

# ANNUAL REPORT

## 2018-19



HARCOURT BUTLER TECHNICAL UNIVERSITY  
KANPUR-208002 (U.P.) INDIA

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### **1.1 New Beginning**

Harcourt Butler Technical University, Kanpur came to 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, Basic & Applied Sciences, Humanities, Social Sciences, Management, Architecture and other professional courses. University strives to achieve academic excellence in all walks of Higher Technical Education by promoting research and innovation to bring solutions to real life problems of the society. University provides a congenial environment for all round development of the students so that they are able to gain knowledge, hone their skills and grow with amenable personalities and are capable to take on challenges of the future. University departments have very capable faculty members. They have contributed in large numbers to the Indian as well as International journals. All the departments have successfully completed important sponsored research projects and many of them are having sponsored projects in hand. A number of departments have done very commendable consultancy and testing related works. University is fully financed by the State Government. University has also received financial aid from RUSA and TEQIP, scheme of World Bank for various infrastructural and developmental activities. These funds were gainfully utilized in development of new laboratories, maintenance and repair of older ones and creation of newer facilities and infrastructure.

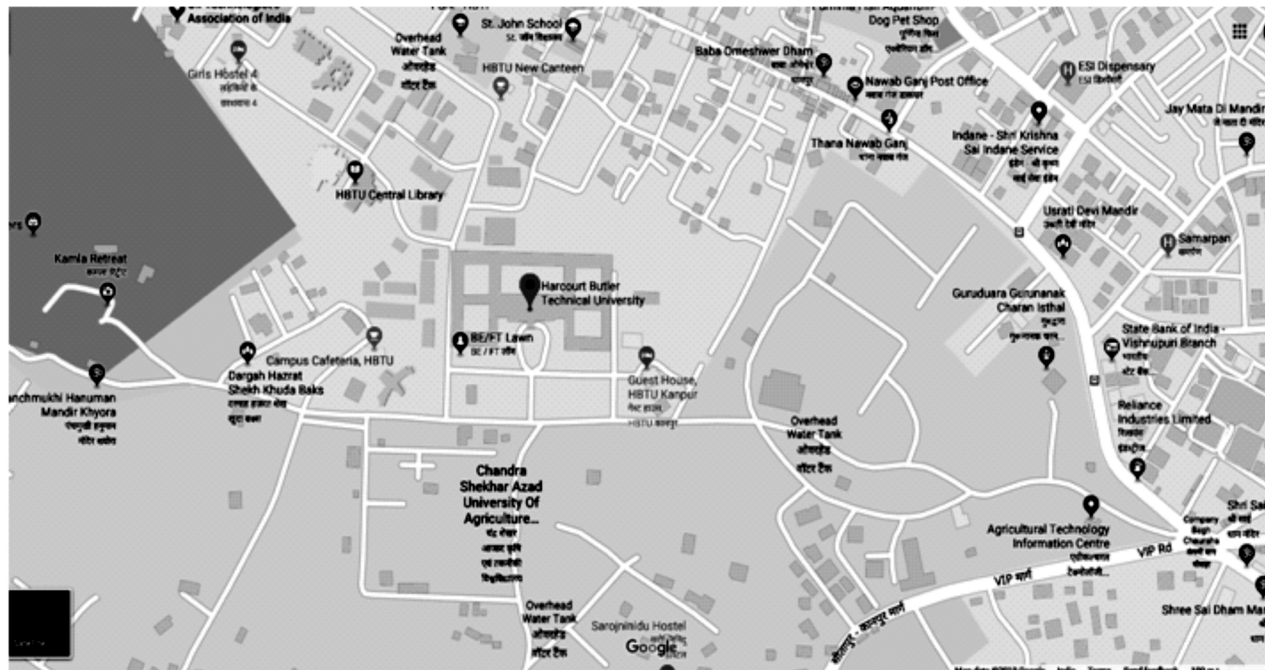
### **1.2 Brief History**

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 its long standing popular name Harcourt Butler Technological Institute in 1926. On March 26, 1965, it was upgraded from a Government Department status to an autonomous Institution. HBTI Kanpur has been known as 'Jewel in the Crown' of Uttar Pradesh Government as far as technical education is concerned. Premier institutions such as IIT Kanpur and National Sugar Institute, Kanpur were started in HBTI Kanpur in 1967. Our Institute was affiliated to Kanpur University till 2001. Once Uttar Pradesh Technical University, Lucknow came into being, affiliation was transferred to it in 2001. Once HBTI Kanpur was granted academic autonomy by UGC in 2008. It was upgraded 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). HBTU Kanpur is a residential Technical University. It has a great legacy, tradition and glorious past which propelled it to one of the top most institutions of northern India. It has a strong alumni base spread across the globe who are carrying forward the legacy, culture and the good work of this great Institution in their respective areas of influence. HBTI Kanpur remained the first choice of the candidates qualifying U.P. State Entrance Examination (UPSEE) for long time amongst all Government and Private Technical Institutions of the State. After change in status to University in 2016, students are being admitted through JEE (Mains) to various B Tech programs since 2017. MCA admissions are made through NIMCET. Students for full time regular M Tech programs are inducted on the basis of merit of GATE score while part time students are selected through Written Test. PhD seats are filled through Written Test followed by Interview as per the guidelines of UGC.

### **1.3 University Campus & its Location**

University is spread across two campuses - East Campus (77 acres) and West Campus (271 acres) situated approximately 3.5 kilometers apart. East Campus of the University is located near Chandra Shekher Azad University of Agriculture & Technology. It houses mainly administrative and academic department buildings, auditorium and other facilities. All four Girls' Hostels and three Boys' Hostels for First Year students are situated in this Campus along with a limited number of residential quarters for Officers, Faculty members and Staff of

the University. East campus of the University has a separate 33KV sub-station for uninterrupted power supply. The West Campus of the University is mainly a residential campus for Faculty members and Staff. All the hostels meant for senior boys are situated in this Campus. The hostels of West Campus have independent power back-up through generators. University Sports' Ground, Gymnasium, Basketball and Volley ball Courts along with SBI ATM, Post Office and Community Centre are situated in this campus. A multi-purpose hall is also being constructed for miscellaneous uses. University is situated in old Nawabganj area of the city. It is approximately at a distance of 9 kilometers from the Central Railway Station. 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.



#### 1.4 Vision & Mission of the 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.

#### 1.5 Objectives of the University

1. To provide facilities for and devise and implement programs of education in engineering, technology, basic and applied sciences, humanities, social sciences, management, architecture and other



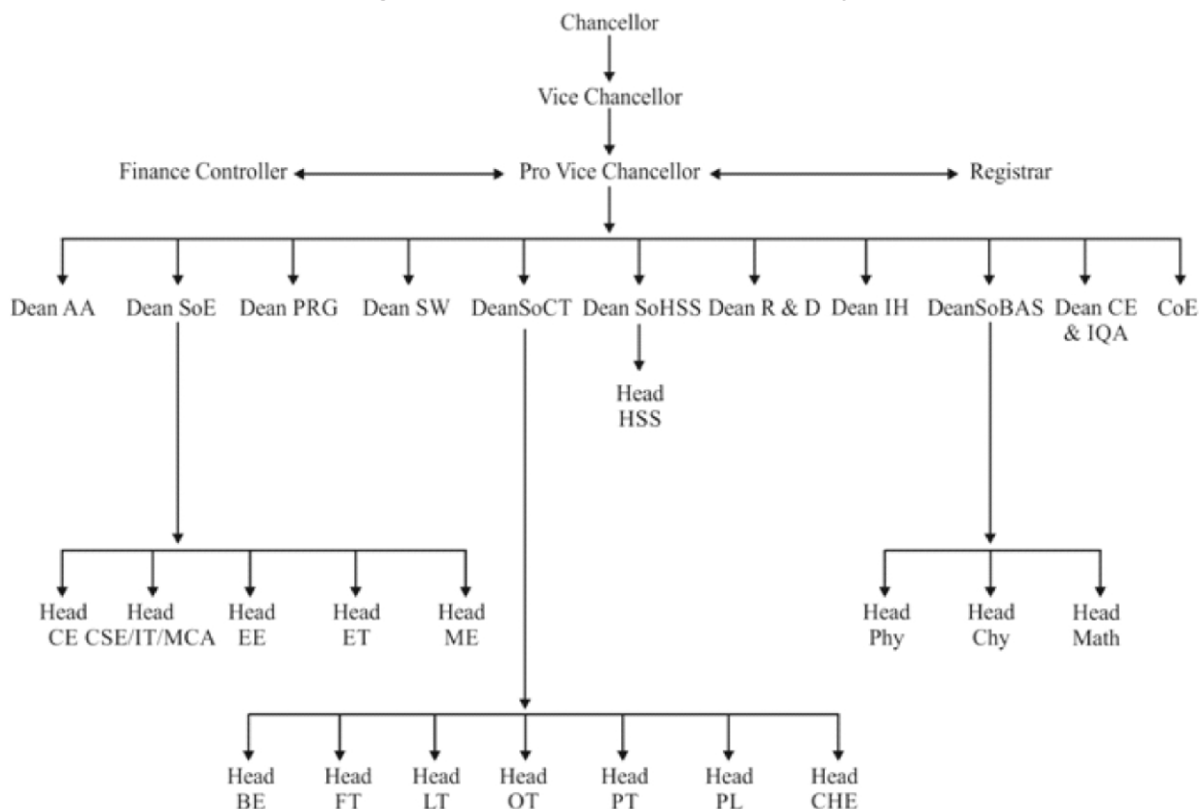
professional courses keeping in mind the current needs, anticipated changes and projected long term academic, research, industry and societal requirements related to engineering and technology.

2. To further the advancement of knowledge in engineering technology, basic and applied sciences, humanities, social sciences, management, architecture and other professional courses, pursue and promote research, innovation and incubation, disseminate knowledge for the betterment of the society and bring about wide spread awareness of the tools and methods continuously generated by the advances in such field.
3. To serve as a centre for fostering co-operation and exchange of ideas between the academic and research community on one hand and the Industry and the University on other and promote entrepreneurship.
4. To promote better interaction and co-ordination to improve the governance of the University and to facilitate higher education.
5. To promote discipline and the spirit of intellectual inquiry and to dedicate itself as a fearless academic community for the sustained pursuit of excellence.
6. To promote innovation through research and knowledge incubation.
7. To further skill development and manpower training activities for the benefit of the society.
8. To provide research and development and incubation facilities for budding entrepreneurs amongst students, teachers and others and to provide help related to legal, financial, marketing and other matters to them.

## 2. UNIVERSITY ADMINISTRATION

### 2.1 Organizational Structure

#### Organizational Structure of the University



**Table : Important Administrative Committees 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.	Research & Development	Vice Chancellor	Dean, R&D
5.	Incubation Council	Vice Chancellor	Dean, Incubation Hub
6.	Admission Committee	Vice Chancellor	Dean, Academic Affairs
7.	Board of Studies	Head of Department	Head of the Department
8.	Board of Examination	Controller of Examination	Dy. Controller of Examination
9.	Building & Works Committee	Vice Chancellor	Head, Dept. of Civil Engineering

## 2.2 University Schools

University has four Schools namely - School of Engineering; School of Chemical Technology; School of Basic & Applied Sciences and School of Humanities & Social Sciences. University runs 13 B Tech programs in different Engineering and Technology departments. It offers full time M Tech programs in seven streams and part-time M Tech programs in six streams. It also runs a regular Master of Computer Application (MCA) program. All the departments of the University offer regular PhD programs. A number of departments are recognized QIP Centers. University is planning to start a number of new programs at the undergraduate and postgraduate levels in near future.

### 2.2.1 UNIVERSITY DEPARTMENTS: SCHOOL OF ENGINEERING

#### 1. DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering was established in 1966. It offers B. Tech. program with intake of 30 students and M. Tech. program in Environment Science and Engineering with intake of 10 students department has a very good laboratory facilities and earns a handsome amount through consultancy and testing.

##### 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.

#### 2. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Department of Computer Science & Engineering was established in 1984. It runs B Tech program in Computer Science & Engineering with an intake of 60 students. Master of Computer Application (MCA) program was introduced in 1987 with intake of 60 students. B. Tech. Information Technology program with intake of 60

students was introduced in the year 2000 on the recommendations of IT Task Force. Department has a very good interaction with industry and the 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)**

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.
2. To prepare students as technical, ethical, responsible solution providers and entrepreneurs in various areas of Computer Science & Engineering.
3. To provide the necessary competence and capability in students to pursue higher studies in Institutions of International / National repute.
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**

Department of Electrical Engineering was established in 1965. It offers B Tech program in Electrical Engineering with intake of 33 students. Department also offers a part-time M Tech program in Power Electronics & Control with intake of 10 students. Department has good laboratory facilities to cater to the needs of undergraduate and postgraduate students.

#### **Vision**

To achieve excellence in Electrical Engineering education, research and innovation.

#### **Mission**

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

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

1. To equip and enable students with conceptual, technical and managerial skills in Electrical Engineering

to fulfill the requirements and challenges of higher technical education, industries and society at local, national and international levels.

2. To inculcate entrepreneurial philosophy and innovative thinking in Electrical Engineering to promote research, consultancy and institutional social responsibility in a team-frame.
3. To train the students for serving the people, society and nation with utmost professionalism, values and ethics to make sustainable developments in Electrical Engineering to improve the quality of life.

#### **4. DEPARTMENT OF ELECTRONICS ENGINEERING**

The Department of Electronics Engineering was established in 1990. It offers B Tech program in Electronics Engineering with intake of 45 students and M Tech program in Electronics & Communication Engineering with intake of 18 students. A new building for the Department is being constructed under RUSA. Department is a recognized QIP Centre for PhD program with 2 seats.

##### **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 others 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)**

1. Give 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.
2. 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.

3. 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**

Department of Mechanical Engineering was established in 1964. It runs a regular B Tech program in Mechanical Engineering with student intake of 60. Department runs a regular M Tech program in Computer Aided Design (CAD) with intake of 18 students. Department also offer two part-time programs namely - M Tech in Mechanical Engineering Design and M Tech in Industrial System Engineering with 10 seats each. 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. Presently, four research projects sponsored by DST, CSTUP and DIC are running in the Department. 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)**

1. To develop understanding of basic Mechanical Engineering concepts.
2. To inculcate analytical capabilities for solving real-life problems.
3. To provide opportunities to work as a team and to develop leadership qualities.
4. To develop entrepreneurial capabilities.
5. To encourage and motivate students for self- learning.

## **2.2.2 UNIVERSITY DEPARTMENTS: SCHOOL OF CHEMICAL TECHNOLOGY**

### **1. DEPARTMENT OF BIO-CHEMICAL ENGINEERING**

Department was established in 1964 as twin department of Bio-chemical Engineering and Food Technology. Department of Bio-chemical Engineering 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 30 students. It also offers a full time M Tech program in Chemical Technology with specialization in Bio-chemical Engineering. Department has well equipped laboratories with modern facilities to meet out necessities of different programs.

