of the outdoor and indoor games like Basketball, Football, Table tennis, Lawn tennis, Badminton, Cricket and Gymnastics. The Hobby Sub-Council possesses two projectors (16 mm and 35 mm). The Photography Sub-Council has facilities for developing films, photo printing and enlarging photographs related to literary and cultural activities. An auditorium equipped with good light and sound system exists. The Cultural Sub-Council has an orchestra of its own which is fully managed by students. The students are not only encouraged to take part in all the activities of the Council but are also evaluated regularly based on their participation and performance in them.

### 14. Student Discipline

#### 14.1 General Conduct

Each student shall conduct himself, both within and outside the university, in a manner befitting the traditions

of this university. Ragging in any form, inside or outside the university is strictly prohibited. The students are advised to go through the standing orders given below under section 14.2. In case of any act of ragging, indiscipline, vandalism and loss to the university property necessary disciplinary action is taken by the Chief Proctor / Proctorial Board of the university. The Wardens, Dean and Associate Dean, Student Welfare are responsible for welfare related issues of all students of the university. The students can also approach the concerned Head of Departments/Wardens/Dean and Associate Dean (Student Welfare) for solution to their problems and guidance.

#### **14.2 Standing Orders for Students**

Students of the university should go through these Standing Orders carefully and also make themselves familiar with the rules, regulations and other instructions. Apart from the standing orders mentioned here they have to abide by the notices/orders issued from time to time, pertaining to their academic, curriculum, and other activities. Any amendments and additions to these standing orders will be notified through notices displayed on the notice boards and circulated in the usual manner. In case of any difficulty or requiring assistance, they should contact the authorities concerned as indicated in these orders. The plea of ignorance will not be entertained for any breach of orders in force from time to time. Apart from academic work they are expected to take full part in other student's activities also.

Students having attendance less than 75% or as decided by University will not be eligible for appearing in class test and End semester Examination. They may be debarred from placement interviews for which they themselves shall be responsible.

The Proctorial Board of the university will investigate all the alleged mis-demeanour reported and shall recommend suitable punishment to the Vice-Chancellor. Violation of the code of conduct of students, by a student or a group of students can be referred to the Chief Proctor's office by any student, teacher and staff member of the university directly.

#### ***Conduct of Discipline***

1. No student is expected to indulge in any activity, which tends to bring down the prestige of the university. Each student shall show due respect and courtesy to the teachers, administrators, officers and employees of the university, and good neighbourly behavior to fellow students. They should also pay due attention and courtesy to the visitors and residents of the campus.
2. Lack of courtesy and decorum; unbecoming conduct (both within and outside the university); willful damage or removal of university property or belongings of a fellow student; disturbing fellow students in their studies; adoption of unfair means during examinations; breach of rules and regulations of the university; noisy and unseemly behaviour and similar other undesirable activities shall constitute violation of the Code of Conduct of students.
3. Violation of the Code of Conduct by any student shall invite disciplinary action and may lead to punishment, such as reprimand, fine, being debarring from examination, debarring from the placement, cancellation of registration and even dismissal from the university.
4. The Wardens of the concerned hostel shall have power to reprimand or impose fine against any resident

of the hostel who violates either the rules and regulations or the Code of Conduct pertaining to the concerned hostel. Wardens can also take any other suitable actions in consultation with the Dean of Students Welfare and Chief Proctor as required.

5. Students will not be permitted to appear at any other formal course /examination during their stay at the university except with the written permission of the Vice Chancellor.
6. Use of liquors, drugs, or any other intoxicants in the university premises including hostels is strictly prohibited.
7. Students are warned incurring debt or committing irregularities in money matters. All cases and issues which lead to discredit to the university will warrant disciplinary action. The university, however, will not be responsible for debts, in any way.
8. Students must pay all their university, Mess and other dues before the stipulated dates. Failure to deposit the dues in time may result in fine or any such other penalty as deem fit.
9. Students must carefully handle the laboratory equipments, instruments, machines, and plants which they have to use in the course of their study. The students will be penalized of writing anything on walls, chairs, tables, desks and black boards. Pasting unauthorized notices is improper and is strictly prohibited.
10. Any get-together outside the university campus including outings, picnics, visit to lakes & rivers (e.g. the river Ganges) etc. for any reason is strictly prohibited without prior permission of the Chief Proctor, except for outside visits organized by the concerned department for academic purpose.
11. Students are neither allowed to become members of outside non-academic societies nor to join discussion of a political nature and to take part in any political activity, outside the university.
12. Students are not allowed to use mobile phones in university premises during university hours.
13. Students are required to always carry their Identity Cards/Registration Cards in the university premises.

