



**100** YEARS  
1921 - 2021

## INFORMATION BROCHURE 2021-22



**Harcourt Butler Technical University**  
Kanpur - 208002

## कुलगीत

वर दे वीणा पाणि शारदे ।  
अखंड कीर्ती लाभ प्राप्त हो ॥  
विद्याजय पर कृपा दृष्टि हो ।  
विश्व मान्यता नित बरसे ॥

काव्यशास्त्र, साहित्य विधा नव ।  
उदीयमान कौशल विकास ॥  
शोध, बोध नव विचार उन्नत ।  
विद्या मंदिर नित हुलसे ॥

अभियांत्रिकी, प्रौद्योगिकी अरु ।  
मानविकी सामाजिक ज्ञान ॥  
भविष्य उज्ज्वल बनकर दिनकर ।  
छात्र तेज नित नित विलसे ॥



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Vice Chancellor



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Dean (Student Welfare)



Prof. Anand Kumar  
Dean (Academic Affairs)



Prof. S. K. Singhal  
Dean (SoE)



Prof. Yaduvir Singh  
Dean (CE & IQA)  
& Head, Electrical Engineering



Prof. Raghuraj Singh  
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Dean (Incubation Hub)  
& Head (Paint Technology)



Prof. Alak Kumar Singh  
Dean (SoCT) &  
Head (FT) &  
Officiating Head (OT)



Prof. Ram Autar  
Dean (SoBAS) &  
Dean (R&D) &  
Head, Mathematics



Prof. Deepak Srivastava  
Dean (SoHSS)

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Head  
(CSE/IT)



Prof. Rajive Gupta  
Head  
(Mechanical Engineering)



Prof. Dipteeek Parmar  
Head  
(Civil Engineering)



Dr. Rajesh Katiyar  
Head  
(Chemical Engineering)



Dr. A. K. Shankhwar  
Head, Electronics Engineering  
& Asso. Dean (IH) &  
Warden (Ambedkar Hostel)



Mr. Brijesh Singh  
Head  
(Bio Chemical  
Engineering)



Mr. Sumant Chatterjee  
Head  
(Leather Technology)



Prof. Indira Nigam  
Head  
(Plastic Technology)  
& Warden  
(Mandakini Hostel)



Prof. R. K. Shukla  
Head  
(Physics)



Dr. C. L. Gehlot  
Head (Chemistry) &  
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Dr. V. K. Yadav  
Head (Humanities) &  
Asso. Dean (R&D)

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Associate Dean  
(Student Welfare)



Dr. Lalit Kumar Singh  
Associate Dean  
(Academic Affairs) &  
Warden (Abdul Kalam Hostel)



Dr. G. L. Devnani  
Associate Dean  
(CE&IQA)



Dr. Vandana D. Kaushik  
Associate Dean (SoE) &  
Warden (Gangotri Hostel)



Dr. P. K. S. Yadav  
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Dr. S. K. Sharma  
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Dr. Bandana Nigam  
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Dr. (Mrs.) Rajani Bisht  
Additional CoE &  
Warden  
(Kaveri & Alaknanda Hostel)



Dr. Prabhat Verma  
Dy. CoE &  
Warden  
(Shridharacharya Hostel)



Dr. Vinay Pratap Singh  
Dy. CoE

## HOSTEL WARDENS



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Vishweshwaraiya Hostel



Dr. A. K. Rathore  
Vishwakarma Hostel



Mr. J. K. Dwivedi  
Sriramanujan Hostel



Mr. Sumant Chatterjee  
Aryabhata Hostel



Mrs. Poonam Malhotra  
Kaveri & Alaknanda Hostel



Dr. (Mrs.) Anita Yadav  
Bhagirathi & Saraswati Hostel

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Mrs. Aishwarya  
Finance & Account Officer



Dr. Arti Pandey  
Medical Officer



Dr. Vikas Yadav  
Physical Instructor &  
Officiating Dy. Registrar



Mr. J. B. Bajpai  
Assistant Superintendent, Workshop



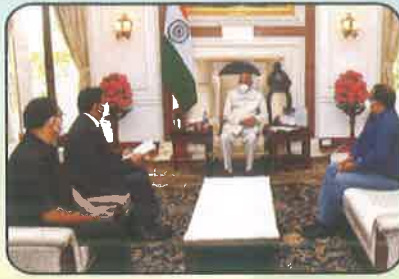
Mr. M. D. Singh  
System Manager



Mr. A. K. Singh  
Assistant Engineer



**GLIMPSES OF CENTENARY CELEBRATION, CONVOCATION 2021 & OTHERS**



**CENTENARY CELEBRATION**



**CONVOCATION 2021**



# SPORTS & CULTURAL ACTIVITIES



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## **1.1 History**

Harcourt Butler Technical University, Kanpur (erstwhile HBTI Kanpur) came into the existence on September 01, 2016 by the Act of Government of Uttar Pradesh with the aim to make it a leading residential university and to develop it as a Centre of Excellence with focus on Research & Development and Incubation in the field of Engineering & Technology. It was reconstituted as Harcourt Butler Technical University on September 01, 2016 by govt. notification no. 5869(2)/LX/XIX-V-1, 16(ka)-10-2016 dated Lucknow April 07, 2016 (UP Act no.11 of 2016). The University is fully financed by the Government of Uttar Pradesh. The University has also received financial aid from RUSA and TEQIP scheme for academic improvement & infrastructure development.

Erstwhile Harcourt Butler Technological Institute was established in 1920 when the Government of United Provinces started Government Research Institute, Cawnpore. It was subsequently renamed as Government Technological Institute in 1921. Finally, it got the name Harcourt Butler Technological Institute in 1926. On March 26, 1965, it was upgraded from its Government Department status to an autonomous Institution. The Institute was affiliated to Kanpur University till 2001. Once Uttar Pradesh Technical University, Lucknow came into existence in 2001, its affiliation was transferred. Later on, HBTI Kanpur was granted academic autonomy by the UGC in 2008. The University has a rich legacy, tradition and glorious past which propelled it to become of the prestigious institutions of northern India. It has a strong alumni base spread across the globe who are carrying forward the its legacy and culture in their respective fields. It used to be the first choice of the candidates qualified through UP State Entrance Examination (UPSEE) amongst all Government and Private Technical Institutions of the State. After change of its status to University in 2016, students are admitted through JEE (Mains) to various B. Tech. programs since 2017. For M.Tech. and MCA, Admissions are made through GATE and NIMCET, respectively.

## **1.2 Vision & Mission of University**

### **Vision**

"To achieve excellence in technical education, research and innovation"

### **Mission**

- Imparting knowledge to develop analytical ability in science and technology to serve the industry and society at large.
- Equip and enable students with conceptual, technical and managerial skills to transform the organization and society.
- Inculcating entrepreneurial philosophy and innovative thinking to promote research, consultancy and institutional social responsibility.
- Serving people, society and nation with utmost professionalism, values and ethics to make development sustainable and quality of life.

## **1.3 Location and Campus**

The University is located at a distance of around 9 kilometers from the Kanpur Central Railway Station in Nawabganj Area of the city. Several prominent landmarks such as Chandra Shekher Azad University of Agricultural & Technology, GSVM Medical College, Kanpur Zoo, Company Bagh and Rawatpur Railway Station etc. are in close vicinity of the University. The University is spread across two

campuses- Each Campus (77 acres) and West Campus (271 Acres) 3.5 kilometers apart. The East Campus located in Nawabganj area whereas the West Campus is in Vikas Nagar area. The East Campus houses mainly administrative and academic departments, auditorium and other central facilities. All four Girl's Hostels and three Boy's Hostels for First Year students are also located in this Campus along with limited accommodation for Officers and Staff of the University. The West Campus of the institute, located on the road connecting Kanpur Zoological Park and GT Road is mainly a residential campus for Faculty members and Staff. It houses four boys hostels for senior students and residential quarters for faculty members and staff. All the hostels have independent power back-up through generators. The University Sport's Ground, Gymnasium, Basketball and Volleyball Courts along with SBI ATM, Post Office and Community Centre are located in this campus. A multi-purpose hall is also under construction. Figure 1 presents the location map of east campus of the university.

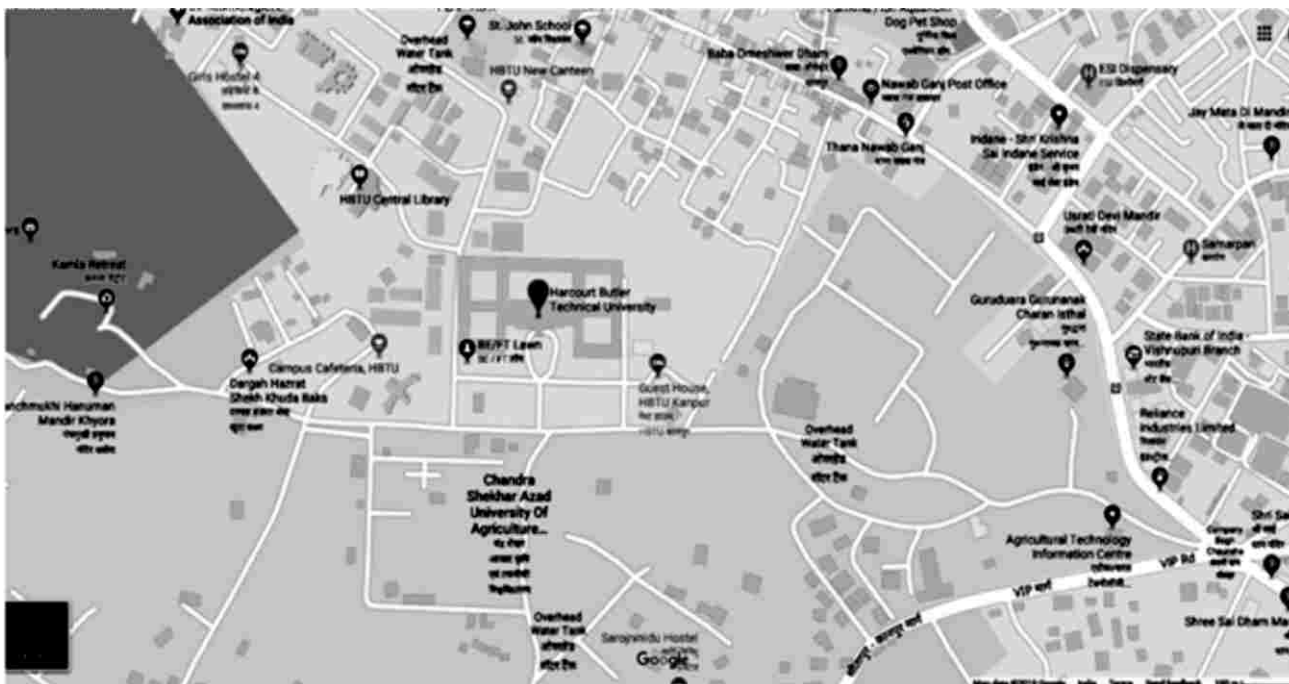


Fig.1 Location Map/ Site Plan

## 2. ACADEMICS

### 2.1 Academic Programmes

The University has four Schools namely, School of Engineering; School of Chemical Technology; School of Basic & Applied Sciences and School of Humanities & Social Sciences. The University offers BTech programmes in 13 branches of Engineering and Technology. It also offers full time MTech programs in nine specializations. In addition, it runs a regular Master of Computer Application (MCA), MBA and M.Sc. programmes. All the Departments of the University offer regular PhD programs. Four departments of the university namely, Civil, Mechanical, Electronics and Chemical Engineering are recognized QIP Centers for Ph.D. Programmes. The University is planning to start number of new programs at the undergraduate and post graduate levels in near future. The details of various programs offered by the university including their intake is presented in Table 1-7. For more details related to eligibility, qualification etc, candidates may refer the relevant ordinances presented at page 23-85.

**Table 1 : B.Tech. Programmes with Sanctioned Intake**

Sl. No.	Course	Total intake (including EWS)	Total Available Seats (including TFW)
<b>A</b>	<b>School of Engineering</b>		
	B.Tech. Civil Engineering	75	78
	B.Tech. Computer Science and Engineering	74	77
	B.Tech. Electrical Engineering	75	78
	B.Tech. Electronics Engineering	75	78
	B.Tech. Mechanical Engineering	75	78
	B.Tech. Information Technology	75	78
<b>B</b>	<b>School of Chemical Technology</b>		
	B.Tech. Biochemical Engineering	57	60
	B.Tech. Chemical Engineering	75	78
	B.Tech. Food Technology	57	60
	B.Tech. Leather Technology	29	30
	B.Tech. Oil Technology	57	60
	B.Tech. Plastic Technology	57	60
	B.Tech. Paint Technology	57	60
	<b>TOTAL</b>	<b>838</b>	<b>875</b>

**Table 2 : B.Tech. (Lateral Entry) Programmes**

Sl. No.	Course	Total Available Seats
<b>A</b>	<b>School of Engineering</b>	
	B.Tech. Civil Engineering	9
	B.Tech. Computer Science and Engineering	9
	B.Tech. Electrical Engineering	9
	B.Tech. Electronics Engineering	9
	B.Tech. Mechanical Engineering	9
	B.Tech. Information Technology	9
<b>B</b>	<b>School of Chemical Technology</b>	
	B.Tech. Biochemical Engineering	5
	B.Tech. Chemical Engineering	5
	B.Tech. Food Technology	5
	B.Tech. Leather Technology	3
	B.Tech. Oil Technology	5
	B.Tech. Plastic Technology	5
	B.Tech. Paint Technology	5
	<b>TOTAL</b>	<b>91</b>

**Table 3 : M.Tech. Programmes with Sanctioned Intake**

S.No.	Department	Specialization	Sanctioned Intake
<b>School of Engineering</b>			
1.	Mechanical Engineering	Computer Aided Design	18
2.	Civil Engineering	Environmental Science and Engineering	18
3.	Electronics Engineering	Electronics and Communication Engineering	18
<b>School of Chemical Technology</b>			
1.	Oil Technology	Oil Technology	11
2.	Food Technology	Food Technology	11
3.	Biochemical Engineering	Biochemical Engineering	12
4.	Chemical Engineering	Chemical Engineering	18
5.	Paint Technology	Paint Technology	15
6.	Plastic Technology	Plastic Technology	15

**Table 4 : MCA Programme**

S.No.	Course	Sanction Intake	Total Available Seats
1.	Master of Computer Applications	75	78

**Table 5 : MBA Programme**

S.No.	Course	Sanction Intake	Total Available Seats
1.	Master of Business Administration	30	30

**Table 6 : M.Sc. Programmes**

S.No.	Course	Sanction Intake	Total Available Seats
1.	M.Sc. in Mathematics and Data Science	30	30
2.	M.Sc. in Opto-Electronics	30	30
3.	M.Sc. in Chemical Sciences	30	30

**Table 7 : Ph.D. Programmes**

<b>Department</b>	<b>No. of Seats*</b>	<b>Eligibility</b>
<b>School of Engineering</b>		
Civil Engineering	05	(I) M.Tech./M.E. Degree in relevant discipline with a minimum of 60% marks or equivalent CGPA/ CPI or (ii) B. Tech. Degree with minimum 75% marks with two years professional experience. or (iii) MCA degree with a minimum of 60% marks equivalent CGPA/ CPI for MCA stream (Eligible or pursuing PhD in relevant Engineering Departments)
Computer Science and Engineering	10	
Electrical Engineering	05	
Electronics Engineering	05	
Mechanical Engineering	05	
<b>School of Chemical Technology</b>		
Chemical Engineering	05	(I) M.Tech./M.E. Degree in relevant discipline with a minimum of 60% marks or equivalent CGPA/ CPI. or (ii) B. Tech. Degree with minimum 75% marks with two years professional experience or (iii) M.Sc. Degree with minimum 60% marks in Equivalent Chemistry / Industrial Chemistry/ Applied Chemistry/ Bio Technology or equivalent.
Biochemical Engineering	05	
Food Technology	05	
Oil Technology	05	
Paint Technology	05	
Plastic Technology	05	
<b>School of Basic and Applied Sciences</b>		
Chemistry	05	M.Sc. Degree in relevant discipline with a minimum of 60% marks in Equivalent CGPA/CPI
Physics	05	
Mathematics	05	
<b>School of Humanities and Social Sciences</b>		
Management and Economics	05	Masters Degree in relevant discipline/ subject with a minimum of 60% marks in Equivalent CGPA/CPI



## **2.2 UNIVERSITY SCHOOLS AND DEPARTMENTS**

The University has four Schools namely, School of Engineering; School of Chemical Technology; School of Basic & Applied Sciences and School of Humanities & Social Sciences. A brief overview of various departments under these schools along with their vision, missions and PEO's is presented in the following sub sections:

### **2.2.1 School of Engineering**

#### **1. Department of Civil Engineering**

The Department of Civil Engineering was established in 1966. It is one of the premier departments of the Institute. The department offers full time undergraduate degree programme in Civil Engineering and post graduate degree programme in Environmental Science and 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 departments includes fire furnace, core cutter apparatus, ultrasonic concrete tester, universal testing m/c., loading frame, electronic 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, Auto desk education solution set and Arc view. The department has a well furnished building housing nine laboratories, four classrooms, one tutorial room, one drawing hall, library, departmental office and separate rooms for faculty.

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. Over the years, industrial interaction has increased and today the annual external funding in the department runs to more than 270 lacs as industrial consultancy.

#### **Vision**

"To position as a global leader in Civil Engineering teaching, research, innovation and extension activities; for sustainable growth of economy with a meaningful and lasting impact on the society."

#### **Mission**

- Imparting quality academics in Civil Engineering Education.
- Carrying out high quality applied research and innovation in Civil Engineering with due considerations for sustainability.
- Imparting extension activities in form of consultancy, continuing education thereby leading to capacity building.
- Enhancing linkages with alumni and industry.

#### **Program Educational Objectives (PEOs)**

PEO 1: Apply principles of basic and engineering sciences in analysis, design and operation of civil engineering systems.

PEO 2: Graduates will be actively engaged in a professional career as a civil engineer or pursue higher studies in relevant specialization.

PEO 3: Graduates, will understand and assess the societal needs to see as to how civil engineering projects affect the society and the environment in view of the sustainability issues.

PEO 4: Graduates will understand professional practice issues and demonstrate a commitment to professional and continuing education.

PEO 5: Engage in lifelong learning and adapt to changing professional needs to keep themselves abreast with the state of the art in field.

## 2. ***Department of Computer Science & Engineering***

The Department of Computer Science & Engineering was established in 1984. It runs B.Tech. program in Computer Science & Engineering with an intake of 74 students. The Master of Computer Application (MCA) programme was introduced in 1987 and has a present intake of 75 students. Later on, B.Tech. Information Technology programme was introduced in the year 2000 on the recommendations of IT Task Force. The present intake of this programme is 75 students. The Department has a very good interaction with industry and other educational institutions.

### **Vision**

"To excel in Computer Science & Engineering education, research, innovation and global employability."

### **Mission**

- Achieve academic excellence in Computer Science & Engineering through an innovative teaching- learning process.
- Inculcate technical competence and collective discipline in students to excel for global employability, higher education and societal needs.
- Establish focus research groups in leading areas of Computer Science & Engineering.
- Sustain quality in Computer Science & Engineering education & research through continuous & rigorous assessment.

### **Program Educational Objectives (PEOs)**

PEO 1: To inculcate professional culture amongst the students to take up technical / professional positions for design, development, and problem solving in software industries and R&D organizations.

PEO 2: To prepare students as technical, ethical, responsible solution providers and entrepreneurs in various areas of Computer Science & Engineering.

PEO 3: To provide the necessary competence and capability in students to pursue higher studies in Institutions of International / National repute.

PEO 4: To provide analytical and technical ability to develop and innovate systems and technologies in the leading areas of Computer Science & Engineering.

### 3. *Department of Electrical Engineering*

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 under graduate program has reached the 1500 figure mark. The department has been playing a vital role in producing scientists and engineers of highest possible caliber ever since its inception. Apart from offering a bachelors degree programme in electrical engineering, the department also offers part time master degree programme in power electronics and control discipline and part time and regular doctor of philosophy programmes. The department has an annual intake of 75 students in the under graduate B.Tech. Programme. The department has been playing a pioneer role in producing world-class engineers and research scholars.

The department has rich and experienced faculty members with very wide exposure. The department has distinguished faculty, all holding degrees from renowned institutes / universities. The faculty member(s) of this department hold patent, have authored good number of books and also guided good number of M. Tech. theses, Ph.D. theses. The commitment and dedication, punctuality, experience, expertise and enriched knowledge of the faculty members are few among many the distinguishing features of this department.

The passed out students have proved their mettle in various private and government organisations, public sector organisations, civil services, teaching & research, research & development and multi-national companies. Electrical Engineers rolling out of the institute are well groomed in the core areas of Advanced Control Systems / Power Electronics / Electrical Machines / Power Systems / Measurement 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 and evolving challenges of industry.

The infrastructure and laboratory facilities are being upgraded from time to time so as to provide adequate opportunities to students and researchers to learn and carry out technological innovations. Financial support for the purpose is provided by the university and TEQIP World Bank, The department has Library, Basic Electrical Engineering Laboratory, Electrical Machines Laboratory, Power Electronics & Electric Drive Laboratory, Microprocessor & Control Laboratory, Power System Laboratory, Network Laboratory, Electrical Fabrication Laboratory, Simulation Laboratory, RTPSS Lab., Electrical Measurement Laboratory, Electrical Science Laboratory and Instrumentation Laboratory. The department has facilities to support teaching and learning activity The department had planned to add advanced laboratories in the areas of advanced control, machine intelligence and also personality development. The department is continuously engaged in research and development activities. Several National and State level seminars, Technical Festivals, Faculty Development Programmes, Conferences, Symposiums, Expert Lectures, workshops, Staff Training Programmes, Short Term Courses etc. are part of its yearly agenda. The department also undertakes many research projects sponsored by both the government, industry, civil societies etc.

## **Vision**

"Building department into a knowledge hub, through its utmost focus on relevant education, innovation and cutting edge research, and out-reach activities for the conservation, peace, happiness, well-being and prosperity of all creation."

## **Mission**

- To educate and train the students equipped with knowledge of electrical engineering, analytical abilities, ethics and integrity human and social values and leadership qualities
- Capacity building, innovation and development of research capabilities through collaboration /agreements and symbiotic relationship with industry / institutes / universities and other government / private/ non-government agencies and civil societies.
- Providing environment friendly, reasonable and sustainable solutions for local & global needs.
- Creating awareness and also enhancing resource generation through STCs, FDPs, SDPs, etc.
- Implementation of quality processes in teaching and learning, and research.
- Foster an ecosystem as per the need of the time well-knitted with the nature, and establishing Centre(s) of Excellence / state of art lab facilities in niche areas as per strengths of department
- Establishing the department as the leader and hand holding others institutions / universities

## **Program Educational Objectives (PEOs)**

PEO 1: Ability to exhibit memory of previously learned material by recalling fundamental facts, terms, basic concepts and answers about the selection, in the domain of electrical engineering.

PEO 2: Ability to demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptors and stating main ideas, in the domain of electrical engineering.

PEO 3: Ability to solve problems in new situations by applying acquired knowledge, facts, techniques and rules in a different, or new way, in the domain of electrical engineering.

PEO 4: Ability to examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations, in the domain of electrical engineering.

PEO 5: Ability to compile information together in a different way by combining elements in a new pattern or proposing alternative solutions , in the domain of electrical engineering.

PEO 6: Present and defend opinions by making judgments about information, validity of ideas or quality of work based on a set of criteria, in the domain of electrical engineering.

## **4. *Department of Electronics Engineering***

The Department of Electronics Engineering was established in 1990. It has committed Faculty members for taking care of academic and other requirements of the students. It offers B.Tech. in Electronics Engineering with intake of 75 and a full time M.Tech. in Electronics and

Communication Engineering with intake of 18. Besides this the Department is also offering regular Ph.D. programme as per HBTU ordinances. The Department has successfully implemented many sponsored projects funded by World Bank and Swiss Govt. AICTE, DST, DRDO and TEQIUP. The Board of Studies of the Department regularly updates the syllabus to meet the 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, Academics and R & D. A good number of students also go for higher education in IISc, IITs, IIMs and in reputed foreign universities for masters and doctoral programs.

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 National and International 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 Programs, Expert Lectures, Workshops etc have been organized by the department. The department is also growing in the term of infrastructure. Various grants has have been received by AKTU, TEQIP and RUSA (National Higher Education Mission) MHRD for equipment and separate building of the Department.

### **Vision**

"Department of Electronics Engineering aims to deliver Technical Education in the field of Electronics and Communication Engineering, for producing Engineers and Technologists who are happy, healthy and competent professionals, motivated to serve the society through research & innovation."

### **Mission**

- To educate and train the students with state-of-the-art in Electronics and Communication Engineering.
- To prepare the students who are fit for meeting the requirements and challenges of the industry right at the time of their graduation by evolving a sustainable Industry-University interaction system for this.
- To upgrade the teaching standards through continued efforts toward improvement of the qualification and expertise of the teachers as well as supporting staff.
- To create awareness amongst the students towards socio-environmental technologies by offering related courses and organizing seminars/workshops on these topics in the university and by encouraging participation in similar activities at other places.
- To expand research and development activities in the frontier areas related to Electronics and Communication.
- To include the aspect of integration of environmental balance and human values in the curriculum.
- To provide academic support to other technical institutions at state & national level through the process of networking.