### **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 center 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.

## **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 are as 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 Outcomes (PEOs)**

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.
2. Graduates will exhibit entrepreneurship, leadership and high professional skills while still maintaining ethical and moral values.
3. Graduates will continuously strive and align their activities for the betterment of the society.

## **3. DEPARTMENT OF FOOD TECHNOLOGY**

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 30 students. It also offers a full time M Tech program in Chemical Technology with specialization in Food Technology. Department has well equipped laboratories with modern facilities to meet out necessities of different programs.

### **Vision**

To develop technically sound technologist who can make difference in the field of Food Technology and to cater the needs of industry, research & development organization and society.

### **Mission**

- To assist and promote the growth of food industry of the region through technology and technical services.



- To add value and utility to agro-resources through R&D
- To develop state-of-art technologies for testing and consultancy for industry and society.
- To develop human resource for the food industry

#### **4. DEPARTMENT OF LEATHER TECHNOLOGY**

Department of Leather Technology was established in 1978 to meet the specific demand of skilled / trained manpower in the emerging areas of Leather Industry. Department of Leather Technology is running a B Tech program in Leather Technology with intake of 20 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 center of excellence in the field of Leather at 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)**

1. To produce graduates and post graduates who will be able to meet the requirements and challenges at national & international levels in the field of formulation, manufacture and application of Leather and allied products.
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 & sustainability.
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, specially the rural community.

#### **5. DEPARTMENT OF OIL TECHNOLOGY**

Department of Oil Technology was established in 1921. It offers B Tech program in Oil Technology with intake of 30 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 Technologists to fulfill 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)**

1. Graduates of the program will contribute to the development of sustainable growth of engineering and Oil Technology sector for the betterment of society.
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.
3. Graduates of the program will accept and create innovations in providing solution for sustainable technological development.
4. Graduates of the program will discharge their duties as professional engineer and Oil Technologist with quality and ethics

## **6. DEPARTMENT OF PAINT TECHNOLOGY**

Department of Paint Technology was started as twin department of Oil and Paint Technology in 1964 with a three year BSc degree in Paint Technology. In 1991, it was converted to a four year B Tech program after Intermediate to be at par with other Engineering and Technology programs. Department of Paint Technology was given separate identity on January 09, 2017. Department has well furnished laboratory facilities. Government has recognized the Department for providing the certificates to government and private agencies related to paints.

### **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 center of research and innovation for betterment of society in sustainable manner.
- 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)**

1. Be globally competent in the field of pigments, resins, paints and additives processing and allied areas to cater the need of country.
2. Develop innovative designs, production of materials and processes for sustainable development of society.

3. Serve the industry to meet the challenges in terms of quality assurance and standardization to withstand the global competitiveness.
4. Discharge duties with professional attitudes and ethics.

## **7. DEPARTMENT OF PLASTIC TECHNOLOGY**

Department of Plastic Technology was established in 1921. It offers B Tech program in Plastic Technology with intake of 30 students. Department host 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)**

1. Graduates will be technically competent in the field of polymers, resins, processing and allied areas to cater the need of country.
2. Graduates will be able to innovate in designs, production of materials and processes for sustainable development of society.
3. Graduates will serve the industry to meet the challenges in terms of quality assurance and standardization to withstand the global competitiveness.
4. Graduates will discharge duties with professional attitudes and ethics.

## **2.2.3 UNIVERSITY DEPARTMENTS: SCHOOL OF BASIC & APPLIED SCIENCES**

### **1. DEPARTMENT OF CHEMISTRY**

Department of Chemistry is one of the oldest departments of this University. It caters to the needs of undergraduate and post graduate students of Engineering and Technology. Department extends testing and consultancy facilities to the industries of Kanpur. Department has very good laboratory facilities and contributes handsomely to research activities of the University apart from Ph D program.

### **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 frontiers in the field of life sciences, physical sciences, medicine, energy and materials

## **2. DEPARTMENT OF MATHEMATICS**

The Department of Mathematics was established in 1961. It caters to the needs of undergraduate and post graduate students of Engineering and Technology. It also caters to the needs of MCA students. Department has very qualified faculty members and contributes handsomely to research activities of the University apart from Ph D program.

### **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.

## **3. 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. Department has very qualified faculty members and contributes handsomely to research activities of the University apart from Ph D program.

### **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 UNIVERSITY DEPARTMENTS: SCHOOL OF HUMANITIES & SOCIAL SCIENCES**

### **1. DEPARTMENT OF HUMANITIES**

Department of Humanities was established in 1965. It caters to the needs of undergraduate and post graduate students of Engineering and Technology. It also offers courses to MCA students. Department has very qualified faculty members and contributes handsomely to research activities of the University. Department offers PhD admissions in Economics and Management streams.

### **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.

## 3. ACADEMICS

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.

### 3.1 Academic Programs

University runs 13 B Tech programs in different Engineering and Technology departments. It offers full time M Tech programs in seven streams and part-time M Tech programs in six streams. It also runs a regular Master of Computer Application (MCA) program. All the departments of the University offer regular PhD programs.

First Ordinances for B Tech, M Tech, MCA and PhD programs are duly approved by Academic Council and Executive Council of the University and are applicable to new entrants to above programs from session 2018-19. All the Ordinances are being reproduced to the benefit of the students for ready reference.

### 3.2 B TECH ORDINANCES

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 programs 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 PROGRAMS OF STUDY

The University offers BTech programs under different Schools of the University as detailed hereunder:

<b>A. School of Engineering</b>	<b>Sanctioned Seats</b>
B. Tech. (Electronics Engineering)	45
B. Tech. (Electrical Engineering)	33
B. Tech. (Mechanical Engineering)	60
B. Tech. (Civil Engineering)	30
B. Tech. (Computer Science & Engineering)	60
B. Tech. (Information Technology)	30
<b>B. School of Chemical Technology</b>	
B. Tech. (Chemical Technology-Plastic Technology)	30
B. Tech. (Chemical Technology-Paint Technology)	30
B. Tech. (Chemical Technology-Oil Technology)	30
B. Tech. (Chemical Technology-Biochemical Engineering)	30
B. Tech. (Chemical Technology-Leather Technology)	20
B. Tech. (Chemical Technology-Food Technology)	30
B. Tech. (Chemical Engineering)	50

### C. School of Basic and Applied Sciences

Presently, no program is being offered at the undergraduate level. However, the faculty member of this School offers Basic Science Courses to undergraduate, postgraduate and PhD students of the University apart from running Ph.D. program.

### D. School of Humanities and Social Sciences

Presently, no program is being offered at the undergraduate level. However, the faculty members of this School offer Humanities, Social Science and Management Courses to undergraduate, postgraduate and PhD students of the University apart from running Ph.D. program.

## 3. ADMISSIONS

- 3.1 The University offers Full time B.Tech. Degree programs in various disciplines of Engineering and Technology.
- 3.2 Admissions to B.Tech. programs 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 program 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.



- 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 total of 20% supernumerary 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 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.
- 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 program 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 should have passed 12th standard of U.P. Board or (10 + 2) Examination from any other board with a minimum aggregate of 60% marks (55% in case of the candidates belonging to SC/ST category) in Physics, Chemistry and Mathematics without grace in any of these subjects. In addition, candidate should have studied a minimum of five subjects (including the above three and English) in his / her qualifying examination. In addition, all other eligibility conditions for appearing in JEE (Mains) Examination shall be applicable to the candidates.

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

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 program shall be eligible for admission directly to the second year as per AICTE norms. The admission under this category shall be made through a National Level Entrance Examination conducted by the University. The candidates of UP domicile, who have passed B.Sc. in Physics, Chemistry and Mathematics 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.

#### **5. PROGRAM DURATION**

- 5.1 The duration of all B Tech programs 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 program 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. programs 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 allotted category and (c) branch choice preference to those who passed without any carryover 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 super numerary 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 A candidate admitted under Fee-Waiver category shall be eligible for branch change only in Fee Waiver category, if UP State Government norms permit on the basis of merit under Clause 6.2.
- 6.5 The last date of branch change in the III semester shall be August 31 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, practicals and other prescribed curricular and co-curricular activities. However, a condonation of 25 percent attendance in a subject 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 and 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 and 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) in that subject. Students not allowed to appear in the examination due to poor attendance shall be awarded "U" grade.
- 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 The University follows a Credit Based Evaluation System. Every program 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. All the Chemical Engineering related subjects as recommended by BoS of Chemical Technology Departments taught by Department of Chemical Engineering are considered as PCC for the respective branches of Chemical Technology. Different types of courses and their credits are listed in Table-1.

**Table-1 : Different Types of Courses and their Credits**

<b>Different Types of Courses</b>	<b>Minimum Credits</b>
Basic Science Courses (BSC)	24
Engineering Science Courses (ESC)	26
Hum., Social Sc. & Management Courses (HSMC)	11
Program Core Courses (PCC)	61
Program Elective (PEC)	19
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 work load for all B.Tech. programs of the University is uniformly 172 credits.

## **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 practical training could be carried out in an industry, research organizations, other institute or any other organization of repute in the subject domain. Once the practical training is complete, the student shall have to submit a report cum Training Dairy to the concerned Head of Department through the In-charge, Practical Training. The evaluation of Industrial Training shall be done in the VII semester by a duly constituted Department Committee comprising of the Head, Practical Training In-charge and a senior faculty of the

Department. Students who are selected and have undergone Summer 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) Programs

Participation in National Service Scheme (NSS) training is compulsory for all the Undergraduate students. Activities under NSS are meant for character building and to sensitize the students towards social / national issues. Students are required to complete the NSS requirements within the first six semesters. These activities shall normally be conducted during evenings on the week days or Sundays / Holidays. These activities carry no credits but a student should obtain 'S' grade for a satisfactory performance in NSS. The students are also required to participate in Games & Sports / Cultural / Literary / Field activities under the domain of University Student Activity Council (USAC). These activities carry no credits but a student should obtain 'S' grade for a 'satisfactory' performance.

### 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 subject offered during the semester, Semester Grade Point Average (SGPA) shall be calculated.

**Table-2 : Grading Scheme**

Marks (Out of 100)	Grade Obtained	Grade Points	Description
90 and above	A1	10	Outstanding
80 and above	A	9	Excellent
70 and above	B	8	Very Good
60 and above	C	7	Good
50 and above	D	6	Average
40 and above	P	5	Barely Passed
Less than 40	F	0	Fail

Other symbols: W=Withdrawn; U=Short Attendance; I=Incomplete and S=Satisfactory

#### 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. "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.

#### 9.3 Calculation of SGPA and CGPA

The performance of a student shall be evaluated in terms of two indices: Semester Grade Point Average (SGPA) which is Grade Point Average for a Semester and Cumulative Grade Point Average (CGPA) which is Grade Point Average of all the completed semesters cumulatively.

**Semester Grade Point Average (SGPA)**

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

**Cumulative Grade Point Average (CGPA)**

$$\text{CGPA} = \frac{\sum \text{Cumulative Grade Points secured in all passed subjects}}{\sum \text{Cumulative total credits offered}}$$

The CGPA is calculated on the basis of all passed courses with 'P and above grades' except courses in which 'S' grade is awarded.

**9.4 Award of Division**

CGPA 8.000 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 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
5.	Industrial Training	-	50	-	50	50	100
6.	Project VII	-	50	-	50	50	100
7.	Project VII	-	50	-	50	50	100

Internal Evaluation of Project in VII Semester will be conducted by the Department Committee. Evaluation of Project in VIII Semester will be conducted by External Examiner.

**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 for 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. They may be permitted only one Make up Examination. This 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 Carryover Examination in the subsequent years. However, the Sessional Marks obtained by these students will remain the same as earned in the first attempt.

## **11. 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) First year student must secure a minimum CGPA of 3.500 in order to be promoted to the next year. If a student fails to fulfill this requirement of 3.500 CGPA, he / she shall be considered 'Fail' and will have to repeat the First year by taking Readmission or opting for Ex-student status as per Clause 11.3 in the subsequent academic year. If a student after taking Re-admission again fails to fulfill the requirement of 3.500 CGPA, his / her Enrollment will be cancelled / terminated and such student will have to leave B. Tech program.
- 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 of Second year and onwards shall have to maintain a minimum CGPA of 5.000 at the end of each year, failing which he / she will be considered 'Fail' and will have to repeat the year after taking readmission in the same class paying full semester fee.

11.3 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) A candidate opting for Ex-student 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-student 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 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 program securing 'P and above grades' in all the courses in the stipulated maximum duration for the B Tech program 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 8.000 or above shall be awarded FIRST DIVISION WITH HONOURS.

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. program 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 program and secures a CGPA less than 6.500 shall be awarded SECOND DIVISION.

12.5 Best three performers in each program 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 program within stipulated four years from the date of admission without any carryover.

**a. Chancellor's Medal**

Toppers of all B Tech programs 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 program. 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 program; 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 Vice Chancellor in case of serious illness / natural calamities / unavoidable circumstances upon the recommendation of Dean of Academic 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 / ENTERPRENURIAL 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.

**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 / 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 and the material recovered is relevant to the subject / 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 Clauses 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. GENERAL 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 with 'P and above grades' in all the courses and other requirements of the programs prescribed in the Ordinances or as prescribed by the University from time to time.
- b. Completed the requirements of NSS, Games and Sports, Cultural / Literary activities.
- c. Has no dues to the University, Hostels, Library and USAC etc., and ;
- d. No disciplinary action is pending against the student.

#### **17. 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, barring from the placement facility and / or termination from the University. The decision of the Vice Chancellor shall be final and binding.

#### **18. 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.

### **3.3 MTECH 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 programs 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. PROGRAMS OF STUDY

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

### A. M. Tech. Full Time Programs

#### a) School of Engineering

M.Tech. in Environmental Science and Engineering (Dept. of Civil Engineering)	18
M.Tech. in Computer Aided Design (Dept. of Mechanical Engineering)	18
M.Tech. in Electronics and Communication Engineering (Dept. of Electronics Engineering)	18

#### b) School of Chemical Technology

M. Tech. in Chemical Engineering (Dept. of Chemical Engineering)	18
M.Tech. in Chemical Technology-Biochemical Engineering (Dept. of Biochemical Engineering)	11
M.Tech. in Chemical Technology-Food Technology (Dept. of Food Technology)	12
M.Tech. in Chemical Technology-Oil Technology (Dept. of Oil Technology)	11

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.

### B. M.Tech. Part Time Programs

M.Tech. in Structural Engineering (Dept. of Civil Engineering)	10
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M.Tech. in Soil Mechanics & Foundation Engineering (Dept. of Civil Engineering)	10
M.Tech. in Power Electronics and Control (Dept. of Electrical Engineering)	10
M.Tech. in Mechanical Engineering Design (Dept. of Mechanical Engineering)	10
M.Tech. in Industrial Systems Engineering (Dept. of Mechanical Engineering)	10
M.Tech. in Chemical Engineering (Dept. of Chemical Engineering)	10

### **3. ADMISSIONS**

- 3.1 University offer M.Tech. degree programs (Full-time / Part-time) in various disciplines of Engineering and Technology.
- 3.2 Admission to M. Tech. programs 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. programs.
- 4.2 Specific details regarding eligibility criteria for admission to various M.Tech. programs 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 will be admitted on the basis of written test carried by the University.
- 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.