### 14.3 Anti-Ragging Measures

*Ragging is a reprehensible (very bad and morally wrong) act, which does no good to any one. The cause of indulging in ragging is deriving a sadistic pleasure and showing off power, authority or superiority over juniors, which is highly undesirable. No act of ragging shall be tolerated and any act of ragging shall not go unnoticed and unpunished.*

*Broadly, speaking Ragging is : any disorderly conduct by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any other student, indulging in rowdy or indisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not do in the ordinary course and which has the effect or causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student.*

It is right, as well as an obligation of all the students to fight against ragging. Any instance of ragging to which

they are subjected or which comes in their knowledge should forthwith be brought to the knowledge of the authorities. It shall be promptly dealt with while protecting the complainants from any harassment by perpetrators of ragging.

Ragging is banned in the university. Anyone indulging in ragging will be punished appropriately alongwith filing a First Information Report (FIR) with the local police authorities. The punishment may include :

#### **Outright expulsion from the University.**

- Barring from appearing in placement interviews.
- Withholding results, scholarships or other benefits.
- Fine with a public apology.
- Suspension from the classes for a period.
- Suspension from the university for a period.
- Suspension or expulsion from hostel or mess.

Also, the punishment to be meted out will be exemplary and justifiably harsh to act as a deterrent against recurrence of the incidents of ragging. In every single incidence of ragging where the victim or his parent/guardian is not satisfied with the institutional arrangement for action, a FIR will be filed. Besides, the **Migration Certificate/Character Certificate** shall have an adverse entry apart from that of general conduct and behaviour whether the student had participated in and in particular was punished for ragging. In case the applicant for admission is found to have indulged in ragging in the past or if it is noticed later that he has indulged in ragging, admission may be refused or he shall be expelled from the Institution.

#### **• Attention**

According to the UTTAR PRADESH PROHIBITION OF RAGGING IN EDUCATION INSTITUTIONS ACT, 2010 (U.P. ACT No. 14 OF 2010, as passed by the Uttar Pradesh Legislature), "Whoever directly or indirectly commits, participates, abets or propagates ragging within or outside HBTU Kanpur premises shall be punished with imprisonment of either description for a term which may extend to two years or with fine which may extend to ten thousand rupees or both. Any student convicted of an offence shall not be admitted in any educational institution for a period which may extend to five years.

#### **15. Training and Placement (T & P) Cell**

The most important domain of activities of a professional courses University like HBTU Kanpur is the domain of activities related to the training and placements. The HBTU Kanpur earlier known as HBTI Kanpur, as an institute, holds a rich legacy. This institution started in year 1921. It had been one amongst the few engineering college pre-independence in the country. This institution is known for its quality teaching, therefore, its proud alumni are ruling the roost, wherever they are. The institution hold a very strong relationship with the industry. As a result of this, and also because of our constant efforts to achieve the excellence in the domain of higher education in engineering and technology, this institution provides a very

high quality placement to its students. At present, the institution provides more than 80 % placement, whereas, the remaining students go for further higher education or eventually become start-up / entrepreneur. For grooming the students to get their dream placements, the Training and Placement Cell of the University in coordination with Schools of the University, organizes finishing schools, mock interviews and GDs, expert lectures etc. throughout the year. The Dean (Planning and Resource Generation) of this University is being vouchsafed by the HBTU Act 2016, the operation of Training and Placement Cell of the University. For efficient operation of the Training and Placement Cell of the University, the Dean (Planning and Resource Generation) is being assisted by two University Placement Coordinators and the Departmental Placement Coordinators. The Dean (Planning and Resource Generation) of the University is Prof. Yaduvir Singh. The University Placement Coordinators are Dr. Anita Yadav and Dr. Sanjiv Kumar. In future, it has been planned to have a separate dedicated building equipped with all state-of-the-art facilities and other infrastructure for conducting various placement activities. Also, consistent efforts are being made to further improve the quantity and the quality of training and placements in the University.