- To start social service programs like education for masses, particularly using the enhanced means of communication.

#### **Program Educational Objectives (PEOs)**

Program graduates, within three years from their graduation will;

PEO 1: Have knowledge of basic and applied sciences, so as to apply the necessary competence for technically sound, economically feasible and socially acceptable solutions of real life complex engineering problems.

PEO 2: Be fit for meeting the requirements and challenges of industries, research and academic institutions both at the national and International level, by applying expertise gained in area of electronics and communication engineering.

PEO 3: Be professionally competent with excellent communication and management skills along with being enterprising professionals and responsible citizens capable of delivering their services individually as well as in a collaborative framework.

### **5 Department of Mechanical Engineering**

The Department of Mechanical Engineering was established in 1964. It runs a regular B.Tech. programme in Mechanical Engineering with student intake of 75. Department runs a regular M.Tech. program in Computer Aided Design (CAD) with intake of 18 students. Department is a recognized QIP Centre for PhD program with 2 seats. Department has committed faculty members and most of them have obtained their PhDs from reputed IITs / MNITs / Universities. Association of Mechanical Engineers (AME), a student chapter is also working in the Department.

#### **Vision**

"To produce quality Mechanical Engineers with knowledge, skill and creativity to cater to the needs of the industry and society."

#### **Mission**

- To offer academic programs in tune with the requirements of the industry.
- To undertake research and development activities for solving real life problems.
- To provide conducive environment for promoting creativity and innovation.

#### **Program Educational Objectives (PEOs)**

PEO 1: To develop understanding of basic Mechanical Engineering concepts.

PEO 2: To inculcate analytical capabilities for solving real -life problems.

PEO 3: To provide opportunities to work as a team and to develop leadership qualities.

PEO 4: To develop entrepreneurial capabilities.

PEO 5: To encourage and motivate students for self- learning.

### **2.2.2 School of Chemical Technology**

#### **1. Department of Bio-Chemical Engineering**

The Department of Biochemical Engineering came in to 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 was established in 1964 as twin department of Biochemical Engineering and Food Technology and completed 58 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 Ph.D program. The laboratories of the department are well equipped with modern facilities to meet necessities of various programmes and to acquaint the student with latest practices used in industries and research areas relevant to Biochemical Engineering and Biotechnology. The faculty members of the department are instrumental in enriching students with knowledge and skills that enable them to serve the industries and research organizations. The department has been granted various projects with financial assistance approved by reputed organizations for example CST, DBT, and World Bank. (TEQIP-I, TEQIP-II and TEQIP-III ) Recently, the department was awarded a project by CPCB Delhi. The department has successfully organized a number of National and International seminars, workshops, conferences, and Faculty Development Programs. Genesis is one such program organized almost 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 sector organizations, contributing their best in growth and development of the nation and for benefit of the society. The department has a clear vision in enhancement of its capabilities in future by updating the faculty members and students with latest technical knowhow through modernization of laboratories and periodic review of syllabus.

### **Vision**

"The Department of Bio-Chemical Engineering aspires to be globally recognized center to develop professionals with technical knowledge and skills, leadership qualities and strong ethical values for successful career in Biochemical and allied industries, research and development organizations."

### **Mission**

- To develop state-of-the-art facilities to impart technical knowledge and skill to the graduate and post graduate students for Biochemical and allied industries and research organizations.
- To be a centre of research and development for betterment of society in Sustainable manner.
- To develop state-of-art the technologies for testing and consultancy for industry and society.
- To cultivate strong ethical values to be a successful professionals and to become life-long learners.

### **Program Educational Objectives (PEOs)**

PEO 1: To produce globally competent technical manpower in the field of Biochemical processing, product formation and in the allied areas to cater the need of the country.

PEO 2: To impart knowledge for development of innovative designs, production materials and processes for sustainable development of society.

PEO 3: To serve the industry to meet the challenges in terms of quality assurance and standardization to withstand the global competitiveness.

PEO 4: To be able to discharge duties with professional attitudes and ethics.

## 2. ***Department of Chemical Engineering***

Department of Chemical Engineering started in 1954 with two courses - AHBTI and FHBTI for undergraduate students. In 1958, two full-fledged undergraduate courses - four year Chemical Engineering and three year Chemical Technology programs for undergraduate students were started. Department has built-up a comprehensive research infrastructure with top-notch facilities for carrying cutting-edge teaching and research works. Department is a recognized QIP Centre for PhD program with 2 seats.

### **Vision**

"To emerge as a global leader in the areas of education and research in Chemical Engineering to handle the technological challenges in Chemical Engineering & allied fields and catering the requirement of present and future stakeholders and society."

### **Mission**

- To provide state-of-art technical education to the undergraduate and post graduate students.
- To create a conducive and supportive environment for the overall growth of our students.
- To cultivate awareness of social responsibilities in students to serve the society.
- To groom students with leadership skills helpful in Startups, professional ethics and accountability along with technical knowledge to face the changing needs of industry and environment.
- To impart consultancy services to the Chemical and Allied industries of the local region and state.

### **Program Educational Objectives (PEOs)**

PEO 1: Graduates from our department will be proficient in varied areas of Chemical Engineering that are industrially and academically significant such as Petroleum Refining, Process Control, Fertilizer Manufacturing, Molecular Modeling and Simulation and Nanotechnology.

PEO 2: Graduates will exhibit entrepreneurship, leadership and high professional skills while still maintaining ethical and moral values.

PEO 3: Graduates will continuously strive and align their activities for the betterment of the society.

## 3. ***Department of Food Technology***

The Department was established in 1964 as twin department of Bio-chemical Engineering and Food Technology. Department of Food Technology came into independent existence with the



inception of Harcourt Butler Technical University, Kanpur on September 01, 2016. Department is running a B.Tech. program with intake of 57 students. It also offers a full time M.Tech. program in Chemical Technology with specialization in Food Technology. The Department has well equipped laboratories with modern facilities to meet out necessities of different programs. The Department has been accredited four times by National Board of Accreditation - in 2003, 2008, 2013 and 2019. Department has well equipped laboratories with modern facilities to meet out the necessities of students of department. The Association of Food Scientists and Technologists (India) Kanpur chapter is also working in the Department.

### **Vision**

"To develop technically sound food technocrats, to cater the needs of food processing industries, Research & Development organizations and society."

### **Mission**

- Imparting technical knowledge to develop human resources for food processing sectors.
- Imparting knowledge & technical skills for better processing and value addition of food & agro-products through R&D.
- Inculcating innovative thinking with the aim to support entrepreneurship and to develop state-of-art technologies for testing and consultancy to fulfill the needs of industry and society.
- Cultivating strong ethical values for sustainable modern and safe food to society.

### **Program Educational Objectives (PEOs)**

PEO 1: Graduates of the program will contribute to the development of sustainable growth of the food processing sectors for the betterment of society.

PEO 2: Graduates of the program will accept and create innovations in providing a solution for sustainable technological development.

PEO 3: Graduates of the program will meet challenges in terms of quality assurance and standardization to withstand global competitiveness.

PEO 4: Graduates of the program will Exhibit professionalism, ethical attitude, team spirit and pursue lifelong learning for the betterment of society.

## **4. *Department of Leather Technology***

The Department of Leather Technology was established in 1978 to meet the specific demand of skilled / trained manpower in the emerging areas of Leather Industry. The Department is running a B.Tech programme in Leather Technology with intake of 29 students.

### **Vision**

"The Department of Leather Technology at HBTU aims at being a leader of innovation in the area of Leather to produce quality technologists of world standards to deliver the benefits of the developed technologies to the people."

### **Mission**

- To achieve academic excellence and practical knowledge in the fields of Leather, Leather Application, and allied areas.

- To inculcate technical competence in students for formulation, manufacture and application of advanced Leather with eco-friendly and sustainable approach.
- To develop state-of-art facilities for testing and consultancy for industry to make the department a centre of excellence in the world of leather in global level.
- To develop indigenous and adaptable technologies related to Leather for small scale production and to develop entrepreneurial skills, towards betterment of society.
- To cultivate strong ethical values to be a successful professional and to become life - long learners.

#### **Program Educational Objectives (PEOs)**

PEO 1: To produce graduate and postgraduate who will be able to meet the requirements and challenges at National and international levels in the field of formulation, manufacture and application of leather and allied products

PEO 2: To inculcate in students the fundamental concepts related to Leather Production & applications to enable them to develop novel technologies to meet the global standards of eco-friendliness & sustain ability.

PEO 3. To produce Technologists with high moral values and professional ethics who can work with industry hand-in-hand for mutual benefits and to sensitize them for job creation for the society especially the rural community.

#### **5. *Department of Oil Technology***

The Department of Oil Technology was established in 1921. It offers B.Tech. program in Oil Technology with intake of 57 students. Department also offers M.Tech. program in Chemical Technology with specialization in Oil Technology. Department was selected as Centre of Excellence on Applied Research Training and Education in Lipid Science under TEQIP-II. A new state-of-the-art Advanced Surfactant Laboratory has been developed through TEQIP-II funds. Department has excellent placement record. Department is birth place of Oil Technologists' Association of India (OTAI).

#### **Vision**

"Transforming the individuals into globally competent Chemical Technologists-Oil technological needs of industry and society."

#### **Mission**

- Provide quality education through innovation in teaching and learning practices meeting the global standards.
- Encourage faculty and students to carry out innovative, socially relevant and eco-efficient research.
- Offer consultancy services using state of the art facilities fulfilling the needs of the industry and society in the area of expertise.
- Enable our students, faculty and staff to play leadership roles for the betterment of the society in a sustainable manner.

#### **Program Educational Objectives (PEOs)**

PEO 1: Graduates of the program will contribute to the development of sustainable growth of engineering and Oil Technology sector for the betterment of society.

PEO 2: Graduates of the program, as an employee of an organization or as an employer, will continuously update their domain knowledge for continuous professional development with focus on research & development and industry interaction.

PEO 3: Graduates of the program will accept and create innovations in providing solution for sustainable technological development.

PEO 4: Graduates of the program will discharge their duties as professional engineer and Oil Technologist with quality and ethics.

## 6. *Department of Paint Technology*

The education in Paint Technology was started in 1921 and later strengthened in 1964 with 3 years B.Tech. Programme after B.Sc. In 1991, it was converted to a four year B.Tech. program after Intermediate. Department has well furnished laboratory facilities, approved by Government, for providing the certificate to Government and private agencies related to paints. Almost 100% placement in renowned Paint Manufacturing and Paint Application industry e.g. Asian Paint, Maruti, Tata Motors, etc. Department is also authorised training centre in paint.

### **Vision**

"The department of paint technology aspires to achieve excellence in teaching -learning, research and innovation in Paint and allied areas."

### **Mission**

- To develop state of the art facilities to impart technical knowledge and skill to the graduate students for paint and allied industries and research organizations.
- To be a centre of research and innovation for betterment of society in sustainable matter.
- To develop state-of-the-art technologies for testing, training and consultancy for industry and society.
- To cultivate strong ethical values to be a successful professionals and to become life-long learners.

### **Program Educational Objectives (PEOs)**

PEO 1: Be globally competent in the field of pigments, resins, paints and additives processing and allied areas to cater the need of country.

PEO 2: Develop innovative designs, production of materials and processes for sustainable development of society.

PEO 3: Serve the industry to meet the challenges in terms of quality assurance and standardization to withstand the global competitiveness.

PEO 4: Discharge duties with professional attitudes and ethics.

## 7. *Department of Plastic Technology*

The Department of Plastic Technology was established in 1921. It offers B.Tech. program in Plastic Technology with intake of 57 students. The Department hosts a student chapter named

Polymer Engineers & Technologists Association (PETA).

### **Vision**

"The department of plastic technology aspires to achieve excellence in technical knowledge & skill, research and innovation on Plastics and Allied areas."

### **Mission**

- To develop state of the art facilities to impart technical knowledge and skill to the graduate and post graduate students for plastic and allied industries and research organizations
- To be a center of research and innovation for betterment of society in sustainable manner.
- To develop state-of-the-art technologies for testing and consultancy for industry and society.
- To cultivate strong ethical values to be a successful professionals and to become life-long learners.

### **Program Educational Objectives (PEOs)**

PEO 1: Graduates will be technically competent in the field of polymers, resins, processing and allied areas to cater the need of country.

PEO 2: Graduates will be able to innovate in designs, production of materials and processes for sustainable development of society.

PEO 3: Graduates will serve the industry to meet the challenges in terms of quality assurance and standardization to withstand the global competitiveness.

PEO 4: Graduates will discharge duties with professional attitudes and ethics.

## **2.2.3 School of Basic & Applied Sciences**

### **1. Department of Chemistry**

The Department of Chemistry is one of the oldest departments 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. The Department offers a M.Sc. Programme in Chemical Sciences with an intake of 30 candidates. 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 recognized for its outstanding research in polymer science, solar energy conversion and storage, chemical kinetics, synthesis and evaluation of biological activities, water treatment, coordination chemistry and spectroscopy. The department has suitable infrastructure supported by modern equipments to train the students.

The department imparts education in Physical, Inorganic, 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, DST, ICAR, UPCAST, AICTE etc. The qualified and depicted faculties of this department have published good number of research papers in National and International (around 430) journals of repute. 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.

### **Vision**

"The Department of Chemistry aims to train the students with conceptual and experimental tools required to understand the Chemistry from molecules to materials."

### **Mission**

- To awaken the young minds and discover their talents both in theory and practical
- To train and mentor students as responsible scientists and professionals for their involvement in all aspects of life.
- To encourage and train the students in the broadest and most liberal manner about the advancement of Chemistry in all of its branches through its education, research and service mission.
- To explore and advance new chemical frontier in the field of life sciences, physical sciences, medicine energy and materials.

## **2. *Department of Mathematics***

The Department of Mathematics has been striving hard for excellent teaching and research in Mathematical Sciences since its inception in 1961. The undergraduate and postgraduate students of various chemical technology and engineering departments are enriched/equipped with in-depth theoretical background of sophisticated applied mathematics required for modern scientific investigations and technological developments and practical training in numerical computing by following need-based designed curriculum. The Department offers M.Sc. Programme in Mathematics and Data Sciences with an intake of 30 candidates. It also runs doctoral programme for carrying out research in inter-disciplinary areas.

The faculty of the department are 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 dynamicsetc. 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 projects 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. The experienced and dedicated team of faculty members have presented/ published good numbers of research papers. Nearly 66 students have been awarded Ph.D. degrees under the supervision of departmental faculty members and at present 07 students are registered for Ph.D. Programme.

### **Vision**

"To produce excellent academicians / researchers in Mathematics for teaching/research in interdisciplinary applied thrust areas and to equip budding technocrats / engineers with sound mathematical / computing skills for social welfare."

**Mission**

- To impart mathematical education in order to explore and apply mathematical concepts for technological innovations through activities and experimentation.
- To train students with strong mathematical foundation for conducting research or for serving in industry.
- To inculcate the ability to apply mathematical and computational skills in students for modeling, formulation and solving real-life problems.

**2. DEPARTMENT OF PHYSICS**

The Department of Physics was established in 1961. It caters to the needs of undergraduate and post graduate students of Engineering and Technology. The Department offers M.Sc. Programme in Opto-Electronics with an intake of 30 candidates. It also runs doctoral programme. The Department has very qualified faculty members and contributes handsomely to research activities of the University.

**Vision**

"To contribute significantly to the nation by excellent scientific, technological education and research by offering state of the art Undergraduate, Postgraduate and Doctoral programs."

**Mission**

- To provide state of the art teaching in physics to undergraduate students, so that they could be able to contribute significantly to the society so as to empower the mankind globally.
- To produce Ph.D. students with analytical skills, so that they could prove themselves as an asset to the society as a researcher, scientist, teachers and would be capable to handle the organization as a professional leader.

**2.2.4 School of Humanities & Social Sciences**

***Department of Humanities***

The Department of Humanities was established in 1965. It caters to the needs of undergraduate and post graduate students of Engineering and Technology. The Department also offers a MBA Programme with an intake of 30 candidates. It also offers PhD Programme in Economics and Management streams. Department has qualified faculty members and contributes handsomely to research activities of the University.

**Vision**

"To achieve excellence in technical education, research and innovation."

**Mission**

- Imparting knowledge to develop analytical ability in Humanities and Social Sciences to serve the industry and society at large.

- To inculcate entrepreneurial philosophy and innovative thinking to promote research, consultancy and institutional social responsibility.
- To equip and enable people with managerial skills to transform the business organization and society.
- To work with people, society and nation to make sustainable development and quality of life.

### 2.3 FEES

The Fees structure for First Year students for different programs of the University are listed below. Students are required to pay any change in University Fee and / or other fee/charges as approved by the competent authority.

#### Fee Structure for Different Programs

S.No.	University Fee	B.Tech	MCA	M.Tech.	PhD
1.	Tuition Fee	75000=00	60000=00	60000=00	25000=00
2.	Caution Money	5000=00	5000=00	5000=00	1000=00
3.	University Exam Charges	7000=00	7000=00	7000=00	7000=00
4.	University Development & Facilities Fee	14000=00	14000=00	14000=00	10000=00
5.	Student Welfare Fund	500=00	500=00	500=00	200=00
6.	Enrolment Fee	1000=00	1000=00	1000=00	1000=00
7.	Degree & Marksheets Charges	500=00	500=00	500=00	500=00
8.	Registration Fee	500=00	500=00	500=00	200=00
9.	Recreation Fee	1500=00	1500=00	1500=00	100=00
10.	Univ. Student Activity Council Charges	2000=00	2000=00	2000=00	500=00
11.	Identity Card Fee	200=00	200=00	200=00	200=00
12.	University Day Activity Charges	500=00	500=00	500=00	200=00
13.	Medical Facility Charges	1000=00	1000=00	1000=00	1000=00
14.	Magazine Fee	250=00	250=00	250=00	250=00
15.	Student Add Fee	800=00	800=00	800=00	350=00
16.	Computing Infra Charges	7000=00	7000=00	7000=00	3000=00
17.	Computer Stationery Charges	2000=00	2000=00	2000=00	500=00
18.	Placement Fee	1500=00	1500=00	1500=00	
19.	Exam Contingency	750=00	750=00	750=00	750=00
20.	Premium for Mediclaim of Students (per Annum)	1500=00	1500=00	1500=00	
21.	Library Fee	2000=00	2000=00	2000=00	2000=00
22.	Laboratory Fee	1500=00	1500=00	1500=00	1500=00
23.	Alumni Membership	1500=00	1500=00	1500=00	1500=00
24.	Information Brochure	300=00	300=00	300=00	300=00
25.	Contingency & Miscellaneous Fee	700=00	700=00	700=00	7200=00
26.	Economically Weaker Section Fund	5000=00	5000=00	5000=00	
27.	Insurance & Other misc. expenditure on Unspecified items	750=00	750=00	750=00	750=00
28.	Industrial Exposure Charges	750=00	750=00	750=00	
	Total	135000=00	120000=00	120000=00	65000=00

**Note :** There will be a 10% increase in Annual Academic Fee every year.

2.4 The Academic Calendar for the Session 2020-21 is presented below. However, the students are advised to see the notice board and website [www.hbtu.ac.in](http://www.hbtu.ac.in) from time to time to apprise themselves about latest updates.

### Academic Calendar for the Odd / Even Semester: Session 2021-22

<b>1<sup>st</sup> B.Tech. 1<sup>st</sup> M.Tech., 1<sup>st</sup> MCA, 1<sup>st</sup> M.B.A., 1<sup>st</sup> M.Sc. &amp; 1<sup>st</sup> PhD Students</b>		
<b>Odd / Even Semester 2021-22</b>		
<b>Sl. No.</b>	<b>Activity</b>	<b>Duration</b>
1.	Commencement of classes	Nov. 26, 2021 (Friday)
2.	Mid semester examination (MSE)	Feb. 24-26, 2022 (Thursday – Saturday)
3.	Last date of display and submission of MSE marks	Feb. 28, 2022 (Monday)
4.	Online submission of examination forms	Feb. 21-25, 2022 (Monday - Friday)
5.	Last date of Odd semester teaching	March 31, 2022 (Thursday)
6.	Duration for End Semester Practical Examinations	April 04-09, 2022 (Monday – Saturday)
7.	End semester examination (ESE)	April 11-20, 2022 (Monday - Friday)
8.	Online Registration for Even Semester	April 21-25, 2022 (Thursday – Monday)
9.	Last date of display and submission of ESE marks <b>(Odd)</b>	April 25, 2022 (Monday)
10.	Commencement of classes (Even Semester)	April 26, 2022 (Tuesday)
11.	Mid Semester Examination (MSE) <b>(Even)</b>	July 04-06, 2022 (Monday – Wednesday)
12.	Online submission of examination forms (including Carry Over Exam forms) <b>(Even)</b>	August 02-06, 2022 (Tuesday – Saturday)
13.	Last date of Teaching <b>(Even)</b>	August 27, 2022 (Saturday)
14.	Duration for End Semester Practical Examinations <b>(Even)</b>	September 29-31, 2022 (Monday – Wednesday)
15.	End Semester Examination (ESE) <b>(Even)</b>	September 02-14, 2022 (Friday – Wednesday)
16.	Last date of display and submission of ESE marks	September 17, 2022 (Saturday)
17.	Commencement of Odd Semester 2022-23	October 03, 2022 (Monday)



## Academic Calendar Odd/Even Semester, 2021-22

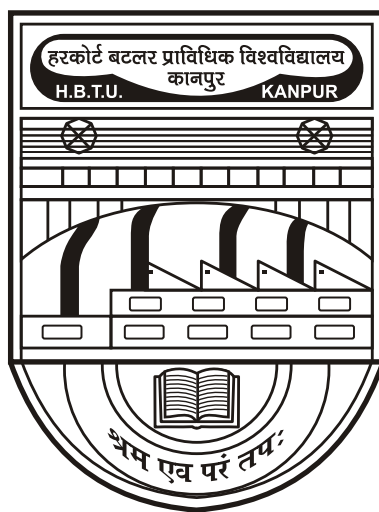
<b>II B. Tech - For Lateral Entry Students</b>		
<b>Odd / Even Semester 2021-22</b>		
<b>Sl. No.</b>	<b>Activity</b>	<b>Duration</b>
<b>1.</b>	(a) Registration of Odd Semester and Fee Submission	Sept. 20-25, 2021 (Monday-Saturday)
	(b) Commencement of classes	Sept. 21, 2021 (Tuesday)
<b>2.</b>	Mid Semester Examination (MSE)	Nov 28- Dec 03 2021 (Saturday – Friday)
<b>3.</b>	Last date of display and submission of MSE marks	Dec. 06, 2021 (Mon)
<b>4.</b>	Online submission of examination forms (including Carry Over Exam forms)	Dec 30, 2021- Jan 05, 2022 (Thursday - Wednesday)
<b>5.</b>	Last date of Odd semester teaching	Jan 31, 2022 (Monday)
<b>6.</b>	Commencement of Even Semester (Online mode)	Feb 04, 2022 (Friday)
<b>7.</b>	Online registration for Even Semester & Balance Fee Deposition	Mar 10-15, 2022 (Thursday – Tuesday)
<b>8.</b>	Duration for End Semester Practical Examinations <b>(Odd)</b>	Mar 24-26, 2022 (Thursday-Saturday)
<b>9.</b>	End Semester Examination (ESE) <b>(Odd)</b>	Mar 28-Apr 8, 2022 (Monday-Friday)
<b>10.</b>	Last date of display and submission of ESE marks	Apr 18, 2022 (Monday)
<b>11.</b>	Mid Semester Examination (MSE) <b>(Even)</b>	Apr 25-27, 2022 (Monday – Wednesday)
<b>12.</b>	Online submission of examination forms (including Carry Over Exam forms) <b>(Even)</b>	May 02-06, 2022 (Monday – Friday)
<b>13.</b>	Last date of Teaching <b>(Even)</b>	May 28, 2022 (Saturday)
<b>14.</b>	Duration for End Semester Practical Examinations <b>(Even)</b>	May 30-June 04, 2022 (Monday – Saturday)
<b>15.</b>	End Semester Examination (ESE) <b>(Even)</b>	June 06-16, 2022 (Monday – Thursday)
<b>16.</b>	Last date of display and submission of ESE marks	June 24, 2022 (Friday)
<b>17.</b>	Commencement of Odd Semester 2022-23	August 08, 2022 (Monday)

## **2.5 Ordinances**

In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, all the undergraduate and postgraduate degree programs are to be run according to the Ordinances approved by Academic Council and Executive Council of the University. The Ordinances for B.Tech., M.Tech., MCA and Ph.D. programmes duly approved by Academic Council and Executive Council of the University as applicable to the new entrants from the Academic Session 2019-20 are reproduced at page 25-87 for the benefit of the students.