### **5. PROGRAM DURATION**

- 5.1 The duration of M. Tech. program for Full time students shall be two academic years (four semesters). Part time M. Tech. program duration is three academic years (six 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. program for Full time students shall be three years and five years for the Part-time students. 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.

### **5.5 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 the rules.

#### **b) Sponsored Scholar**

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 University shall not provide any assistantship / scholarship to such students.

#### **c) Part Time Scholar**

A student working in an organization within 100 kilometers distance from the University and fulfilling all other eligibility criteria may be considered for admission to M.Tech. programs under this category.

### **6. 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.

### **7. ATTENDANCE**

- 7.1 Students are required to attend all the classes - lectures, tutorials, practicals, research works and other prescribed curricular and co-curricular activities. However, a condonation of 25% in attendance in a subject may be granted in normal course during the semester.
- 7.2 A further relaxation of 15% can be granted by the Vice Chancellor on specific recommendations of the Head of the Department and Dean of concerned 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 Head of the Department and the Dean of concerned School. 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) in that subject. Students not allowed to appear in the examination due to poor attendance shall be awarded "U" grade. Such candidates shall have to fulfill the eligibility of minimum attendance by registering afresh in that subject in subsequent years to clear the subject.
- 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

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 1.

**Table-1 : Different Types of Courses and Their Credits**

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

## 9. GRADING AND EVALUATION SCHEME

### 9.1 Grading System

Students are evaluated out of 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 student in all the subjects offered during the semester, Semester Grade Point Average (SGPA) is calculated.

**Table 2: Grading Scheme**

Marks (Out of 100)	Grade Obtained	Grade Points	Description
90 and above	A1	10	Outstanding
80 and above	A	9	Excellent
70 and above	B	8	Good
60 and above	C	7	Average
50 and above	D	6	Barely Passed
Less than 50	F	0	Fail

**Other symbols: W=Withdrawn; U=Short Attendance; I=Incomplete and S=Satisfactory**

### 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 type of courses.

### 9.3 Calculation of SGPA and CGPA

The performance of a student shall be evaluated in terms of two indices : Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) which is Grade Point Average of all the completed semesters.



**Semester Grade Point Average (SGPA)**

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

**Cumulative Grade Point Average (CGPA)**

$$\text{CGPA} = \frac{\sum \text{Cumulative Grade Points secured in all passed subjects}}{\sum \text{Cumulative total credits offered}}$$

The CGPA is calculated on the basis of all passed courses in 'D and above grades' except courses in which 'S' grade is awarded.

**Award of Division**

CGPA of 8.000 or above	First Division with Honors
CGPA of 6.500 or above	First Division
Below a CGPA of 6.500	Second Division

**9.4 Conversion of CGPA to Absolute Percentage**

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

**Table-2 : Evaluation Scheme**

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 Course	-	20	30	50	50	100
4.	Seminar	-	50	-	50	50	100
5.	Dissertation	-	50	-	50	50	100

**9.5 Evaluation Scheme for Dissertation (in Semester III)**

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

The Dissertation work will be evaluated in III Semester by Department Post Graduate Committee (DPGC) consisting of Head of Department, Supervisor, one senior faculty member of the Department and a senior faculty mentor from other Department nominated by the Vice Chancellor.

**9.6 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 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.

- One publication / acceptance for publication in a reputed International Journal.
- Two publications / presentations in International Conference (s) out of which one may be a poster presentation.
- 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 brought out by the university from time to time. 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.

### **9.7 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 make-up examination. They may be permitted only one Make-up examination. This examination will be conducted one week before the End Semester Examination from the whole syllabus covered till date.

### **10. CARRYOVER 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.

### **11. SUPERVISION OF RESEARCH WORK**

#### **11.1 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.

#### **11.2 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.

#### **11.3 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.

#### **11.4 Monitoring of Research Work**

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

### **11.5 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 full filled 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 of different students. External Examiner is not allowed evaluation of more than two M. Tech. Thesis 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.

### **11.6 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 Centraland Regional Laboratories.

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

1. A candidate may be allowed Re-admission provided he / she satisfies one of the following conditions:
  - (a) First year student must secure a minimum CGPA of 5.500 in order to be promoted to next year. If a student fails to fulfill this requirement of 5.500 CGPA, he / she shall be considered 'Fail' and will have to repeat the First year by taking readmission or opting for ex-student status as per Clause 12.3 in the subsequent academic year. If a student after Re-admission again fails to attain a CGPA of 5.500, his / her admission will be cancelled and such students shall have to leave the M.Tech. program.

- (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.
- 2. Students of Second year shall have to maintain a minimum CGPA of 6.000 at the end of second year, failing which he / she shall be considered 'Fail' and have to repeat the year after taking readmission in the same class by paying full fee.
- 3. 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.

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

- 13.1 A candidate who completes the course requirements for M. Tech. program securing 'D and above grades' in all the courses in the stipulated maximum duration for the M. Tech. program shall be declared 'qualified' for the award of degree subject to the fulfillment of the requirements of Clause 12.
- 13.2 A candidate who qualifies for the award of the degree securing 'D or above grades' in all the subjects in his / her first attempt in four consecutive semesters (six consecutive semesters for Part time programs) and secures a CGPA of 8.000 or above shall be awarded FIRST DIVISION WITH HONOURS.
- 13.3 A candidate who qualifies for the award of the degree by securing 'D or above grades' in all the subjects in the stipulated maximum duration for the M.Tech. program and secures a CGPA of 6.500 and / or above shall be awarded FIRST DIVISION.
- 13.4 All other candidates who qualify for the award of degree by securing 'D or above grades' in all subjects in the stipulated maximum duration for the M.Tech. program and secures a CGPA less than 6.500 shall be awarded SECOND DIVISION.
- 13.5 Best performers in each Full time M.Tech. program 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. The overall topper in the University amongst Full time M.Tech. program will be adjudged 'University Topper' on the basis of highest CGPA.
- 13.6 Following Medals shall be awarded annually by the University to those students who complete there Degree programs within stipulated two years duration without any carryover.

#### **a) Chancellor's Medal**

Toppers of all M.Tech. programs 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.

### **14. REGISTRATION AND ENROLMENT**

- 14.1 Students must register at the start of each semester on the prescribed dates announced in the Academic Calendar till he / she completes the program. 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.

14.2 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.

14.3 Every student admitted in the University will be provided a unique Roll Number. The Roll Number shall have nine digits. First two digits shall indicate the year of admission; next two the degree program; 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.

14.4 Students with outstanding dues to the University or hostel etc. shall be permitted to register only after clearing the outstanding dues.

14.5 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.

14.5 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.

#### **15. 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. programs. 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.

#### **16. USE OF UNFAIR MEANS**

16.1 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.

16.2 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.

16.3 In addition to either of the above charges at 16.1 or 16.2, if a student is found misbehaving with the teachers / staff or creating indiscipline in the examination premises, such students will be rusticated from the University for one year.

16.4 For all other cases not covered in Clauses 16.1 to 16.3, 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.

## **17. 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.

## **18. GENERAL 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 'D and above grades' in all the courses and all other requirements of the programs 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.

## **19. 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.

## **20. 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 students, students shall be liable for punishment. On the recommendation of Proctorial Board the punishment may be awarded 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.

## **21. POWER TO MODIFY THE ORDINANCES**

Notwithstanding 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.

## **3.4 MASTER OF COMPUTER APPLICATION 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 programs 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.

## **2.1 ADMISSIONS**

- 2.1.1 University offers full time Master of Computer Applications (MCA) Degree Program.
- 2.1.2 Admission to MCA shall be made through a reputed Entrance Examination conducted by the National Level Examination Body engaged with Central Engineering Institutions / National Institute of Technology for Master of Computer Applications through National Level Common Entrance Test e.g., NIMCET etc.
- 2.1.3 The reservation policy as prescribed by U.P. State Government or its directions from time to time shall be adhered to by the University.
- 2.1.4 Admission on migration of a candidate from any other University to Harcourt Butler Technical University is not permitted.
- 2.1.5 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.

## **2.2 ELIGIBILITY**

Qualifications for admission to MCA program shall be as per the provisions of these Ordinances and decisions of the Academic Council / 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) Admissions will be made on the basis of merit of NIMCET.

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

Candidates who have passed 3 years Diploma in Bachelor of Computer Application (BCA) with a minimum 60% marks without grace from any recognized University of India and are domicile of UP, shall be eligible for admission directly in Second Year. These admissions shall be based on the merit of the candidates in the National Level Entrance Examination conducted by the University.

- 2.2.3 Specific details regarding eligibility criteria for admission to MCA Program shall be as prescribed by the University from time to time.
- 2.2.4 Academic Council of the University shall have the power to repeal and modify the eligibility criteria for admissions.

## **3. PROGRAM DURATION**

- 3.1 The duration of the MCA program shall be three academic years (six semesters) and for Lateral Entry 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 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 Maximum time allowed for completion of the program shall be five years, while for lateral entry students it shall be four years. If a student is unable to complete the course in stipulated maximum duration, his / her admission may be cancelled.

## **4. ATTENDANCE**

- 4.1 Students are required to attend all the classes - lectures, tutorials, practicals and other prescribed curricular and co-curricular activities. However, a condonation of 25 per cent in attendance in a subject may be granted in normal course during the semester.
- 4.2 A further relaxation of 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 is required. In case of medical exigencies, the student is required to report immediately after the medical fitness issued by the hospital.
- 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 to appear in the examination due to poor attendance shall be awarded "U" grade. Such candidates shall have to fulfill the eligibility of minimum attendance by registering afresh in that subject in subsequent years to clear the subject.
- 4.4 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. CURRICULUM STRUCTURE

The University follows a Credit Based Evaluation System. MCA program will have a specific curriculum for all semesters (semester I to semester VI) consisting of theory, practical and industrial project work, etc., as given in Table.

**Table : Different Types of Courses**

Different types of courses	Minimum Credits
Basic and Applied Maths (BAM)	12
Program Departmental Core Course (PCC)	66
Humanities & Social Science & Management Course (HSMC)	10
Program Elective Course (PE)	12
Project (P)	20
Total	120

Each course is assigned a credits weightage depending upon the academic work load for a subject per week. One hour lecture / tutorial is equivalent to one credit while 2-3 hours practical work is equivalent to one credit. The curriculum for MCA program of study has a total academic work load of 120 credits.

## 6. GRADING SYSTEM AND EVALUATION SCHEME

### 6.1 Grading System

Students are evaluated of a maximum of 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 2. On the basis of performance of the student in all the subjects offered during the Semester, Semester Grade Point Average (SGPA) is calculated.

**Table-2 : Grading Scheme**

Marks (Out of 100)	Grading Obtained	Grade Points	Description
90 and above	A1	10	Outstanding
80 and above	A	9	Excellent
70 and above	B	8	Very Good
60 and above	C	7	Good
50 and above	D	6	Average
40 and above	P	5	Barely Passed
Less than 40	F	0	Fail

Other symbols: W=Withdrawn; U=Short Attendance; I=Incomplete and S=Satisfactory

### 6.2 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 type of courses.

### 6.3 Calculation of SGPA and CGPA

The performance of a student shall be evaluated in terms of two indices : the Semester Grade Point Average (SGPA) which is Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) is the Grade Point Average for all the completed semesters.

**Semester Grade Point Average (SGPA)**

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

**Cumulative Grade Point Average (CGPA)**

$$\text{CGPA} = \frac{\sum \text{Cumulative Grade Points secured in all passed subjects}}{\sum \text{Cumulative total credits offered}}$$

The CGPA is calculated on the basis of all passed courses in 'P or above grades' except in courses where 'S' grades are awarded.

**6.4 Award of Division (CGPA)**

CGPA of 8.000 or above	First Division with Honors
CGPA of 6.500 or above	First Division
Below a CGPA of 6.500	Second Division

**6.5 Conversion of CGPA to Absolute Percentage**

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

**Table-3 : Evaluation Scheme for Various Courses**

Sr. No.	Course Title	Credits	Sessional Marks				ESM	Total Marks
			MSE	TA	Lab	Total		
1.	Theory Course	4(3-1-0)	30	20	-	50	50	100
2.	Theory cum Lab. Courses	4(3-0-2)	15	20	15	50	50	100
3.	Lab Courses	2(0-0-4)	-	20	30	50	50	100
4.	Industrial Project	20(0-0-40)	-	50	-	50	50	100

**6.7 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 make-up examination. They may be permitted only one Make up examination. This examination will be conducted one week before the End Semester Examination and shall cover the whole syllabus till date.

**6.7 Grant of Permission for Internship Abroad**

If a student gets an opportunity for Internship / Industrial Project abroad for a period of six months after V Semester, he / she may be allowed to do so. In such situations, the modalities / grant of permission will be decided by the Vice Chancellor on the specific recommendations of Head of the Department and Dean of concerned School.

**7. CARRYOVER EXAMINATION**

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

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

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

- (a) First year student must secure a minimum CGPA of 4.500 in order to be promoted to second year. If a student fails to fulfill this requirement of 4.500 CGPA, he / she shall be considered 'Fail' and have to repeat the First year by taking Re-admission or opting for Ex-student as per clause 8.3 in the subsequent academic year. If a student after taking Re-admission again fails to fulfill the requirement of 4.500 CGPA, his / her enrollment will be terminated and such students shall have to leave the MCA program.
  - (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.
- 8.2 A student of Second year and onwards shall have to maintain a minimum CGPA of 5.000 at the end of each year, failing which he / she shall be considered 'Fail' and will have to repeat the year after taking Re-admission in the same class paying full fee.
- 8.3 Students having a minimum 75% attendance (60% with medical / academic leave) in last 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-student shall appear in all the theory and practical subjects in the End Semester Examination of both semesters of the academic year. However, Sessional Marks of Industrial Training, Seminar etc. shall remain the same as obtained earlier.

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

- 9.1 A candidate who completes the course requirements for MCA program securing 'P and above grades' in all the courses in the stipulated maximum duration for the MCA program shall be declared '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 8.000 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 program and secures a CGPA of 6.500 and / or above 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 program and secures a CGPA less than 6.500 shall be awarded SECOND DIVISION.
- 9.5 Following Medals shall be awarded annually by the University to the passing out students, subject to completion of his / her degree program within stipulated three 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 six semesters in MCA in first attempt 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 till she / he completes the program. If a student does not register in a particular

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

- 10.2 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. Registration will not be allowed after stipulated date. In that case the students will have to register at the start of next academic session.
- 10.3 Every student admitted to University shall 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 program; 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 with outstanding dues to the University or hostel etc. 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 Enrolment Form within one month of registration for getting enrolled with the University.