## **16. Science & Technology Entrepreneurs' Park (STEP)**

The National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology, Government of India in conjunction with the All India Financial Institutions and State Agencies like the UPST and Department of Industries have established a Science & Technology Entrepreneurship Park at this Institution in the year 1986. The STEP-HBTI conducts Entrepreneurship Awareness Camps (EAC) and Entrepreneurship Motivational Trainings (EMT) for the students of the Institute. Skill oriented training courses for unemployed youths are conducted in the field of plastics, oils, paints and foods etc. Entrepreneurship Development Programmes (EDP) have also been conducted. A fulltime MBA Programme, affiliated to U.P. Technical University, Lucknow is also running successfully in STEP-HBTI, Kanpur. A new management programme (PGDM) of two years duration has also started in STEP-HBTI, Kanpur

## **17. Central Facilities**

### **17.1 Central Library**

Central Library of HBTU Kanpur has a rich and rare collection of approximately one lac which includes Text Books, Reference Books such as Encyclopaedia, Dictionary, Hand Books and Periodicals related to Engineering, Technology, Management, Basic Sciences, Literature and miscellaneous subjects. Central Library of HBTU provides Open Access Facility to Students with reading room facility. Presently 216 online journals (e-journals) of IEEE and ASME are also being subscribed in the Central Library. Central Library remains open from 9:30 am to 5:00 pm daily and from 10:00 am to 1:30 pm on all Saturdays and Sundays except National, Gazetted and Local Holidays.

Books are issued to students of different programmes/year for different periods of time as indicated below:

1. Ist Year B. Tech./MCA - 03 books for 10 days.
2. II year B. Tech./MCA - 04 books for 15 days.
3. III year and Final year B. Tech/Final MCA - 05 books for 15 days.
4. M. Tech. - 05 books for 20 days.

### **Borrowing procedure:**

1. Students have to fill up a Library Membership Card for getting themselves registered in the Central library. They will also submit one passport size photograph to be affixed on the Borrower Card issued by central library for being registered as member of Central Library.
2. Library books must be used with great care. Any defect noted at the time of borrowing of the books must be brought to the notice of the library staff immediately so as to avoid any further inconvenience.
3. Before leaving the Central library, the students should make sure of getting the library books properly issued against their card at the counter. Also belongings are to be shown while leaving the library to the Janitor at the Check Point. Personal belongings such as personal books/competition books etc. are not allowed inside the Central Library.

### **Overdue Charges:**

Students must strictly follow the Central library rules for borrowing books. The books must be returned on or before due date. After due date, overdue fine per day per book is realised as per rules in vogue. Presently 16 Daily Newspapers (Hindi and English) and 25 Magazines are also being subscribed in the Central library for the benefit of students.

### **17.2 Central Workshop**

The Central Workshop of the University is the central facility which provides training to undergraduate students and also assists the undergraduate, postgraduate and research scholars/students in the fabrication of their projects and experimental setups. It also provides help to the maintenance section of the University in its day to day working.

The set-up of the Central Workshop is divided in seven shops namely Machine Shop, Fitting Shop, Foundry Shop, Carpentry Shop, Black Smithy Shop, Sheet Metal Shop and Welding Shop. Most of the shops of the central workshop are well equipped for training purpose according to new modern technology. The important machines and equipments are CNC Vertical Milling Centre (VMC), CNC Lathe, Capstan Lathe, different types of milling, rolling and grinding machines, profile gas cutting machine. Argon gas welding plant, Oxy-acetylene gas welding plant (High pressure), modern oil fired boiler, universal wood working machine, power plane, core hardness tester, pneumatic power hammer, hydraulic power hacksaw etc. Each shop has modern and sophisticated measuring tools mainly combination set, sine bar, dial test indicator, slip gauge, vernier height gauge, micrometer etc.