**ORDINANCES**  
**FOR**  
**BACHELOR OF TECHNOLOGY**

**(Effective from the session 2019-20 for new entrants)**



**HARCOURT BUTLER TECHNICAL UNIVERSITY**  
**KANPUR-208002 (UP) - INDIA**

**(Revised October, 2019)**

## **First Ordinances**

In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, these are the first Ordinances for Harcourt Butler Technical University, Kanpur :

### **1. INTRODUCTION**

Short Title, Commencement and Definitions

- 1.1** These Ordinances shall be called the First Ordinances, 2017 of Harcourt Butler Technical University, Kanpur.
- 1.2** They shall come into force from session 2017-18 for new entrants.
- 1.3** Anything contained in Ordinances in violation to provisions of Act shall be invalid, and the provisions of Act shall prevail.
- 1.4** **In these Ordinances, unless the context otherwise requires,**
  - a) 'Act' means the Uttar Pradesh Harcourt Butler Technical University Act, 2016 as amended from time to time.
  - b) 'Section' means a section of the Act.
  - c) 'Clause' means a clause of the Ordinances.
  - d) 'University' means the Harcourt Butler Technical University, Kanpur.
- 1.5** Words and expression used herein but not defined in the Act shall have the same meaning as assigned to them in the Act.
- 1.6** The admission of students, eligibility to various courses of study, qualifications, attendance, registration, course structure, grading system, award of degrees, certificates, medals and other academic distinctions are covered in these Ordinances.
  - a) The 'University' may start other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives. The Ordinances for the same shall be as prescribed by the Academic Council and the Executive Council.
  - b) The 'Courses of Study' shall be as prescribed by the Academic Council and approved by the Executive Council.
  - c) Fellowships and Awards shall be instituted as per the requirements with approval of the Vice Chancellor under intimation to the Academic Council and the Executive Council.

### **2. SCHOOLS AND PROGRAMMES OF STUDY**

The University offers B.Tech. programmes under different Schools of the University as detailed hereunder :

#### **A. School of Engineering**

- B. Tech. (Electronics Engineering)
- B. Tech. (Electrical Engineering)
- B. Tech. (Mechanical Engineering)
- B. Tech. (Civil Engineering)
- B. Tech. (Computer Science & Engineering)
- B. Tech. (Information Technology)

## **B. School of Chemical Technology**

- B. Tech. (Chemical Technology-Plastic Technology)
- B. Tech. (Chemical Technology-Paint Technology)
- B. Tech. (Chemical Technology-Oil Technology)
- B. Tech. (Chemical Technology-Biochemical Engineering)
- B. Tech. (Chemical Technology-Leather Technology)
- B. Tech. (Chemical Technology-Food Technology)
- B. Tech. (Chemical Engineering)

## **C. School of Basic and Applied Sciences**

Presently, no programme is being offered at the undergraduate level. However, the faculty member of this School offers Basic Science Courses ( BSC) to undergraduate, Post graduate and Ph.D students of the University.

## **D. School of Humanities and Social Sciences**

Presently, no programme is being offered at the Undergraduate level. However, the faculty members of this School offer Humanities, Social Science and Management Courses (HSMC) to Undergraduate, Post graduate and Ph.D students of the University.

## **3. ADMISSIONS**

- 3.1 The University offers Full Time B.Tech. Degree programmes in various disciplines of Engineering and Technology.
- 3.2 Admissions to B.Tech. programmes shall be made as per the rules prescribed by the University from time to time.
- 3.3 The admissions shall be based on the merit of the candidates in JEE (Main) / any other National Level Entrance Examination as specified by the University.
- 3.4 *Admission to B. Tech. programme through lateral entry for Diploma holder candidates is allowed directly in Second year (third semester). These admissions shall be based on the merit of the candidates in the National Level Entrance Examination conducted by the University. This clause shall come into effect only after due approval from the State Government.*
- 3.5 The reservation policy as prescribed by the U.P. State Government or its directions issued from time to time shall be adhered to by the University.
- 3.6 **(A) A total of 20% seats within the sanctioned seats shall be reserved for candidates from outside the state of Uttar Pradesh. For such candidates, the domicile criterion of UP shall not be applicable. However, reservation shall be as per all India norms (only vertical reservation) will be applicable to the candidates from other states. This clause shall come into effect only after due approval from the State Government.**  
**(B) Admission to NRI/Foreign Nationals(FN)/Persons of Indian Origins(PIO/ Overseas citizens of India (OCI)/Children of Indian Workers Working in Gulf Countries(CIWWGC), candidates who possess prescribed qualifications may get admission in Ist year B.Tech. against the seats approved from AICTE for the purpose on merit and/or through National Level Exam (as applicable) subject to the instructions of Government of UP/AICTE.**

3.7 Admission of a candidate from any other University to Harcourt Butler Technical University on migration shall not be permitted.

3.8 If at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has resorted to some fraudulent means to obtain admission; the University reserves the right to cancel the admission of the candidate.

#### 4. **ELIGIBILITY**

Qualifications for admission to B.Tech. programme shall be as per the provisions of the Ordinances and the decisions of the Academic Council/Admission Committee of the University.

##### 4.1 **Admission through Entrance Examination**

The candidate must have clearly passed 10+2 qualifying examination from U.P. Board or its equivalent any other Board / University with a minimum of five subjects in which Physics and Mathematics are compulsory subjects along with one of the subjects from Chemistry / Biotechnology / Biology/ Computer Science as Technical Vocational subject. Candidates must obtain at least 60% marks (55% in case of the candidates belonging to SC/ST category) in aggregates in above three subjects. In addition, all other eligibility conditions for appearing in JEE (Mains) Examination shall be applicable to the candidates for all admission reservation and domicile shall be as per UP Government rules.

##### 4.2 **Direct Admission to Second Year through Lateral Entry Scheme**

The Candidates of UP domicile, who have passed 3 or 4 year Diploma with a minimum 60% mark without grace from institutions recognized by the U.P. Board of Technical Education or equivalent in the relevant branch of Engineering/Technology as the one in which he/she intends to take admission in B. Tech. Programme shall be eligible for admission directly to the second year as per AICTE norms. The candidates of UP domicile, who have passed B.Sc. in Physics and Mathematics *as compulsory subject and any one from Chemistry/ Electronics/ Information Technology/ Computer Science/Biotechnology/Statistics etc. as optional subject*, with 60% marks without grace in aggregate from a recognized University shall also be eligible for admission in B.Tech. second year subject to availability of seats remaining from Diploma holders. The admission under this category shall be made through a National Level Entrance Examination conducted by the University.

#### 5. **PROGRAMME DURATION**

5.1 The duration of all B. Tech. programme shall be four academic years (eight semesters).

5.2 The duration for Diploma holder candidates admitted through lateral entry in Second Year shall be of three academic years (six semesters).

5.3 Maximum duration for completion of B. Tech. programme is six years while for Diploma holder candidates, it shall be five years. Additional relaxation of one year may be granted by the Vice Chancellor on case to case basis on specific recommendation of Head of the Department, concerned Dean of School and Dean of Academic Affairs. Admission of the candidates who are not able to complete their degree requirements in stipulated period shall automatically be cancelled.

5.4 Each semester shall have a minimum of 90 working days (including the days of examinations) or as prescribed by AICTE/ UGC from time to time.

5.5 There shall be two regular semesters in one academic year. The semester that begins in July (July to December) is known as the Odd Semester and the one that begins in January (January to May) is known as the Even Semester.

## 6. CHANGE OF BRANCH

6.1. Change of branch amongst the students in First year (having same eligibility qualifications) shall be allowed after the last date of admission in First semester of the B.Tech. programmes on the basis of merit in the JEE (Mains) against the vacant seats. In this regard an undertaking is to be given by the interested candidates.

6.2 Change in branch shall be allowed in the Second year (III semester) on the basis of (a) performance in B.Tech. First year (both semesters)(b) candidates category and (c) branch choice preference to those who passed without any carry over subject to the guidelines prescribed by UP State Government.

6.3 After change of branch, the number of students in that branch shall neither fall below the sanctioned intake by more than seventy five percent nor go above the sanctioned intake. For this purpose, the intake refers to the total sanctioned intake in the class inclusive of NRI students but excluding the admissions granted on supernumerary seats such as the Government nominees, PMSSS, Kashmiri migrants students, lateral entry etc. The branch change option shall not be applicable to the NRI candidates, Government nominees and any other supernumerary seats.

6.4 All reserved category candidates (SC, ST, OBC) shall be eligible for branch change in their respective category as well as unreserved category. Also, a candidate admitted under Tuition Fee-Waiver (TFW) & *Economically Weaker Section (EWS)* category shall be eligible for branch change in their respective categories **as well as unreserved category**. However, the fee waiver status of tuition waiver candidates will change, if they are allotted a branch against unreserved category and they will not be able to avail the fee exemption as applicable to TFW candidates.

6.5 The last date of branch change in the III semester shall be August 31<sup>st</sup> of that year.

6.6 Further change of branch (after III semester) shall not be allowed in any case.

## 7. ATTENDANCE

7.1 Students are required to attend all the classes: lectures, tutorials, practical's, projects and other prescribed curricular and co-curricular activities. However, a condonation of 25 percent attendance may be granted in normal course during the semester.

7.2 A further relaxation of 15 percent can be granted by the Vice Chancellor on specific recommendations of the concerned Head of the Department/Dean of School, provided that the student was absent on medical grounds and / or due to any exigencies beyond the control of the student. In such cases a prior permission from concerned Head/Dean of School is required. In case of medical exigencies, the student is required to report immediately after the medical fitness issued by the hospital.

7.3 No student shall be allowed to appear in the Mid Semester / End Semester Examination of a

subject, if he / she does not have requisite 75 percent (or requisite 60% after availing relaxation as per the provisions of **Clause 7.2**). Students not allowed to appear in the examination due to poor attendance shall be awarded 'U' grade such candidates, who do not fulfill the eligibility of minimum attendance in end semester examination have to register a fresh in subsequent year.

**7.4** The attendance shall be counted from the date of start of academic session or the actual date of admission/registration. The commencement of classes shall begin one day after the date of registration.

## **8. CURRICULUM STRUCTURE**

**8.1 (A)** The University follows a Credit Based Evaluation System. Every programme shall have a specific curriculum for all semesters (semester I to semester VIII) consisting of theory, practical, seminar and project work etc. The departments of University Schools are allowed minor modifications / adjustments in course distributions. Different types of courses and their credits are listed in Table 1.

Table 1. Different Types of Courses and their Credits

Different types of courses	Minimum credits
Basic Science Courses (BSC)	24
Engineering Science Courses (ESC)	29
Hum., Social Sc. & Management Courses (HSMC)	11
Program Core Courses (PCC)	63
Program Elective (PEC)	14
Open Elective Courses (OEC)	13
Seminar	2
Industrial Training	2
Project	14
Mandatory Courses (MC)	No Credits
<b>Total</b>	<b>172</b>

*A maximum of 20% Elective Courses in Final Year only may be offered through Massive Open Online Courses (MOOC). However, the evaluation of such courses shall be through in-house examination. For evaluation of Mid Semester and End Semester Examinations, Subject Coordinators shall be nominated. Any other issue pertaining to selection of MOOC by a student shall be decided by the Committee constituted as per the provisions of Clause 9.7 of these Ordinances.*

Each course is assigned a credit weightage depending upon the academic workload for a subject per week. One hour lecture / tutorial is equivalent to one credit while 2-3 hours practical / project work is equivalent to one credit. First Year students have a workload of 20 credits per semester while second year and onwards students have a work load of 22 credits per semester. Total workload for all B.Tech. degree programme of the University is uniformly 172 credits.

All the Chemical Engineering related subjects as recommended by Board of Studies (BoS) of Chemical Technology Departments taught by Department of Chemical Engineering are considered as PCC for the respective branches of Chemical Technology.



**8.1 (B) SEMESTER WISE COURSE STRUCTURE & EVALUATION SCHEME  
B.TECH. (SCHOOL OF ENGINEERING/SCHOOL OF CHEMICAL TECH.)**

**I SEMESTER**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MSE	TA	Lab	Total		
1.	BSC			4(3-0-2)	15	20	15	50	50	100
2.	BSC			4(3-1-0)	30	20	-	50	50	100
3.	ESC			4(3-0-2)	15	20	15	50	50	100
4.	ESC			3(3-0-0)	30	20	-	50	50	100
5.	HSMC			3(2-0-2)	15	20	15	50	50	100
6.	HSMC			2(2-0-0)	30	20	-	50	50	100
<b>Total Credits</b>					<b>20</b>					

**II SEMESTER**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MSE	TA	Lab	Total		
1.	BSC			4(3-0-2)	15	20	15	50	50	100
2.	BSC			4(3-1-0)	30	20	-	50	50	100
3.	ESC			3(3-0-0)	30	20	-	50	50	100
4.	ESC			3(0-0-6)	30	20	-	50	50	100
5.	ESC			4(3-0-2)	15	20	15	50	50	100
6.	ESC			2(0-0-4)	-	20	30	50	50	100
7.	MC (Non-credit)			2(2-0-0)	30	20	-	50	50	100
<b>Total Credits</b>					<b>20</b>					

**III SEMESTER**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	BSC			4(3-1-0)	30	20	-	50	50	100
2.	ESC			5(3-1-2)	15	20	15	50	50	100
3.	PCC			4(3-0-2)	15	20	15	50	50	100
4.	PCC			4(2-1-2)	15	20	15	50	50	100
5.	PCC			2(2-0-0)	15	20	15	50	50	100
6.	HSMC			3(3-0-0)	30	20	-	50	50	100
7.	MC (Non-credit)			2(2-0-0)	30	20	-	50	50	100
<b>Total Credits</b>					<b>22</b>					

#### IV SEMESTER

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	BSC			4(3-1-0)	30	20	-	50	50	100
2.	ESC			5(3-1-2)	15	20	15	50	50	100
3.	PCC			3(2-1-0)	30	20	-	50	50	100
4.	PCC			4(2-1-2)	15	20	15	50	50	100
5.	PCC			3(2-1-0)	30	20	-	50	50	100
6.	HSMC			3(3-0-0)	30	20	-	50	50	100
7.	MC (Non-credit)			2(2-0-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>22</b>						

#### V SEMESTER

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PCC			4(2-1-2)	15	20	15	50	50	100
2.	PCC			4(2-1-2)	15	20	15	50	50	100
3.	PCC			5(3-1-2)	15	20	15	50	50	100
4.	PCC			3(2-1-0)	30	20	-	50	50	100
5.	PCC			3(2-1-0)	30	20	-	50	50	100
6.	OEC (Maths)			3(3-0-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>22</b>						

#### VI SEMESTER

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PCC			4(3-1-0)	30	20	-	50	50	100
2.	PCC			3(2-0-2)	15	20	15	50	50	100
3.	PCC			3(2-1-0)	30	20	-	50	50	100
4.	PCC			3(2-1-0)	30	20	-	50	50	100
5.	PCC			3(2-1-0)	30	20	-	50	50	100
6.	PCC			3(3-0-0)	30	20	-	50	50	100
7.	OEC (Humanities)			3(3-0-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>22</b>						

### VII SEMESTER

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MS E	TA	Lab	Total		
1.	PCC			2(2-0-0)	30	20	-	50	50	100
2.	PCC			3(2-0-2)	15	20	15	50	50	100
3.	PEC			3(3-0-0)	30	20	-	50	50	100
4.	PEC			3(3-0-0)	30	20	-	50	50	100
5.	OEC			3(3-0-0)	30	20	-	50	50	100
6.	Industrial Training			2(0-0-4)	-	50	-	50	50	100
7.	Seminar			2(0-0-4)	-	50	-	50	50	100
8.	Project			4(0-0-8)	-	50	-	50	50	100
<b>Total Credits</b>				<b>22</b>						

### VIII SEMESTER

S r. N o.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	La b	Total		
1.	PEC			4(3-1-0)	30	20	-	50	50	100
2.	PEC			4(3-1-0)	30	20	-	50	50	100
3.	OEC			4(3-1-0)	30	20	-	50	50	100
4.	Project			10(0-0-20)	-	50	-	50	50	100
<b>Total Credits</b>				<b>22</b>						

**Total Programme Credits : 172**

#### 8.2 Seminar

Seminar is a course wherein a student is expected to do in-depth study on upcoming field of the respective branch and present it before a duly constituted Department Committee comprising of the concerned Head, Seminar In-charge and Supervisor. Seminar shall involve the state of the art, principles, design criteria and practical applications of the topic.

#### 8.3 Industrial Training

Students shall have to undergo a 4 to 8 weeks industrial/ practical training at the end of VI Semester. This industrial training could be carried out in an industry, research organizations, other institute or any other organization of repute in the subject domain. Once the industrial training is complete, the student shall have to submit a report cum Training Diary to the concerned Head of Department through the In-charge, industrial Training. The evaluation of Industrial Training shall be done in the VII semester by a duly constituted Department Committee comprising of the Head, industrial Training In-charge and a senior faculty of the Department. Students who are selected and have undergone industrial Training/ Internship of eight weeks duration, a fifteen days relaxation will be allowed for registration without any late fee. This duration will be treated as academic leave for the purpose of attendance calculation.

#### 8.4 Mandatory Courses

These are the courses which do not carry any credits but a student is required to pass these courses in order to be eligible for award of Degree.

#### 8.5 NSS Training & University Student Activity Council (USAC) Programmes

**The participation in any one activity group 'A' (NSS/Sports/Cultural) and any one activity in Group 'B' (Social & Print Media/ Technical/ Literary/ Hobby/ Photography/ Yoga) is compulsory (total two activity minimum) for all undergraduate students. The activities are meant for character building, physical fitness and sensitize the students towards social and national issues. Students are required to participate and complete the above activities up to first six semesters. Although these activities carry no credit but a students must have to obtain 'S' Grade for satisfactory performance in above indicated activities in each semester and will be certified by the respective conveners of the councils/ clubs/ programmes, however the decision of DSW/ Chairman USAC will be final.**

### 9. GRADING AND EVALUATION SCHEME

#### 9.1 Grading System

Students are evaluated out of a maximum 100 marks in each subject. On the basis of marks obtained by the student, grades shall be awarded as per the Grading Scheme presented in Table 2. Depending upon the performance of the student in all the subjects offered during the semester, Semester Grade Point Average (SGPA) shall be calculated.

Marks (Out of 100)	Grade Obtained	Grade Points	Description
90 and above	<b>A+</b>	10	Outstanding
80 and above	<b>A</b>	9	Excellent
70 and above	<b>B+</b>	8	Very Good
60 and above	<b>B</b>	7	Good
50 and above	<b>C</b>	6	Average
40 and above	<b>P</b>	5	Pass
Less than 40	<b>F</b>	0	Fail
	<b>W</b>	-	Withdrawn
	<b>U</b>	-	Short Attendance
	<b>I</b>	-	Incomplete
	<b>S</b>	-	Satisfactory in USAC Activities

#### 9.2 Evaluation Scheme

The evaluation of performance shall comprise of continuous assessment throughout the semester in the Mid Semester Examinations, End Semester Examinations and Teachers' Assessment through class work and tutorials. Evaluation Scheme is presented in Table 3 for different types of courses.

*Irrespective to marks/grade obtained by the student in a particular subject, it is mandatory to secure 40% marks in total (sessional and end semester examination) to pass that particular subject. Out of which minimum 30% (15 marks) in theory subject in end semester is essential. "I" grade shall be given to the students who leaves the course midway during the semester. "W" grade shall be given to the students who withdraw from a course during the semester. Students not allowed to appear in the examinations due to poor attendance shall be awarded "U" grade.*

### 9.3 Calculation of SGPA, YGPA and CGPA

The performance of a student shall be evaluated in terms of *three* indices : Semester Grade Point Average (SGPA) which is Grade Point Average for a Semester, *Yearly Grade Point Average (YGPA) and* Cumulative Grade Point Average (CGPA) which *will be calculated at the end of final semester cumulatively.*

#### I. Semester Grade Point Average (SGPA)

$$\text{SGPA} = \frac{\sum (\text{Credit weight of a subject} \times \text{Grade point earned in the subject})}{\sum \text{Total credits for all subjects offered during Semester}}$$

#### II. Yearly Grade Point Average (YGPA)

$$\text{YGPA} = \frac{(\text{SGPA for odd sem} \times \text{Total credit of odd sem}) + (\text{SGPA for even sem} \times \text{Total credit of even sem})}{\text{Total credits offered in the current year (Odd and Even Semester)}}$$

#### III. Cumulative Grade Point Average (CGPA)

$$\text{CGPA} = \frac{\sum (\text{SGPA} \times \text{Semester total credits for all semesters})}{\text{Total credits of all eight semesters}}$$

The CGPA is calculated on the basis of all passed courses with 'P and above grades'.

**For Training & Placement requirements, CGPA of the student up to his/her recent completed semester may be computed for reporting purpose.**

### 9.4 Award of Division

CGPA 7.500 or above	First Division with Honors
CGPA 6.500 or above	First Division
Below a CGPA 6.500	Second Division

### 9.5 Conversion of CGPA to Absolute Percentage

$$\text{CGPA} \times 10 = \text{Absolute Percentage}$$

**Table 3: Evaluation Scheme for Different Types of Courses**

Sr. No.	Course Title	Sessional Marks				ESM	Total Marks
		MSE	TA	Lab	Total		
1.	Theory CourseX (L-T-P)	30	20	-	50	50	100
2.	Theory cum Lab. CoursesX (L-T-P)	15	20	15	50	50	100
3.	Lab Courses	-	20	30	50	50	100
4.	Seminar	-	50	-	50	50	100
5.	Industrial Training	-	50	-	50	50	100
6.	Project VII	-	50	-	50	50	100
7.	Project VIII	-	50	-	50	50	100

Internal Evaluation of Project in VII Semester will be conducted by the Departmental Committee. Evaluation of Project in VIII Semester will be conducted by External **and Internal** Examiners.

### 9.6 Make-up Examination

Students who are not able to appear in Mid Semester Examination for genuine reasons such as hospitalization or representing the University in Sports /Conference etc. are required to seek PRIOR permission from their Head of Departments and Dean of the concerned School for grant of permission for Make-up Examination. **In case of hospitalization, a written intimation within 10 days of hospitalization is MANDATORY.** Make-up Examination will be conducted one week before the End Semester Examination and shall cover the whole syllabus till date.

### 9.7 Grant of Permission for Extended Internship

If a student gets an opportunity for Extended Internship / Industrial Project in India / Abroad for a period of six months after VII semester, he / she may be allowed to complete course work of VIII Semester through Massive Open Online Courses (MOOC). *In such situations, the grant of permission and modalities for drawing the equivalence of MOOC will be decided by a Committee comprising of the Dean of respective School, Head of the Department and two faculty members of the concerned Department.*

## 10. CARRYOVER EXAMINATION

Student with 'F' grade in any subject will be required to appear in the Carry over Examination in the subsequent years. However, there will be a special carryover exam in the final year and the Sessional Marks obtained by these students will remain the same as earned in the first attempt.

## 11. PROMOTION RULES & ACADEMIC CRITERIA FOR CONTINUATION (RE-ADMISSION & EX-STUDENTSHIP)

11.1 A candidate may be allowed Re-admission provided he/she satisfies one of the following conditions:

- (a) A student must secure a minimum **YGPA** of 4.00 **in current year** in order to be promoted to the next year. If a student fails to fulfill this requirement of 4.00 **YGPA**, he/she shall be considered 'Fail' and will have to repeat the year by taking Readmission **in the same class paying full annual fee** or opting for Ex-student status as per Clause 11.2.
- (b) A candidate who failed to appear in examination or he/she was not granted permission to appear in the examination.
- (c) A candidate who was detained by the University and subsequently was permitted to take Re-admission.

- 11.2** Students having minimum 75% attendance (60% with medical/academic leave) in any (Odd/Even) semester shall be allowed to get registered as Ex-student with following conditions:
- (a)** A candidate opting for Ex-studentship shall be required to register by paying only examination fee within 15 days from the start of the new session.
  - (b)** A candidate opting for Ex-studentship status shall be required to appear in all the theory and practical subjects in the End Semester Examinations of both semesters of the academic year. However, Sessional Marks of all subjects including Industrial Training, Seminar etc. shall remain the same as secured earlier.

## **12. AWARD OF DIVISION, RANK AND MEDALS**

- 12.1** A candidate who completes the course requirements for B.Tech. programme securing 'P and above grades' in all the courses within the stipulated maximum duration for the B.Tech. programme shall be declared qualified for the award of degree subject to the fulfillment of the requirements of **Clause 11**.
- 12.2** A candidate who qualifies for the award of the degree securing 'P or above grades' in all the subjects in his/her first attempt in eight consecutive semesters (six consecutive semesters for Lateral Entry students) and secures a CGPA of 7.500 or above shall be awarded first division with honors.
- 12.3** A candidate who qualifies for the award of the degree by securing 'P or above grades' in all the subjects in the stipulated maximum duration for the B.Tech. programme and secures a CGPA of 6.500 and/or above shall be awarded FIRST DIVISION.
- 12.4** All other candidates who qualify for the award of degree by securing 'P' or above grades in all subjects in the stipulated maximum duration for the B.Tech. programme and secures a CGPA less than 6.500 shall be awarded second division.
- 12.5** Best three performers in each programme of study will be awarded Certificate of Merit. It is mandatory for such candidates to pass all the subjects in first attempt. The overall topper amongst all branches of study will be adjudged 'University Topper' on the basis of highest CGPA.
- 12.6** Following Medals shall be awarded annually by the University to the passing out students, subject to completion of his/her degree programme within stipulated four years from the date of admission without any carryover.
- a. Chancellor's Medal**  
Topper of all B.Tech. programmes who secures First, Second and Third highest CGPA at the end of eight semesters in first attempt will be awarded Chancellor's Gold, Silver and Bronze Medal, respectively.
  - b. Vice-Chancellor's Medal**  
Students securing First, Second and Third highest CGPA at the end of eight semesters in each School in first attempt will be awarded Vice-Chancellor's Gold, Silver and Bronze Medal, respectively.

## **13. REGISTRATION AND ENROLMENT**

- 13.1** The students must register at the beginning of each semester on the prescribed dates announced in the Academic Calendar, till she / he completes the programme. If a student does not register in a particular semester, his / her studentship may be cancelled. Any academic activity undertaken without registration by a student shall not be considered towards the fulfillment of requirements of his / her degree.