#### **11. 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 MCA. Such students on completion of Degree shall be allowed by the University for Campus Placement provided that she / he 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 3 shall be relaxed to those students who opt this facility.

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

- 12.1 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.
- 12.2 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.
- 12.3 In addition to either of the above charges at 12.1 or 12.2, if a student is found misbehaving with the teachers / staff or creating indiscipline in the examination premises, such students will be rusticated from the University for one year.
- 12.4 For all other cases not covered in Clauses 12.1 to 12.3, the Chairman, Board of Examination will recommend punishment on case to case basis and obtain approval of Vice Chancellor in accordance with the Clause 37.8 of the University Act.

#### **13. GENERAL ELIGIBILITY FOR AWARD OF MCA DEGREE**

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

- 13.1 Registered and successfully passed with 'P and above grades' in all the courses and all other requirements of the programmes prescribed in the Ordinances or as prescribed by the University from time to time.
- 13.2 Has no dues to the University, Hostels, Library and USAC etc., and
- 13.3 No disciplinary action is pending against the student.

#### **14. STUDENT DISCIPLINE**

All the students of the University 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 the students, the student shall be liable for punishment. On the recommendation of Proctorial Board, the punishment may include 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.

#### **15. 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, 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.

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

**Department Offering PhD Programs**

- 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 & Social Sciences
- 2.2 Admissions to Ph.D. program 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 a 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.

- 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. programs 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 in the Applied Chemistry / Physics / Mathematics. The number of such seats shall be additional to the existing available seats of the School of Basic and Applied Sciences.
- 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 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 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-2 are eligible for the admission to Ph.D. programs of the University.

**Table-1 : Eligibility Criteria for Admission to various PhD Program**

Sl. No.		Minimum Eligibility Criteria	
		Unreserved Category	Reserved Category (OBC/SC/ST/PH)
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 (ii) Candidates having B. Tech. degree with minimum 75% marks with 2 years professional experience (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)	i) M. Tech. / M. E. Degree in relevant discipline with a minimum of 55 % or equivalent CGPA / CPI ii) Candidates having B. Tech. with minimum 70% marks with 2 years professional experience iii) MCA degree with a minimum of 55 % 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. (ii) Candidates having B. Tech. degree with minimum 75% marks with 2 years	(i) M. Tech. / M. E. degree in relevant discipline with a minimum of 55 % marks or equivalent CGPA / CPI (ii) Candidates having B. Tech. with

		professional experience (iii) Candidates with M. Sc. degree with minimum 60% marks in Chemistry / Industrial Chemistry / Applied Chemistry / Bio Technology or equivalent	minimum 70% marks with 2 years professional experience (iii) Candidates with M. Sc. degree with minimum 55 % 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	M. Sc. degree in relevant discipline with a minimum of 55 % 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	Master degree in relevant discipline / subject with a minimum of 55 % marks or equivalent CGPA / CPI

2.6 Essential qualification and procedure for applying requirements for the admission to Ph.D. degree program 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 doing 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. program 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 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 centres 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 subject to the terms and conditions prescribed by the University. Eligible faculty / staff members of the University shall be treated as Part-Time research scholars. The University may relax / exempt tuition and placement fee for their staff and faculty members admitted to the Ph.D. programs.

#### **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 programs. 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 Supervisor should be from the same Department in which the student has taken admission; and Co-Supervisor may be from same department with different expertise / subject or from other Department. Co-Supervisor may be from outside the University in case the research work is to be carried out at the place of proposed Co-Supervisor. Principal Supervisor shall be from HBTU Kanpur.
- 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 Co-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 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 Co-Supervisor 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 Co-Supervisor in such cases.
- 3.8 No change / addition of Supervisor will be allowed after grant of permission to submit the thesis.
- 3.9 In case of change of Supervisor due to unavoidable reasons, 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). See Table-2

**Table-2 : Constitution of RDC**

1. The Vice Chancellor or nominee	Chairman
2. Dean of the concerned School	Member

3. Two subject expert having Doctoral degree in the related area, preferably, Professor / Associate Professor from outside universities to be nominated by the Vice Chancellor	Member
4. Dean of Research and Development or nominee	Member
5. Head of the concerned Department	Member
6. Supervisor of the concerned student	Convener

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 tenure of the RDC shall be of two years or as per the University / UGC guidelines.

## 5. PhD COURSE WORK

5.1 Research Scholar should complete course work of a minimum of 12 credits and a maximum of 16 credits. (As per clause no. 7 of UGC Regulations 2016)

5.2 The course work should be related to research methods, computer application and review of published researches in relevant field, training, field work, etc. Other courses shall be of advanced level to prepare the students for Ph.D. Degree.

5.3 Students should complete the course works as follows: See Table-3

**Table : Details of Course Work Requirement**

Sl. No.	Research Scholar	Minimum courses required	Compulsory courses
1	Research scholar with Master Degree in respective discipline / subject	4 courses 1: compulsory courses 3: advanced level courses	Research Methodology or Introduction to Research Methods
2	Research scholar with B.Tech. Degree	6 courses 1: compulsory courses 5: advanced level courses	Research Methodology or Introduction to Research Methods

5.4 Candidates already holding M. Phil. degree and admitted to Ph.D. program may be exempted by the 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 CGPA of 6.500 as per University Grading System in all courses in order to be eligible to continue in the program.

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 on written request of the Research Scholar.

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 procedure, rules for unfair means etc. shall be as per the University norms applicable to Postgraduate programs of the University.

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

## **6. PROGRAM DURATION**

6.1 The Full-time PhD program shall be of a minimum of 03 years duration and a maximum of 06 years.

6.2 Part-time / Sponsored PhD program shall be of a minimum duration of 04 years and maximum of 06 years.

6.3 The extension of program duration beyond the stipulated time mentioned in 6.1 and 6.2 may be a maximum of one year after the approval of RDC.

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 programs 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 fellowship / scholarship are required to sign in attendance register in the Department on such working day.

8.3 All Full-time Ph.D. scholars without scholarship / fellowship are required to frequently contact the Supervisor in relation to research work.

8.4 All Part-time Ph.D. scholars are required to produce a certificate before RDC from the Supervisor / Co-Supervisor indicating their presence in Department for a minimum of 30 days for research work during the Semester.

8.5 There is no Summer or Winter vacation for the research scholars.

8.6 Leave rules for Full time PhD scholars with fellowship / scholarship shall be as per the University 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 works and preparing Ph.D. synopsis. First RDC shall approve the course works, 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.

**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 is 10 percent for the acceptance of Ph D thesis as prescribed by UGC.
- 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 and 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 students, 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. theses, the Supervisor will recommend a panel of 05 Examiners from Central Technical Institutions, Central Universities, Institute of National Importance, State Technical Institutions, State Universities, Approved Govt. Research Organizations, 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 hard 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), concerned Head of the Department and Dean of School are to be sent to the Controller of Examination. 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 given below :

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- 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 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 theses evaluation process, electronic mode e.g. e-mail route shall be used for obtaining consent of the Examiner and sending a soft copy of 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 any one of the two Examiners in a period of three months from the date of dispatch, two reminders will be dispatched (after a gap of one and two months). 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 Reports of both the Examiners shall be presented by the Controller of Examination to RDC. 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: See Table-4

**Table-4 : Outcomes of Final Viva-voce Examination**

Sl. No.	Status of evaluation report of thesis Viva- voce Examination	Remark
1.	Satisfactory	Recommendation of Ph.D. degree be awarded 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> The PhD Degree shall be awarded in the convocation.
2.	Unsatisfactory	Re-appear for Thesis Defense before the Viva -Voce Board after a lapse of three months as scheduled and notified by Controller of Examination after due recommendation of the Supervisor.

- 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. program

- 11.1.1 A student admitted to a Full-time PhD program may be permitted to change to a Part time program. 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 residential requirement. Such request may be forwarded by the Supervisor(s) and the Head of the concerned

Department. Student is also required to produce No Objection Certificate from the Head of the institution / organization which he / she proposes to join.

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

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

**11.2 Termination from Ph. D. program**

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 program 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 program 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 Hon. Vice Chancellor shall not be treated as precedence under any circumstances.

### 3.6 Academic Calendar

Academic Calendar for each session is duly prepared by the Academic Section with active consultation with all concerned including all the Heads of the Department, Deans of the University, Controller of Examination and University Student Activity Council. The Calendar is finalized by the Academic Council.

#### ACADEMIC CALENDER (ODD SEMESTER 2018-19)

Odd Semester, 2017-18 Dates (Days)	Activity
<b>23/07/2018 – 24/07/2018 (Monday Tuesday)</b>	Online Registration of B.Tech. (II, III, IV), M.Tech. (Full time and Part Time) (II, III), MCA (II, III) & Ph.D.
25/07/2018 (Wednesday)	Commencement of B.Tech. (II, III, IV), M.Tech. (Full time and Part Time) (II, III), MCA (II, III) & Ph.D. classes*
31/07/2018 (Tuesday)	Online Registration of all First Year B.Tech., M.Tech. (Full time and Part Time) MCA & Ph.D.
	Orientation Program
01/08/2018 (Wednesday)	Commencement of all First Year B.Tech., M.Tech. (Full time and Part Time) MCA & Ph.D. classes*
<b>15/08/2018 (Wednesday)</b>	<b>Independence Day</b>
<b>22/08/2018 (Wednesday)</b>	<b>Eidul - Adha (Bakr-Id)</b>
<b>26/08/2018 (Sunday)</b>	<b>Rakshabandhan</b>
28/08/2018 - 30/08/2018 (Tuesday - Thursday)	Online Submission University of Enrollment Form
06/09/2018 - 08/09/2018 (Thursday - Saturday)	First Class Test (Third and Final Year)
15/09/2018 (Saturday)	Last date for showing the evaluated answer sheets of First Class Test
<b>21/09/2018 (Friday)</b>	<b>Muharram</b>
<b>02/10/2018 (Tuesday)</b>	<b>Gandhi Jayanti</b>
11/10/2018 - 13/10/2018 (Thursday - Saturday)	Mid Term Exam For I & II year and Second Class Test for III & IV year
<b>18/10/2018 (Thursday)</b>	<b>Mahanavami</b>
<b>19/10/2018 (Friday)</b>	<b>Dussehra</b>
26/10/2018 - 28/10/2018 (Friday - Sunday)	Cultural Festival
02/11/2018 (Friday)	Last date for showing the evaluated answer sheets of First Class Test
<b>05/11/2018 - 10/11/2018 (Monday - Saturday)</b>	<b>Semester Break for students and faculty</b>
<b>07/11/2018 (Wednesday)</b>	<b>Diwali</b>
<b>08/11/2018 (Thursday)</b>	<b>Goverdhan Puja</b>
<b>09/11/2018 (Friday)</b>	<b>Bhai Dhoj and Chitrgupt Jayanti</b>
<b>21/11/2018 (Wednesday)</b>	<b>Id - e - Milad</b>
<b>23/11/2018 (Friday)</b>	<b>Guru Nanak Birthday</b>
22/11/2018 - 28/11/2018 (Thursday - Wednesday)	Online Submission Examination Form with Carry Over Exam form

22/11/2018 - 28/11/2018 (Thursday - Wednesday)	Online Submission Examination Form with Carry Over Exam form
24/11/2018 - 25/11/2018 (Saturday - Sunday)	Alumini Meet
25/11/2018 (Sunday)	Foundation Day
30/11/2018 (Friday)	Last date for submitting Examination form with carry over exam fee receipt and Last Date of Odd Semester Teaching
05/12/2018 - 15/12/2018 (Wednesday - Saturday)	End Semester Theory Examinations
17/12/2018 - 22/12/2018 (Monday - Saturday)	End Semester Practical Examinations
22/12/2018 (Saturday)	Last date for showing the evaluated answer sheets of End Semester Examinations and submission of End Semester Theory & Practical marks
<b>24/12/2018 - 31/12/2018 (Monday - Monday)</b>	<b>Winter vacation for faculty</b>
01/01/2019 (Tuesday)	Commencement of even semester & classes**

#### ACADEMIC CALENDER (EVEN SEMESTER 2018-19)

Dates (Days)	Scheduled Activity
01/01/2019 (Tuesday)	Commencement of even semester & classes**
02/01/2019 - 03/01/2019 (Wednesday - Tuesday)	Online Registration of all B.Tech. / M. Tech./ MCA/ Ph.D. Students.
<b>26/01/2019 (Saturday)</b>	<b>Republic Day Celebration</b>
20/02/2019 - 22/02/2019 (Wednesday - Friday)	First Class Test (Third and Final Year)
23/02/2019 - 24/02/2019 (Saturday - Sunday)	Athletic Meet
<b>04/03/2019 (Monday)</b>	<b>Maha Shivratri</b>
06/03/2019 (Wednesday)	Last date for showing the evaluated answer books of First Class Test
<b>20/03/2019 - 27/03/2019 (Wednesday - Wednesday)</b>	<b>Holi / Mid Semester Break for students and faculty</b>
10/04/2019 - 12/04/2019 (Wednesday - Friday)	Mid Term Exam For I & II year and Second Class Test for III & IV year
<b>17/04/2019 (Wednesday)</b>	<b>Mahaveer Jayanti</b>
18/04/2019 (Thursday)	Last date for showing the evaluated answer books of Mid Semester Test / II Class Test
<b>19/04/2019 (Friday)</b>	<b>Good Friday</b>
20/04/2019 - 25/04/2019 (Saturday - Thursday)	Online Submission Examination Form with Carry Over Exam form
26/04/2019 (Friday)	Last date for submitting Examination form with carry over exam fee receipt and Last Date of Odd Semester Teaching
06/05/2019 (Monday)	Last date of instructions of Even Semester
10/05/2019 - 21/05/2019 (Friday - Tuesday)	Theory Examinations

22/05/2019 - 25/05/2019 (Wednesday - Saturday)	Practical Examinations
31/05/2019 (Friday)	Last date for showing the evaluated answer books and submission of marks
01/06/2019 - 30/07/2019 (Saturday - Tuesday)	Slot for Industrial Training
<b>01/06/2019 - 22/07/2019 (Saturday - Monday)</b>	<b>Summer Vacation</b>
31/07/2019 (Wednesday)	Commencement of Odd Semester, 2019-20

### 3.7 Reservation Policy in Admissions

Admissions to all the programs of the University are made as per U.P. Government rules for reservation and / or Government Orders released from time to time. Presently, candidates only with U.P. domicile are admitted to all the degree programs. Policy for vertical and horizontal reservation is as follows: See Table 5 & 6

**Table-5 : Vertical Reservation (Category-wise)**

S. No.	Category	Percentage of Reservation
1.	Scheduled Caste of U.P.	21%
2.	Scheduled Tribe of U.P.	02%
3.	Other Backward Classes of U.P.	27%

**Table-6 : Horizontal Reservation (Sub-category available in each category)**

S. No.	Sub-Category	Code	Maximum Percentage of Total Seats
1.	Dependents of Freedom Fighter from U.P.	UPFF	02
2.	Sons / Daughters of Defense Personnel of U.P. either retired (superannuated) or killed / disabled in action or Defense Personnel posted in U.P./ Defense Personnel domicile of U.P. & Posted outside U.P.	UPAF	05
3.	Handicapped / Disabled of U.P.	UPHC	03
4.	Girls of U.P.	UPGL	20

- 1) Candidates may be given only one type of horizontal reservation out of UPFF / UPAF / UPHC. However, girl candidates will have claim for any one of UPFF/UPAF/UPHC along with UPGL.
- 2) No request for subsequent change of category / sub-category as filled in Application Form shall be entertained under any circumstances.
- 3) Category / sub-category claim must be supported by the relevant certificates as per proforma available on the University website and should be produced at the time of counseling / reporting, failing which the candidate shall be treated in General Category.
- 4) The advantage of horizontal reservation in Armed Forces sub-category is available to the sons / daughters of 'Defense Personnel of U.P. either retired (superannuated) or killed / disabled in action and 'the dependents settled in U.P.' and 'Defense Personnel posted in U.P.' on the date of JEE (Mains), 2018.
- 5) Please note that the benefit of UPGL sub-category will automatically be given to all the female candidates.