### **17.3 Computer Center**

Computer Center caters to the computing needs of the faculty members, staff members and students for their research and teaching. It has a number of state of the art servers, high end Linux and Windows Laboratories and application software.

Computer Centre supports University wide 100 Mbps(1:1) fibre optic network that connects all the academic

departments, library, hostels, residences and other central facilities to the Computer Centre. Internet access is provided through a 100 Mbps dedicated Internet link. All advanced systems are equipped with 10/100/1000 Mbps Ethernet cards. EXTREME Core switch is acting as back bone switch and protected by FortiGate UTM. It is a tree topology network. Fibre backbone and Internet are connected through UTM. It has sufficient power back up.

## 18. General Facilities

### 18.1 Canteen

The East Campus of the university has a canteen serving vegetarian refreshments (snacks, fast food and fixed meals). The canteen remain open from 9 AM to 9 PM. Another canteen near workshop is also operational.

### 18.2 Medical Center

The university maintains an outdoor patient dispensary in the East-Campus. There is a Medical Officer to look after routine health needs of the students and staff. Complicated cases are referred to the Medical College/LLRM Hospital for necessary treatment. Prescribed medicines, if available, are provided by the university dispensary. All the students of university are covered under medical insurance scheme to take care of their medical requirements in the insurance approved hospitals.

### 18.3 Banking and Postal Facilities

Banking facility is available in the university East Campus by a full fledged branch of the Central Bank of India along with ATM facility. In addition ATM's of ICICI, HDFC and SBI are located in the vicinity of the university. One more ATM of State Bank of India has become operational in West Campus. There is also a post office in the West Campus of the university. In addition, a main post office is located in the Nawabganj area near the East Campus.

### 18.4 Railway Concession

The facility for the issue of Railway concession has been extended to the university by the railway authorities.

#### a) *Types of concessions and their eligibility:*

The types of concessions issued are as under:

- i) Concessions for Indian Students for home town
- ii) Concession for educational tours.

The Railway has fixed the upper age limit for the issue of concession vouchers as follows:

- |  |          |
|--|----------|
| i) General category students (Undergraduate)               | 25 years |
| ii) Schedule Caste/Schedule Tribe students (Undergraduate) | 27 years |
| iii) M. Tech. & Ph.D. (Postgraduate & Research Scholars)   | 36 years |

The concessions for home towns are issued for summer and winter vacations and for block holidays. The term "Home Town" connotes:

- (i) Native place of the students, or

(ii) The place where the parents or, if parents are not alive, the guardian of the students normally resides.

**b) Issuing Authority**

The Railway Concession shall be given to the students by the Dean of Student Welfare office on producing the IDENTITY CARD and REGISTRATION CARD by the students in person. The students are advised to contact the office of DSW for obtaining the requisite forms.

**18.5 Student Counseling**

A system of student counseling by the faculty to provide due care to students exists in the university. The faculty counselors provide guidance & advice to the students in matters related to academic, professional and personal issues. The students are advised to utilize this facility for the best of their benefit. In addition, the student guardians and teacher guardians are also appointed for first year students to take care of the freshers.

**18.6 Guest House**

The institute has a well furnished Guest House in the East Campus for visiting faculty, officers, guests, examiners etc. It has two VIP suits, two deluxe rooms, and eight air-conditioned rooms. Each room is double bedded. The accommodation can be booked in advance or on the spot if vacant, by paying charges as laid by the university.