- 13.2** Registration should be carried out by the student himself / herself within stipulated date. A student is allowed registration for 10 working days including the date of registration with a fine of Rs.100 per day. Students will not be allowed to register after that date. Such students shall have to register at the start of next academic session.
- 13.3** Every student admitted to University will be provided a unique Roll Number. The Roll Number shall have nine digits. First two digit shall indicate the year of admission; next two the degree programme; next two the branch of study and last three digits the serial number of student. Every student will identified by this Roll Number throughout his stay in the University.
- 13.4** Students with outstanding dues to the University or hostel, etc. shall be permitted to register only after clearing the outstanding dues.
- 13.5** In-absentia registration may be allowed only in rare cases with the permission of the ViceChancellor in case ofserious illness/ natural calamities/ unavoidable circumstances upon the recommendation of Dean ofAcademic Affairs.
- 13.6** Every student admitted and registered in the University shall be required to submit the Enrolment Form within one month of registration for getting enrolled with the University.Non-compliance will lead to cancellation of admission.

**14. TEMPORARY DISCONTINUATION FOR PROMOTION TO STARTUP /ENTERPRENURIALACTIVITY**

This facility will be available to the students of the University to promote startup/entrepreneurial activities. Maximum period of discontinuation shall be limited to two years. Such students on completion of degree shall be allowed by the University for Campus Placement provided that he / she shall apply through the Head of Department, Dean of concerned School and Dean of Academic Affairs to the Vice Chancellor in advance and obtain a written order to this effect. Clause 5.3 shall be relaxed to those students who opt for this facility.

**15. USE OF UNFAIR MEANS**

- 15.1** *If a student is found possessing unfair means (in form of written document, mobile phone, electronic gadget like Bluetooth device, programmable calculators) or using them in the Mid Semester Examination and the material recovered is relevant to the subject / paper, his / her entire Mid Semester Examination of all subjects of that semester will be cancelled and 'zero' marks will be awarded in Mid Semester Exams of all subjects of that Semester.*
- 15.2** *If a student is found possessing unfair means (in form of written document, mobile phone, electronic gadget like Bluetooth device, programmable calculators) or using them in the End Semester Examination andthe material recovered is relevant to the subject / paper, his/her entire End Semester Examination of all subjects of that semester will be cancelled and 'zero' marks will be awarded in all the subjects of that semester.*
- 15.3** *In addition to either of the above charges at 15.1 or 15.2, if a student is found misbehaving with the teachers / staff or creating indiscipline in the examination premises, such students will be suspended from the University for one year.*
- 15.4** *For all other cases not covered in Clauses 15.1 to 15.3, the Chairman, Board of Examination of the University shall recommend punishment on case to case basis and obtain approval from the Vice Chancellor in accordance with the Clause 37.8 of the University Act.*



**16. CHALLENGE EVALUATION, AWARD OF MARKS AND ELIGIBILITY OF TEACHERS FOR REVALUATION:**

**A. Challenge Evaluation**

- a. Challenge Evaluation of answer script will be carried out only for the latest semester whose result has been declared.
- b. The students of all B.Tech courses appearing for the University examinations are eligible to apply for revaluation of answer scripts in all theory subjects.
- c. There will be a single notification inviting applications from the students, to apply for Challenge Evaluation of Answer Scripts mentioning the last date.
- d. Students may apply for Challenge Evaluation by paying the requisite fee of Rs. 5000.00 (Rs. Five thousand only) per subject. This fee may vary in future as decided by the university. After the last date, additional time may be granted, subject to the approval from the competent authority. However, under such case, student will have to pay a late fine (non-refundable) for applying for Challenge Evaluation as decided by the university from time to time.
- e. A student cannot apply Challenge Evaluation of answer scripts in the subjects other than the THEORY subjects.
- f. After the last day of application for challenge evaluation, the Controller of Examination Office shall initiate the process of challenge evaluation as per the procedure detailed hereunder:
  - i. Each answer script marked for Challenge Evaluation will be revaluated by two evaluators.
  - ii. After the revaluation, if the difference between the marks awarded by the two re-evaluators is more than 20% of maximum marks of that subject, then such scripts shall be evaluated once again by a third examiner (who has not evaluated the script in the first revaluation).

**B. Award of Marks after Revaluation**

- i. If the average marks of two revaluators after revaluation is higher/lesser than the original marks, the revaluation marks shall be awarded to the students in that subject.
- ii. In case of revaluation as discussed in section 16.f(ii) marks to the student shall be awarded in following manner :

**Case: I**

If the difference of marks awarded by two revaluators is more than 20% of maximum marks for a given subject, and the answer script is revaluated by a third examiner, average of Two Nearest Marks shall be awarded.

First revaluation Marks	Second revaluation Marks	Difference between I & II revaluator	Third revaluation Marks	Final Marks after Revaluation
15	40	>20%	48	44
25	28	≤20%	Not. Reqd.	27

## Case: II

When the difference between the nearest two marks in the first, second and the third revaluation is approximately equal then average of Two Higher Marks shall be awarded.

First revaluation Marks	Second revaluation Marks	Difference between I & II revaluator	Third revaluation Marks	Final Marks after Revaluation
19	40	>20%	59	50

- In case of average being a fraction, for all above cases the awarded mark shall be rounded to the next higher number.
- The University will display the Original Marks, Marks after challenge evaluation, on the website and result of the subject will be upgraded/uploaded.

### C. Eligibility of Teachers for Revaluation:

The faculty members who will be evaluating the script during revaluation must possess minimum five years of teaching experience and have experience of teaching that subject. If required, expert examiners from other University/Institutions may also be appointed as evaluators.

### 17. ELIGIBILITY FOR AWARD OF B. TECH. DEGREE

A student shall be eligible for the award of the B.Tech. Degree if he/she has:

- a. Registered and successfully passed all courses/subjects of the particular programme with 'P and above grades' *with a minimum CGPA of 5.000 or above at the end of programme with* other requirements of the programme as prescribed in the Ordinances or as prescribed by the University from time to time.
- b. Completed the requirements of USAC activities i.e. NSS, Games and Sports, Cultural / Literary activities etc.
- c. Has no dues to the University, Hostels, Library and USAC etc., and ;
- d. No disciplinary action is pending against the student.

### 18. STUDENT DISCIPLINE

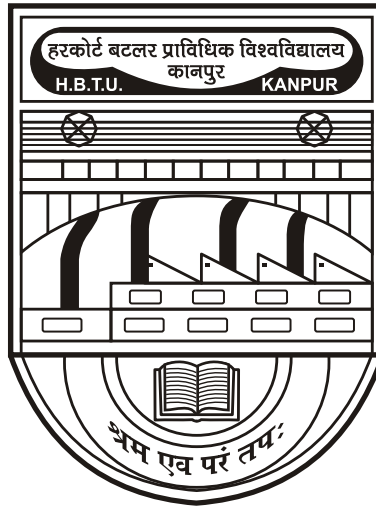
All the students who seek admission will have to abide by the discipline norms of the University and follow conduct or discipline rules/anti ragging measures in the University. In case of any act of indiscipline demonstrated by the student, the student shall be liable for punishment. On the recommendation of Proctorial Board punishment may be awarded in terms of suspension for the semester, expulsion from the hostel, *withholding results, scholarships or other benefits*, barring from the placement facility and/or termination from the University. The decision of the Vice Chancellor shall be final and binding.

### 19. POWER TO MODIFY

Not with standing all that has been stated above, the Academic Council of the University has the right to modify partly or completely the provisions of above Ordinances with the approval of the Executive Council. Under extreme exceptional circumstances arising out of certain inconsistency in the Ordinance or otherwise, Vice Chancellor can take suitable decision in deference to the laid down provisions, provided academic standard is not compromised and the same shall be reported to the ensuing Academic Council/Executive Council with proper justification. Such actions of the Vice Chancellor shall not be treated as precedence under any circumstance.

**ORDINANCES**  
**FOR**  
**MASTER OF TECHNOLOGY**  
**(FULL TIME)**

**(Effective from the session 2019-20 for new entrants)**



**HARCOURT BUTLER TECHNICAL UNIVERSITY**  
**KANPUR-208002 (UP) - INDIA**

**(Revised October, 2019)**

## **First Ordinances**

In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, these are the first Ordinances for Harcourt Butler Technical University, Kanpur:

### **1. INTRODUCTION**

Short Title, Commencement and Definitions

**1.1 These Ordinances shall be called the First Ordinances, 2017 of Harcourt Butler Technical University, Kanpur.**

**1.2 They shall come into force from session 2017-18 for new entrants.**

**1.3 Anything contained in Ordinances in violation to provisions of Act shall be void, and the provisions of Act shall prevail.**

**1.4 In these Ordinances, unless the context otherwise requires,**

a) 'Act' means the Uttar Pradesh Harcourt Butler Technical University Act, 2016 as amended from time to time.

b) 'Section' means a section of the Act.

c) 'Clause' means a clause of the Ordinances.

d) 'University' means the Harcourt Butler Technical University, Kanpur.

**1.5 Words and expression used herein but not defined in the Act shall have the same meaning as assigned to them in the Act.**

**1.6 The admission of students, eligibility to various courses of study, qualifications, attendance, registration, course structure, grading system, award of degrees, certificates, medals and other academic distinctions are covered in these Ordinances.**

a) The 'University' may start other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives. The Ordinances for the same shall be as prescribed by the Academic Council and the Executive Council.

b) The 'Courses of Study' shall be as prescribed by the Academic Council and approved by the Executive Council.

c) Fellowships and Awards shall be instituted as per the requirements with approval of the Vice Chancellor under intimation to the Academic Council and the Executive Council.

### **2. SCHOOLS AND PROGRAMMES OF STUDY**

The University offers M. Tech. programmes under different Schools of the University, as detailed hereunder:

#### **A. M.Tech. Full Time Programmes**

##### **a) School of Engineering**

M.Tech. in Environmental Science and Engineering (Dept. of Civil Engineering)

M.Tech. in Computer Aided Design (Dept. of Mechanical Engineering)

M.Tech. in Electronics and Communication Engineering (Dept. of Electronics Engineering)

##### **b) School of Chemical Technology**

M. Tech. in Chemical Engineering (Dept. of Chemical Engineering)

M.Tech. in Chemical Technology-Biochemical Engineering (Dept. of Biochemical Engineering)

M.Tech. in Chemical Technology-Food Technology (Dept. of Food Technology)

M.Tech. in Chemical Technology-Oil Technology (Dept. of Oil Technology)

The process of restarting M.Tech.in Chemical Technology-Paint Technology (Department of Paint Technology) and M.Tech. in Chemical Technology-Plastic Technology (Department of Plastic Technology) is under way.

### **3. ADMISSIONS**

- 3.1** University offer M.Tech. degree programmes (Full-time) in various disciplines of Engineering and Technology.
- 3.2** Admission to M.Tech. programmes will be made as per the rules prescribed by the University from time to time.
- 3.3** The reservation policy shall be governed by U.P. State Government or as prescribed by the University from time to time.
- 3.4** Admission of a candidate from any other University to Harcourt Butler Technical University, Kanpur on migration shall not be permitted.
- 3.5** If at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has resorted to some fraudulent means to obtain admission, the University reserves the right to cancel the admission of the candidate.

### **4. ELIGIBILITY**

- 4.1** Candidates who have passed the Bachelor's degree in relevant discipline of Engineering/ Technology or equivalent with first division are eligible for the admission to M.Tech. programmes.
- 4.2** Specific details regarding eligibility criteria for admission to various M.Tech. programmes shall be given by the University at the time of admission.
- 4.3** Preference will be given to candidates with valid GATE score. No written test shall be conducted for the GATE qualified candidates for their admission.
- 4.4** In the absence of candidates with valid GATE score, candidates without valid GATE score may be admitted on the basis of written test carried by the University. Mere fulfilling the minimum eligibility criteria does not guarantee the candidate to get admission in M.Tech. programme.
- 4.5** Modification in rules for admission shall be made as per the provisions of UGC / AICTE on approval from the competent authority.
- 4.6** The Academic Council of the University has the power to repeal or modify the eligibility criteria for admissions.

**Table 1. Criteria for admission to M.Tech. (Full-time) programs**

Sl. No.	Department	Specialization	Qualification
<b>School of Engineering</b>			
1.	Mechanical Engineering	Computer Aided Design	B.E. / B.Tech. or Equivalent in Mechanical Engineering with first division
2.	Civil Engineering	Environmental Science and Engineering	B.E. / B.Tech. or Equivalent in Civil Engineering / Environmental Engineering / Chemical Engineering with first division
3.	Electronics Engineering	Electronics and Communication Engineering	B.E. / B.Tech. or Equivalent in Electronics & Communication Engineering / Electronics Engineering/ Electronics & Telecommunication Engineering, with first division.
<b>School of Chemical Technology</b>			
Sl. No.	Department	Stream	Minimum Eligibility Criteria
1.	<b>Oil Technology</b>	Stream A	(i) B. Tech. / B. E. Degree in Oil Technology
		Stream B	(i) B. Tech. / B. E. Degree in Food Technology, Biochemical Engineering, Chemical Engineering, Paint Technology, Plastic Technology, Leather Technology, Biotechnology or any other relevant/allied discipline
		Stream C	(ii) M. Sc. Degree in Chemistry, Industrial Chemistry, Applied Chemistry, Food Technology, Biochemistry, Biotechnology, Microbiology, Life-Sciences or any other relevant/allied discipline
2.	<b>Food Technology</b>	Stream A	(i) B. Tech. / B. E. Degree in Food Technology
		Stream B	(i) B. Tech. / B. E. Degree in Plastic Technology, Biochemical Engineering, Chemical Engineering, Paint Technology, Oil Technology, Dairy Technology, Leather Technology, Biotechnology or any other relevant/allied discipline
		Stream C	(ii) M. Sc. Degree in Chemistry, Industrial Chemistry, Applied Chemistry, Food Science, Food Technology, Biochemistry, Biotechnology, Microbiology, Life-Sciences or any other relevant/allied discipline
3.	<b>Biochemical Engineering</b>	Stream A	(i) B. Tech. / B. E. Degree in Biochemical Technology
		Stream B	(i) B. Tech. / B. E. Degree in Food Technology, Plastic Technology, Chemical Engineering, Paint Technology, Oil Technology, Leather Technology, Biotechnology or any other relevant/allied discipline
		Stream C	(ii) M. Sc. Degree in Chemistry, Industrial Chemistry, Applied Chemistry, Food Technology, Food Science, Biochemistry, Biotechnology, Microbiology, Life-Sciences or any other relevant/allied discipline
4.	<b>Chemical Engineering</b>	Stream A	(i) B. Tech. / B. E. Degree in Chemical Engineering/Technology
		Stream B	(i) B. Tech. / B. E. Degree in Food Technology, Biochemical Engineering, Plastic Technology, Paint Technology, Oil Technology, Leather Technology, Petroleum Engineering/Technology or any other relevant/allied discipline

5.	<b>Paint Technology*</b>	Stream A	(i) B. Tech. / B. E. Degree in Paint Technology / Surface Coating/ Printing Ink Technology
		Stream B	(i) B. Tech. / B. E. Degree in Food Technology, Biochemical Engineering, Chemical Engineering, Oil Technology, Polymer Technology, Plastic Technology, Leather Technology, Biotechnology or any other relevant/allied discipline
		Stream C	(ii) M. Sc. Degree in Chemistry, Industrial Chemistry, Applied Chemistry, Polymer Chemistry, Food Technology, Biochemistry, Biotechnology, or any other relevant/allied discipline
6.	<b>Plastic Technology*</b>	Stream A	(i) B. Tech. / B. E. Degree in Plastic Technology/Polymer Engineering and Technology
		Stream B	(i) B. Tech. / B. E. Degree in Food Technology, Biochemical Engineering, Chemical Engineering, Paint Technology, Oil Technology, Leather Technology, Biotechnology or any other relevant/allied discipline
		Stream C	(ii) M. Sc. Degree in Chemistry, Industrial Chemistry, Applied Chemistry, Polymer Chemistry, Food Technology, Biochemistry, Biotechnology, or any other relevant/allied discipline

\* Proposed to be continued.

A relaxation of 5% of marks in minimum qualifying marks is permissible (without grace marks) candidates belonging to **SC/ST** category for admissions to M.Tech. (Full-time) programs. B.Tech. candidates will be given preference over M.Sc. candidates in case of Chemical Technology branches.

## 5. PROGRAM DURATION

- 5.1 The duration of M.Tech. programme for Full time students shall be two academic years (four semesters).
- 5.2 The duration of each semester shall be of 90 working days or as prescribed by the University from time to time.
- 5.3 There shall be two regular semesters in an academic year. The semester that begins in July (July to December) is known as the Odd Semester and the semester that begins in January (January to May) is known as the Even Semester.
- 5.4 The maximum time allowed for completion of M.Tech. programme for Full time students shall be three years. However, an extension of maximum one year may be granted on the approval of Vice Chancellor on case to case basis on the specific recommendations of Head of the Departments, Dean of concerned School and Dean of Academic Affairs. Admission of those candidates who are not able to complete their degree requirement in the stipulated period shall automatically be cancelled.

## 6. CATEGORY OF STUDENTS

### a) Full Time

A student in this category works full-time for acquiring his / her M.Tech. degree. He/she will be eligible to receive assistantship/scholarship from the University or any other recognized funding agency as per rules (subject to availability of funds).

### b) Sponsored

A student in this category is sponsored by a recognized R&D organization, Academic Institution, Government Organization or Industry for doing M.Tech. in the University on full-time basis. A minimum work experience of two years is required. **The experience in an Organization/Industry/Institution of less than 03 months will not be counted to calculate the total duration of 02 years.** The University shall not provide any assistantship / scholarship to such students.

## 7. SCHOLARSHIPS AND FELLOWSHIPS

Students admitted with valid GATE Score shall be eligible for GATE scholarship sponsored by Ministry of Human Resource Development (MHRD). University Fellowship / Teaching Assistantship may be given to the non-GATE students as per the availability of finances. Some departments in the University are recognized QIP centers wherein in-service candidates may seek admission under QIP scheme of MHRD.

## 8. ATTENDANCE

- 8.1 Students are required to attend all the classes - lectures, tutorials, practical, research works and other prescribed curricular and co-curricular activities. However, a condonation of 25% in attendance may be granted in normal course during the semester.
- 8.2 A further relaxation of 15 percent can be granted by the Vice Chancellor on specific recommendations of the concerned Head of the Department/Dean of School, provided that the



student was absent on medical grounds and / or due to any exigencies beyond the control of the student. In such cases a prior permission from concerned Head/Dean of School is required. In case of medical exigencies, the student is required to report immediately after the medical fitness issued by the hospital.

- 8.3** No student shall be allowed to appear in the Mid Semester / End Semester Examination of a subject, if he / she does not have requisite 75 percent (or requisite 60% after availing relaxation as per the provisions of **Clause 8.2**). Students not allowed to appear in the examination due to poor attendance shall be awarded 'U' grade such candidates, who do not fulfill the eligibility of minimum attendance in end semester examination have to register a fresh in subsequent year.
- 8.4** The attendance shall be counted from the date of start of academic session or the actual date of admission/registration. The commencement of classes shall begin one day after the date of registration.

### 9.(A) CURRICULUM STRUCTURE

The University follows a Credit Based Evaluation System. Every program shall have a specific curriculum for all semesters consisting of theory, practical, seminar, mini project, dissertation work etc. as listed in Table 3.

**Table 2 : Different Types of Courses and their Credits**

S. No.	Category of Courses	Credits (For Regular Program) SoE	Credits (For Regular Program) SoCT	Credits (For Part-Time Program)
1.	Program Core Courses (PCC)	30	30	28
2.	Program Elective Courses (PEC)	12	12	12
3.	Seminar (S)	02	04	02
4.	Dissertation (D)	16 (04 + 12)	14 (02 + 12)	16 (08 + 08)
5.	Mini project (MP)	-	-	02
	Total Credits	60	60	60

Respective Board of Studies (BOS) of the department will decide the semester wise course structure and evaluation scheme for various subjects (theory and theory-cum-practical) for Full time and Part-time programmes.

(B) SEMESTER WISE COURSE STRUCTURE & EVALUATION SCHEME  
M.TECH. (SCHOOL OF ENGINEERING)  
(FULL TIME PROGRAMME)

**SEMESTER I**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			5 (3-2-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-2-0)	30	20	-	50	50	100
4.	PCC			4 (3-1-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>18</b>						

**SEMESTER II**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PEC			4 (3-1-0)	30	20	-	50	50	100
4.	PEC			4 (3-1-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>16</b>						

**SEMESTER III**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MSE	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PEC			4 (3-1-0)	30	20	-	50	50	100
3.	Seminar			2 (0-0-4)	-	50	-	50	50	100
4.	Dissertation			4 (0-0-8)	-	50	-	50	50	100
<b>Total Credits</b>				<b>14</b>						

**SEMESTER IV**

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ESM	Total Mark
					MSE	TA	Lab	Total		
1.	Dissertation			12 (0-0-24)	-	50	-	50	50	100
<b>Total Credits</b>				<b>12</b>						

**Total Programme Credits : 60**

(C) SEMESTER WISE COURSE STRUCTURE & EVALUATION SCHEME

M.TECH. (SCHOOL OF CHEMICAL TECHNOLOGY)  
(FULL TIME PROGRAMME)

SEMESTER I

(A Stream only for Candidates having B.Tech. Chemical Tech.)

(B Stream only for Candidates having B.Tech., in Branches other than Chemical Tech.)

(C Stream only for Candidates having M.Sc. Chemistry / Applied Chemistry / Industrial Chemistry etc.)

Group A										
Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ES M	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-1-2)	15	20	15	50	50	100
4.	PEC			4 (3-1-0)	30	20	-	50	50	100
Total Credits				17						
OR Group B / C										
Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ES M	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-1-2)	15	20	15	50	50	100
4.	PEC			4 (3-1-0)	30	20	-	50	50	100
Total Credits				17						

SEMESTER II

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ES M	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-1-2)	15	20	15	50	50	100
4.	PEC			4 (3-1-0)	30	20	-	50	50	100
Total Credits				17						

SEMESTER III

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ES M	Total Mark
					MS E	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PEC			4 (3-1-0)	30	20	-	50	50	100
3.	Seminar			4 (0-0-8)	-	50	-	50	50	100
4.	Dissertation			2 (0-0-4)	-	50	-	50	50	100
Total Credits				14						

## SEMESTER IV

Sr. No.	Course Type	Subject Code	Course Title	Credits (L-T-P)	Sessional Marks				ES M	Total Mark
					MS E	TA	Lab	Total		
1.	Dissertation			12(0-0-24)	-	50	-	50	50	100
<b>Total Credits</b>				<b>12</b>						

**Total Programme Credits : 60**

### 10. GRADING AND EVALUATION SCHEME

#### 10.1 Grading System

Students are evaluated out of a maximum 100 marks in each subject. On the basis of marks obtained by the student in the subject, grades shall be awarded as per the Grading Scheme presented in Table 4. Depending upon the performance of the student in all the subjects offered during the semester, Semester Grade Point Average (SGPA) shall be calculated.

<b>Table 3 : Grading Scheme</b>			
Marks (Out of 100)	Grade Obtained	Grade Points	Description
90 and above	<b>A+</b>	10	Outstanding
80 and above	<b>A</b>	9	Excellent
70 and above	<b>B+</b>	8	Very Good
60 and above	<b>B</b>	7	Good
50 and above	<b>P</b>	6	Pass
Less than 50	<b>F</b>	0	Fail
	<b>W</b>	-	Withdrawn
	<b>U</b>	-	Short Attendance
	<b>I</b>	-	Incomplete
	<b>S</b>	-	Satisfactory in USAC Activities

#### 10.2 Evaluation Scheme

The evaluation of performance shall comprise of continuous assessment throughout the semester in the Mid Semester Examinations, End Semester Examinations and Teachers' Assessment through class work and tutorials. Evaluation Scheme is presented in Table 5 for different types of courses.

*Irrespective to marks/grade obtained by the student in a particular subject, it is mandatory to secure 50% marks in total (sessional and end semester examination) to pass that particular subject. Out of which minimum 30% (15 marks) in theory subject in end semester is essential. "I" grade shall be given to the students who leaves the course midway during the semester. "W" grade shall be given to the students who withdraw from a course during the semester. Students not allowed to appear in the examinations due to poor attendance shall be awarded "U" grade.*

#### 10.3 Calculation of SGPA, YGPA and CGPA

The performance of a student shall be evaluated in terms of *three* indices: Semester Grade Point Average (SGPA) which is Grade Point Average for a Semester, *Yearly Grade Point Average (YGPA) and* Cumulative Grade Point Average (CGPA) which *will be calculated at the end of final semester cumulatively.*

### I. Semester Grade Point Average (SGPA)

$$\text{SGPA} = \frac{\sum (\text{Credit weight of a subject} \times \text{Grade point earned in the subject})}{\sum \text{Total credits for all subjects offered during Semester}}$$

### II. Yearly Grade Point Average (YGPA)

$$\text{YGPA} = \frac{(\text{SGPA for odd sem} \times \text{Total credit of odd sem}) + (\text{SGPA for even sem} \times \text{Total credit of even sem})}{\text{Total credits offered in the current year (Odd and Even Semester)}}$$

### III. Cumulative Grade Point Average (CGPA)

$$\text{CGPA} = \frac{\sum (\text{SGPA} \times \text{Semester total credits for all semesters})}{\text{Total credits of all four semesters}}$$

The CGPA is calculated on the basis of all passed courses with 'P and above grades'.

