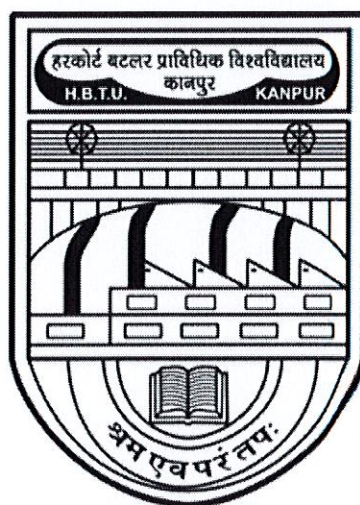# ORDINANCES

FOR

BACHELOR OF TECHNOLOGY

(Effective from the session 2024-25)

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

(Revised July 2024)

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

Third 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 third ordinances for Harcourt Butler Technical University, Kanpur:

1.   INTRODUCTION
Short Title, Commencement and Definitions

1.1   These Ordinances shall be called the Third Ordinances, 2024 of Harcourt Butler Technical University, Kanpur.

1.2   They shall come into force from session 2024-25 for new entrants, unless otherwise mentioned.

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 (SoE)

B. Tech. in Electronics Engineering
B. Tech. in Electrical Engineering
B. Tech. in Mechanical Engineering

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

1

B. Tech. in Civil Engineering
B. Tech. in Computer Science & Engineering
B. Tech. in Information Technology

B. School of Chemical Technology (SoCT)
B. Tech. in Chemical Technology (Plastic Technology
B. Tech. in Chemical Technology (Paint Technology)
B. Tech. in Chemical Technology (Oil Technology)
B. Tech. in Chemical Technology (Biochemical Engineering)
B. Tech. in Chemical Technology (Leather Technology)
B. Tech. in Chemical Technology (Food Technology)
B. Tech. in Chemical Engineering

C. School of Basic and Applied Sciences (SoBAS)

Presently, the School offers an integrated BS-MS Programme in Mathematics and Data Science. The detailed ordinances of this BS-MS programme are presented elsewhere. However, the faculty member of this School offers Basic Science Courses (BSC) to under graduate, Post graduate and Ph.D students of the University.

D. School of Humanities and Social Sciences (SoHSS)

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.

E. School of Entrepreneurship and Management (SoEM)
Presently, this school offers BBA, MBA and Ph.D programmes, the ordinances of which are presented separately.

F. School of Pharmaceutical and Biological Sciences (SoPBS)

B. Tech in Biotechnology
B.Pharm. (Bachelor of Pharmacy)

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 CUET (UG).

3.5   The reservation policy as prescribed by the U.P. State Government or its directions issued from time to time shall be followed by the University.

2

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

3.6 A total of 5% seats over and above the sanctioned intake 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.

3.7 Admission to 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 1st year B.Tech. In all the courses, a maximum of 5% seats may be filled by foreign nationals on supernumerary seats over and above the total approved intake. Admission of foreign/international students will be granted in accordance with prospectus and/or on receipt of application through diplomatic channels (i.e. routed through Indian Missions/Ministry of External Affairs) on qualifying the test prescribed for the purpose or any other procedure prescribed by the University from time to time.

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

3.9 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. However, for B.Tech in Biotechnology, the candidates should have Physics and Mathematics or Biology as compulsory subjects and any one of the following subjects: Mathematics, Biology, Chemistry, Biotechnology, Computer science, and technical vocation subjects shall be required. Candidates must obtain at least 55% marks (50% in case of the candidates belonging to SC/ST/OBC/EWS/PD 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 55% mark from institutions recognized by the U.P. Board of Technical Education or equivalent in the relevant branch of Engineering/Technology as the one

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU Kanpur

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 55% marks (50% in case of the candidates belonging to SC/ST/OBC/EWS/PD category) 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 like CUET (UG).

4.3   Admissions of Foreign Nationals

a) All foreign/international students/NRI/OCI applying for admission to B.Tech programme in the university should have passed the examination in the concerned subject and should fulfill the minimum eligibility criteria for admission as per the requirement of programme from a University/Board included in the list of Association of Indian Universities (AIU). In case the University/Board is not included in the said list, the candidate has to obtain and submit an equivalence certificate to this effect from AIU subject to its final verification by the respective Department. If the candidate has a non-Indian bachelor's degree not recognized by AIU/AICTE, he/she is required to produce proper certification from a national body in the country concerned, constituted for certifying equivalence of degrees.

b) The candidate should have passed the JEE Mains (for NRI/OCI) or SAT (NRI/OCI/Foreign nationals) and IELTS/TOEFL (Foreign nationals). *IELTS/TOEFL is required for all the students other than native English speakers. Minimum Scores: SAT Level 1-650/IELTS-6.5/TOFEL-75.

c) The foreign/international students shall be subject to the rules and regulations as applicable for the other students from time to time.