**FACULTY IN POSITION**

2017 - 18

**Prof. Vinay Kumar Pathak**

**Vice Chancellor**

**Name of Faculty**

**Present Post**

**A) School of Basic & Applied Sciences**

**i) Chemistry**

**Dr. Chhagan Lal**

**Associate Professor & Head**

**Vacant Position: Professor 01, Associate Professor 02, Assistant Professor 01**

**ii) Mathematics**

**Dr.(Smt) Rekha Bali**

**Professor**

**Dr. Ram Naresh**

**Professor**

**Dr. Ram Autar**

**Professor**

**Dr. S.U. Siddiqui**

**Professor & Head**

**Dr. (Smt) Sapna Ratan Shah (JNU-lien)**

**Assistant Professor**

**Vacant Position: Professor 01**

**iii) Physics**

**Dr. R.K. Shukla**

**Professor & Head**

**Dr. S.K. Sharma**

**Associate Professor**

**Vacant Position: Professor 01, Assistant Professor 02**

**B. School of Chemical Technology**

**i) Chemical Technology (Bio-Chemical Engineering)**

**Mr. S.J. Nagar**

**Associate Professor & Head**

**Mr. Brajesh Singh**

**Associate Professor**

**Dr. Lalit Kumar Singh**

**Assistant Professor**

**Vacant Position: Professor 01, Associate Professor 01, Assistant Professor 02**

**ii) Chemical Engineering**

**Dr. Ram Prasad**

**Professor**

**Dr. Rajesh Katiyar**

**Associate Professor**

Dr. S.K. Gupta	Associate Professor & Head
Dr. Ashwini Sood	Associate Professor
Mr. G.L.Devanani (QIP leave)	Assistant Professor
Mr. Jitendra Kumar	Assistant Professor
Mr. A.K. Rathore	Assistant Professor

Vacant Position: Professor 02, Associate Professor 05, Assistant Professor 05

**iii) Chemical Technology (Food Technology)**

Dr. Karunakar Singh	Professor & Head
Dr. Alak Kumar Singh	Professor
Dr. Vivek Kumar	Assistant Professor

Vacant Position: Professor 01, Associate Professor 02

**iv) Chemical Technology (Leather Technology)**

Mr. Sumant Chatterjee	Associate Professor & Head
-----------------------	----------------------------

Vacant Position: Professor 01, Assistant Professor 02

**v) Chemical Technology (Oil Technology)**

Dr. R.K. Trivedi	Professor & Head
Dr. V.K.Tyagi (on deputation)	Professor
Dr. P.K.S. Yadav	Assistant Professor

Vacant Position: Professor 01, Associate Professor 02, Assistant Professor 01

**vi) Chemical Technology (Paint Technology)**

Dr. Pramod Kumar	Professor & Controller of Exam.
Dr. P.K.Kamani	Professor & Head
Dr. Arun Maithani	Professor

Vacant Position: Professor 01, Associate Professor 02

**vii) Chemical Technology (Plastic Technology)**

Dr.(Smt) Reena Singhal	Professor & Head
Dr. Deepak Srivastava	Professor

Dr.(Smt) Indira Nigam

Professor

Vacant Position: Professor 01, Associate Professor 01, Assistant Professor 02

**C. School of Engineering**

**i) Civil Engineering**

Dr.Sunil Kumar	Professor & Head
Dr. Dipteek Parmar	Professor
Dr.Pradeep Kumar	Professor
Mr. Prithvi Pati	Associate Professor
Dr. Deepesh Singh	Assistant Professor

Vacant Position: Associate Professor 01, Assistant Professor 05

**ii) Computer Science and Engineering & MCA**

Dr. V.K. Pathak (on deputation)	Professor
Dr. B.K. Tripathi	Professor
Dr. Anita Yadav	Associate Professor
Dr. V.D.Kausik	Assistant Professor
Dr. Raghuraj Singh (on deputation)	Professor
Dr. Narendra Kohli	Professor& Head
Dr. Prabhat Verma	Assistant Professor

Vacant Position: Associate Professor 02(CSE), Associate Professor -02,Assistant Professor 01(MCA)

**iii) Electrical Engineering**

Dr. Yaduvir Singh	Professor
Mr. J.K. Dwivedi	Associate Professor& Head
Mr. C.N. Singh (QIP leave)	Associate Professor
Dr. Archana Singh	Assistant Professor
Mr. Jameel Ahmad	Assistant Professor
Dr. Sanjiv Kumar	Assistant Professor