**For Training & Placement requirements, CGPA of the student up to his/her recent completed semester may be computed for reporting purpose.**

#### 10.4 Award of Division

CGPA 7.500 or above	First Division with Honors
CGPA 6.500 or above	First Division
Below a CGPA 6.500	Second Division

#### 10.5 Conversion of CGPA to Absolute Percentage

$$\text{CGPA} \times 10 = \text{Absolute Percentage}$$

**Table 4 : Evaluation Scheme**

Sr. No.	Course Title	Sessional Marks				ESM	Total Marks
		MSE	TA	Lab	Total		
1.	Theory Course (L-T-P)	30	20	-	50	50	100
2.	Theory cum Lab. Courses (L-T-P)	15	20	15	50	50	100
3.	Lab Course	-	20	30	50	50	100
4.	Seminar	-	50	-	50	50	100
5.	Dissertation	-	50	-	50	50	100

#### 10.6 Evaluation Scheme for Dissertation (in Semester III)

Dissertation courses may include a theoretical /experimental / numerical / analytical modeling, simulation and analysis, experimental investigation, a prototype design, product design and development etc. A dissertation grade is awarded in Semester III.

The Dissertation work will be evaluated in III semester by Department Post Graduate Committee (DPGC) consisting Head of Department, Supervisor (**or one senior faculty member of the Department in case supervisor himself is head of department**) and a senior faculty from other Department to be nominated by the Vice Chancellor.

### 10.7 Evaluation Scheme for Dissertation work (in Semester IV)

Evaluation of Dissertation in Semester IV will be held only after the student has secured pass grades in all the courses. Dissertation work will be allowed **for** submission only after pre-submission presentation before DPGC is found to be satisfactory.

Student is required to have publications for his / her research work for grant of permission for thesis submission. One of the following criteria should be fulfilled.

- a) One publication / acceptance for publication in a reputed International Journal. **OR**
- b) Two publications / presentations in International Conference(s) out of which one may be a poster presentation. **OR**
- c) Two publications in National Journal of repute.

Evaluation of Dissertation work and final viva-voce will be conducted by External Examiner. Discipline wise list of refereed/reputed journals (International and National) **will be considered, as prescribed by UGC/AICTE, or any other regulatory body.** *In case, a student is allowed to work with a co-supervisor in an industry/ research organization / Institute/University outside HBTU Kanpur, a certificate about the completion of work will be required by the concerned Supervisor.*

### 10.8 Make-up Examination

Students who are not able to appear in Mid Semester Examination for genuine reasons such as hospitalization or representing the University in Sports/ Conference etc. are required to seek **PRIOR** permission from their Head of Departments and Dean of the concerned School for grant of permission for Make-up Examination. **In case of hospitalization, a written intimation within 10 days of hospitalization is MANDATORY.** Make-up Examination will be conducted one week before the End Semester Examination and shall cover the whole syllabus till date.

## 11. CARRY OVER EXAMINATION

Student with 'F' grade in any subject will be required to appear for Carryover Examination in the subsequent years. However, the Sessional Marks obtained by these students will remain the same.

## 12. SUPERVISION OF RESEARCH WORK

### 12.1 Allotment of Supervisor

- a. Thesis supervisor for a student will be appointed from amongst the faculty members of the Department / University.
- b. Departments will evolve modalities for appointing supervisors keeping in view the aspirations of the students and interest of the faculty members.
- c. Generally, no student will have more than one supervisor from the same department / discipline / specialization. However, two supervisors may be allowed by the Vice Chancellor in special cases.

- d. No change in thesis supervisor will generally be allowed. However, change may be allowed by the Vice Chancellor on specific recommendation of Head of the Department and Dean of concerned School on valid academic /administrative reasons. In case of a change of supervisor, student will not be allowed to submit the thesis earlier than three months from the date of such change/addition.
- e. No change/addition of supervisor is allowed after the thesis submission.

### **12.2 Allotment of Research Topic**

- a. Department shall notify the research area of all faculty members of the Department for the benefit of the students. Head of the Department will ensure that a student gets a supervisor in research area of his/her choice. Broad area of thesis must be finalized in II/III semester. In case of change in the thesis / research area, the students will not be allowed to submit the thesis before six months from the date of such change. No such change will be allowed in Final Semester.
- b. Students are required to make a brief presentation of their thesis topics, objectives and methodology of research work within a month of commencement of III Semester for the approval from the DPGC.

### **12.3 Change of Research Area**

Change of research area will be allowed in rare cases in case to case basis on the recommendation of concerned Head and Dean of the school.

### **12.4 Monitoring of Research Work**

Students are required to have two presentations in a semester before DPGC. Supervisor will continuously monitor and assess the performance of the student during the Semester.

### **12.5 Evaluation of Research Work**

- a. After completion of research work, the candidate shall submit a written application for internal presentation. Student shall submit a copy of thesis with a certificate from the Supervisor that the research work is complete and free from plagiarism. Student is also required to fulfilled publications related requirement for grant of permission for internal presentation.
- b. On satisfactory pre submission presentation before DPGC candidate shall be allowed to submit one copy of thesis to the Head of the Department. Head of the Department will proposed a panel of three examiners for thesis examination with the consultation of supervisor and forward it to the Dean of concerned School and the Controller of Examination for approval of External Examiners by the Vice Chancellor.  
Separate panel of examiners should be proposed for thesis evaluation different students. Not more than two M.Tech. thesis examinations should be conducted by One External Examiner at a time.
- c. The Controller of Examination shall send the letter of appointment to the approved Examiner

with a copy of it to the concerned Head of the Department.

- d. Head of Department shall essentially send a loose bound thesis by registered/speed post to the appointed Examiner. A soft copy in PDF form may be send to the Examiner if desired in addition to the thesis send by post.
- e. Head of Department shall schedule the Final Viva-voce Examination only after receipt of acceptance report by post or e-mail/fax from the External Examiner. Accordingly, all concerned should be intimated of the same at least one week in advance.
- f. Thesis examination shall be conducted at the University only. The Head of the Department shall send the marks awarded to the candidate to the Controller of Examination after the candidate submits the final M.Tech. thesis in three hard-bound copies (one for the University Library, one for Departmental Library and one for the Supervisor) and two CDs containing soft copies of the thesis in a single file in the format notified by the University. One CD of thesis shall be stored in University Library and the other in the Department.
- g. Those who are not able to complete their M.Tech. Thesis in the stipulated time will be required to register in next semester by depositing the Semester fee till the work is completed. The duration of M.Tech. course shall be counted from the date of registration. However, if a student is able to submit the thesis in two weeks from the commencement of new semester, he / she may be exempted from fee.
- h. The responsibility for carrying out M.Tech. Thesis evaluation strictly as per the laid down procedure lies with the Head of the Department.

## **12.6 Appointment of External Examiners**

External Examiners must not be of lower than the rank of Associate Professor in the concerned discipline. Examiners should be faculty from IITs/NITs/reputed Engineering Colleges or Universities /Industrial Professionals from concerned discipline/scientists from Central and Regional Laboratories.

## **13. PROMOTION RULES AND ACADEMIC CRITERIA FOR CONTINUATION (RE-ADMISSION & EX-STUDENTSHIP)**

**13.1** A candidate may be allowed Re-admission provided he/she satisfies one of the following conditions:

- (a) A student must secure a minimum **YGPA of 5.000 in current year** in order to be promoted to next year. If a student fails to fulfill this requirement of **5.000 YGPA**, he/she shall be considered 'Fail' and will have to repeat the year by taking readmission in the same class paying full annual fee or opting for ex-student status as per Clause 13.2 in the subsequent academic year. If a student after Re-admission again fails to attain a **YGPA of 5.000**, his/her admission will be cancelled and such students shall have to leave the M. Tech. programme.
- (b) A candidate who failed to appear in a semester examination or he/she was not granted permission to appear in the examination.
- (c) A candidate who was detained by the University and subsequently was permitted to take re-admission.



- 13.2 Students having minimum 75% attendance (60% with medical/academic leave) in last semester shall be allowed to get registered as ex-student with following conditions:
- (a) Ex-student is required to register by paying only examination fee within 15 days from the start of new session.
  - (b) A candidate opting for ex-student status will have to appear in all the theory and practical subjects during the End Semester Examinations in both semesters of the academic year. Sessional Marks of Project and Seminar etc. shall remain the same as secured earlier.

#### 14. AWARD OF DIVISION, RANK AND MEDALS

- 14.1 A candidate who completes the course requirements for M.Tech. programme securing 'P' and above grades' in all the courses in the stipulated maximum duration for the M. Tech. programme shall be declared 'qualified' for the award of degree subject to the fulfillment of the requirements of Clause 13.
- 14.2 A candidate who qualifies for the award of the degree securing 'P' or above grades' in all the subjects in his/her first attempt in four consecutive semesters (six consecutive semesters for Part time programmes) and secures a **CGPA of 7.500** or above shall be awarded **FIRST DIVISION WITH HONOURS**.
- 14.3 A candidate who qualifies for the award of the degree by securing 'P' or above grades' in all the subjects in the stipulated maximum duration for the M.Tech. programme and secures a CGPA of 6.500 and/or above shall be awarded **FIRST DIVISION**.
- 14.4 All other candidates who qualify for the award of degree by securing 'P' or above grades' in all subjects in the stipulated maximum duration for the M.Tech. programme and secures a CGPA less than 6.500 shall be awarded **SECOND DIVISION**.
- 14.5 Best performers in each Full time M.Tech. programme in each School will be awarded 'Certificate of Merit'. It is mandatory for such candidates to pass all the subjects in first attempt without any Carryover in any semester. Overall topper in the University amongst Full time M.Tech. programmes will be adjudged 'University Topper' on the basis of highest CGPA.
- 14.6 Following **Medals shall** be awarded annually by the University to those students who complete their Degree programmes within stipulated two years duration without any carryover.
- a. **Chancellor's Medal**  
Toppers of all M.Tech. programmes who secure First, Second and Third highest CGPA at the end of Fourth Semester in first attempt will be awarded Chancellor's Gold, Silver and Bronze Medal, respectively.
  - b. **Vice-Chancellor's Medal**  
Students securing First, Second and Third highest CGPA at the end of Fourth Semester in each School in first attempt will be awarded Vice-Chancellor's Gold, Silver and Bronze Medal, respectively.

#### 15. REGISTRATION AND ENROLMENT

- 15.1 Students must register at the start of each semester on the prescribed dates announced in the Academic Calendar till he/she completes the programme. If a student does not register in a

particular semester, his/her admission is liable to be cancelled. Any academic activity undertaken by a student shall not be considered towards the fulfillment of requirements of degree without proper registration.

- 15.2 Registration should be carried out by the student himself/herself on stipulated dates. A student is allowed registration for 10 working days including the date of registration with a fine of Rs.100 per day. A student who failed to register in stipulated time will have to wait for the start of next academic session.
- 15.3 Every student admitted in the University will be provided a unique Roll Number. The Roll Number shall have nine digits. First two digit shall indicate the year of admission; next two the degree programme; next two the branch of study and last three digits, the serial number of the student. Every student shall be identified by this Roll Number throughout the stay in the University.
- 15.4 Students with outstanding dues to the University or hostel etc. shall be permitted to register only after clearing the outstanding dues.
- 15.5 In-absentia registration may be allowed only in rare cases with the permission of the Vice Chancellor in case of serious illness/ natural calamities/ unavoidable circumstances upon the recommendation of Head of the Department and Dean of Schools and Academic Affairs.
- 15.6 Every student admitted and registered in the University shall be required to submit the Enrolment Form within one month of registration for getting enrolled with the University. Non-compliance will lead to cancellation of admission.

#### 16. **TEMPORARY DISCONTINUATION FOR PROMOTION TO STARTUP /ENTREPRENEURIAL ACTIVITY**

This facility will be available to the students of the University to promote startup/entrepreneurial activities. Maximum period of discontinuation shall be limited to one year for M.Tech. programmes. Such students on completion of degree shall be allowed by the University for Campus Placement provided that he/ she shall apply through the Head of Department, Dean of concerned School and Dean of Academic Affairs to the Vice Chancellor in advance and obtained a written order to this effect. Clause 5 shall be relaxed to those students who opt for this facility.

#### 17. **USE OF UNFAIR MEANS**

- 17.1 *If a student is found possessing unfair means (in form of written document, mobile phone, electronic gadget like Bluetooth device, programmable calculators) or using them in the Mid Semester Examination and the material recovered is relevant to the subject / paper, his / her entire Mid Semester Examination of all subjects of that semester will be cancelled and 'zero' marks will be awarded in Mid Semester Exams of all subjects of that semester.*
- 17.2 *If a student is found possessing unfair means (in form of written document, mobile phone, electronic gadget like Bluetooth device, programmable calculators) or using them in the End Semester Examination and the material recovered is relevant to the subject / paper, his/her entire End Semester Examination of all subjects of that semester will be cancelled and 'zero' marks will be awarded in all the subjects of that Semester.*
- 17.3 *In addition to either of the above charges at 17.1 or 17.2, if a student is found misbehaving with*

*the teachers / staff or creating in discipline in the examination premises, such students will be rusticated from the University for one year.*

**17.4** *For all other cases not covered in Clauses 17.1 to 17.3, the Chairman, Board of Examination shall recommend punishment to the students on case to case basis and obtain approval from Vice Chancellor in accordance with the Clause 37.8 of University Act.*

**18. CHALLENGE EVALUATION, AWARD OF MARKS AND ELIGIBILITY OF TEACHERS FOR REVALUATION:**

**A. Challenge Evaluation**

- a. Challenge Evaluation of answer script will be carried out only for the latest semester whose result has been declared.
- b. The students of all M.Tech courses appearing for the University examinations are eligible to apply for revaluation of answer scripts in all theory subjects.
- c. There will be a single notification inviting applications from the students, to apply for Challenge Evaluation of Answer Scripts mentioning the last date.
- d. Students may apply for Challenge Evaluation by paying the requisite fee of Rs. 5000.00 (Rs. Five Thousand Only) per subject. This fee may vary in future as decided by the University. After the last date, additional time may be granted, subject to the approval from the competent authority. However, under such case, student will have to pay a late fine (non-refundable) for applying for Challenge Evaluation as decided by the university from time to time.
- e. A student cannot apply Challenge Evaluation of answer scripts in the subjects other than the THEORY subjects.
- f. After the last day of application for challenge evaluation, the Controller of Examination Office shall initiate the process of challenge evaluation as per the procedure detailed hereunder:
  - i. Each answer script marked for Challenge Evaluation will be revaluated by two evaluators.
  - ii. After the revaluation, if the difference between the marks awarded by the two re-evaluators is more than 20% of maximum marks of that subject, then such scripts shall be evaluated once again by a third examiner (who has not evaluated the script in the first revaluation).

**B. Award of Marks after Revaluation:**

- i. If the average marks of two revaluators after revaluation is higher/lesser than the original marks, the revaluation marks shall be awarded to the students in that subject.
- ii. In case of revaluation as discussed in section 16.f(ii) marks to the student shall be awarded in following manner:

**Case: I**

If the difference of marks awarded by two revaluators is more than 20% of maximum marks for a given subject, and the answer script is revaluated by a third examiner, average of Two Nearest Marks shall be awarded.

First revaluation Marks	Second revaluation Marks	Difference between Ist & IInd revaluator	Third revaluation Marks	Final Marks after Revaluation
15	40	>20%	48	44
25	28	≤20%	Not. Reqd.	27

**Case: II**

When the difference between the nearest two marks in the first, second and the third revaluation is approximately equal then average of Two Higher Marks shall be awarded.

First revaluation Marks	Second revaluation Marks	Difference between Ist & IInd revaluator	Third revaluation Marks	Final Marks after Revaluation
19	40	>20%	59	50

- In case of average being a fraction, for all above cases the awarded mark shall be rounded to the next higher number.
- The University will display the Original Marks, Marks after challenge evaluation, on the website and result of the subject will be upgraded/uploaded.

**C. Eligibility of Teachers for Revaluation:**

The faculty members who will be evaluating the script during revaluation must possess minimum five years of teaching experience and have experience of teaching that subject. If required, expert examiners from other University/Institutions may also be appointed as evaluators.

**19. LEAVE RULES**

A student is eligible for following leaves:

- a) Leave on personal grounds: 15 days per semester with scholarship
- b) Leave on medical grounds: Up to 30 days in a year with scholarship for extended sickness, normally requiring hospitalization
- c) Any other leaves permissible as per UGC norms.

**20. ELIGIBILITY FOR AWARD OF M. TECH. DEGREE**

A student shall be declared to be eligible for award of the M.Tech. Degree if he/she has:

- a. Registered and successfully passed with 'P' and above grades' in all the courses with a minimum CGPA of 6.000. All other requirements of the programme as prescribed in the Ordinances or as prescribed by the University from time to time.
- b. Has no dues to the University, Hostels, Library and USAC etc., and ;

c. No disciplinary action is pending against the student.

**21. PLAGIARISM**

Plagiarism checking is mandatory and the thesis has to be checked for anti-plagiarism prior to submitting it for evaluation. This checking will be carried out by the respective Departments for ensuring originality of submitted thesis work. In case, any plagiarism (as defined in UGC/AICTE notifications) is found in the thesis, the University may take necessary action as per the guidelines provided in UGC/AICTE notifications. A certificate regarding originality of research work must be signed by the Candidate and the Supervisor which should be submitted at the time of thesis submission to the University.

**22. STUDENT DISCIPLINE**

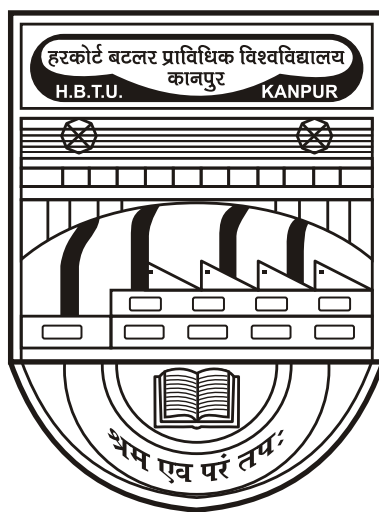
All the students who seek admission will have to abide by the discipline norms of the University and follow conduct or discipline rules/anti ragging measures in the University. In case of any act of indiscipline demonstrated by the student, the student shall be liable for punishment. On the recommendation of Proctorial Board punishment may be awarded in terms of suspension for the semester, expulsion from the hostel, *withholding results, scholarships or other benefits*, barring from the placement facility and/or termination from the University. The decision of the Vice Chancellor shall be final and binding.

**23. POWER TO MODIFY THE ORDINANCES**

Not with standing all that has been stated above, the Academic Council has the right to modify partly or completely the provisions of these Ordinances with the approval of Executive Council. Under extreme exceptional circumstances arising out of certain inconsistency in the Ordinances or otherwise, the Vice-Chancellor can take suitable decision in deference to the laid down provisions provided the standard of evaluation is not compromised and the same shall be reported to ensuing Academic Council / Executive Council with suitable justification. Such actions of Vice-Chancellor shall not be treated as precedence under any circumstances.

**ORDINANCES**  
**FOR**  
**MASTER OF COMPUTER APPLICATION**

**(Effective from the session 2019-20 for new entrants)**



**HARCOURT BUTLER TECHNICAL UNIVERSITY**  
**KANPUR-208002 (UP) - INDIA**

**(Revised October, 2019)**

## **First Ordinances**

In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, these are the first Ordinances for Harcourt Butler Technical University, Kanpur:

### **1. INTRODUCTION**

Short Title, Commencement and Definitions

- 1.1 These Ordinances shall be called the First Ordinances, 2020 of Harcourt Butler Technical University, Kanpur.
- 1.2 They shall come into force from session 2020-21 for new entrants.
- 1.3 Anything contained in Ordinances in violation to provisions of Act shall be void, and the provisions of Act shall prevail.
- 1.4 In these Ordinances, unless the context otherwise requires,
  - a) 'Act' means the Uttar Pradesh Harcourt Butler Technical University Act, 2016 as amended from time to time.
  - b) 'Section' means a section of the Act.
  - c) 'Clause' means a clause of the Ordinances.
  - d) 'University' means the Harcourt Butler Technical University, Kanpur.
- 1.5 Words and expression used herein but not defined in the Act shall have the same meaning as assigned to them in the Act.
- 1.6 The admission of students, eligibility to various courses of study, qualifications, attendance, registration, course structure, grading system, award of degrees, certificates, medals and other academic distinctions are covered in these Ordinances.
  - a) The 'University' may start other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives. The Ordinances for the same shall be as prescribed by the Academic Council and the Executive Council.
  - b) The 'Courses of Study' shall be as prescribed by the Academic Council and approved by the Executive Council.

Fellowships and Awards shall be instituted as per the requirements with approval of the Vice-Chancellor under intimation to the Academic Council and the Executive Council.

### **2. ORDINANCES FOR M.C.A. PROGRAMME FROM ACADEMIC SESSION 2020-21.**

#### **2.1 ADMISSIONS**

- 2.1.1 University offers full time Master of Computer Applications (MCA) Degree Programme.
- 2.1.2 Admission to MCA first year in Semester I shall be made through a reputed entrance examination conducted by the National Level Examination Body engaged with Central Engineering Institutions such as National Institute of Technology Master of Computer Applications Common Entrance Test (NIMCET) etc.
- 2.1.3 The reservation policy as prescribed by U.P. State Government or its directions regarding admission from time to time shall be adhered to by the University.

- 2.1.4 The selection shall be based on the merit of the candidate in the admission process.
- 2.1.5 Admission on migration of a candidate from any other University to Harcourt Butler Technical University is not permitted.
- 2.1.6 If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has resorted to some fraudulent means to obtain admission, the University reserves the right to cancel the admission of the candidate.

## 2.2 ELIGIBILITY

Qualifications for admission to MCA programme shall be as per the provisions of these Ordinances and decisions of the Admission Committee of the University.

### 2.2.1 Admission through Entrance Examination

- (a) A candidates shall be eligible for admission if he / she possess Bachelor's Degree under 10+2+3 or 4 years pattern of education in Mathematics / Statistics / Engineering / Technology or Bachelor in Computer Application with a minimum aggregate of 60% marks (55% in case of the candidates belonging to SC/ST category) from a University recognized by UGC.
- (b) Admission to MCA first year in Semester I shall be made through a reputed entrance examination conducted by the national level examination Body engaged with Central Engineering Institutions such as National Institute of Technology Master of Computer Applications Common Entrance Test (NIMCET) etc.

## 3. PROGRAMME DURATION

- 3.1 The duration of the MCA programme shall be two academic years (four semesters).
- 3.2 Each semester shall have a minimum of 90 working days (including the days of examinations) or as prescribed / amended by AICTE / UGC from time to time.
- 3.3 There are two regular semesters in an academic year. The semester that begins in July (*July to November/December*) is known as the *Odd Semester* and the semester that begins in December/January (*December/January to May*) is known as the *Even Semester*.
- 3.4 The maximum time allowed for completion of the programme shall be three years beyond which the admission of the candidate shall be automatically cancelled.

## 4. ATTENDANCE

- 4.1 Students are required to attend all the classes - lectures, tutorials, practical and other prescribed curricular and co-curricular activities. However, a condonation of 25 per cent in attendance may be granted in normal course during the semester.
- 4.2 A further relaxation upto 15 percent can be granted by the Vice-Chancellor on specific recommendations of the concerned Head of the Department and Dean of School, provided that the student has been absent on medical grounds and / or due to any exigencies beyond the control of the student. However, such absence will require prior permission from the concerned Head of the Department and the Dean of School.



- 4.3 No student shall be allowed to appear in the Mid Semester / End Semester examination of a subject, if he / she does not have requisite 75 percent (or requisite 60% after availing relaxation as per the provisions of **Clause 4.2**) in that subject. Students not allowed for appearing in the examination due to poor attendance shall be awarded “U” grade. Such candidates shall have to fulfill the eligibility of minimum attendance in end semester examination by re-registering a fresh in that subject in subsequent years and clear the subject.
- 4.4 The attendance shall be counted from the date of start of academic session or the actual date of admission/ registration. The commencement of classes shall begin one day after the date of registration.

## 5. (A) CURRICULUM STRUCTURE

The University follows a specialized credit-based semester system. MCA programme will have a specific curriculum for all semesters (semester I to semester IV) consisting of theory, practical and industrial project work, etc., as given below and shall be in accordance with the prescribed syllabus. The courses shall be covered through lectures, tutorials, laboratory classes, industrial project etc. as prescribed by the University.

Table 1. Different types of courses and their credits

Different types of courses	Minimum Credits
Basic and Applied Sciences Courses (BSC)	06
Program Core Courses (PCC)	58
Humanities, Social Science & Management Courses (HSMC)	04
Project (P)	13
Industrial Training/ Internship & Seminar Course (ISC)	03
Program Elective Courses (PEC)	16
<b>Total</b>	<b>100</b>

Each course is assigned a certain number of credits depending upon the work load for a subject per week. One hour lecture / tutorial is equivalent to one credit while 2 hours practical / project work is equivalent to one credit. The curriculum for MCA Programme of study has been designed with a total work load of 100 credits.