4.4 Admission for Working Professionals

For working professionals in Kanpur, the university has started a B.Tech (Working Professionals) programme in Mechanical, Electrical and Electronics Engineering (As per the decision of the 19th Academic Council, Agenda item 19.09 held in February 2024). The details of eligibility, procedure of admissions and other details are given below:

a) Each of the programmes will have an intake of 60 students. However, the programme shall run, only if a minimum admission on 1/3rd seats of the sanctioned intake is made.

b) **Eligibility for admission**:
    i)   Professionals working in registered industry/organization (Central / State / Private / Public limited company/MSME) located within 75 km radial distance from the university.
    ii) Educational Qualification shall be same as that for admission of lateral entry students directly to second year.

4

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

iii) Minimum of one-year full time/regular working experience.

c) Mode of Admission

Admission of working professionals to these programmes shall be made on the basis of a written test of the subject domain. The admission shall be made purely on the basis of merit in the written test. Other eligibility conditions shall be same as prescribed for admission to the B.Tech (lateral entry).

d) Duration of course

i) Duration of this programme shall be 3 years i.e. same as for the lateral entry students. The candidates shall have to fulfill the total contact hours as prescribed for completion of duration of the B.Tech programme.

ii) Timings for conduct of classes for working professionals shall normally be in the evening hours/any flexible timings in alignment with the timings of their industry/organization.

iii) Mode of conduct of classes (online/offline as applicable) will be same as for regular B.Tech programme.

e) Academic Requirements

i) The candidates shall have to earn the total credits as specified for the B.Tech (Lateral entry) students for completion of the degree.

ii) Syllabus of various courses shall be the same as applicable for other B.Tech students of the programme.

iii) As per the AICTE Regulation, up to 40% of credit transfer is permitted through MOOCS/SWAYAM/NPTEL as recognized by the university.

iv) Examination shall be the same as that for other regular students of the programme.

f) Reservation

Reservation shall be as per the UP-Government rules. However, one seat in each programme shall be reserved for candidate working in Central Government organizations/Industries/Companies/Autonomous organization purely on merit basis. In the absence of any such candidates, the vacant seat shall be transferred to the unreserved category.

5. PROGRAMME DURATION

5.1 The duration of all B. Tech. programmes 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.

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

5

5.4   As per the mandate of NEP 2020, the university has a provision for multi-exit (after certificate programme or Diploma) wherein the duration could exceed. Please refer clause 8.6 for details.

5.5   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.

5.6   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 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 carryover.

6.2   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 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 Government nominees and any other supernumerary seats.

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

6.4   The last date of branch change in the III semester shall be August 31st of that year.

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

7.   ATTENDANCE

7.1   Students are required to attend 100 % classes in each of the course registered in a particular semester: lectures, tutorials, practical's, projects and other prescribed curricular and co-curricular activities. However, a relaxation of 25 percent attendance may be granted by the concerned Head of Department on genuine ground.

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

7.3   No student shall be allowed to appear in the Mid Semester / End Semester Examination of a particular course (as the case may be), if he/ she does not have requisite 75 percent (or requisite 60% after availing relaxation as per the provisions of

6

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

Clause 7.2). Students not allowed to appear in the examination due to short attendance shall be awarded 'U' grade. Such candidates, who do not fulfill the eligibility of minimum attendance in end semester examination shall have to register as readmitted student in the 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 has adopted and implemented the NEP 2020 from 2022-23 academic session. It 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)	20
Engineering Science Courses (ESC)	36
Hum., Social Sc. & Management Courses (HSMC)	09
Program Core Courses (PCC)	65
Program Elective (PEC)	18
Open Elective Courses (OEC)	06
Seminar	2
Industrial Training	2
Project	22
Mandatory Courses (MC)	No Credits
Total	**180**

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 11 of these Ordinances.

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.

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. All semesters, except 3rd and 4th have 22 credits whereas these two have 24 credits each. The total credits to be earned by students in first, second, third and final year are 44, 48, 44 and 44, respectively. The total credits to be earned by students for the B.Tech. degree programme 180 credits.