Vacant Position: Associate Professor 01, Assistant Professor 02

**iv) Electronics Engineering**

Dr. Rachna Asthana	Professor & Head
Dr. Krishna Raj	Professor
Dr. Manoj Kumar Shukla	Professor
Smt. Rajni Bisht (QIP leave)	Associate Professor
Dr. A.K. Shankhwar	Associate Professor
Dr. Ashutosh Singh	Associate Professor

Vacant Position: Professor 01, Assistant Professor 02

**v) Mechanical Engineering**

Dr. Onkar Singh	Professor
Dr. Rajive Gupta	Professor
Dr. S.K. Singhal	Professor
Dr. Anand Kumar	Professor & Head
Mr. Jitendra Bhaskar	Associate Professor
Dr. Vinay Pratap Singh	Assistant Professor
Mr. R.K. Ambikesh	Assistant Professor
Dr. Sanjeev K. Singh Yadav	Assistant Professor

Vacant Position: Professor 01, Associate Professor 02, Assistant Professor 03

**D-School of Humanities & Social Sciences****i) Humanities**

Dr. K.M. Mohapatra	Professor
Dr. (Smt) B. Nigam	Associate Professor & Head
Dr. V.K. Yadav	Associate Professor

**Vacant Position :**

Training & Placement Cell	Professor
---------------------------	-----------

Vacant Position: Professor 01

**Workshop**

Mr. J.B. Bajpai	Asstt. Supdt. & Officiating Supdt. (workshop)
-----------------	---

Vacant Position : Work Shop Supdt.01

# HELPLINE

## IMPORTANT TELEPHONE / MOBILE NUMBERS

HBTI, EPBX/CUG 0512-2534001-05

<b>Vice-Chancellor</b>	<b>Prof. (Dr.) Vinay Kumar Pathak</b>	<b>9721456001</b>
<b>Registrar</b>	Prof. Karunakar Singh	9721456002
<b>Finance Controller</b>	Mr. Rajesh Singh	7081300501
<b>Finance &amp; Accounts Officer</b>	Ms. Rita Sachan	9721456003

### DEANS

<b>Academic Affairs</b>	Prof. D. Parmar	7081300505
<b>Students' Welfare</b>	Prof. Ram Naresh	7081300544
<b>Continuing Education &amp; Internal Quality Assurance</b>	Prof. Anand Kumar	7081300504
<b>Incubation Hub</b>	Prof. Krishna Raj	7081300509
<b>Planning &amp; Resource Generation</b>	Prof. Yaduvir Singh	7081300508
<b>Research &amp; Development</b>	Prof. Reena Singhal	9721456046
<b>School of Basic &amp; Applied Sciences</b>	Prof. S. U. Siddiqui	7081300510
<b>School of Chemical Technology</b>	Prof. Karunakar Singh	9721456081
<b>School of Engineering</b>	Prof. Sunil Kumar	7081300503
<b>School of Humanities &amp; Social Sciences</b>	Prof. K. M. Mohapatra	7081300506

### HEADS OF DEPARTMENTS

<b>Computer Science &amp; Engineering</b>	Dr. Narendra Kohli	7081300526
<b>Mechanical Engineering</b>	Dr. Anand Kumar	7081300504
<b>Civil Engineering</b>	Dr. Sunil Kumar	7081300503
<b>Electronics Engineering</b>	Dr.(Mrs.) Rachna Asthana	7081300519
<b>Chemical Engineering</b>	Dr. S.K.Gupta	7081300512
<b>Electrical Engineering</b>	Sh. J.K.Dwivedi	9721456026
<b>Food Technology</b>	Dr. Karunakar Singh	9721456081
<b>Biochemical Engineering</b>	Sh. S.J.Nagar	7081300646
<b>Leather Technology</b>	Sh. Sumant Chaterjee	7081300542
<b>Oil Technology</b>	Dr. R.K.Trivedi	9721456006
<b>Paint Technology</b>	Dr. P.K.Kamani	7081300540
<b>Plastic technology</b>	Dr.(Mrs.) Reena Singhal	9721456045
<b>Mathematics</b>	Dr. S.U.Siddiqui	7081300510
<b>Physics</b>	Dr. R.K.Shukla	7081300507
<b>Chemistry</b>	Dr. Chhagan Lal	7081300511
<b>Humanities</b>	Dr.K.M.Mohapatra	7081300506