### 3.8 Fee Structure for Different Programs

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. See Table - 7

**Table-7 : Fee Structure for Different Programs**

S. No.	University Fee	B.Tech.	MCA	MTech	PhD
1.	Tuition Fee	70000=00	40000=00	45000=00	12000=00
2.	Caution Money	5000=00	5000=00	5000=00	5000=00
3.	Examination Fee	7000=00	7000=00	7000=00	7000=00
4.	University Development Fee	2000=00	2000=00	2000=00	1000=00
5.	Student Welfare Fund	500=00	500=00	500=00	250=00
6.	Enrolment Fee	1000=00	1000=00	1000=00	2000=00
7.	Admission / Registration Fee	500=00	500=00	500=00	500=00
8.	Council of Student Activity Fee	1000=00	1000=00	1000=00	1000=00
9.	Identity Card Fee	100=00	100=00	100=00	100=00
10.	College Day Fees	200=00	200=00	200=00	200=00
11.	Magazine Fee	150=00	150=00	150=00	150=00
12.	Student Add Fee	200=00	200=00	200=00	200=00
13.	Internet Fee	4000=00	4000=00	4000=00	4000=00
14.	Computer Stationery Charges	500=00	500=00	500=00	500=00
15.	Placement Fee	1000=00	1000=00	1000=00	1000=00
16.	Exam Contingency	500=00	500=00	500=00	500=00
17.	Medical Fee	1350=00	1350=00	1350=00	1000=00
18.	Library Fee	1000=00	1000=00	1000=00	1000=00
19.	Laboratory Fee	1000=00	1000=00	1000=00	1000=00
20.	Alumni Membership	1000=00	1000=00	1000=00	1000=00
21.	Information Brochure	200=00	200=00	200=00	200=00
22.	Miscellaneous Fee	100=00	100=00	100=00	100=00
23.	Contingency	-	-	-	16000=00
Total		98300=00	68300=00	73300=00	55500=00

### 3.9 Financial Support to Students

#### TEQIP-III Scheme at HBTU Kanpur

Harcourt Butler Technical University (erstwhile HBTU, Kanpur) had been a part of TEQIP-I and TEQIP-II Schemes. TEQIP-II project had two components, viz. hard component and soft component. Under hard components existing PG laboratories were modernized and new facilities were created. Encouragement was given for internal revenue generation, faculty and student development, research etc. TEQIP-III Scheme is presently running in the University. A good number of PhD scholars are getting assistantship of Rs. 28,000=00 per month through the Scheme. A few research scholars are also receiving assistantship from Pt. Deen Dayal Upadhyay Quality Improvement Scheme of AKTU, Lucknow.

#### Rashtriya Uchchatar Shiksha Abhivan (RUSA) at HBTU Kanpur

University has the privilege to have RUSA Scheme (National Higher Education Mission) under MHRD, Government of India. A sum of Rs. 55.0 crore has been approved to us under Component 1 of RUSA, i.e.

"Conversion of Autonomous College into University". A sum of Rs. 25.0 crore has been approved for Building of Electronics Engineering Department, Lecture Hall Complex, Auditorium and Incubation Hub. Rs.13.0 crore has also been approved for repair and maintenance work of academic and administrative block, hostels, centralized AC for Library and dedicated powerline for West campus. Rs.17.0 crore has been approved for equipment of various laboratories of the University.

#### 4. HOSTEL & MESS FACILITIES

##### 4.1 Hostel for Boys & Girls

East Campus of the University mainly has administrative and academic department buildings. It also has hostels for boys and girls of First Year - two hostels for boys Lake View (Old & New) and four hostels for girls- Girls' Hostel-I, II, III & IV. Two more Girls' Hostels of 200 and 36 seats are near completion. Five hostels are available for senior boys in the West Campus namely - West Campus Hostel-I, II, III and DBRA Hostel-I & II. A 400 seated hostel : WCH-IV is ready for allotment.

Details of seats available in different hostels are listed below:

1.	Girls Hostel-I	Triple seated	105 seats
2.	Girls Hostel-II	Triple seated	105 seats
3.	Girls Hostel-III	Triple seated	105 seats
4.	Girls Hostel-IV	Single seated	118 seats
5.	Girls Hostel-V	Single seated	200 seats
6.	Girls Hostel-VI	Single seated	60 seats
7.	Lake View Hostel (Old)	Double/Triple seated	150 seats
8.	Lake View Hostel (New)	Single/Triple seated	200 seats
9.	West Campus Hostel-I	Single seated	180 seats
10.	West Campus Hostel-II	Triple seated	162 seats
11.	West Campus Hostel-III	Single seated	180 seats
12.	West Campus Hostel-IV	Single seated	400 seats
13.	DBRA Hostel-I	Triple seated	105 seats
14.	DBRA Hostel-II	Triple seated	105 seats

A new Boys Hostel WCH-IV with a capacity of 400 seats is getting readied in the West Campus. Presently, a total of 1095 boys (in 10 hostels) and 433 girls (in 04 hostels) may get University accommodation. All the First Year students may not get hostel accommodation. Hence, accommodation is allotted on the basis of merit.

##### 4.2 Hostel Fees (Refer Table - 8)

**Table : Details of Hostel and Mess Charges**

Sl. No.	Head	Amount
1.	Hostel Fee	14,000=00
	Hostel Security	1,000=00
2.	Mess Advance	33,000=00



**Component-wise Distribution of Hostel Fee**

Room rent	10,000=00
Hostel Management	1,400=00
a. Hostel activity	800=00
b. Electric Fan	400=00
c. Utensils/Crockery	200=00
Hostel Maintenance	600=00
Electricity Charges	2000=00

**4.3 Hostel & 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 not do anything 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 (9:00PM to 6:00AM) in the hostel. A prior permission must be obtained from the warden. If this is not possible due to some 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 during the 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 (9:00PM to 6:00AM). Absence from the hostel without prior written permission from the Warden is illegal.
7. Heaters are not allowed in the hostel. Residents may have Personal Computers.
8. Complaints / difficulties may be conveyed to General Secretary / Prefect concerned for redressal with due consultation with the warden.
9. The hostel mess will be run by the students under 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, Warden 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 the 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.
15. All the inmates are required to vacate the hostel during the summer vacation and handover charge of their rooms, furniture, 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.

Dean of Student Welfare (DSW), who is also the Chairman of the Council of Hostel Activities, has over all control of hostel activities.

**COUNCIL OF HOSTEL ACTIVITIES**

Chairman	Prof. Ram Naresh
Member Secretary	Prof. Alak Kr. Singh
Members	All Wardens

**HOSTEL WARDENS**

Name of Warden	Hostel Name
Dr. Lalit Kr. Singh	Warden, WCH-1
Dr. S.K.S. Yadav	Warden, WCH-2
Dr. Chhagan Lal	Warden, WCH-3
Mr. A.K. Rathore	Warden, WCH-4
Dr. Prabhat Verma	Warden, L. V. OLD
Mr. J.K. Dwivedi	Warden, L. V. NEW
Dr. (Smt.) Archana Singh	Warden, Girls Hostel-1
Dr. (Smt.) Indira Nigam	Warden, Girls Hostel-2
Dr. Rekha Bali	Warden, Girls Hostel-3
Smt. Poonam Malhotra	Warden, Girls Hostel-3
Dr. Anita Yadav	Warden, Girls Hostel-4
Dr. A.K. Shankhwar	Warden, D. B. R. A.-1
Mr. Sumant Chatterjee	Warden, D. B. R. A.-2

**(b) Mess Rules**

All the hostel inmates are required to deposit a sum of Rs.30,000=00 (Thirty Thousand only) as mess advance for an academic year at the time of registration or allotment of room in the hostel. At the end of the 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 is run by the inmates under general supervision of the 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. Guests will be charged according to the number of diets and/or breakfast taken as per the charges fixed by the Mess Committee from time to time. Guest will not be normally allowed to take meals for more than 3 consecutive days unless the host has taken prior permission from the hostel Warden.

5. Outsiders 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.

Efforts are being made to run the mess facility with the help of reputed firms engaged in providing such services.

#### **4.4 Student Discipline**

##### **4.4.1 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 14.2. In case of any act of ragging, indiscipline, vandalism or loss to the university property, necessary disciplinary action is taken by the Chief Proctor / Proctorial Board of the University. The Wardens, Dean and Associate Dean, Student Welfare are responsible for welfare issues of all the 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.

##### **4.4.2 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 / 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 activities also. Students having attendance less than 75% or as decided by University will not be eligible for appearing in class test and End Semester Examination. They may be debarred from 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 indisciplines 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's.

#### **PROCTORIAL BOARD**

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

#### **Conduct of discipline**

1. No student is expected to indulge in any activity which brings down the prestige of the University. Students shall show due respect and courtesy to the teachers and employees of the University. 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 the University) willful damage of University property, 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 shall invite disciplinary action and may lead to punishments, such as reprimand, fine, debarring from examination / placement / cancellation of registration and even dismissal from the University.
4. Warden of the concerned hostel shall have power to reprimand or impose fine against any inmate of the hostel who violates the code of conduct. Warden can also take other suitable actions in consultation with the Dean of Students Welfare or Chief Proctor as desired.
5. Students will not be allowed to pursue at 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 hostel is strictly prohibited.
7. Students are warned against any fraud in money related matters. All such cases which lead to discredit to the University will invite disciplinary action. University shall 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 deem fit.
9. Students must carefully handle the laboratory equipments, instruments, machines, and plants during their course of study. Pasting unauthorized notices is strictly prohibited.
10. Get-together outside the University campus is strictly prohibited without prior permission of the concerned person in University administration.
11. Students are not allowed membership of outside non-academic societies or to join any political activity.
12. Students are not allowed to use mobile phones in the University premises during working hours.
13. Students should always carry their Identity Cards / Registration Cards.

#### **4.5 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 will go unnoticed and unpunished. Broadly, 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 undisciplined manner likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student. 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 is also an act of ragging. 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 the perpetrators. Ragging is banned in the University. Anyone indulging in reprehensible act of ragging will be punished appropriately and First Information Report (FIR) will be lodged 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 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, 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 Education Institutions Act, 2010 (U.P. Act No. 14 OF 2010, as passed by the Uttar Pradesh Legislature), Whoever directly or indirectly commits, participates, abets or propagates ragging within or outside 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.

#### **4.6 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 issued. The students are advised to utilize this facility for the best of their benefit. In addition, the student guardians and teacher guardians are appointed for first year students to take care of the freshers.

### **5. CENTRAL FACILTIY**

#### **5.1 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 of 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 1:30p mon 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 in Daily Newspaper (Hindi and English) and 25 Magazines are also being subscribed in the Central Library for the benefit of students and staff.

#### **5.2 Central Workshop**

Central Workshop of the University provides training assistance to the under graduate, 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, Capstan Lathe, different types of milling, 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 hacksaw etc. are also available.

### 5.3 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.

### 5.4 University Student Activity Council

USAC activities are aimed at grooming the students in co-curricular and extra-curricular skills. It works under the supervision of Chairman, USAC. It has 7 Sub-Councils manned by Conveners.

#### UNIVERSITY STUDENTS ACTIVITY COUNCIL (USAC)

Chairman	Prof. Ram Naresh
Convener, N.S.S. 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	Mr. A.K. Rathore
Convener, Yoga Sub-Council	Dr. (Mrs.) Archana Singh
Convener, Cultural Sub-Council	Dr. Lalit Kumar Singh

The USAC activities are funded from the fees collected from the students as well as the grants received from the government or other agencies.

### 5.5 Training & Placement

Training and Placement Cell of the University in coordination with all the Schools of the University organizes finishing schools, mock interviews and GDs, expert lectures etc. through out the year. Dean, Planning and Resource Generation of this University is responsible for Training T&P Placement Cell of the University. Dean, Planning & Resource Generation is assisted by two Placement Coordinators and Departmental Placement Coordinators. A separate dedicated building equipped with all state-of the-art facilities and other infrastructure is being constructed.

### 5.6 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 modern facilities has been made operational this year.

## 6. GENERAL AMENITIES

### 6.1 Guest House

The University has a well furnished Guest House in the East Campus for visiting faculty, officers, guests,

examiners etc. It has two VIP suits, two deluxe rooms and eight air-conditioned rooms. Each room is double bedded. The accommodation can be booked in advance or on the spot if vacant by paying charges as laid by the University.

## 6.2 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 / LLTM Hospital for necessary treatment. Prescribed medicines, if available are 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.

## 6.3 Bank & Postal Facilities

East Campus of the University has a full-fledged branch of Central Bank of India along with is ATM. ATM facility of State Bank of India is available West Campus alongwith a Post Office. Main Post Office is located in the Nawabganj very close to our East Campus.

## 6.4 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 am to 9:00 pm. One canteen near workshop is also operational.

## 7. 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 student fee and Consultancy & Testing works. On expenditure side, major expenditure is in salary to the teachers, officers and staff of the University. Apart from this, expenditure on electricity, security, payment made to outsourced workers, repair and maintenance of infrastructure and developmental works are the other important components.