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

8.1 (B) SEMESTER WISE COURSE STRUCTURE & EVALUATION SCHEME
B.TECH. (SCHOOL OF ENGINEERING/SCHOOL OF CHEMICAL TECH.)
I SEMESTER
SCHOOL OF ENGINEERING
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	NCY 101/102	Engineering Chemistry	4(3-0-2)	15	20	15	50	50	100
2.	ESC	NCS 101/102	Introduction to Computer Science & Engineering	4(3-1-0)	30	20	-	50	50	100
3.	ESC	NET 101/102	Introduction to Electronics Engineering	4(3-1-0)	30	20	-	50	50	100
4.	ESC	NCE 101/102	Introduction to Civil Engineering	4(3-1-0)	30	20	-	50	50	100
5.	ESC	NCT 101/102	Introduction to Chemical Engineering & Chemical Technology	4(3-1-0)	30	20	-	50	50	100
6.	ESC	NWS 101/102	Workshop Practice	2(0-0-4)	-	20	30	50	50	100
Total Credits					22					

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	NPH 101/102	Engineering Physics	4(3-0-2)	15	20	15	50	50	100
2.	BSC	NMA 101/102	Engineering Mathematics-I	4(3-1-0)	30	20	-	50	50	100
3.	ESC	NEE 101/102	Introduction to Electrical Engineering	4(3-0-2)	15	20	15	50	50	100
4.	ESC	NME 101/102	Introduction to Mechanical Engineering	4(3-1-0)	30	20	-	50	50	100
5.	HSMC	NHS 101/102	Professional Communication	4(2-1-2)	15	20	15	50	50	100
6.	ESC	NCE 103/104	Engineering Graphics	2(0-0-4)	30	20	-	50	50	100
Total Credits					22					

8

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

SCHOOL OF CHEMICAL TECHNOLOGY
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	NPH 101/102	Engineering Physics	4(3-0-2)	15	20	15	50	50	100
2.	BSC	NMA 101/102	Engineering Mathematics-I	4(3-1-0)	30	20	-	50	50	100
3.	ESC	NEE 101/102	Introduction to Electrical Engineering	4(3-0-2)	15	20	15	50	50	100
4.	ESC	NME 101/102	Introduction to Mechanical Engineering	4(3-1-0)	30	20	-	50	50	100
5.	HSMC	NHS 101/102	Professional Communication	4(2-1-2)	15	20	15	50	50	100
6.	ESC	NCE 103/104	Engineering Graphics	2(0-0-4)	30	20	-	50	50	100
Total Credits				**22**						

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	NCY 101/102	Engineering Chemistry	4(3-0-2)	15	20	15	50	50	100
2.	ESC	NCS 101/102	Introduction to Computer Science & Engineering	4(3-1-0)	30	20	-	50	50	100
3.	ESC	NET 101/102	Introduction to Electronics Engineering	4(3-1-0)	30	20	-	50	50	100
4.	ESC	NCE 101/102	Introduction to Civil Engineering	4(3-1-0)	30	20	-	50	50	100
5.	ESC	NCT 101/102	Introduction to Chemical Engineering & Chemical Technology	4(3-1-0)	30	20	-	50	50	100
6.	ESC	NWS 101/102	Workshop Practice	2(0-0-4)	-	20	30	50	50	100
Total Credits				**22**						

Distribution of TA marks (maximum marks 20) shall be as under.
  10 marks: participation in class room teaching
  10 marks: Assignments/Quizzes

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

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 6th 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 7th 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 them in order to be eligible for award of Degree.

8.5 Minor Degree and Honors degree
Minor degree

The university implemented the NEP 2020 from the academic session 2022-23. As per the mandate of the NEP 2020, the university has implemented the provision for "Minor degree". It implies that a student pursuing a major degree (4 year B. Tech degree in some branch) can opt for a "Minor" degree in other branch / specialization offered by other department of the university provided,

a) He/she shall have to earn a minimum of 20 credits in addition to his/her regular B.Tech courses (180 credits for regular B.Tech plus 20 additional credits= total 200 credits) in the field of other branch/specialization offered by the other department.
b) The eligible students will have to study the additional courses from the baskets as offered by the department offering that minor degree programme.

Honors degree

It implies that a student pursuing a major degree (4 year B. Tech degree in his/her some branch) can opt for a "Honors" degree in their respective branch subject to the following:

a) He/she has secured a CGPA of 7.5 up to 2nd year with no running carryover papers.
b) He/she shall have to earn a minimum of 20 credits in addition to his/her regular B.Tech courses (180 credits for regular B.Tech plus 20 additional credits= total 200 credits) in their respective field of major branch.
c) The eligible students can study the additional courses from the baskets as offered by their department.