**(B) SEMESTER WISE COURSE STRUCTURE & EVALUATION SCHEME****MASTER OF COMPUTER APPLICATION (SCHOOL OF ENGINEERING)****SEMESTER I**

Sr No	Course Type	Subject Code	Course Title	Credit (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-1-2)	15	20	15	50	50	100
4.	PCC			5 (3-1-2)	15	20	15	50	50	100
5.	HMSC			4 (3-0-2)	15	20	15	50	50	100
6.	BSC			3 (3-0-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>25</b>						

**SEMESTER II**

Sr No	Course Type	Subject Code	Course Title	Credit (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PCC			4 (3-1-0)	30	20	-	50	50	100
2.	PCC			4 (3-1-0)	30	20	-	50	50	100
3.	PCC			5 (3-1-2)	15	20	15	50	50	100
4.	PCC			5 (3-1-2)	15	20	15	50	50	100
5.	PCC			4 (3-0-2)	15	20	15	50	50	100
6.	BSC			3 (3-0-0)	30	20	-	50	50	100
<b>Total Credits</b>				<b>25</b>						

### SEMESTER III

Sr No	Course Type	Subject Code	Course Title	Credit (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PCC			5 (3-1-2)	15	20	15	50	50	100
2.	PCC			5 (3-1-2)	15	20	15	50	50	100
3.	PCC			4 (3-0-2*)	15	20	15	50	50	100
4.	PCC			4 (3-1-0)	30	20	-	50	50	100
5.	PEC			4 (3-1-0)	30	20	-	50	50	100
6.	ISC			3 (0-0-6)	-	100	-	100	-	100
<b>Total Credits</b>				<b>25</b>						

\* During Practical hours students will do a Minor Project which may be extended as Major Project in Semester-IV

### SEMESTER IV

Sr No	Course Type	Subject Code	Course Title	Credit (L-T-P)	Sessional Marks				ESM	Total Marks
					MSE	TA	Lab	Total		
1.	PEC			4 (3-1-0)	30	20	-	50	50	100
2.	PEC			4 (3-1-0)	30	20	-	50	50	100
3.	PEC			4 (3-1-0)	30	20	-	50	50	100
4.	PRC			13 (0-0-26)	-	50	-	50	50	100
<b>Total Credits</b>				<b>25</b>						

#### 5(C) NSS TRAINING & UNIVERSITY STUDENT ACTIVITY COUNCIL (USAC) PROGRAMMES

The participation in any one activity group 'A' (NSS/Sports/ Cultural) and any one activity in group 'B' (Social & Print Media/ Technical/ Literary/ Hobby/ Photography/ Yoga) is compulsory (total two activity minimum) for all postgraduate students. These activities are meant for character building, physical fitness and sensitize the students towards social and national issues. The students are required to participate and complete the above activities up to first three semesters, although these activities carry no credit but the

student must have to obtain 'S' Grade for satisfactory performance in the above indicated activities in each semester and will be certified by the respective conveners of the councils/ clubs/ programmes, however the decision of DSW/ Chairman USAC will be final in case of any dispute.

## 6. GRADING SYSTEM AND ASSESSMENT PROCEDURE

### 6.1 Grading System

Student is evaluated out a maximum mark of 100 in each subject. On the basis of marks obtained by the student in the subject, grades shall be awarded as per the grading scheme presented in Table 2. On the basis of performance of the students in all the subjects offered during the semester, Semester Grade Point Average (SGPA) is calculated.

### 6.2 Evaluation Scheme

The evaluation of performance shall comprise of continuous assessment throughout the semester in the Mid Semester Examinations, End Semester Examinations, Attendance in class and Teacher Assessment through class work and Tutorials. Evaluation scheme is presented in Table 3 & 4 for different type of courses.

Table 2: Grading Scheme

Marks (Out of 100)	Grading Obtained	Grade Points	Description
90 and above	A+	10	Outstanding
80 and above to less than 90	A	9	Excellent
70 and above to less than 80	B+	8	Very Good
60 and above to less than 70	B	7	Good
50 and above to less than 60	P	6	Pass
Less than 50	F	5	Fail
	W		Withdrawn
	U		Short Attendance
	I		Incomplete
	S		Satisfactory in USAC Activities

### 6.3 Calculation of SGPA, YGPA and CGPA

The performance of a student shall be evaluated in terms of three indices; viz. the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester, Yearly Grade Point Average (YGPA) which is the Grade Point Average for a year and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point in time considered cumulatively.

Semester Grade Point Average (SGPA)

$$\text{SGPA} = \frac{\sum (\text{Total Credits of respective subject} \times \text{Grade Point earned in the subject})}{\text{Total Credits offered during Semester}}$$

Yearly Grade Point Average (YGPA)

$$\text{YGPA} = \frac{(\text{SGPA of odd Semester} \times \text{Total Credits of odd Semester}) + (\text{SGPA of even Semester} \times \text{Total Credits of even Semester})}{\text{Total Credits offered during the current year (odd \& even semester)}}$$

Cumulative Grade Point Average (CGPA)

$$\text{CGPA} = \frac{\sum (\text{SGPA} \times \text{Semester total Credits of all Semesters})}{\text{total credits of four Semesters}}$$

The CGPA is calculated on the basis of all passed courses with 'P and above grades'.

**For Training & Placement requirements, CGPA of the student up to his/ her recent completed semesters may be computed for reporting purposes.**

### 6.4 Award of Division

CGPA 7.500 or above	First Division with Honors
CGPA 6.500 or above	First Division
Below 6.500 CGPA	Second Division

### 6.5 Conversion of CGPA to Absolute Percentage

$$\text{CGPA} \times 10 = \text{Absolute Percentage}$$

**Table 3: Evaluation Scheme for Theory Courses & Theory cum Laboratory Courses**

Sr. No.	Course Title	Credits	Sessional Marks				ESM	Total Marks
			CT	TA	Lab	Total		
1.	Theory Course	4 (3-1-0)	30	20	-	50	50	100
2.	Theory cum Lab. Courses	5 (3-1-2)	15	20	15	50	50	100

**Table 4: Evaluation Scheme for Industrial Project Work**

Sr. No.	Course Title	Credits	Sessional Marks				ESM	Total Marks
			CT	TA	Lab	Total		
1.	Project (IV Semester)	13 (0-0-26)	-	50	-	50	50	100

**Project evaluation in IV Semester will be done by External Examiner.**

### 6.6 Make-up Examination

Students who are not able to appear in Mid Semester examination for genuine reasons such as hospitalization or representing the University for sports meet/ conference etc. are required to seek prior permission from their Head of Departments and Dean of the concerned school for grant of make-up examination. In case of hospitalization, a written intimation within 10 days of hospitalization is MANDATORY. The Make-up examination will be conducted one week before the End Semester examination and shall cover the whole syllabus.

### 6.7 Grant of Permission for Internship Abroad

In case, a student gets an opportunity for Internship / Industrial Project abroad for a period of six months after III semester, he/ she may be allowed to do so. In special cases, the students may be permitted to do industrial internship during III semester also subject to condition that the Industry/ Company where student need to do project/ internship has global presence and reputation. The student has to take responsibility of completing various theory courses of III semester or their equivalent courses as decided by the department, through MOOCs or any other online courses or remote mentorship of departmental faculty. In such cases, he/ she will have to appear in Mid/ End semester examination scheduled by the University. Verified attendance from the Industry/ Company concerned shall be counted for sessional purposes. The modalities/

grant of permission will be decided by the Vice-Chancellor on specific recommendation of Head of Department and Dean of School concerned.

## **7. CARRYOVER EXAMINATION**

Student with F grade in any subject shall be required to appear in the Carryover examination along with regular End Semester examination in the subsequent years. However, the sessional marks obtained by these students will remain the same as earned in the first attempt.

## **8. PROMOTION RULES & ACADEMIC CRITERIA FOR CONTINUATION (RE-ADMISSION & EX-STUDENTSHIP)**

**8.1** A candidate may be allowed for re-admission provided that he/ she satisfy the following conditions:

- (a)** A student must secure a minimum YGPA of 4.500 in current year in order to be promoted to next year. If a student fails to fulfill this requirement of 4.500 YGPA, he/she shall be considered fail and have to repeat the year by taking readmission in the same class paying full annual fee or opting for Ex-Student status as per clause 8.2.
- (b)** A candidate who failed to appear in a semester examination or he/ she was not granted permission to appear in the examination.
- (c)** A candidate who was debarred by the University and subsequently permitted to take re-admission.

**8.2** Students having minimum 75% attendance (60% with Medical/ Academic Leaves) in any (odd/ even) semester, shall be allowed to get registered as Ex-Student with following conditions:

- (a)** A candidate opting for Ex-Student will be required to register by paying examination fee within 15 days from the start of new session.
- (b)** A candidate opting for ex-studentship shall appear in all the theory and practical subjects in end semester examination of both semesters of the academic year. However, sessional marks of all the subjects including Industrial Training, Seminar etc. shall remain the same as secured earlier.

## **9. AWARD OF DIVISION, RANK AND MEDALS**

**9.1** A candidate who completes the course requirements for MCA programme securing 'P and above grades' in all the courses in the stipulated maximum duration for the B. Tech. programme shall be declared to have qualified for the award of degree subject to the fulfillment of the requirements of **Clause 8**.

**9.2** A candidate who qualifies for the award of the degree securing 'P or above grades' in all the subjects in his / her first attempt in six consecutive semesters and secures a CGPA of 7.5000 or above shall be awarded **FIRST DIVISION WITH HONOURS**.

**9.3** A candidate who qualifies for the award of the degree by securing 'P or above grades' in all the subjects in the stipulated maximum duration for the MCA programme and secures a CGPA not less than 6.500 shall be awarded **FIRST DIVISION**.

**9.4** All other candidates who qualify for the award of degree by securing 'P or above grades' in all subjects in the stipulated maximum duration for the MCA programme and secures a CGPA less than 6.500 shall be awarded **SECOND DIVISION**.

9.5 Best three performers in the programme of study will be awarded Certificate of Merit. It is mandatory for all such candidates to pass all the subjects in first attempt.

9.6 Following **Medals shall** be awarded annually by the University to the passing out students subject to completion of his/ her degree programme within stipulated two years from the date of admission without any carryover:

**Vice-Chancellor's Medal**

Students securing First, Second and Third highest CGPA at the end of four semesters in first attempt in MCA Programme will be awarded Vice-Chancellor's Gold, Silver and Bronze Medal respectively.

**10. REGISTRATION AND ENROLMENT**

10.1 The students must register at the beginning of each semester on the prescribed dates announced in the Academic Calendar, student till she/he completes her / his programme. If a student does not register in a particular semester, her / his studentship is liable to be cancelled. Without registration, any academic activity undertaken by a student without proper registration shall stand cancelled and not considered towards the fulfillment of requirements of her / his degree.

10.2 Registration should be carried out by the student himself / herself on stipulated date. A student is allowed registration for 10 working days including the date of registration with a fine of Rs.100 per day after which the student's name will be struck off from roll. Such students shall have to register at the start of next academic session.

10.3 Every student admitted shall have his/her unique Roll number. The roll number shall have nine digits/alphabets. First two digit shall indicate the year of admission; next two the degree programme; next two the branch of study, and last three digits the serial number of students. Every student shall be identified by this roll number throughout his stay in the University.

10.4 Students having any kind of outstanding dues to the University or hostel shall be permitted to register only after clearing the outstanding dues.

10.5 In-absentia registration may be allowed only in rare cases at the discretion of the Vice-Chancellor of the University in case of serious illness / natural calamities / unavoidable circumstances upon the recommendation of Dean of Academic Affairs .

10.6 Every student admitted and registered in the University shall be required to submit the enrollment form within one month of registration for getting enrolled with the University.

**11. TEMPORARY DISCONTINUATION FOR PROMOTION TO STARTUP ENTREPRENEURIAL ACTIVITIES**

This facility will be available to the students of the University for promoting Startup/ Entrepreneurial activities. Maximum period for discontinuation shall be limited to one year for MCA students. Such Students for completion of degree shall be allowed by the University for Campus Placement provided that she/ he shall apply for the same through Head of Department, Dean of School concerned, and Dean of Academic Affairs to the Vice-Chancellor in advance and obtain a written permission to this effect. Clause 3.4 of the ordinance shall be relaxed for such students who opt this facility.



## **12. USE OF UNFAIR MEANS**

- 12.1** If the student is found possessing unfair means in form of written document, mobile phone, electronic gadget such as Bluetooth Device, programmable calculator or using them in the Mid Semester examination and/ or the material recovered is relevant to the subject / paper, the Mid Semester examination of this subject will be cancelled and 'zero' marks will be awarded.
- 12.2** If the student is found possessing unfair means in form of written document, mobile phone, electronic gadget such as Bluetooth Device, programmable calculator or using them in the Mid Semester examination and/ or the material recovered is relevant to the subject / paper, in the End Semester examination and/or the material recovered is relevant to the subject / paper, the entire End Semester examination of this subject will be cancelled and 'zero' marks will be awarded in all the subjects of such semester.
- 12.3** In addition to either of the above charges, if a student is found misbehaving with the teachers / staff or creating indiscipline in the examination premises, such student will be rusticated from the University for one year.
- 12.4** For the cases not covered in above para '12.1 to 12.3', the Chairman, Board of examination of the University will recommend the punishment on case to case basis and obtain approval of the Vice-Chancellor in accordance with the clause of 37.8 of the University Act.

## **13. CHALLENGE EVALUATION, AWARD OF MARKS AND ELIGIBILITY OF TEACHERS FOR RE-EVALUATION:**

### **A. Challenge Evolution**

- a.** Challenge Evaluation of answer script will be carried not only for the latest semester whose result has been declared.
- b.** The students of all MCA, Courses appearing for the University examinations are eligible to apply for re-evaluation of answer scripts in all theory subjects.
- c.** There will be a single notification inviting application form the students, to apply for Challenge Evaluation of Answer Scripts mentioning the last date.
- d.** Students may apply for Challenge Evaluation by paying the requisite fee of Rs. 5000 (Rs. Five Thousand only) per subject. This fee may vary in future decided by the University. After the last date, additional time may be granted, subject to the approval from the competent authority. However, under such case, student will have to pay a late fine (non-refundable) for applying for Challenge Evaluation as decided by the University from time to time.
- e.** A student cannot apply Challenge Evaluation of answer scripts in the subject other than the THEORY subject.
- f.** After the last day of application for challenge evaluation, the Controller of Examination Office shall initiate the process of challenge evaluation as per the procedure detailed hereunder:
  - i.** Each answer script marked for Challenge Evaluation will be revaluated by two evaluators.
  - ii.** After the re-evaluation, if the difference between the marks awarded by the two re-evaluators is more than 20% of maximum marks of that subject, then such scripts shall be evaluated once again by a third examiner (who has not evaluated the script in the first re-evaluation).

## B. Award of Marks after Re-evaluation

- i. If the average marks of two re-evaluators after re-evaluation is higher/lesser than the original marks, the re-evaluation marks shall be awarded to the student in that subject.
- ii. In case of re-evaluation as discussed in section 16.F (ii) marks to the student shall be awarded in following manner:

### Case-I

If the difference of marks awarded by two re-evaluators is more the 20% of maximum marks for a given subject, and the answer script is reevaluated by a third examiner, average of Two Nearest Marks shall be awarded.

First re-evaluation Marks	Second re-evaluation Marks	Difference between I & II re-evaluator	Third re-evaluator Marks	Final Marks after Re-evaluation
15	40	>20%	48	44
25	28	≤20%	Not. Reqd.	27

### Case: II

First re-evaluation Marks	Second re-evaluation Marks	Difference between I & II re-evaluator	Third re-evaluator Marks	Final Marks after Re-evaluation
19	40	>20%	59	50

## C. Eligibility of Teachers for Re-evaluation:

**The faculty members who will be evaluating the script during re-evaluation must possess minimum five years of teaching experience and have experience of teaching that subject. If required, expert examiners from other University/ Institutions may also be appointed as re-evaluators.**

## 14. GENERAL ELIGIBILITY FOR AWARD OF MCA DEGREE

A student shall be declared to be eligible for award of the MCA Degree if he / she has:

- a. Registered and successfully passed all courses/subjects of the particular program with "P" and above grades' with a minimum CGPA of 6.000 or above at the end of programme with all other requirements of the programme as prescribed in the Ordinance or as prescribed by the University from time to time.
- b. Completed the requirement of USAC activities i.e. NSS and Games and Sports, Cultural / Literary activities etc.
- c. Has no dues to the University, Hostels, Library and USAC etc., and
- d. No disciplinary action is pending against the student.

**15. STUDENT DISCIPLINE**

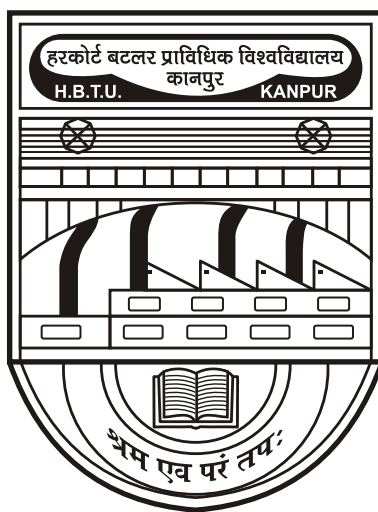
All the students who seek admission will have to abide by the discipline norms of the University and follow conduct or discipline rules/anti ragging measures in the University in case of any act of indiscipline demonstrated by the student, the student shall be liable for punishment. On the recommendations of proctorial board, punishment may be awarded in terms of suspension for the semester, expulsion form the hostel, withholding results, scholarships or other benefits, barring from placement facility and/or termination form University. The decision of Vice-Chancellor shall be final and binding.

**15. POWER TO MODIFY**

Not with standing all that has been stated above, the Academic Council of the University has the right to modify partly or completely the provisions of above Ordinances with the approval of the Executive Council. Under extreme exceptional circumstances arising out of certain inconsistency in the Ordinance or otherwise, the Vice-Chancellor can take suitable decision in deference to the laid down provisions, provided standard of evaluation is not compromised and the same shall be reported to the ensuing Academic Council/Executive Council with suitable justification. Such actions of the Vice-Chancellor shall not be treated as precedence under any circumstance.

**ORDINANCES**  
**FOR**  
**DOCTOR OF PHILOSOPHY PROGRAMME**

**(Effective from the session 2019-20 for new entrants)**



**HARCOURT BUTLER TECHNICAL UNIVERSITY**  
**KANPUR-208002 (UP) - INDIA**

**(Revised October, 2019)**

## **First Ordinances**

In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, these are the first Ordinances for Harcourt Butler Technical University, Kanpur:

### **1. INTRODUCTION**

Short Title, Commencement and Definitions

- 1.1** These Ordinances shall be called the First Ordinances, 2017 of Harcourt Butler Technical University, Kanpur.
- 1.2** They shall come into force from session 2017-18 for new entrants.
- 1.3** Anything contained in Ordinances in violation to provisions of Act shall be void, and the provisions of Act shall prevail.
- 1.4** In these Ordinances, unless the context otherwise requires,
  - a) 'Act' means the Uttar Pradesh Harcourt Butler Technical University Act, 2016 as amended from time to time.
  - b) 'Section' means a section of the Act.
  - c) 'Clause' means a clause of the Ordinances.
  - d) 'University' means the Harcourt Butler Technical University, Kanpur.
- 1.5** Words and expression used herein but not defined in the Act shall have the same meaning as assigned to them in the Act.
- 1.6** The admission of students, eligibility to various courses of study, qualifications, attendance, registration, course structure, grading system, award of degrees, certificates, medals and other academic distinctions are covered in these Ordinances.
  - a) The 'University' may start other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives. The Ordinances for the same shall be as prescribed by the Academic Council and the Executive Council.
  - b) The 'Courses of Study' shall be as prescribed by the Academic Council and approved by the Executive Council.
  - c) Fellowships and Awards shall be instituted as per the requirements with approval of the Vice Chancellor under intimation to the Academic Council and the Executive Council.
- 1.7** The University should maintain the list of all Ph.D. registered students on its website. The list should include name of the candidate, topic of research, department, supervisor and fellowship information as per UGC requirement.
- 1.8** The Ordinances shall follow the guidelines and regulations of UGC from time to time.

### **2. ADMISSIONS TO PhD PROGRAMMES**

- 2.1** Various Departments of University offer Ph.D. Programme in different disciplines. The provisions of these regulations shall be applicable to all new programmes as and when introduced.

## Department Offering PhD Programmes

### a) School of Engineering

Department of Computer Science and Engineering  
Department of Civil Engineering  
Department of Electrical Engineering  
Department of Electronics Engineering  
Department of Mechanical Engineering

### b) School of Chemical Technology

Department of Chemical Engineering  
Department of Biochemical Engineering  
Department of Food Technology  
Department of Oil Technology  
Department of Paint Technology  
Department of Plastic Technology  
Department of Leather Technology

### c) School of Basic and Applied Science

Department of Chemistry  
Department of Physics  
Department of Mathematics

### d) School of Humanities and Social Science

Department of Humanities

**2.2** Admissions to Ph.D. programme shall be made through an Entrance Examination conducted by the University (as prescribed in clause no. 5.1 of UGC Regulations 2016). Entrance Examination comprises of Written Test (weightage: 70%), and Interview (weightage: 30%). Candidates securing a minimum of 50% marks in written examination will qualify for Interview. Students who have qualified UGC-NET /JRF in their relevant disciplines with eligibility for Fellowship will be exempted from the Written Test. **Candidates qualified for the Ph.D. programme will have to deposit fee after submission of consent within a week from the Supervisor/Head of Department/Dean of School.**

**2.2.1** The candidates qualifying Ph.D. Entrance Examination in any department of School of Basic and Applied Sciences **fulfilling the eligibility criteria as mentioned in Table 1** will be eligible for admission to Ph.D. programmes of any department of School of Chemical Technology / Engineering. In such cases, the supervisor and place of work will be from the respective department of the School of Chemical Technology / Engineering and the degree awarded will be in the Applied Chemistry /Applied Physics / Applied Mathematics. The number of such seats shall be additional to the existing available seats of the School of Basic and Applied Sciences. **There will be a separate RDC for Applied Chemistry/Applied Physics/Applied Mathematics for such candidates.**

**2.2.2** The University shall notify well in advance on its website and through advertisement in one national newspaper and one regional language newspaper **regarding** details of the number of seats for admission, procedure of admission, subject / discipline wise distribution of seats, category-wise reservation and all other relevant information for the benefit of the candidates. (Clause no. 5.2.2 of UGC Regulation 2016)

**2.2.3** Admission shall be based on merit and as per specific criteria notified by the University keeping

in view the guidelines / norms in this regards issued by UGC and other statutory bodies will be applicable (Clause no. 5.3 of UGC Regulation 2016)

- 2.3 The reservation in Ph.D. admissions shall be governed as per U.P. State Government rules.
- 2.4 If, at any time after admission, it is found that a research scholar has not fulfilled any of the requirements stipulated in the eligibility criteria; or has used some fraudulent means to obtain admission, then the university reserves the right to revoke the admission of the research scholar.
- 2.5 **Admission of a candidate from any other University to Harcourt Butler Technical University on migration shall not be permitted.**
- 2.6 Candidates who possess Master degree in Engineering/ Technology/ Basic Sciences/ Computer Application / Computer Science /Management/ Humanities / Social Sciences or Equivalent or as prescribed by the University in the relevant discipline with requisite CGPA /percentage listed in Table 1 are eligible for the admission to Ph.D. programmes of the University.

**Table 1: Eligibility Criteria for Admission to various PhD Programme**

Sl. No.	Departments/Schools	Minimum Eligibility Criteria
1.	All Departments under School of Engineering	(i) M. Tech. / M. E. Degree in relevant discipline with a minimum of 60 % marks or equivalent CGPA/CPI <b>OR</b> (ii) Candidates having B. Tech. degree with minimum 70% marks with 2 years professional experience <b>OR</b> (iii) MCA degree with a minimum of 60 % marks or equivalent CGPA/CPI for MCA stream (Eligible for pursuing PhD in Computer Sciences &Engineering and Information Technology only)
2.	All Departments under School of Chemical Technology	(i) M. Tech. / M. E. degree in relevant discipline with a minimum of 60 % marks or equivalent CGPA / CPI. <b>OR</b> (ii) Candidates having B. Tech. degree with minimum 70% marks with 2 years professional experience <b>OR</b> (iii) Candidates with M. Sc. degree with minimum 60% marks in Chemistry/ Industrial Chemistry/ Applied Chemistry / Bio Technology or equivalent
3.	All Departments under School of Basic and Applied Sciences	M. Sc. degree in relevant discipline with a minimum of 60 % marks or equivalent CGPA / CPI
4.	All Departments under School of Humanities and Social Sciences	Master degree in relevant discipline / subject with a minimum of 60 % marks or equivalent CGPA / CPI

**A relaxation of 5% marks in minimum qualifying marks is permissible (without grace marks) to candidates belonging to SC/ST category for admissions to Ph.D. programmes.**

- 2.6 Essential qualification and procedure for applying requirements for the admission to Ph.D.degree programme under Quality Improvement Program (QIP) for in-service candidates will be as prescribed by rules in QIP scheme of MHRD, Govt. of India.
- 2.7 Regular faculty member of the University with a minimum of three years teaching experience shall be exempted from written test.

## **2.8 Category of Research Scholars**

### **2.8.1 Full-Time Scholar**

Research scholars of this category will have to work on Full time basis to pursue their Ph.D. They will be eligible to receive assistantship / scholarship from the University, or any other recognized funding agency as per the rules. Scholarships may be available for minority community as per State/Centre Government norms subject to the approval of competent authority. In case of non-availability of financial assistance to a candidate, one will have to meet the expenditure of pursuing his/her research work on self-finance basis. The grant of financial assistance from any source does not entitle the candidate from exemption of tuition fee and other prescribed fee to the University, unless such exemption is specifically granted in the assistance scheme and the fee as applicable are provided to the University by the agency extending financial support to the candidate.