## 8. FACULTY & ADMINISTRATION DETAILS

### (A) LIST OF FACULTY MEMBERS : SCHOOL OF ENGINEERING

#### 1. DEPARTMENT OF CIVIL ENGINEERING

1	Dr. Pradeep Kumar	Professor& Head	9721456065	pkt2001@rediffmail.com
2	Dr. Sunil Kumar	Professor	7081300503	drsuniljadon@gmail.com
3	Dr. Dipteek Parmar	Professor	7081300505	d_parmar@rediffmail.com
4	Mr. Prithvi Pati	Associate Professor	7081300513	prithvipati@gmail.com
5	Dr. Deepesh Singh	Assistant Professor	7081300521	dr.deepeshsingh@gmail.com

#### NPIU Faculty / Contractual Faculty against Vacant Positions

(Associate Professor : 01 & Assistant Professor : 05)

1	Mr. Ankit Sharma	Assistant Professor	8755541033	4ankt1@gmail.com
2	Mr. Nitin Rajput	Assistant Professor	8072971137	rajputnitin9@gmail.com
3	Mr. Vijay Lokesh Singh	Assistant Professor	9958133139	vijaysingh90@gmail.com
4	Mr. Neeraj Singh	Contractual Faculty	9685907580	neerajsingh0512@gmail.com
5	Md. Sarfaraz Ali	Contractual Faculty	9519260130	alisarfaraz1704@gmail.com
6	Mr. Gaurav Singh	Contractual Faculty	8707280339	gsbiya90@gmail.com



**2. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

1	Dr. Raghuraj Singh	Professor & Head	9415153745	rscse@rediffmail.com
2	Dr. B.K. Tripathi (on leave)	Professor	7081300536	abkt.iitk@gmail.com
3	Dr. Narendra Kohli	Professor	7081300526	kohli.hbti@gmail.com
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

**NPIU Faculty / Contractual Faculty against Vacant Positions**

**(CSE :Associate Professor : 02 ; MCA : Associate Professor : 02 & Assistant Professor : 01)**

1	Dr. Mousumi Dhara	Assistant Professor	9598530618	mousumi.dhara@gmail.com
2	Dr. Durgesh Singh	Assistant Professor	9473929004	durgeshcse@gmail.com
3	Ms. Soni Gupta	Assistant Professor	7570972428	26sonics@gmail.com
4	Mr. Pankaj Upadhyay	Assistant Professor	8950156401	pankajupadhyay2006@gmail.com
5	Ms. Ankita Gautam	Assistant Professor	8953195210	gautam.ankita8@gmail.com
6	Mr. Chandra Shekhar Tiwari	Contractual Faculty	9670451451	cstiwari@gmail.com
7	Ms. Monika Verma	Contractual Faculty	7355411474	mvmonikaverma261@gmail.com
8	Mr. Indresh Kumar Gupta	Contractual Faculty	9452315802	indresh.gupta345@gmail.com
9	Ms. Urvashi Saraswat	Contractual Faculty	8400119794	urvashi.saraswat28@gmail.com
10	Ms. Raksha Pandey	Contractual Faculty	7235976020	pony.bbd@gmail.com

**3. DEPARTMENT OF ELECTRICAL ENGINEERING**

1	Mr. J.K. Dwivedi	Associate Professor & Head	9721456026	jkdagra@indiatimes.com
2	Dr. Yaduvir Singh	Professor	7081300508	dryaduvirsingh@gmail.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. Sanjiv Kumar	Assistant Professor	7081300678	sanjiv.iitr@gmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

**(Associate Professor : 01 & Assistant Professor : 02)**

1	Mr. Abhishek Mishra	Contractual Faculty	9654326987	abhi.hbti.05@gmail.com
2	Mr. Ankit Srivastava	Contractual Faculty	9453479171	srivastava.ankit47@gmail.com

**4. DEPARTMENT OF ELECTRONICS ENGINEERING**

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

5	Dr. A.K. Shankhwar	Associate Professor	9721456076	akshankhwar@hbtu.ac.in
6	Dr. Ashutosh Singh	Associate Professor	7081300517	ashuhbti@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions  
(Professor : 01 & Assistant Professor : 02)**

1	Mrs. Nayanica Srivastava	Assistant Professor	8795962901	nainsri11@gmail.com
2	Mr. Partha Saha	Assistant Professor	9097454763	psaha089@gmail.com
3	Mr. Suman Kumar Mitra	Assistant Professor	7002436672	sumankumarmitra2@gmail.com
4	Mr. Dharmendra Kumar Singh	Assistant Professor	8896414960	dharmendraaith44@gmail.com
5	Mr. Manish Kumar Singh	Assistant Professor	8853230992	manish.rs.mst14@iitbhu.ac.in
6	Dr. Preeti Agarwal Mittal	Contractual Faculty	8090619619	preetibbs@gmail.com
7	Mr. Dev Chandra Jaiswal	Contractual Faculty	8127676553	deohbti@gmail.com
8	Mr. Ambar Yadav	Contractual Faculty	7985500603	yadavambar22@gmail.com

**5. DEPARTMENT OF MECHANICAL ENGINEERING**

1	Dr. Anand Kumar	Professor & Head	7081300504	kranandhbti@gmail.com
2	Dr. Onkar Singh	Professor	9415114011	onkpar@rediffmail.com
3	Dr. Rajive Gupta	Professor	7081300531	rajive_gupta@yahoo.com
4	Dr. S.K. Singhal	Professor	9721456057	shailendra_singhal@rediffmail.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. Ambikesh	Assistant Professor	7081300538	vinayforus@gmail.com
8	Dr. S. K. S. Yadav	Assistant Professor	7081300522	sanjeevyadav10@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions  
(Professor : 01, Associate Professor : 02 & Assistant Professor : 03)**

1	Mr. Saurabh Sangal	Assistant Professor	9897360294	er.saurabh.sangal@gmail.com
2	Mr. Vivek Guha	Assistant Professor	9891499458	viveksmallsteps@gmail.com
3	Mr. Deepak Singh	Assistant Professor	7600684655	dsinghmiet@gmail.com
4	Mr. Manoj Singh Patel	Contractual Faculty	9559971694	manojme0020@gmail.com
5	Mr. Naman Kumar Bajpai	Contractual Faculty	9482241593	naman.upss@gmail.com
6	Ms. Versa Nigam	Contractual Faculty	7376565817	vershanigam@gmail.com

**(B) LIST OF FACULTY MEMBERS :SCHOOL OF CHEMICAL TECHNOLOGY**

**2. DEPARTMENT OF CHEMICAL ENGINEERING**

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

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 02, Associate Professor : 05 & Assistant Professor : 05)

1	Dr. Anil Kumar Varma	Assistant Professor	9760197382	vermaanil7@gmail.com
2	Mr. Deepak Yadav	Assistant Professor	7505072607	deepakyadav82@gmail.com
3	Dr. Shailendra Kumar Pandey	Assistant Professor	9452537439	skpandeychem30@gmail.com
4	Me. Chayan Sarkar	Assistant Professor	9735404236	chayansarkar88@gmail.com
5	Dr. Poonam Singh	Contractual Faculty	9559440968	nigam9107@gmail.com
6	Mrs. Nidhi Shukla	Contractual Faculty	8419062499	snidhishukla26@gmail.com
7	Mr. Anoop Kumar Batham	Contractual Faculty	9891029380	anoopbatham1111@gmail.com
8	Ms. Divya Gupta	Contractual Faculty	7007169935	93divyagupta@gmail.com
9	Mr. Pankaj Kumar Lodhi	Contractual Faculty	9452313387	pankajche1@gmail.com

**2. DEPARTMENT OF BIOCHEMICAL ENGINEERING**

1	Mr. S.J. Nagar	Associate Professor & Head	7081300646	hodbe@hbtu.ac.in
2	Mr. Brajesh Singh	Associate Professor	7081300520	bsingh@hbtu.ac.in
3	Dr. Lalit Kumar Singh	Assistant Professor	7081300565	lkumar@hbtu.ac.in

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01, Associate Professor : 01 & Assistant Professor : 02)

1	Dr. Rupika Sinha	Contractual Faculty	7276952628	sinha.rupika@gmail.com
2	Ms. Shipra Dwivedi	Contractual Faculty	9451183876	dwivediship.19@gmail.com
3	Mr. Mohit Kumar Yadav	Contractual Faculty	9045220173	moh_yad321@gmail.com

**3. DEPARTMENT OF FOOD TECHNOLOGY**

1	Dr. Alak Kumar Singh	Professor & Head	7081300516	alaksingh@rediffmail.com
2	Dr. Karunakar Singh	Professor	9721456081	ksingh_hbti@yahoo.com
3	Dr. Vivek Kumar	Assistant Professor	7081300539	viveksachan99@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01 & Associate Professor : 02)

1	Mr. Ashwani Kumar	Assistant Professor	8486540794	ashwanikumar.tu@gmail.com
2	Mr. Sayyad Abdul	Assistant Professor	8500721956	s.abdul936786@gmail.com
3	Mr. Anit Kumar	Assistant Professor	8053152409	anitikumarsingh09@gmail.com
4	Mr. Ajit Kumar Singh	Assistant Professor	9680542728	ajitksingh.iitkgp@gmail.com
5	Ms. Saumya Rathore	Contractual Faculty	9411403822	sau_rath@gmail.com

**4. DEPARTMENT OF LEATHER TECHNOLOGY**

1	Mr. Sumant Chaterjee	Associate Professor & Head	7081300542	csumant36@rediffmail.com
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**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01 & Assistant Professor : 02)

1	Mr. Manish Kumar Saini	Contractual Faculty	8574551899	manishksaini7@gmail.com
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2 Ms. Ram Singh Contractual Faculty 9455893012 remrajpoot09bhu@gmail.com

**5. DEPARTMENT OF OIL TECHNOLOGY**

1 Dr. R.K. Trivedi Professor & Head 9721456006 rakeshtrivedi@hotmail.com  
 2 Dr. V.K. Tyagi (on leave) Professor 7450723106  
 3 Dr. P.K.S. Yadav Assistant Professor 7081300577 pkyhbt@yahoo.co.in

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01, Associate Professor : 02 & Assistant Professor : 01)

1 Mr. Sushil Chandra Mishra Contractual Faculty 7016159808 scmishra2007@gmail.com  
 2 Mr. Suresh Singh Raghav Contractual Faculty 9893530890 ssraghav250@gmail.com  
 3 Mr. Hari Shankar Sharma Contractual Faculty 9651483466 harishankar7@gmail.com  
 4 Mr. Prakash Chandra Gupta Contractual Faculty 8052642285 pcgupta1954@gmail.com  
 5 Mr. Rajesh Kumar Srivastava Contractual Faculty 9452529282 raj\_kr\_sri@gmail.com

**6. DEPARTMENT OF PAINT TECHNOLOGY**

1 Dr. P.K. Kamani Professor & Head 7081300540 pkkamani@rediffmail.com  
 2 Dr. Pramod Kumar Professor 7081300502 pramod.hbti@yahoo.co.in  
 3 Dr. Arun Maithani Professor 7081300524 arun\_maithani@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01 & Associate Professor : 02)

1 Mr. Sunil Mehrotra Contractual Faculty 7843931003 sunilmehrotra58@gmail.com  
 2 Mr. Ghanshyam Contractual Faculty 7275105811 gdass13@gmail.com  
 3 Mr. M.I. Khan Contractual Faculty 9335437500 iqbal.khan@rediffmail.com

**7. DEPARTMENT OF PLASTIC TECHNOLOGY**

1 Dr. Deepak Srivastava Professor & Head 7081300543 dsri92@gmail.com  
 2 Dr. (Mrs.) Reena Singhal Professor 9721456046 reena\_singhal123@rediffmail.com  
 3 Dr. (Mrs.) Indira Nigam Professor 7081300527 indiranigam@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01, Associate Professor : 01 & Assistant Professor : 02)

1 Mr. Abhishek Sachan Contractual Faculty 7318017337 sachanabhishek1@gmail.com  
 2 Ms. Poonam Contractual Faculty 8130731806 poonamiit618@gmail.com

**(C) LIST OF FACULTY MEMBERS : SCHOOL OF BASIC AND APPLIED SCIENCE**

**1. CHEMISTRY**

1 Dr. Chhagan Lal Associate Professor 7081300511 c.lal9940@gmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01, Associate Professor : 02 & Assistant Professor : 01)

1 Dr. Sudhir Kumar Gupta Assistant Professor 9837587477 urwithsudhirk@gmail.com  
 2 Dr. Sadhna Puri Contractual Faculty 9415126868 sadhna\_puri@gmail.com  
 3 Dr. Minakshi Garg Contractual Faculty 9140898141 minakshi.polymer@gmail.com

**2. MATHEMATICS**

1	Dr. (Mrs.) Rekha Bali	Professor & Head	7081300545	dr.rekhabali@rediffmail.com
2	Dr. Ram Naresh	Professor	7081300544	ramntripathi@yahoo.com
3	Dr. Ram Autar	Professor	7081300530	rautar62@gmail.com
4	Dr. S.U. Siddiqui	Professor	7081300510	susiddmath_56@rediffmail.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01 & Assistant Professor : 01)

1	Dr. Shashi Kant	Assistant Professor	8318347070	shashikant.1790@gmail.com
2	Dr. Raghwendra Singh	Assistant Professor	7007026724	raghwendra.singh47@gmail.com

**3. PHYSICS**

1	Dr. S.K. Sharma	Associate Professor & Head	7081300528	sksharma_hbti@yahoo.com
2	Dr. R.K. Shukla	Professor	7081300507	rk6_knp@yahoo.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

(Professor : 01 & Assistant Professor : 02)

1	Dr. Alok Singh	Contractual Faculty	7905168668	dr.singhalok@gmail.com
2	Dr. Suresh Kumar Sharma	Contractual Faculty	9936815134	drsksharma@yahoo.com

**(D) LIST OF FACULTY MEMBERS : SCHOOL OF HUMANITIES & SOCIAL SCIENCES**

**1. DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES**

1	Dr. K.M. Mohapatra	Professor	7081300506	kmm.hbti@gmail.com
2	Dr. (Smt) B. Nigam	Associate Professor & Head	7081300540	drvandanigam@rediffmail.com
3	Dr. V.K. Yadav	Associate Professor	7081300555	dr.vkyadav@yahoo.com

**NPIU Faculty / Contractual Faculty against Vacant Positions**

1	Ms. Sapan Singh	Contractual Faculty	9936872333	sapnasinghkur16@gmail.com
2	Dr. Om Nath Trivedi	Contractual Faculty	9559186237	omnath.trivedi@gmail.com
3	Ms. Anjana Gupta	Contractual Faculty	8887970909	anjanaguptaknp@gmail.com

Training & Placement Cell Vacant Position : Professor 01

**CENTRAL WORKSHOP**

1	Mr. J.B. Bajpai	Assistant Superintendent	7081300550	jbbhbt@rediffmail.com
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**SYSTEM MANAGER**

1	Mr. M.D. Singh	System Manager	7081300523	muratdhwaj@gmail.com
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**Vacant Position : Workshop Superintendent 01**

### **Constitution of Executive Council of the University**

The Executive Council shall consists of:-

- (a) The Vice Chancellor, Chairperson
- (b) The Pro-Vice-Chancellor, if any, Member
- (c) The Director, Indian Institute of Technology, Kanpur or his nominee not below the rank of Professor, Member
- (d) The Director, Indian Institute of Information Technology, Allahabad or his Nominee not below the rank of Professor, Member
- (e) The Chairman, All India Council for Technical Education or his Nominee, Member
- (f) Vice-Chancellor or Nominee of the Vice Chancellor, Dr. A.P.J. Abdul Kalam Technical University not below the rank of Professor, Member
- (g) Two reputed industrialists nominated by the State Government, Member
- (h) Two reputed technologists nominated by the State Government, Member
- (i) Principal Secretary/ Secretary to the State Government in the Technical Education Department, Member
- (j) Nominee of Principal Secretary to the State Government in the Finance Department, Member
- (k) Nominee of Principal Secretary to the State Government in the Higher Education Department, Member
- (l) Registrar as the ex-officio Secretary of the Executive Council, Member