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

Other requirements for Minor degree and Honors degree

a) 20% of the total maximum credit may be earned from the online courses as approved by the department

b) In any Minor degree programme, a maximum of 10 students will be allowed on merit, based on their CGPA up to second year.

8.6 With the implementation of NEP 2020, the university has the provision of awarding a **"Certificate in Engineering & Technology"** after completion of B.Tech 1st year. Further, it has the provision of awarding **"Diploma"** in respective branch after completion of the B.Tech 2nd year.

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. (* as per the decision of 19th Academic Council, Item 19.0 held on 23.02.2024)

Table 2: Grading Scheme			
Marks (Out of 100)	Grade Obtained	Grade Point	Description
90 and above	A+	10	Outstanding
80 and above	A	9	Excellent
70 and above	B+	8	Very Good
60 and above	B	7	Good
50 and above	C	6	Average
40 and above	P	5	Pass
Less than 40	F (marks secured between 25-39)*	2	Fail
	F (marks secured below 25)*	0	Fail
	W	-	Withdrawn
	U	-	Short Attendance
	I	-	Incomplete

(* as per the decision of 19th Academic Council, Item 19.0 held on 23.02.2024)

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.

Table 3: Evaluation Scheme for Different Types of Courses

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

Prof. Lalit Kumar Singh
Dean of Academic Affairs

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.

The total of sessional and end semester marks required to pass a particular course is 40%. However, a student must secure a minimum of 30% marks (15) in sessional and end semester, each to pass the course. "I" grade shall be given to the students who leaves the course midway (without completing it) 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)

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

II.   Yearly Grade Point Average (YGPA)

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

III.   Cumulative Grade Point Average (CGPA)

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

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 shall be computed.

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

CGPA x 10   =   Absolute Percentage

Prof. Lalit Kumar Singh
Dean of Academic Affairs
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12

10. Mid Semester Exams

There shall be two mid semester exams of 15 marks each. The erstwhile practice of make-up tests is no more applicable from October 2022 onwards. (as per decision of the 14th Academic Council, under Agenda Item 14.15 held on 10.11.2022).

11. Grant of Permission for Extended Internship

If a student gets an opportunity for Extended Internship / Training / 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.

12. CARRYOVER EXAMINATION

Student with 'F' grade in any subject will be required to appear in the Carryover Examination in the subsequent years. In addition, all the students shall have the option of appearing in special carry over exams at the end of the year. (as per decision of the 16th Academic Council, under Agenda Item 16.11 held on July 12th 2023 and 17th Academic Council, under Agenda Item 17.05 held on September 18th 2023).

13. PROMOTION RULES & ACADEMIC CRITERIA FOR CONTINUATION

13.1 Readmitted Students

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

(a) Secured a minimum *YGPA* of 4.000 **in current year** in order to be promoted to the next year. If a student fails to fulfill this requirement of 4.000 *YGPA*, he/she shall be considered 'Fail'. Such candidates will have to repeat the year by taking Readmission in the same class paying a fee of Rs. 25000/- and the examination fee as applicable.

(b) Failed to appear in examination or he/she was not granted permission to appear in the examination.

(c) Detained by the University and subsequently was permitted to take Re-admission.

(d) Readmitted students shall have to appear for exams (end and mid semester, both) only in the subjects in which he/she has failed (as per decision of the 17th Academic Council, under Agenda Item 17.05 held on September 18th 2023). However, they shall have the option to retain their mid semester marks of previous years.

(e) Even if a readmitted student has passed in ESE of a particular course, he/she shall have an option of improving their marks in end semester exam (as per decision of the 17th Academic Council, under Agenda Item 17.05 held on September 18th 2023). However, the marks secured by the candidate in sessional (i.e. mid semester exams and TA) shall remain the same.

13.2 Final year Students

(a) The students of final year who have failed in some courses of previous years (1st, 2nd and 3rd) or final year on account of very less sessional marks, shall be eligible to appear for mid semester exams in those subjects along with the regular students in subsequent years. Availing this chance to improve the mid semester marks would require permission from the competent authority i.e. Head of Department concerned, Dean (Academic Affairs) and the Vice Chancellor. However, the marks secured by

13

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

the candidate in TA shall remain the same.

14. AWARD OF DIVISION, RANK AND MEDALS

14.1 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.

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 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.

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 B.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 B.Tech. programme and secures a CGPA less than 6.500 shall be awarded second division.

14.5 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.

14.6 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 (three years in case of lateral entry students) 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 their respective branch in the first attempt will be awarded Vice-Chancellor's Gold, Silver and Bronze Medal, respectively.