### **2.8.2 Sponsored Scholar**

Research scholars in this category are sponsored by recognized R&D organizations, academic institutions, government organizations, research laboratories or industries for pursuing Ph.D. programme in the University on Full time basis. Such students will be required to submit a Sponsorship Certificate from their respective organizations along with their GPF / CPF/EPF contribution proof. The University shall neither provide any assistantship/ scholarship to such research scholars nor exempt them from University fee and other expenses for pursuing research work. The due amount of University fee and other expenses shall be remitted by the sponsoring organization to the University. Research scholars under this scheme shall be treated as Full-time candidates. In principle, the University should not sponsor University staff/ faculty under this category.

### **2.8.3 Part-Time Scholar**

The candidates working in research centers recognized by the University, regular/ contractual faculty members of this University /employees working in government/ government aided / private engineering colleges / universities / industries / public sector organizations shall be considered for the admission under this category if their organization is situated within 100 km distance from HBTU Kanpur. All such candidates have to submit no objection certificate from their employer at the time of interview. Eligible faculty / staff members of the University shall be treated as Part-Time research scholars. **Regular faculty members/employees of the University have to deposit full fee. However the fee may be reimbursed either from a project or any other funding agencies/research projects as per norms.**

### **2.8.4 QIP Scholar**

QIP scheme of MHRD provides opportunities to faculty members of the degree level engineering institutions to enhance their qualifications by admitting them to Ph.D. degree programmes. Research scholars under this scheme shall be treated as Full time candidates.

## **3. Ph.D. SUPERVISOR**

**3.1** Regular faculty members of the University holding Doctorate degree with two research publications in refereed journals are eligible for supervising research scholars. (Clause no. 6.1 of UGC Regulation 2016)



- 3.2 There can be maximum two supervisors as per UGC guidelines (Supervisor-I and Supervisor-II). Supervisor-I must be from the department of HBTU, Kanpur which is the student's place of work. However, Supervisor-II may be from the same or from the other department of the University or from outside of the University in case of collaborative research with other University (National/International).
- 3.3 Professors may supervise a maximum of eight, Associate Professors six while Assistant Professors four PhD scholars.(Clause no. 6.5 of UGC regulations 2016).
- 3.4 Status of Supervisor after Retirement, Leave, Resignation etc.
- 3.4.1 A Supervisor who has guided a research scholar for a period of three years will be permitted to continue as Supervisor on retirement on his expressed consent.
- 3.4.2 In such cases, a regular faculty will be appointed as Alternate Supervisor by RDC with the approval of the Vice Chancellor for taking care of research and administrative responsibilities.
- 3.5 In case, a Supervisor goes on leave for more than one year duration or resigns, Ph.D scholar will be allotted a new Supervisor by RDC with due approval from the Vice Chancellor.
- 3.6 In case, a Supervisor declines to supervise a research scholar, another Supervisor from HBTU, Kanpur who is actively engaged in the same area of research may be appointed by the RDC on the recommendation of the Head of Department and the Dean of the concerned School.
- 3.7 A research scholar admitted under Part-time category carrying out a part or full of his / her research work in parent industry / organization / national laboratories will have a Supervisor-II from his / her own organization. Only Ph.D. degree holder scientists / engineers having a minimum of five year experience in relevant area of research may be appointed as Supervisor-II in such cases.
- 3.8 **The Vice Chancellor may allow a change in the supervisor under unavoidable circumstances on the recommendation of Head of Department/Dean of Schools.** In such cases thesis submission will be allowed only after a lapse of six month time from the date of the change.

#### 4. RESEARCH DEGREE COMMITTEE AND ITS FUNCTIONS

##### 4.1 Constitution of Research Degree Committee (RDC)

The Research Degree Committee (RDC) shall be formed for each Department / subject as per the provisions of University / UGC norms (UGC Regulations 2016). The constitution of RDC shall be as follows :

1	The Vice Chancellor or <b>his nominee</b>	Chairman
2	Dean of Research and Development or Associate Dean R&D	<b>Member-Secy.</b>
3	Dean of the concerned School	Member
4	Two subject experts having Doctoral degree or <b>equivalent in cadre</b> in the related area, preferably Professor/Associate Professor from outside universities to be nominated by the Vice Chancellor	Member
5	Head of the concerned Department	Member
6	Supervisor of the concerned student	Member

In case Head of Department is a non-Ph.D., a Professor / Associate Professor from the Department / School with a Ph.D.degree may be nominated to RDC by Dean of concerned School duly approved by the Vice Chancellor.

**4.1.1** The meeting of RDC shall be 02 times in one Academic Session and the tenure of the RDC shall be of two years or as per the University / UGC guidelines.

**5. Ph.D Course Work**

**5.1 Research Scholar with M.Tech. Degree should pass 04 (four) courses (including the compulsory course) of a minimum of 12 credits. A research scholar with B Tech/M.Sc. degree is required to pass 06 (six) courses (including the compulsory course) of a minimum of 20 credits (As per clause no.7 of UGC Regulations, 2016).**

**5.2 Research Methodology** is a compulsory course with 4 credits for all the research scholars. Other courses should be advance courses related to research methods, computer application and review of published researches in relevant field, training, field work, etc. meant to prepare the students for Ph.D Degree.

**5.3** Students should complete the course work as follows :

**Details of Course work requirement**

Sl.No.	Research Scholar	Minimum courses required	Compulsory course
1	Research scholars with M.Tech. Degree in respective discipline / subject	4 courses of a minimum of 12 credits	Research Methodology
2	Research scholars with B.Tech./M.Sc. Degree	6 courses of a minimum of 20 credits	Research Methodology

**5.4** Candidates already holding M. Phil. degree and admitted to Ph.D.programme may be exempted by RDC from the PhD course work (Clause no. 7.6 of UGC Regulation 2016)

**5.5** As per the provisions in Clause 7.7 of UGC Regulation 2016, a certificate of completion of all Ph.D. courses shall be issued to the research scholar by Dean, R&D after due approval / confirmation by RDC. This will be a pre-requisite of PhD thesis submission.

**5.6** A Ph.D. scholar has to obtain a minimum 'P' Grade or above (Grade point 6 or above) in each subject as applicable for M. Tech. programme in order to be eligible to submit the thesis.

**5.7** The duration of PhD course work shall be two semesters as per UGC regulations 2016. However, the students may be allowed to complete the courses in four semesters if requested.

**5.8** The Ph.D. scholars may be allowed to do PhD course work in their respective departments and / or own university and / or Central Technical Institutions (IITs, IIMs, NITs, IIITs etc.) and / or Central /State Universities and / or State Govt. Technical Institutions and / or online such as NPTEL, MOOCs, SWAYAM and / or any other research organizations as approved by RDC.

**5.9 Prescribed courses, attendance norms, evaluation scheme, rules for unfair means, challenge evaluation etc. shall be as per the University norms applicable to Postgraduate programmes of the University.**

**5.10** No change in approved courses shall be allowed without the approval of the RDC.

## 6 PROGRAMME DURATION

- 6.1 The Full-time PhD programme shall be of a minimum of three years duration and a maximum of six years.
- 6.2 Part-time / Sponsored Ph.D programme shall be of a minimum duration of four years and maximum of six years.
- 6.3 The extension of programme duration beyond the stipulated time mentioned in 6.1 and 6.2 may be a maximum of one year after the due approval from RDC. **The research scholar will have to pay full annual fee in case of extension due to pending course/lab work otherwise if a candidate has completed his/her all requirements for research work and only writing work is in progress then no fee will be charged.**
- 6.4 Women Ph.D scholars and the scholars with disability (PH/PwD) may be allowed additional relaxation of two years for Ph.D (Clause no. 4.4 of UGC Regulation 2016).

## 7 REGISTRATION AND ENROLMENT

- 7.1 PhD scholars are required to register at the beginning of each Semester as per academic calendar of the University.
- 7.2 Registration should be carried out by the student himself/ herself on stipulated dates. A student is allowed registration for 10 working days including the date of registration with a fine of Rs.100 per day. Student will not be allowed registration after stipulated date. Such students shall have to register at the start of next academic session.
- 7.3 Students having outstanding dues to the University or hostel shall be permitted to register only after clearing the dues.
- 7.4 In-absentia registration may be allowed only in rare cases by the Vice Chancellor in case of serious illness/ natural calamities / unavoidable circumstances upon the recommendation of Dean of Academic Affairs.
- 7.5 All the students admitted and registered in the University are required to submit the Enrolment Form within one month of registration. Non-compliance will lead to cancellation of admission.
- 7.6 No scholar is allowed to concurrently registers for any other Postgraduate/ Research degree at some other University/College/Organization. Admission will be terminated in all such cases.

## 8 ATTENDANCE

- 8.1 All Ph.D scholars registered under Full-time as well as Part-time programmes including Sponsored candidates are required to be present for research work with Supervisor in the concerned Department for a period of 200 working days.
- 8.2 All Full-time Ph.D. scholars with or without fellowship / scholarship are required to sign in attendance register in the Department on each working day.
- 8.3 All Full-time Ph.D. scholars with or without scholarship / fellowship are required to frequently contact the Supervisor in relation to research work.
- 8.4 **All full time Ph.D. scholars with scholarship/fellowship are required to take 8-10 hours/week for theory/practical classes as assigned by Head of Department**
- 8.5 All Part-time Ph.D. scholars are required to produce a certificate before RDC from the Supervisor (s) indicating their presence in Department for a minimum of 25 days for research work during the Semester.

- 8.6 There is no summer or winter vacation for the research scholars.
- 8.7 Leave rules for Full time Ph.D scholars with or without fellowship / scholarship shall be as per the University/UGC rules.

## **9 RESEARCH PROGRESS ASSESSMENT**

- 9.1 After registration, every research scholar is required to start the research / literature survey along with Ph.D. course-work and preparing Ph.D. synopsis. First RDC shall approve the course-work, supervisor(s) and broad research area of the scholar.
- 9.2 Research scholar is required to present the detailed synopsis in the second RDC meeting. Every research scholar is required to present research progress before the RDC for evaluation.
- 9.3 If the performance of the scholar is found to be unsatisfactory by the RDC for three consecutive times, his / her admission may be terminated.
- 9.4 In case of any dispute, the decision of RDC shall be final and binding to all.
- 9.5 Every registered PhD scholar including Part-time scholar is required to present his / her monthly research progress in the Department before a Committee consisting of all faculty members of the Department. Monthly assessment report of each scholar shall be maintained by the Supervisor and the Head of the Department.
- 9.6 For the assessment of research progress of Ph.D. scholars the remarks of RDC, progress reports etc., a meeting of RDC shall be centrally convened by the Dean Research and Development.

## **10. THESIS SUBMISSION & EVALUATION**

- 10.1 Research scholars will have pre-submission presentation of Ph.D. thesis before the RDC after fulfilling the following conditions:
- a) Certificate of completion of Ph.D. course works.
  - b) Candidates should have at least one publication in refereed journals in SCI/SCOPUS/UGC/INDEXED or other peer-reviewed journals as prescribed by UGC/AICTE and two research papers in Conferences. (Clause No. 9.4 of UGC regulations, 2016)
  - c) A Certificate of Plagiarism–Testing as issued by Department Academic Integrity Panel (DAIP). The maximum limit for plagiarism for the acceptance of Ph.D thesis is as prescribed by UGC. The Dean R&D will issue notification time-to-time in this regard.
- 10.2 Ph.D. thesis submitted by research scholar shall be evaluated by at least two External Examiners who are not in the employment of the University, out of which one of the External Examiner is from abroad. The Viva-voce will be conducted on receipt of favorable Thesis Evaluation Report from the Examiner. The Viva-voce will be conducted by a Board consisting of one of the External Examiners, Supervisor of the student, Head of the Department and One member of RDC nominated by the Vice Chancellor. The Thesis Defense by the research scholar shall be open to all faculty members and research scholars of the Department. (Clause no. 9.7 of UGC regulations 2016)
- 10.3 For the appointment of External Examiners for evaluation of Ph.D. thesis, the Supervisor will recommend a panel of 06 Examiners (03 from Central Technical Institutions, Central Universities, Institute of National Importance, State Technical Institutions, State Universities, Approved Govt. Research Organizations and 03 from Foreign Universities and Foreign

Research Organizations). The same be submitted to the Vice Chancellor for approval and appointment of Examiners by the Controller of Examination.

- 10.4 The research scholar shall submit his/ her thesis within six months from the grant of approval of thesis submission by the RDC. Three Spiral bound copies along with thesis summary are required to be submitted with a soft copy (PDF format). All copies of the thesis duly signed by the supervisor(s). The thesis copy need to be forwarded by concerned Head of the Department and Dean of School are to be sent to the Controller of Examination with intimation to Dean R&D. RDC may grant additional time for the thesis submission beyond three months (but not more than six months) on the request of the research scholar.
- 10.5 The PhD thesis shall strictly be on the format prescribed by the University and must contain the Copyright as “©Harcourt Butler Technical University, Kanpur–208002, (U.P.) INDIA, All rights reserved”
- 10.6 On the receipt of requisite copies and summary of the thesis, the Controller of Examination will send a formal offer letter and E-mail to the External Examiner in order of preference from the panel as approved by the Vice-Chancellor for acceptance to act as Examiner. After receiving the consents, thesis will be sent to two Examiners along with relevant documents, either in form of hard copy (through registered/speed post) or a soft copy (through e-mail) or via both modes as per the consent given by the Examiner. A complete record of E-mails, postal correspondences, phone numbers etc. shall be maintained by the Office of Controller of Examination. In case of refusal, the next External Examiner in the order of preference will be approached. All correspondences/ notifications in regard to thesis evaluation and viva-voce examination of the scholar (except where stated otherwise) shall be done by the Controller of Examinations. All correspondence shall be confidential, except the correspondence with the research scholar and general circulars/ notifications.
- 10.7 In order to avoid any delay in the thesis evaluation process, electronic mode e.g. e-mail route shall be used for obtaining consent of the Examiner and sending a soft copy the thesis (in PDF format). Thesis Evaluation report received in soft scanned copy with signature and seal may be accepted if hard copy is not received.
- 10.8 Non-receipt of the thesis report from anyone of the two Examiners in a period of three months from the date of dispatch, two reminders will be dispatched (immediately with a gap of one month). If no response is received, thesis will be sent to the next Examiner listed in the panel. Before correspondence with another External Examiner, the original External Examiner must be informed by the Controller of Examination about the cancellation of his / her appointment as Examiner.
- 10.9 Copy of reports of both the Examiners shall be presented by the Controller of Examination to Dean R&D for records and further processing, if any. There may be four possible situations arising out of the nature of the reports. The steps to be taken appropriate to the circumstances are laid down as under :
  - 10.9.1 The Examiners are unanimous in recommending the Final Defense / Viva-voce Examination without any modification in the thesis, Viva-voce in such cases shall be scheduled and duly notified by Controller of Examination in consultation with External Examiner and the Supervisor.
  - 10.9.2 The External Examiners are unanimous in recommending Final Defense / Viva-voce Examination, but one of the Examiners has suggested minor modifications and / or asked for clarifications. The candidate in that case shall make modifications and provide the clarifications

as suggested with a certificate from the Supervisor about the compliance in a stipulated time frame to the Controller of Examination. These modifications / clarifications may be sent to the Examiner, if so asked. After the compliance is ascertained, the Viva-voce Examination shall be scheduled and duly notified for Final Defense by the Controller of Examination in consultation with External Examiner and the Supervisor.

- 10.9.3** One of the External Examiners rejects the thesis, while other External Examiner gives a favorable report. The matter shall be referred to RDC which may either ask the candidate to modify the thesis as suggested within a given time frame not exceeding a period of six months and send the modified thesis to the Examiner or may recommend to the Vice Chancellor to appoint another External Examiner for thesis evaluation.
- 10.9.4** Both the External Examiners reject the Thesis. Such cases will be reviewed by the Research Degree Committee (RDC) which may permit submission of a revised thesis on additional payment of the prescribed fee (which will be equal to the fees deposited earlier as thesis submission fee). Research Degree Committee may fix a time frame which shall not be less than one year from the date of grant of such permission. If RDC does not recommend for reconsideration, the candidate will be declared 'failed' and his/her registration shall be cancelled. The observations and comments of the Examiners, if any, shall be provided to the Supervisor. No resubmission of the thesis without modification on the lines of criticism made by the earlier Examiner be allowed. The revised thesis shall be referred for evaluation as per prescribed procedure. New Examiner will be provided with copies of earlier Thesis, Thesis Evaluation Reports and details of changes made in addition to the revised thesis. Examiners need to respond specifically to the observations of the earlier Examiner and the changes made by the student before re-submission. Second time rejection will lead to termination of admission.
- 10.9.5** Once the reports of the Examiner have been accepted as 'satisfactory', the candidate will be allowed Viva-voce Examination. One of the Examiners of the thesis will be invited as an External Examiner for PhD Thesis Defense. The Viva-voce Examination will be open to all the faculty members of the concerned Department. The evaluation, however, will be done by the Viva-voce Board comprising of External Examiner, one member of the RDC to be nominated by the Vice Chancellor along with the Supervisor(s) and Head of the concerned Department. The Evaluation Report is to be submitted by the Viva-voce Board to the Controller of Examination. Its outcome could be as given below:

**Outcomes of Final Viva-voce Examination**

Sl. No.	Evaluation report of Viva-voce Examination	Remark
1	Satisfactory	Recommendation for AWARD of Ph.D. degree by the competent authority. Provisional Degree Certificate (PDC) is issued by the Controller of Examination (CoE) after acceptance and approval of the Evaluation Report of Viva-voce Board by the Vice-Chancellor. <b>The date of university notification shall be the date of award of PhD degree.</b> PhD Degree shall be awarded in the convocation.
2	Unsatisfactory	Re-appear for Thesis Defense after alapse of three months as scheduled and notified by Controller of Examination after due recommendation.

**10.9.6** On successful completion of the Thesis Viva-voce Examination, the student is required to submit three copies of the final revised thesis in hard bound form and a soft copy of thesis after incorporating suggestions of Viva-Voce Board, if any which will be archived in University Library and National Repository as per the prescribed format. One copy of thesis should be kept in Office of Controller of Examination for records.

## **11. OTHER IMPORTANT ISSUES**

### **11.1 Change of registration from Full-time to Part-time Ph.D. programme**

**11.1.1** A student admitted to a Full-time PhD programme may be permitted to change to a Part time programme. A student requesting for such a conversion must have completed the course work successfully appeared in at least four RDC meeting with satisfactory performance and have completed a minimum of 03 years of duration as full time regular candidate. Such request may be forwarded by the Supervisor(s) and the HoD, with recommendations of Dean of School and Dean R&D for approval from Vice Chancellor. Student is also required to produce No Objection Certificate from the Head of the institution/organization which he/she proposes to join, in case he/she is changing his/her workplace from remaining period for completion of research work.

**11.1.2** Such conversion approved by the RDC will have following conditions:

- (a) The student must complete his/her thesis with in a deadline governed by Clause 6.3 counted from the date of his/her first registration in the programme.
- (b) Provision of conversion from Full-time to Part-time status can be availed only once during the programme.

### **11.2 Termination from Ph. D. programme**

Registration of a research scholar shall be cancelled in any one of the following eventualities after due approval from the Vice Chancellor:

- (a) If a student absents for a continuous period of three months without prior intimation/ proper sanction of leave.
- (b) If a student requests for cancellation of registration from the PhD programme and the request is duly recommended by the Supervisor/Head of the Department.
- (c) If academic and research progress of the student is not satisfactory and the RDC recommends for cancellation.
- (d) If all the prescribed courses by RDC are not successfully completed by student in stipulated time.
- (e) If student is found involved in an act of misconduct and/or indiscipline and his / her termination has been recommended by the competent authority.

### **11.3 GENERAL ELIGIBILITY FOR THE AWARD OF Ph.D. DEGREE**

A research scholar shall be declared eligible for award of the PhD degree if, He/she has,

- (a) Registered and successfully completed all the assigned Ph.D. courses, thesis and other requirements of the programme as prescribed in the Ordinance;
- (b) No dues to the University, hostels, libraries etc.
- (c) No disciplinary action is pending against him/her.

#### **11.4 UGC REGULATIONS**

UGC regulations will prevail in case of any ambiguity or dispute.

#### **11.5 STUDENT DISCIPLINE**

All the students who seek admission shall have to abide by the discipline norms of the University and follow conduct or discipline rules/Anti-ragging measures in the University. In case of any act of indiscipline demonstrated by any of the student, he / she shall be liable for punishment. On the recommendation of Proctorial Board, the punishment may be in terms of suspension for the semester, expulsion from the hostel, barring from the placement facility and/or termination from the University. The decision of the Vice Chancellor shall be final and binding.

#### **11.6 POWER TO MODIFY**

Not with standing all that has been stated above, the Academic Council has the right to modify partly or completely the provisions of above Ordinances with the approval of the Executive Council. Under extreme exceptional circumstances arising out of certain inconsistency in the ordinances or otherwise, The Vice Chancellor can take suitable decision in deference to the laid down provisions, provided standard of evaluation is not compromised and, the same shall be reported to the Academic Council and Executive Council with suitable justification. Such actions of the Vice Chancellor shall not be treated as precedence under any circumstances.



### 3. HOSTEL & MESS FACILITIES

#### 3.1 Hostels for Boys & Girls

East Campus of the University mainly has administrative and academic department buildings. It also has hostels for boys of First year – two hostels namely – Shridhracharya Hostel and Shri Ramanujam and six hostels for girls namely – Alaknanda, Mandakini, Gangotri, Bhagirathi, Yamuna and Saraswati. Six hostels are available for senior boys in the West Campus namely- Abdul Kalam, Vishweshwaraya, Raman, Vishwakarma, Ambedkar and Aryabhata hostel. Details of seats available in different hostels are listed below:

#### Girls Hostels

1. Alaknanda Hostel (GH-I)	Triple seated	108 seats
2. Mandakini Hostel (GH-II)	Triple seated	105 seats
3. Gangotri Hostel (GH-III)	Triple seated	111 seats
4. Bhagirathi Hostel (GH-IV)	Single seated	110 seats
5. Kaveri Hostel (GH-V)	Single seated	204 seats
6. Saraswati Hostel (GH-VI)	Single seated	36 seats

#### Boys Hostels

7. Shridhracharya Hostel (LV-Old)	Double/Triple seated	160 seats
8. Shri Ramanujam Hostel (LV-New)	Double/Triple seated	200 seats
9. Abdul Kalam Hostel (WCH-I)	Single seated	180 seats
10. Vishweshwaraya Hostel (WCH-II)	Triple seated	162 seats
11. Raman Hostel (WCH-III)	Single seated	180 seats
12. Vishwakarma Hostel (WCH-IV)	Single/Triple seated	400 seats
13. Ambedkar Hostel (D.B.R.A.-I)	Triple seated	105 seats
14. Aryabhata Hostel (D.B.R.A.-II)	Triple seated	105 seats
15. Vivekanand Hostel (Under Construction)-		100 seats

At present, a total of 1492 boys (in 08 hostels) and 674 girls (in 06 hostels) may get University accommodation. All the First year students may not get hostel accommodation. Hence, accommodation is allotted on the basis of merit.

#### 3.2 Hostel Fees and Mess Charges

Sr. No.	Head	Amount
1.(a)	Hostel fee	24,000/-*
	Hostel Caution Money One time(Refundable)	1,000/-
	(Total charges for East Campus Hostel Residents)	25,000/-
1.(b)	Hostel fee	24,000/-*
	Hostel Caution Money One time(Refundable)	1,000/-
	(Total charges for West Campus Hostel Residents)	25,000/-
2.	Mess Advance	36,000/-**

### **\*Distribution of Funds**

<b>A.</b>	Accommodation charges	4,000/-
<b>B.</b>	Hostel electricity & water charges	7,500/-
<b>C.</b>	Utensil & Crockery charges	250/-
<b>D.</b>	Hostel maintenance charges	2,500/-
<b>E.</b>	Hostel security personals charges	6,000/-
<b>F.</b>	Ward Boys Charges	3,500/-
<b>G.</b>	Hostel electric, electronic, fire appliances & their maintenance charges	250/-

*\*\* Mess Advance Charges of Rs.18000.00 will be deposited in respective hostel account in addition to the above in start of each (odd and even) semester.*

The charges of Hostel ward boys, electric, electronic, fire appliances & their maintenance charges shall be deposited and maintained in DSW account at CBI, HBTU, Kanpur Branch and payment in these heads shall also be made at DSW level and rest Hostel user charges in the University accounts.