## ASSOCIATE DEANS

Academic Affairs	Dr. P. K. S. Yadav	7081300577
Academic Affairs	Dr. Sanjiv Kumar	7081300678
Continuing Education & Internal Quality Assurance	Dr. Vinay Pratap Singh	9721456084
Incubation Hub	Dr. S. K. Gupta	7081300512
Planning & Resource Generation	Prof. Arun Maithani	7081300524
Research & Development	Dr. Ashutosh Singh	7081300517
School of Basic & Applied Sciences	Dr. S.K. Sharma	7081300528
School of Chemical Technology	Prof. Deepak Srivastava	7081300543
School of Engineering	Prof.(Smt.) Rachna Asthana	7081300519
School of Humanities & Social Sciences	Dr. (Smt.) Bandana Nigam	7081300546
Students' Welfare	Prof. Alak Kumar Singh	7081300516

## PROCTORIAL BOARD

Chief Proctor	Prof. Ram Naresh	7081300544
Dy. Chief Proctor	Prof. Alak Kr. Singh	7081300516
Proctor	Dr. (Smt.) Anita Yadav	9721456045
Proctor	Dr. A.K. Shankhwar	9721456076
Proctor	Mr. Jameel Ahmad	9721456037

## HOSTEL WARDENS

Warden WCH – I	Dr. Lalit Kr. Singh	7081300565
Warden WCH – II	Dr. Deepesh Singh Dr. S.K.S. Yadav	7081300521 7081300522
Warden WCH – III	Dr. Chhagan Lal Dr. Vivek Kumar	7081300511 7081300539
Warden WCH – IV	Dr. Ram Autar Mr.A.K. Rathore	7081300530 9721456051
Warden L.V. Old	Dr. Vinay P. Singh Dr. Prabhat Verma	9721456084 7081300515

Warden L.V. New	Shri Jameel Ahmad Dr. Sanjiv Kumar	9721456037 7081300678
Warden Girls Hostel – I	Dr. (Smt.) Reena Singhal Dr. Vandana D. Kaushik	9721456046 7081300529
Warden Girls Hostel – II	Dr. Rachna Asthana Smt. Poonam Malhotra	7081300519 7081300599
Warden Girls Hostel – III	Dr. (Smt.) Indira Nigam Dr.(Smt.) Archana Singh	7081300527 7081300642
Warden Girls Hostel – IV	Dr. (Smt.) Anita Yadav Dr. (Smt.) Rekha Bali	9721456045 7081300545
Warden DBRA - I	Dr. A.K. Shankhwar Dr. P.K.S. Yadav	9721456076 7081300577
Warden DBRA - II	Shri. R.K. Ambikesh Shri Sumant Chaterjee	7081300538 7081300542

### COUNCIL OF HOSTEL ACTIVITIES

Chairman	Prof. Ram Naresh	7081300544
Member Secretary	Prof. Alak Kr. Singh	7081300516
<b>Officer I/C, Security</b>	Mr. J. K. Dwivedi	9721456026
<b>I/C, Training &amp; Placement</b>	Dr. Anita Yadav	9721456045
<b>Officer I/C, Guest House</b>	Mr. J. K. Dwivedi	9721456026

## PROCTORIAL BOARD

Chief Proctor	-	Prof. Ram Naresh
Dy. Chief Proctor	-	Prof. Alak Kr. Singh
Proctor	-	Dr. (Smt.) Anita Yadav
Proctor	-	Dr. A.K. Shankhwar
Proctor	-	Mr. Jameel Ahmad