15. REGISTRATION AND ENROLLMENT

15.1 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 under taken without registration by a student shall not be considered towards the fulfillment of requirements of his / her degree.

15.2 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.200 per day. Students will not be allowed to register after that date.

14

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

Such students shall have to register at the start of next academic session.

15.3 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.

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 Dean of 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 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.

17. USE OF UNFAIR MEANS (as revised in the decision of the 15th Academic Council, Agenda Item 15.03 held on February 2nd 2023).

Unfair mean rules as approved as given in Table below"

Unfair Means rules as approved by Academic Council conducted on Feb 17th, 2023

Sl. No.	Types of unfair means used	Punitive action suggested
1.	Unauthorized material in possession in the form of paper chit(s), electronic gadgets such as mobile phone, smart watch, Bluetooth device etc. or writing subject related material on body or on calculator etc. or material found below the desk of the examinee.	a) If material is not related to the subject / paper and it was carried by the student inadvertently, a written strict warning will be issued to the student from the Office of CoE. b) If the material is related to the subject / paper, the student will be awarded zero marks in all papers of that particular Mid Semester Examination or End Semester Examination, as the case may be. c) In case the cheating material is confiscated during Carryover / Special Carryover Examination, student will be awarded zero marks in all Carryover / Special Carryover Examinations conducted during that particular semester and student concerned will not be allowed to appear in Carryover / Special Carryover Examination for one year.

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

2.	If the student is copying from answer book of other student in the Examination Hall or caught talking to other student(s) while allowed to go out for toilet purposes in verandah /toilet.	a) Zero marks will be awarded to the student in that particular subject/paper. b) If the student is in possession of incriminating cheating material, zero marks will be awarded in all subjects of that particular Mid Semester Examination or End Semester Examination, as the case may be.
3.	If the student takes away the answer book or destroys the answer book.	The student will be suspended from the University for one year (full one session).
4.	If the student misbehaves with the invigilator or other Examination officials during the Examination.	The student will be awarded zero marks in subject / paper being conducted that day. Further, the matter will be referred to Proctorial Board of University by the Office of CoE.
5.	In case of impersonation where some other student is appearing in the Examination in lieu of a genuine student.	The student who is impersonating and the student on whose behalf someone else is appearing in the Mid Semester Examination or End Semester Examination, both will be rusticated from the University. Further, an FIR should be lodged by the University administration on the written request of Office of CoE.
6.	If the student appears in Mid Semester Examination or End Semester Examination with forged Registration Card /Admit Card or tries forced entry in the Examination Hall.	The student concerned will be suspended for one year (one full academic session). Further, the matter will be referred to Proctorial Board of the University by the Office of CoE.
7.	For unforeseen cases not covered above.	Matter will be taken up by the Board of Examination (BoE) and appropriate action will be taken on the basis of the gravity of the case.

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 B.Tech courses appearing for the University examinations are eligible to apply for revaluation of answer scripts in all theory subjects only.

c. The student shall have to submit a written application within 10 days of declaration of results. However, under special circumstances, application may be entertained beyond 10 days but within 20 days 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.

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 change in future as decided by the university.

e. A student cannot apply for 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.

16

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur

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 the answer sheet shall be evaluated by a third examiner (who has not evaluated the answer sheet in the first revaluation).

B. Award of Marks after Revaluation

i. If the average marks of two re-valuators after revaluation is higher/lesser than the original marks, the revaluation marks shall be awarded to the students in that subject.

ii. If the difference of marks awarded by two revaluators is less than 20% of maximum marks (i.e. 10 marks), the average of the revaluated marks would be awarded as illustrated in row 1 (Case I) of Table given below.

iii. If the difference of marks awarded by two revaluators is more than 20% of maximum marks for a given subject, the answer script would be evaluated by a third examiner/revaluator. In this case, the final marks would be calculated by taking average of the best two marks awarded by the revaluators as illustrated in row 2 (Case II) of Table below:

Case	First revaluation Marks	Second revaluation Marks	Difference between 1st and 2nd revaluator	Third revaluation Marks	Final Marks after Revaluation
Case I	25	28	≤20%	Not. Reqd.	27
Case II	15	40	>20%	48	44

- 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. 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. Has no dues to the University, Hostels, Library and USAC etc., and ;

c. No disciplinary action is pending against the student.

Prof. Lalit Kumar ѕ.....
Dean of Academic Affairs
HBTU, Kanpur

20. 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.

21. POWER TO MODIFY

Notwithstanding 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.

Prof. Lalit Kumar Singh
Dean of Academic Affairs
HBTU, Kanpur