Number	Category	Nature	Name of Nominee	Contact email	Appointment/ Constitution date
	2	3	4	5	6
1.	The Vice-Chancellor	Chairperson	Prof. N.B.Singh	nbsingh@ietlucknow.ac.in	2016-17
2.	The Pro Vice-Chancellor, if any	Member			2016-17
3.	The Director, IIT, Kanpur. or his nominee not below the rank of Professor	Nominee of the Director IIT, Kanpur	Prof. Onkar Dikshit	onkar@iitk.ac.in	2016-17
4.	The Director, Indian Institute of Information Tech., Allahabad or his nominee not below the rank of Professor	Member	Prof. P. Nagabhushan	director@iiita.ac.in	2016-17
5.	The Chairman, All India Council for Technical Education or his nominee	Nominee of the Chairman AICTE	Prof. Yogesh Singh	<u>vcdu@dice.edu</u>	2016-17
6.	Vice Chancellor or Nominee of the Vice Chancellor, AKTU, Lucknow or his nominee not below the rank of Professor	Vice Chancellor	Prof. Vinay Kumar Pathak	vc@aktu.ac.in	2016-17
7.	Two reputed industrialists nominated by the State Government	nominated by the State Government	Shri Prashant K. Singh		2016-17
			Shri Jaikriya Mohd.		2016-17
8.	Two reputed	nominated by the State	Prof. Anil Kumar	sachan@mnnit.ac.in	2016-17



	technologists nominated by the State Government	Government	Sachan		
9.	The Principal Secretary/Secretary to the State Government in the Technical Education Department	Special Secretary	Prof. Khalid Moin	kmoim@jmi.ac.in, kmoim_ci@hotmail.com	2016-17
10.	Nominee of Principal Secretary to the State Government in the Finance Department	Nominee of the Principal Secretary	Dr. Saroj Kumar		2016-17
11.	Nominee of Principal Secretary to the State Government in the Higher Education Department	Nominee of the Principal Secretary	Shri Narendra Kumar Chaubey		2016-17
12.	Registrar as the ex-officio Secretary of the Executive Council	As the ex-officio Secretary	Shri Rajesh Pandey		2016-17
13.	Finance Controller HBTU, Kanpur	Special Invitee	Prof. Karunakar Singh	registrar@hbtu.ac.in	2016-17
14.	Coordinator TEQIP-III & Head of Electronics Engg. Deptt.	Special Invitee	Shri Rajesh Singh	fc@hbtu.ac.in	2016-17
15.	Convener, First Statutory Research Committee & Professor, Electronics Engg. Deptt.	Special Invitee	Prof. Rachna Asthana	rachnaasthana@rediffmail.com	2016-17
			Prof. Manoj Kumar Shukla	manojkrshukla@gmail.com	2016-17

## INFORMATION REGARDING NBA ACCREDITATION

Percentage of NBA-Accredited programs (UG and PG) or applied for, out of eligible programs is given below:

- Current status of NBA-Accredited UG programs is given below:

Program Name	Level	Accreditation Status	Validity/Remark
Electronics Engg.	UG	Accredited	01.07.2019 to 30.06.2022
Oil Technology	UG	Accredited	01.07.2019 to 30.06.2022
Paint Technology	UG	Accredited	01.07.2019 to 30.06.2022
Plastic Technology	UG	Accredited	01.07.2019 to 30.06.2022
Mechanical Engg.	UG	Accredited	01.07.2019 to 30.06.2022
Computer Science & Engg.	UG	Accredited	01.07.2019 to 30.06.2022
Food Technology	UG	Accredited	01.07.2019 to 30.06.2022

Out of 11 eligible programs 07 programs are accredited. % of NBA Accredited program is 63.64.

**Student Strength 2018-19**

<b>Sl. No.</b>	<b>Department</b>	<b>Year</b>	<b>Sanctioned Intake</b>	<b>Actual Intake</b>
1	B.Tech Chemical Engineering	4	50	55
2	B.Tech Chemical Engineering	3	50	50
3	B.Tech Chemical Engineering	2	50	52
4	B.Tech Chemical Engineering	1	50	54
5	B.Tech Plastic Technology	4	30	30
6	B.Tech Plastic Technology	3	30	25
7	B.Tech Plastic Technology	2	30	24
8	B.Tech Plastic Technology	1	30	33
9	B.Tech Paint Technology	4	30	30
10	B.Tech Paint Technology	3	30	35
11	B.Tech Paint Technology	2	30	28
12	B.Tech Paint Technology	1	30	32
13	B.Tech Oil Technology	4	30	26
14	B.Tech Oil Technology	3	30	23
15	B.Tech Oil Technology	2	30	23
16	B.Tech Oil Technology	1	30	31
17	B.Tech Food Technology	4	30	33
18	B.Tech Food Technology	3	30	19
19	B.Tech Food Technology	2	30	23
20	B.Tech Food Technology	1	30	36
21	B.Tech Biochemical Engineering	4	30	28
22	B.Tech Biochemical Engineering	3	30	21
23	B.Tech Biochemical Engineering	2	30	23
24	B.Tech Biochemical Engineering	1	30	33
25	B.Tech Mechanical Engineering	4	60	67
26	B.Tech Mechanical Engineering	3	60	66
27	B.Tech Mechanical Engineering	2	60	62
28	B.Tech Mechanical Engineering	1	60	66
29	B.Tech Leather Technology	4	20	16
30	B.Tech Leather Technology	3	20	13
31	B.Tech Leather Technology	2	20	11
32	B.Tech Leather Technology	1	20	17
33	B.Tech Information Technology	4	30	32
34	B.Tech Information Technology	3	30	30
35	B.Tech Information Technology	2	30	30
36	B.Tech Information Technology	1	30	34
37	B.Tech Electrical Engineering	4	33	32
38	B.Tech Electrical Engineering	3	33	35
39	B.Tech Electrical Engineering	2	33	34
40	B.Tech Electrical Engineering	1	33	36
41	B.Tech Computer Science & Engineering	4	60	64
42	B.Tech Computer Science & Engineering	3	60	64
43	B.Tech Computer Science & Engineering	2	60	65
44	B.Tech Computer Science & Engineering	1	60	63
45	B.Tech Civil Engineering	4	30	39

46	B.Tech Civil Engineering	3	30	32
47	B.Tech Civil Engineering	2	30	31
48	B.Tech Civil Engineering	1	30	33
49	B.Tech Electronics Engg.	4	45	50
50	B.Tech Electronics Engg.	3	45	41
51	B.Tech Electronics Engg.	2	45	46
52	B.Tech Electronics Engg.	1	45	47
15	M.Tech. Environmental Sciences & Engineerin	2	18	15
16	M.Tech. Environmental Sciences & Engineerin	1	18	18
17	M.Tech. Chemical Engineering	2	18	9
18	M.Tech. Chemical Engineering	1	18	9
19	M.Tech Oil Technology	2	11	1
20	M.Tech Oil Technology	1	11	3
21	M.Tech Food Technology	2	12	9
22	M.Tech Food Technology	1	12	11
23	M.Tech Biochemical Engineering	2	11	3
24	M.Tech Biochemical Engineering	1	11	9
25	M.Tech. Computer Aided Design	2	18	18
26	M.Tech. Computer Aided Design	1	18	18
27	M.Tech Electronics & Communication Enginee	2	18	16
28	M.Tech Electronics & Communication Enginee	1	18	18
1	PhD Mathematics	0		7
2	PhD Physics	0		1
3	PhD Chemistry	0		1
4	PhD Paint Technology	0		0
5	PhD Plastic Technology	0		1
6	PhD Oil Technology	0		1
7	PhD Food Technology	0		2
8	PhD Mechanical Engg.	0		5
9	PhD Computer Science & Engg.	0		11
10	PhD Civil Engg.	0		6
11	PhD Electronics Engg.	0		6
12	PhD Electrical Engg.	0		3
13	PhD Chemical Engg.	0		3
14	PhD Biochemcial Engg.	0		2

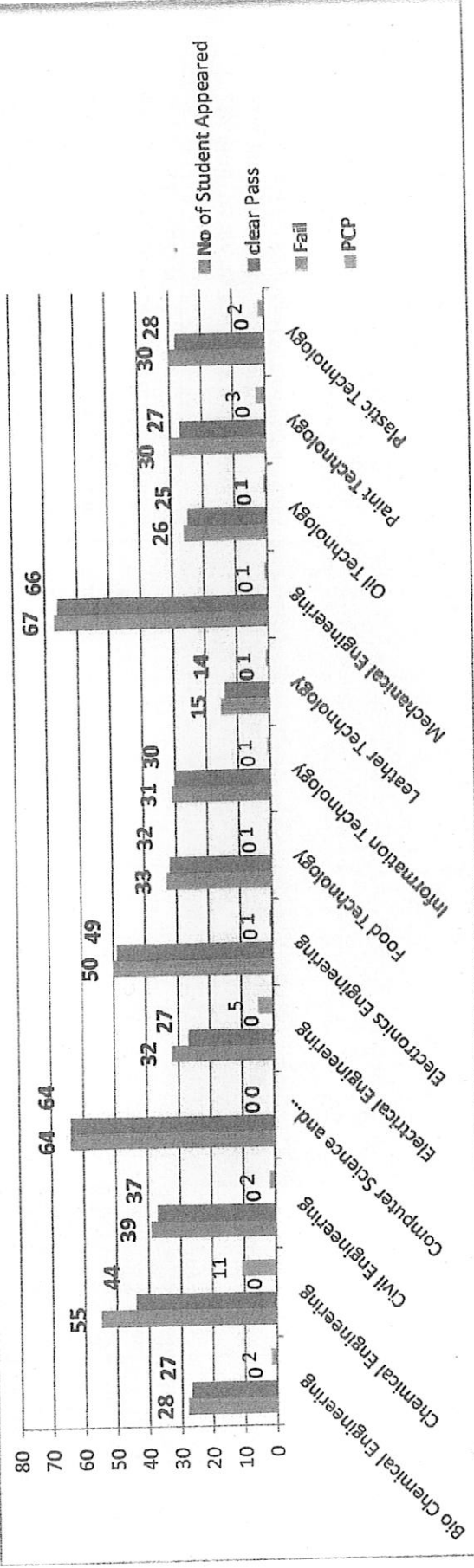
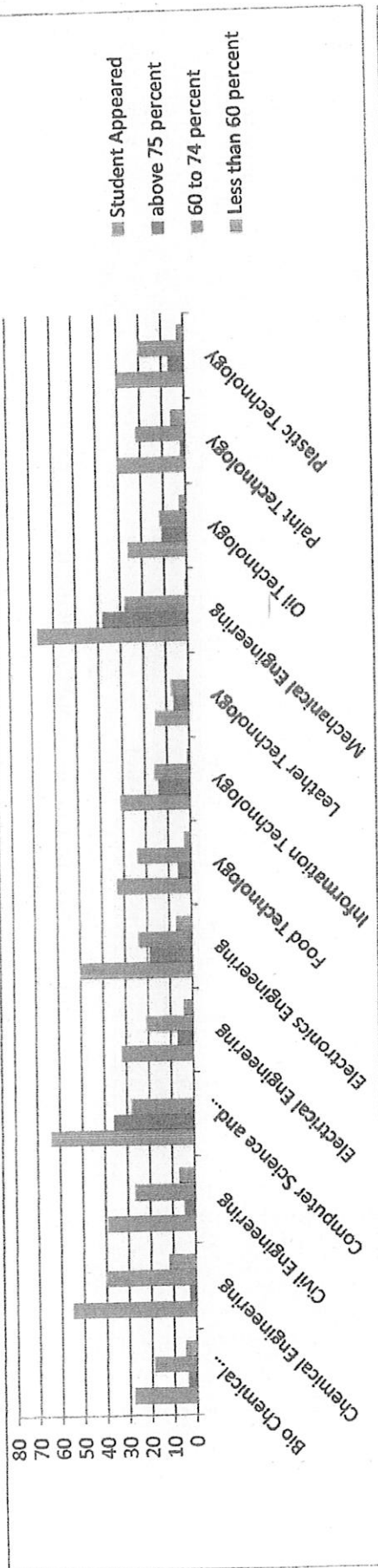
**हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर-02**  
(पूर्ववर्ती एच0बी0टी0आई0, कानपुर)

शैक्षिक पद दिनांक 15.06.2019 को पदों की स्थिति

क्रमांक	विभाग	प्रोफेसर			एसोसिएट प्रोफेसर			असिस्टेंट प्रोफेसर		
		स्वीकृत पद	भरे पद	रिक्त पद	स्वीकृत पद	भरे पद	रिक्त पद	स्वीकृत पद	भरे पद	रिक्त पद
1	2	3	4	5	6	7	8	9	10	11
01	कैमिकल इंजीनियरिंग विभाग	02	0	02	06	00	06	11	06 (OBC-1, SC-1, UR-4)	05
02	सिविल इंजीनियरिंग विभाग	01	01	0	03	02 (OBC-1, SC-1)	01	07	02 UR	05
03	कम्प्यूटर साइंस एण्ड इंजीनियरिंग विभाग	01	01	0	02	0	02	03	03 UR	0
04	एम0सी0ए0	01	01	0	02	0	02	03	02(OBC-1, UR-1)	01
05	इलेक्ट्रिकल इंजीनियरिंग विभाग	01	01	0	03	02 (SC-1, UR-1)	01	05	03( UR-2, OBC-1)	02
06	इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग	01	0	01	02	02 (OBC-1, UR-1)	0	06	04 (OBC-1, SC-1, UR-2)	02
07	मेकैनिक्कल इंजीनियरिंग विभाग	02	01	01	04	02(OBC-1, SC-1)	02	08	04 (OBC-1, SC-1, UR-2)	04
08	बायो कैमिकल इंजीनियरिंग विभाग	01	0	01	02	01 OBC	01	04	02 UR	02
09	फूड टेक्नालॉजी	01	0	01	02	0	02	03	03(OBC-2, UR-1)	0
10	आयल टेक्नालॉजी	01	0	01	02	0	02	04	03 UR	01
11	पेट टेक्नालॉजी	01	0	01	02	0	02	03	03 (OBC-1, UR-2)	0
12	प्लास्टिक टेक0	01	0	01	02	01 UR	01	04	02 UR	02
13	कैमिस्ट्री विभाग	01	0	01	02	0	02	02	01 SC	01
14	फिजिक्स विभाग	01	0	01	01	01 UR	0	03	01 UR	02
15	गणित विभाग	01	0	01	01	01 UR	0	04	03 (UR-3)	01
16	लेदर टेक्नालॉजी	01	0	01	01	01 UR	0	02	0	02
17	मानविकी विभाग	0	0	0	01	01 UR	0	02	02 (OBC-1, UR-1)	0
18	ट्रेनिंग एण्ड प्लेसमेंट	01	0	01	0	0	0	0	0	0
	योग	19	05	14	38	14	24	74	44	30