## UNIVERSITY STUDENTS ACTIVITY COUNCIL (USAC)

Chairman	-	Prof. Ram Naresh
----------	---	------------------

## CONVENERS OF SUB-COUNCILS OF USAC

N.S.S. Sub-Council	-	Mr. Prathvi Pati
Photography Sub-Council	-	Dr. P.K.S. Yadav
Literary Sub-Council	-	Mr. Jitendra Kumar
Hobby Sub-Council	-	Dr. Prabhat Verma
Sports Sub-Council	-	Mr. A.K. Rathore
Yoga Sub-Council	-	Dr. (Smt.) Archana Singh
Cultural Sub-Council	-	Dr. Sanjiv Kumar

## COUNCIL OF HOSTEL ACTIVITIES

Chairman	-	Prof. Ram Naresh
Member Secretary	-	Prof. Alak Kr. Singh

## HOSTEL WARDENS

Name of Warden	Hostel Name
Dr. Lalit Kr. Singh	Warden WCH – I
Dr. Deepesh Singh Dr. S.K.S. Yadav	Warden WCH – II
Dr. Chhagan Lal Dr. Vivek Kumar	Warden WCH – III
Dr. Ram Autar Mr. A.K. Rathore	Warden WCH – IV
Dr. Vinay P. Singh Dr. Prabhat Verma	Warden L.V. Old
Shri Jameel Ahmad Dr. Sanjiv Kumar	Warden L.V. New
Dr. (Smt.) Reena Singhal Dr. (Smt.) Vandana D. Kaushik	Warden Girls Hostel – I
Dr. (Smt.) Rachna Asthana Smt. P oonam Malhotra	Warden Girls Hostel – II
Dr. (Smt.) Indira Nigam Dr. (Smt.) Archana Singh	Warden Girls Hostel – III
Dr. (Smt.) Anita Yadav Dr. (Smt.) Rekha Bali	Warden Girls Hostel – IV
Dr. A.K. Shankhwar Dr. P.K.S. Yadav	Warden DBRA - I
Shri. R.K. Ambikesh Shri Sumant Chaterjee	Warden DBRA - II



# ADMINISTRATIVE OFFICERS

## Vice Chancellor

**Prof. (Dr.) Vinay Kumar Pathak**

### Dean of School

Prof. S.U. Siddiqui	School of Basic & Applied Sciences
Prof. Karunakar Singh	School of Chemical Technology
Prof. Sunil Kumar	School of Engineering
Prof. K.M. Mohapatra	School of Humanities & Social Sciences

### Dean

Prof. D. Parmar	Academic Affairs
Prof. Anand Kumar	Continuing Education & Internal Quality Assurance
Prof. Krishna Raj	Incubation Hub
Prof. Yaduvir Singh	Planning & Resource Generation
Prof. Reena Singhal	Research & Development
Prof. Ram Naresh	Students' Welfare

### Associate Dean

Dr. P. K. S. Yadav	Academic Affairs
Dr. Sanjiv Kumar	Academic Affairs
Dr. Vinay Pratap Singh	Continuing Education & Internal Quality Assurance
Dr. S. K. Gupta	Incubation Hub
Prof. Arun Maithani	Planning & Resource Generation
Dr. Ashutosh Singh	Research & Development
Dr. S.K. Sharma	School of Basic & Applied Sciences
Prof. Deepak Srivastava	School of Chemical Technology
Prof.(Smt) Rachna Asthana	School of Engineering
Dr. (Smt.) Bandana Nigam	School of Humanities & Social Sciences
Prof. Alak Kumar Singh	Students' Welfare

### Examination

Prof. Pramod Kumar	Controller of Examination
Dr. (Smt.) Vandana Dixit Kaushik	Joint Controller of Examination
Prof. Rajeev Gupta	Senior Superintendent of Examination

### Administration

Prof. Karunakar Singh	Registrar
Mr. Rajesh Singh	Finance Controller
Ms. Rita Sachan	Finance & Accounts Officer
Mr. M.D. Singh	System Manager
Smt. Poonam Malhotra	Computer Programmer
Sri. Jitendra Kumar	Computer Programmer
Dr. Ashok Puri	Medical Officer/Consultant
Ms. Anita Purwar	Dy. Librarian
Mr. A.K. Singh	Assistant Engineer
Dr. Vikas Yadav	Physical Instructor