### **3.3 Hostel and Mess Rules**

#### **(a) Hostel Rules**

1. Wardens shall be responsible for managing the hostels. There will be a Hostel Management Committee (HMC), nominated by the Warden for smooth running of the hostel. Wardens may constitute specific committees/subcommittees for specific purposes.
2. Residents should do nothing which may cause noise and distraction in studies or may be deemed vulgar in any manner.
3. Unauthorized persons are not allowed to stay at night (09:00 PM to 06:00 AM) in the hostel. Prior permission must be obtained from the warden. If this is not possible due to some urgent reason, the warden should be informed the next morning explaining reasons for such delay. No female guest is allowed to stay in the boys' hostel and vice-versa under any circumstances either during day or at night.
4. All the inmates must reside in the accommodation allotted to them. No exchange/interchange of hostel/room is allowed without prior consent of the Warden.
5. Furniture provided in the rooms should not be removed and used elsewhere.
6. All the inmates are 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 warden is illegal.
7. Heaters are not allowed in the hostel. Residents may have personal Computers.
8. Complaints/difficulties may be conveyed to the General Secretary/Prefect concerned for redressal with due 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/assembly is permitted in the hostel without prior permission of the warden.
11. All the inmates are required to join the hostel mess. However, the wardens may exempt a student from the hostel mess on medical grounds for a specified period.
12. Students falling sick should inform the warden immediately for making necessary arrangement for their treatment.
13. Gambling of any kind and use of liquor/drugs is strictly prohibited.

14. Firearms (even licensed) are not permitted in the hostel. Pets such as dogs etc. are not permitted in the hostel.
15. All the inmates are required to vacate the hostel during the summer vacation and handover charge of their rooms, furniture, and fittings etc. before leaving. Warden is authorized to break/open a locked room, if needed. University is not responsible for any loss of belongings of the student.
16. Common room shall be available only from the morning to 10:00 pm in the night. In case of any specific event, the timings for common room may be extended with the written permission of the warden.

The Dean of Students' Welfare (DSW), who is also the chairman of the Council of Hostel Activities, has overall control of the hostel activities.

### **COUNCIL OF HOSTEL ACTIVITIES**

Chairman	Prof. Sunil Kumar
Member Secretary	Dr. Deepesh Singh
Members	All Wardens

### **HOSTEL WARDENS**

<b>Name of Warden</b>	<b>Hostel Name</b>
Dr. Lalit Kr. Singh	Abdul Kalam Hostel
Dr. S.K.S. Yadav	Vishweshwaraya Hostel
Dr. C. L. Gehlot	Raman Hostel
Dr. A.K. Rathore	Vishwakarma Hostel
Dr. Prabhat Verma	Shridhracharya Hostel
Mr. J.K. Dwivedi	Shri Ramanujam Hostel
Dr. (Mrs.) Vandana D. Kaushik	Gangotri Hostel
Dr. (Mrs.) Indira Nigam	Mandakini Hostel
Dr. (Mrs.) Rajni Bisht	Kaveri & Alaknanda Hostel
Mrs. Poonam Malhotra	Kaveri & Alaknanda Hostel
Dr. Anita Yadav	Bhagirathi & Saraswati Hostel
Dr. A.K. Shankwar	Ambedkar Hostel
Mr. Sumant Chaterjee	Aryabhata Hostel

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

All the hostel inmates are required to deposit a sum of Rs. 36000.00 (Thirty Six Thousand) as mess advance per annum. Mess Advance of Rs. 18000.00 will be deposited in respective hostel account in start of each (odd and even) semester. At the end of year, the Mess Manager will prepare the account of the student. No dues will be given to the student by the warden only after all the dues are paid.

1. Mess will be run by the inmates under the general supervision of Warden. An Executive Committee consisting of elected or nominated members will be formed for 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 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.
3. Only full day Mess offs may be allowed to such inmates who have taken prior station leave permission from the Wardens.
4. Guest will be charged according to the numbers of diets and/or breakfast taken as per the charges fixed by the mess committee from time to time. Guest will not be normally allowed to take meals for more than 03 consecutive days unless the host has taken prior permission from the hostel Warden.
5. Outsider i.e. those not residing in the hostel cannot 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.

### **3.4 Student Discipline**

#### **3.4.1 *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 In case of any act of ragging, indiscipline, vandalism and loss to the University property, necessary disciplinary action will be taken by the Chief Proctor/Proctorial Board of the University. The Wardens, Dean and Associate Dean, Students' Welfare are responsible for welfare issues of all students of the University. The students can also approach the concerned Head of Departments/Wardens/Dean and Associate Dean, Students' Welfare, for solution to their problems and guidance.

#### **3.4.2 *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 the University will not be eligible for appearing in class test and End semester Examination. They may be debarred from placements, interviews for which they themselves shall be responsible.

Disciplinary matters of students within and outside the University are dealt by the Proctorial Board headed by the Chief Proctor. The Proctorial Board of the University will investigate all the acts of indiscipline reported and shall recommend suitable punishment for approval to the Vice-Chancellor. Violation of the code of conduct by a student or a group of students can be referred to the Chief Proctor.

## **PROCTORIAL BOARD**

Chief Proctor	Prof. Sunil Kumar
Dy. Chief Proctor	Dr. Deepesh Singh
Proctor	Dr. (Mrs.) Anita Yadav
Proctor	Dr. A. K. Shankhwar
Proctor	Mr. Jameel Ahmed

### **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 neighborly behavior to fellow students. They should also pay due courtesy to the visitors and residents of the campus.
2. Lack of courtesy and unbecoming conduct (both within and outside of the University), willful damage or removal of University property or belongings of a fellow student, breach of rules and regulations of the University, and similar other undesirable activities shall constitute violation of the code of conduct.
3. Violation of the code of conduct by any student shall invite disciplinary action and may lead to punishment, such as reprimand, fine, debarring from examination/placement/cancellation of registration and even dismissal from the University.
4. The Warden of the concerned hostel shall have power to reprimand or impose fine against any resident of the hostel who violates the code of conduct. Warden can also take any other suitable actions in consultation with the Dean of Students Welfare or Chief Proctor as required.
5. Students will not be permitted to pursue any other formal course/examination during their stay in the University except with the written permission of the Vice Chancellor.
6. Use of liquor, drugs or any other intoxicants in the University premises including hostels is strictly prohibited.
7. Students are warned against any fraud or irregularities in money related matters. All cases and issues which lead to discredit to the University will invite disciplinary action. The University, however, will not be responsible for any debts, to the students and its consequences.
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 other penalty as deemed fit.
9. Students must carefully handle the laboratory equipments, instruments, machines, and plants during the course of their study. Pasting unauthorized notices is strictly prohibited.
10. Any get-together outside the University campus including outings, picnics, visit to lakes & rivers etc., for any reason is strictly prohibited without prior permission of the concerned officials, 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 working hours.
13. Students should always carry their Identity Cards/Registration Cards.

### **3.5 Anti-Ragging Measures**

Ragging is a reprehensible act, which does no good to anyone. 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 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 a rowdy or indisciplined manner 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 the menace of ragging. Any instance of ragging to which they are subjected or which comes in their knowledge should be brought to the knowledge of the authorities. It shall be promptly dealt with while protecting the complainants from any harassment by perpetrators. Ragging is banned in the University. Anyone indulging in ragging will be punished appropriately along with filing a First Information Report (FIR) with the local police authorities. The punishment for ragging may include:

- 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 and/or mess.
- Outright expulsion from the University.

Also, the punishment to be meted out will be exemplary and harsh to act as a deterrent against recurrence of the incidents of ragging. In every single incidence of ragging where the victim or his parents/guardian are not satisfied with the institutional arrangement for action, a FIR will be filed. Besides, the Migration Certificate/Character Certificate shall have an adverse entry. Admission may be refused to such students who have been involved in any act of ragging. According to the Uttar Pradesh Prohibition of Ragging in Educational 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 University premises shall be punished with imprisonment of either description for a term which may extend to two years or with a fine which may extend to rupees ten thousand or both.

### **3.6 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 and 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 benefits. In addition, the student guardians and teacher guardians are appointed for first year students to take care of the freshers.

## **4 CENTRAL FACILITY**

### **4.1 Central Library**

Central Library has a rich collection of approximately one lakhs books which includes Text Books, Reference Books, such as Encyclopedia, Dictionary, Handbooks and Periodicals etc. related to Engineering, Technology, Management, Basic Sciences, Literature and other miscellaneous subjects. Central Library provides Open Access Facility to the students with reading facility. Presently, 216 online e-journals of IEEE and ASME are being subscribed in the Central Library. Central Library remains open from 9:30 am to 5:00 pm on working days and from 10:00 am to 1:30 pm on Saturdays / Sundays except National / Gazetted / Local Holidays. Books are issued to students of different Programmes for specified periods of time as needed. Students are required to obtain library membership and to use library facility. Students must strictly follow the Central Library rules for borrowing the books. Books must be returned on or before due date to avoid fines. Presently daily newspapers (Hindi and English) and 25 magazines are also subscribed by in the Central Library for the benefit of students and staff.

### **4.2 Central Workshop**

Central workshop of the University provides training assistance to the undergraduate or postgraduate and Research Scholars. It also extends help to the Maintenance Section of the University in its working. Central Workshop has 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. CNC Vertical Milling Centre, CNC Lathe, Capatan Lathe, different types of miling, rolling and grinding machines are available. Profile Gas Cutting Machine, Argon Gas Welding Plant, Oxy Acetylene Gas Welding Plant (high pressure), modern oil fired boiler, Universal wood working machine, powerplane core hardness tester, pneumatic power hammer, hydraulic power Hexa etc are also available.

### **4.3 Computer Center**

Computer Centre caters to the computing needs of students for class work and research. Computer Centre supports University with 100 Mbps (1:1) fibre optic network that connects all the academic departments, library, hostels, residences and other central facilities. 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 backup.

### **4.4 University Students Activity Council (USAC)**

The University is committed for overall personality development of the students. The USAC activities are aimed at grooming the students in extra-curricular and co-curricular skills. It has 09 sub-councils manned by conveners.

Chairman USAC	-	Prof. Sunil Kumar
Convener, NSS Sub-Council	-	Mr. Prithvi Pati
Convener, Photography Sub-Council	-	Dr. P.K.S. Yadav
Convener, Literary Sub-Council	-	Mr. Jitendra Kumar

Convener, Hobby Sub-Council	-	Dr. Prabhat Verma
Convener, Sports Sub-Council	-	Dr. A.K.Rathore
Convener, Yoga Sub-Council	-	Dr.(Mrs) Archana Singh
Convener, Cultural Sub-Council	-	Dr. Lalit Kumar Singh
Convener, Print & Social Media Sub-Council	-	Dr. A.K.Rathore
Convener, Technical Sub-Council	-	Dr. Vinay Pratap Singh

The activities of each sub-council are managed by a committee consisting of a faculty member as its convener and nominated/elected student secretary and council members. 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.

#### **4.5 Games and Sports**

University has one sports ground each in West and East Campus. University has excellent facilities for outdoor games such as Athletics, Cricket, Hockey, Football and Lawn Tennis and indoor games such as Table Tennis, Badminton, Chess and Gymnastics. We have a turf wicket for cricket in West Campus. A New Gymnasium with all facilities has been made operational last year.

#### **4.6 Training and Placement Cell**

The placement of the students is looked after by a full fledged Training & Placement Section headed by a Professor. The cell contacts the leading organizations and industries in the country for placement of the graduating students. Most organizations conduct campus interviews for selecting suitable candidates. However, some organizations request for biodata and select candidates through interview at their ends. Last year, about 70% of students studying in pre-final year got placement and almost every student had placement before leaving the institute. Many students get their second placement as well. Details of companies visiting institute for placement are available at our institute's website. The placement provided to the passing out students in various disciplines through Training & Placement Section in the last three years along with a list of prominent organizations who have been conducting campus interviews and selecting our graduating Engineers and Technologists is available on the institute's website.

### **5 GENERAL FACILITIES**

#### **5.1 Guest House**

The University has a well furnished Guest House in the east campus for visiting faculty, officers, Guest Examiners etc. It has two VIP suites, 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 changes as led by the University.

#### **5.2 Dispensary**

The University maintain an outdoor patient dispensary in the east campus. There is a medical officers to look after routine health needs of the students and staff. Complicated cases are referred to the Medical College/ LLR Hospital for necessary treatment. Prescribed medicines if available or provided by 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.

### 5.3 Bank and Postal Facilities

Each Campus of the University has a full-fledged Branch of Central Bank of India along with its ATM. An ATM facility of State Bank of India is also available in west campus of the University. The West campus also has a post office. Main Post Office is located in the Nawabganj very close to our East campus.

### 5.4 Canteen

East campus of the University has a canteen serving vegetarian food such as snacks, fast food, tea, coffee, soft drinks and fixed meals. The canteen remains open from 9.00 a.m. to 9.00 p.m. One more canteen near workshop is also operational.

## 6. UNIVERSITY FINANCES

Harcourt Butler Technical University Kanpur is fully financed by the State Government in form of Grant-in-Aid. Other major sources of income are from students fee and consultancy and testing works. University's major expenditure is on salary to the teachers, officers and staff. Apart from this, expenditure on electricity, security, payment mode to outsourced workers, repair and maintenance of infrastructure and developmental works are the other important components.

## 7. AUTHORITIES, OFFICERS AND ORGANIZATIONAL STRUCTURE

### 7.1 Authorities of the University

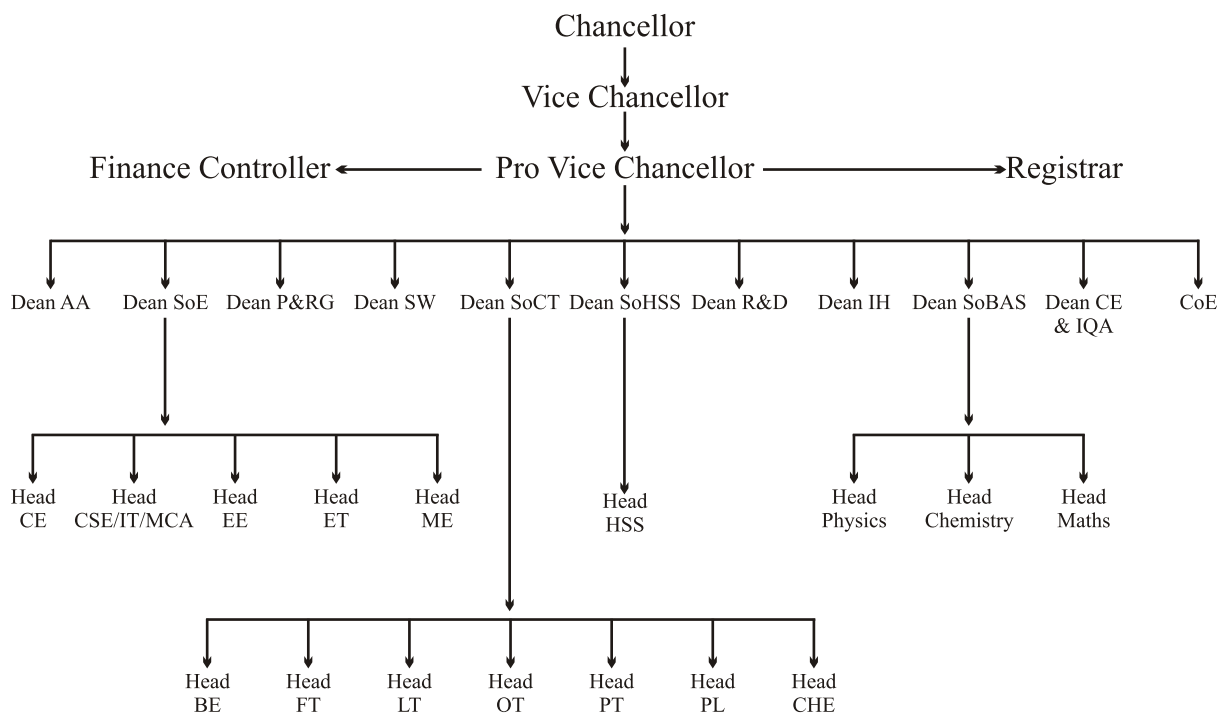
S. No.	Administrative Committee	Chairman	Member Secretary
1.	Executive Council	Vice Chancellor	Registrar
2.	Academic Council	Vice Chancellor	Dean, Academic Affairs
3.	Finance Committee	Vice Chancellor	Finance Controller
4.	Admission Committee	Vice Chancellor	Dean, Academic Affairs
5.	Research & Development	Vice Chancellor	Dean, R&D
6.	Incubation Council	Vice Chancellor	Dean, Incubation Hub
7.	Board of Studies	Concerned Head of Department	Concerned Head of the Department
8.	Board of Examination	Controller of Examination	Dy. Controller of Examination
9.	Building & Works Committee	Vice Chancellor	Registrar

### 7.2 Officers of the University

1. The Chancellor
2. The Vice-Chancellor
3. The Pro Vice-Chancellor
4. The Registrar
5. The Finance Controller
6. The Dean of Academic Affairs
7. The Dean of Continuing Education and Internal Quality Assurance

8. Dean of Incubation Hub
9. The Dean of Planning and Resource Generation
10. The Dean of Research & Development
11. The Dean of Student Welfare
12. The Deans of University Schools
13. The Head of University Department, School, Centre and unit
14. The Controller of Examinations

### 7.3 Organizational Structure of the University



**FACULTY & ADMINISTRATION DETAILS  
(A) SCHOOL OF ENGINEERING**

**Department of Civil Engineering**

1. Dr. Dipteek Parmar	Professor & Head	7081300505	d_parmar@rediffmail.com
2. Dr. Sunil Kumar	Professor	7081300503	drsuniljadon@gmail.com
3. Dr. Pradeep Kumar	Professor	9721456065	pkt2001@rediffmail.com
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5. Dr. Deepesh Singh	Assistant Professor	7081300521	dr.deepeshsingh@gmail.com
6. Dr. Rajiv Ganguly	Associate Professor	9805798728	rganguly@hbtu.ac.in
7. Dr. Kavita Tandon	Assistant Professor	9015536450	ktandon@hbtu.ac.in
8. Ms. Kajol Priya	Assistant Professor	9792132802	kpriya@hbtu.ac.in
9. Mr. Manish Kumar	Assistant Professor	9582149502	mkumar@hbtu.ac.in
10. Ms. Shivani Koshta	Assistant Professor	8765123440	skoshta@hbtu.ac.in
11. Mr. Jai Prakash Nayak	Assistant Professor	9518811603	jnyak@hbtu.ac.in

**Department of Computer Science and Engineering, IT/MCA**

1. Dr. Narendra Kohli	Professor & Head	7081300526	kohli.hbti@gmail.com
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4. Dr. V. K. Pathak (On Leave)	Professor	9412085004	vinaypathak.hbti@gmail.com
5. Dr. Anita Yadav	Associate Professor	9721456045	anitacse7@gmail.com
6. Dr. V. D. Kaushik	Assistant Professor	7081300529	vandanadixit@yahoo.com
7. Dr. Prabhat Verma	Assistant Professor	7081300515	pvluk@yahoo.com

*(Vacant Position : 4 Associate Professor, 1 Assistant Professor)*

**Department of Electrical Engineering**

1. Dr. Yaduvir Singh	Professor & Head	7081300508	dryaduvirsingh@gmail.com
2. Mr. J. K. Dwivedi	Associate Professor	9721456026	jkdagra@indiatimes.com
3. Mr. C. N. Singh	Associate Professor	9450497151	cnsinghhbti7@gmail.com
4. Dr. Archana Singh	Assistant Professor	7081300642	archanasingh@rediffmail.com
5. Mr. Jameel Ahmad	Assistant Professor	9721456037	jameel_ee@yahoo.com
6. Dr. Sanjeev Kumar	Assistant Professor	7081300678	sanjeev.iitr@gmail.com

*(Vacant Position : 1 Associate Professor, 2 Assistant Professor)*

**Department of Electronics Engineering**

1. Dr. Krishna Raj	Professor & Head	7081300509	kraj_biet@yahoo.com
2. Dr. Rachna Asthana (On Leave)	Professor	7081300519	rachnaasthana@rediffmail.com
3. Dr. Manoj Kumar Shukla (On Leave)	Professor	9721456021	manojkrshukla@gmail.com
4. Dr. Rajni Bisht	Associate Professor	9415404981	rajanibisht@rediffmail.com

- |                        |                     |             |                         |
|------------------------|---------------------|-------------|-------------------------|
| 5. Dr. A. K, Shankhwar | Associate Professor | 9721456076  | akshankhwar@hbtu.ac.in  |
| 6. Dr. Ashutosh Singh  | Associate Professor | 7081300 517 | ashuhbti@rediffmail.com |
| 7. Dr. Kumar Gaurav    | Assistant Professor | 9559734455  | gauravet@hbtu.ac.in     |
| 8. Dr. Nand Kishore    | Assistant Professor | 6392693468  | nkishore@hbtu.ac.in     |

*(Vacant Position : 1 Professor)*

#### **Department of Mechanical Engineering**

- |                           |                     |            |                               |
|---------------------------|---------------------|------------|-------------------------------|
| 1. Dr. Rajive Gupta       | Professor & Head    | 7081300531 | rajeeve_gupta@yahoo.com       |
| 2. Dr. Onkar Singh        | Professor           | 9415114011 | onkpar@rediffmail.com         |
| 3. Dr. Anand Kumar        | Professor           | 7081300504 | kranandhbti@gmail.com         |
| 4. Dr. S. K. Singhal      | Professor           | 9721456057 | shailendra_singhal@rediff.com |
| 5. Mr. Jitendra Bhaskar   | Associate Professor | 9721456008 | jbhaskar@hbtu.ac.in           |
| 6. Dr. Vinay Pratap Singh | Assistant Professor | 9721456084 | ravi_ambhikesh@yahoo.com      |
| 7. Mr. R.K. Abhishek      | Assistant Professor | 7081300538 | vinayforus@gmail.com          |
| 8. Dr. S. K. Yadav        | Assistant Professor | 7081300522 | sanjeevyadav10@rediffmail.com |

*(Vacant Position : 1 Professor, 2 Associate Professor, 3 Assistant Professor)*

#### **(B) SCHOOL OF CHEMICAL TECHNOLOGY**

##### **Department of Chemical Engineering**

- |                       |                               |            |                                |
|-----------------------|-------------------------------|------------|--------------------------------|
| 1. Dr. Rajesh Katiyar | Associate Professor<br>& Head | 7081300533 | katiyarrajesh@hotmail.com      |
| 2. Dr. S. K. Gupta    | Associate Professor           | 7081300512 | skgupta@hbtu.ac.in             |
| 3. Dr. Ashwini Sood   | Associate Professor           | 7081300534 | sood.ashwini@rediffmail.com    |
| 4. Dr. G. L. Devnani  | Assistant Professor           | 9450333762 | gdevnani76@rediffmail.com      |
| 5. Mr. Jitendra Kumar | Assistant Professor           | 7081300549 | jitendrak_itbhu@rediffmail.com |
| 6. Dr. A. K. Rathore  | Assistant Professor           | 9721456051 | ash_rath@rediffmail.com        |

*(Vacant Position : 2 Professor, 6 Associate Professor, 5 Assistant Professor)*

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

- |                          |                               |            |                   |
|--------------------------|-------------------------------|------------|-------------------|
| 1. Mr. Brajesh Singh     | Associate Professor<br>& Head | 7081300520 | bsingh@hbtu.ac.in |
| 2. Dr. Lalit Kumar Singh | Assistant Professor           | 7081300565 | lkumar@hbtu.ac.in |

*(Vacant Position : 1 Professor, 1 Associate Professor, 3 Assistant Professor)*

##### **Department of Food Technology**

- |                         |                     |            |                              |
|-------------------------|---------------------|------------|------------------------------|
| 1. Dr. Alak Kumar Singh | Professor & Head    | 7081300516 | alaksingh@rediffmail.com     |
| 2. Dr. Vivek Kumar      | Assistant Professor | 7081300539 | viveksachan99@rediffmail.com |

*(Vacant Position : 1 Professor, 2 Associate Professor, 1 Assistant Professor)*

### **Department of Leather Technology**

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*(Vacant Position : 1 Professor, 2 Assistant Professor)*

### **Department of Oil Technology**

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3. Dr. P. K. S. Yadav Assistant Professor 7081300577 pkyhbt@yahoo.co.in

*(Vacant Position : 1 Professor, 2 Associate Professor, 2 Assistant Professor)*

### **Department of Paint Technology**

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*(Vacant Position : 1 Professor, 2 Associate Professor, 1 Assistant Professor)*

### **Department of Plastic Technology**

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3. Dr. (Mrs.) Reena Singhal Professor 9721456046 reena.singhal123@rediff.com

*(Vacant Position : 1 Professor, 1 Associate Professor, 2 Assistant Professor)*

## **(C) SCHOOL OF BASIC AND APPLIED SCIENCE**

### **Department of Chemistry**

1. Dr. Rekha Bali Head (Officiating) 7081300545 dr.rekhabali@rediffmail.com
2. Dr. Chhagan Lal Associate Professor 7081300511 c.lal9940@gamil.com

*(Vacant Position : 1 Professor, 2 Associate Professor, 1 Assistant Professor)*

### **Department of Mathematics**

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2. Dr. Ram Naresh Professor 7081300544 ramntripathi@yahoo.com
3. Dr. Ram Autar Professor 7081300530 rautar62@gmail.com

*(Vacant Position : 1 Professor, 1 Associate Professor, 1 Assistant Professor)*

### **Department of Physics**

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& Head
2. Dr. R. K. Shukla Professor 7081300507 rk6\_knp@yahoo.com

*(Vacant Position : 1 Professor, 2 Assistant Professor)*



## HOSTELS AND MAIN BUILDING FRONT LAWN



Abdul Kalam Hostel (WCH-I)



Raman Hostel (WCH-III)



Vishwakarma Hostel (WCH-IV)



Shridharacharya Hostel (LV-Old)



Shriramanujan Hostel (LV-New)



Gangotri Hostel (GH-III)





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**Tel. No. : (0512) 2534001, Fax : (0512) 2533812**  
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