नोट : 1. डा0 एस0यू0 सिद्दीकी, प्रोफेसर, गणित विभाग को सत्रांत लाभ दिनांक 30.06.19 तक अनुमत्य ।  
2. श्रीमती रजनी विष्ट, एसोसिएट प्रोफेसर, इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग का लियन दिनांक 20.07.19 को समाप्त ।

# RESULT ANALYSIS 2018-2019-FOURTH YEAR





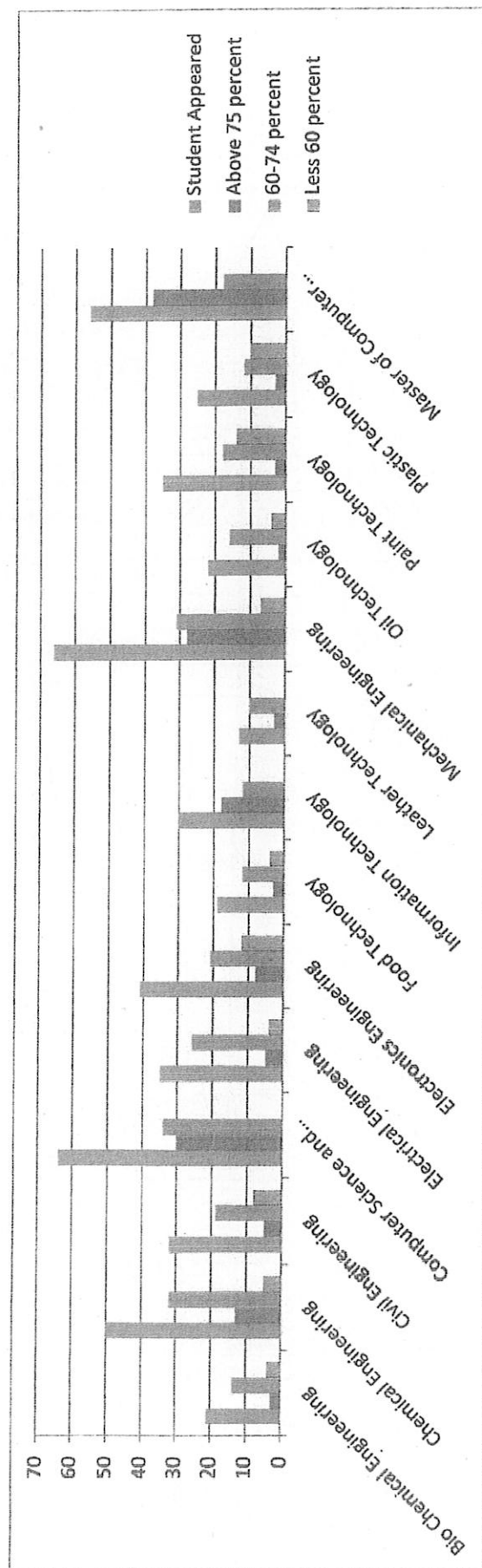
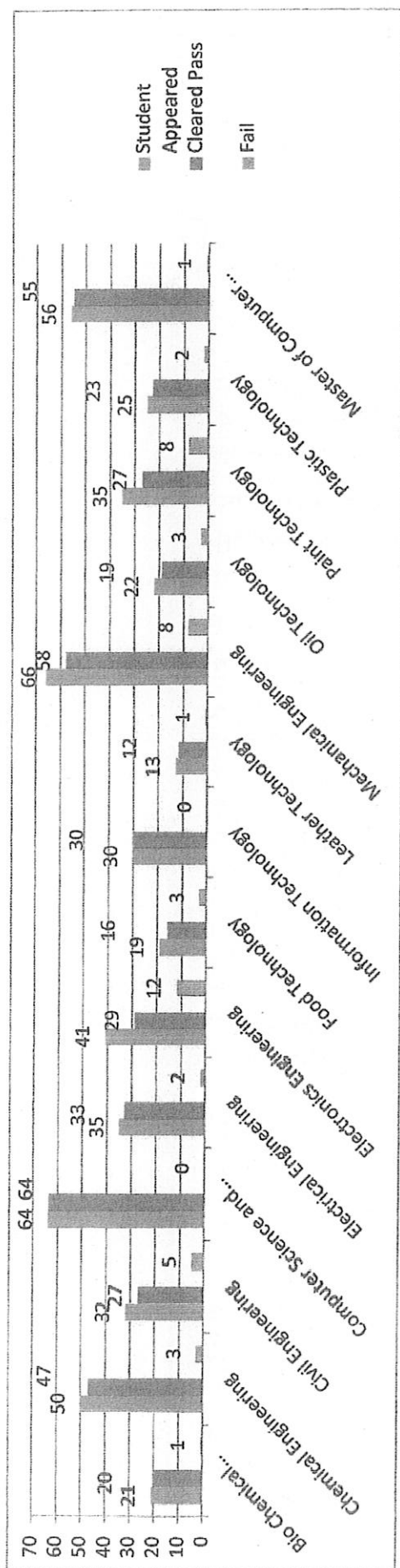
**RESULT ANALYSIS 2018-2019-FOURTH YEAR**

*(odd Sem.)*

Branch Name	No of Student appeared	Clear Pass		FAIL		PCP		75% & above		60% - 74%		less than 60%	
		No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent
Bio Chemical Engineering	28	27	96.43	0	0	2	7.14	4	14.29	19	67.86	5	17.86
Chemical Engineering	55	44	80.00	0	0	11	20.00	3	5.45	40	72.73	12	21.82
Civil Engineering	39	37	94.87	0	0	2	5.13	5	12.82	27	69.23	7	17.95
Computer Science and Engineering	64	64	100.00	0	0	0	0.00	36	56.25	28	43.75	0	0.00
Electrical Engineering	32	27	84.38	0	0	5	15.63	7	21.88	21	65.63	4	12.50
Electronics Engineering	50	49	98.00	0	0	1	2.00	19	38.00	24	48.00	7	14.00
Food Technology	33	32	96.97	0	0	1	3.03	6	18.18	24	72.73	3	9.09
Information Technology	31	30	96.77	0	0	1	3.23	14	45.16	16	51.61	1	3.23
Leather Technology	15	14	93.33	0	0	1	6.67	7	46.67	8	53.33	0	0.00
Mechanical Engineering	67	66	98.51	0	0	1	1.49	38	56.72	28	41.79	1	1.49
Oil Technology	26	25	96.15	0	0	1	3.85	11	42.31	12	46.15	3	11.54
Paint Technology	30	27	90.00	0	0	3	10.00	2	6.67	22	73.33	6	20.00
Plastic Technology	30	28	93.33	0	0	2	6.67	7	23.33	20	66.67	3	10.00



**RESULT ANALYSIS 2018-2019-THIRD YEAR**

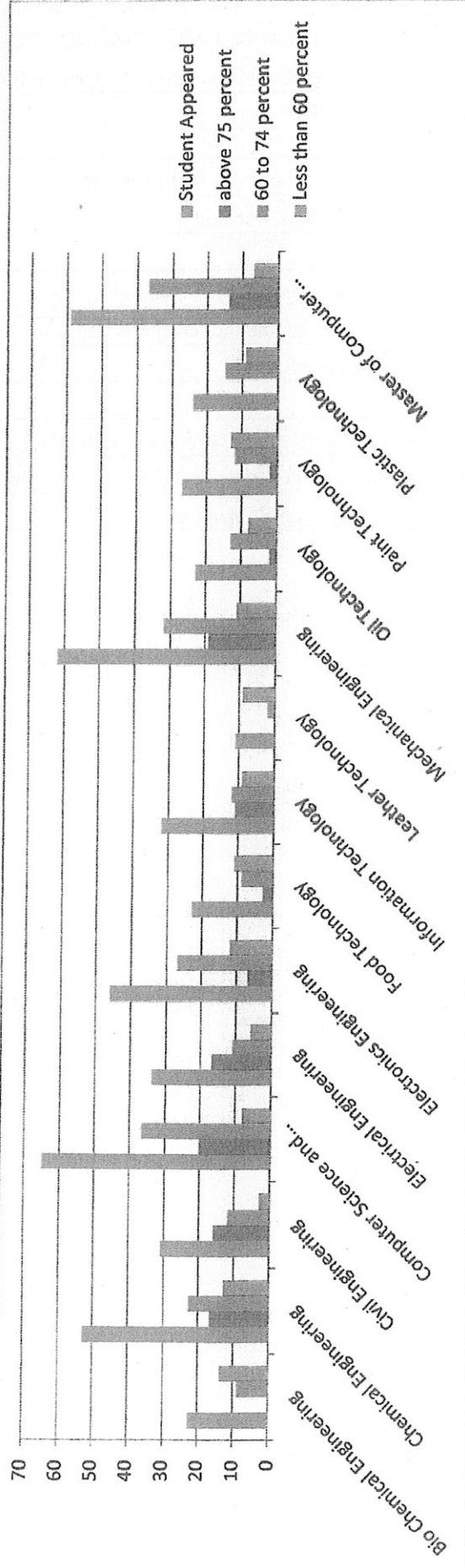
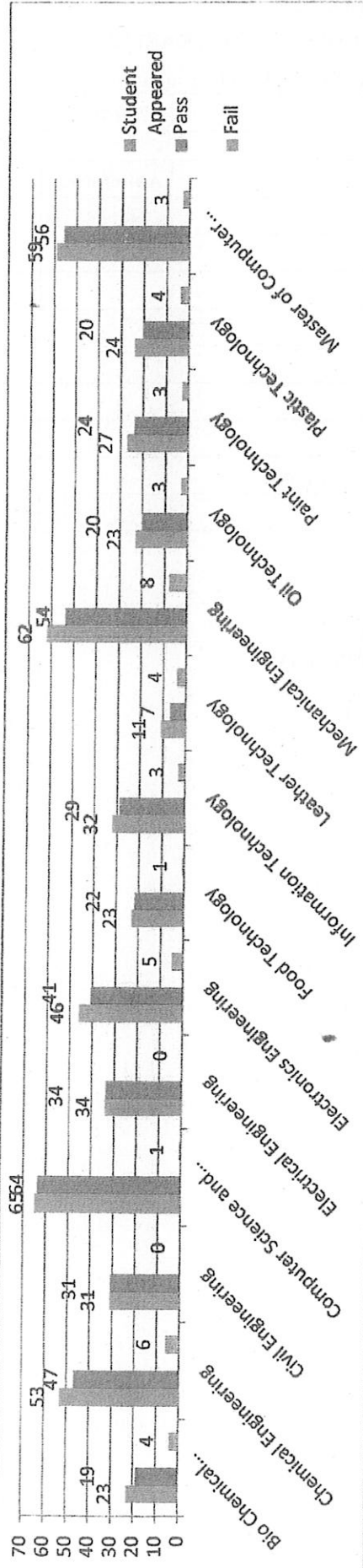


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**RESULT ANALYSIS 2018-2019-THIRD YEAR (Odd Sem.)**

Branch name	No of Student appeared	Clear Pass		Fail		PCP		75% and above		60%-74%		less than 60%	
		No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent
Bio Chemical Engineering	21	20	95.24	0	0	1	4.76	3	14.29	14	66.67	4	19.05
Chemical Engineering	50	47	94.00	0	0	3	6.00	13	26.00	32	64.00	5	10.00
Civil Engineering	32	27	84.38	0	0	5	15.63	5	15.63	19	59.38	8	25.00
Computer Science and Engineering	64	64	100.00	0	0	0	0.00	30	46.88	34	53.13	0	0.00
Electrical Engineering	35	33	94.29	0	0.00	2	5.71	5	14.29	26	74.29	4	11.43
Electronics Engineering	41	29	70.73	0	0.00	12	29.27	8	19.51	21	51.22	12	29.27
Food Technology	19	16	84.21	0	0.00	3	15.79	3	15.79	12	63.16	4	21.05
Information Technology	30	30	100.00	0	0.00	0	0.00	18	60.00	12	40.00	0	0.00
Leather Technology	13	12	92.31	0	0.00	1	7.69	3	23.08	10	76.92	0	0.00
Mechanical Engineering	66	58	87.88	0	0.00	8	12.12	28	42.42	31	46.97	7	10.61
Oil Technology	22	19	86.36	0	0.00	3	13.64	2	9.09	16	72.73	4	18.18
Paint Technology	35	27	77.14	0	0.00	8	22.86	3	8.57	18	51.43	14	40.00
Plastic Technology	25	23	92.00	0	0.00	2	8.00	3	12.00	12	48.00	10	40.00
Master of Computer Application	56	55	98.21	0	0.00	1	1.79	38	67.86	18	32.14	0	0.00

# RESULT ANALYSIS 2018-2019-SECOND YEAR



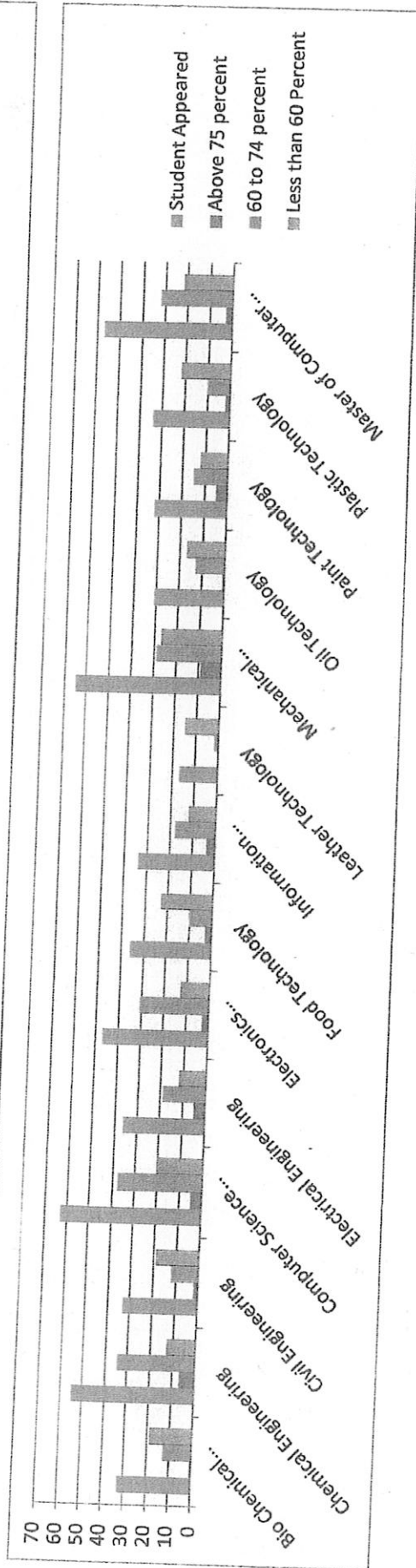
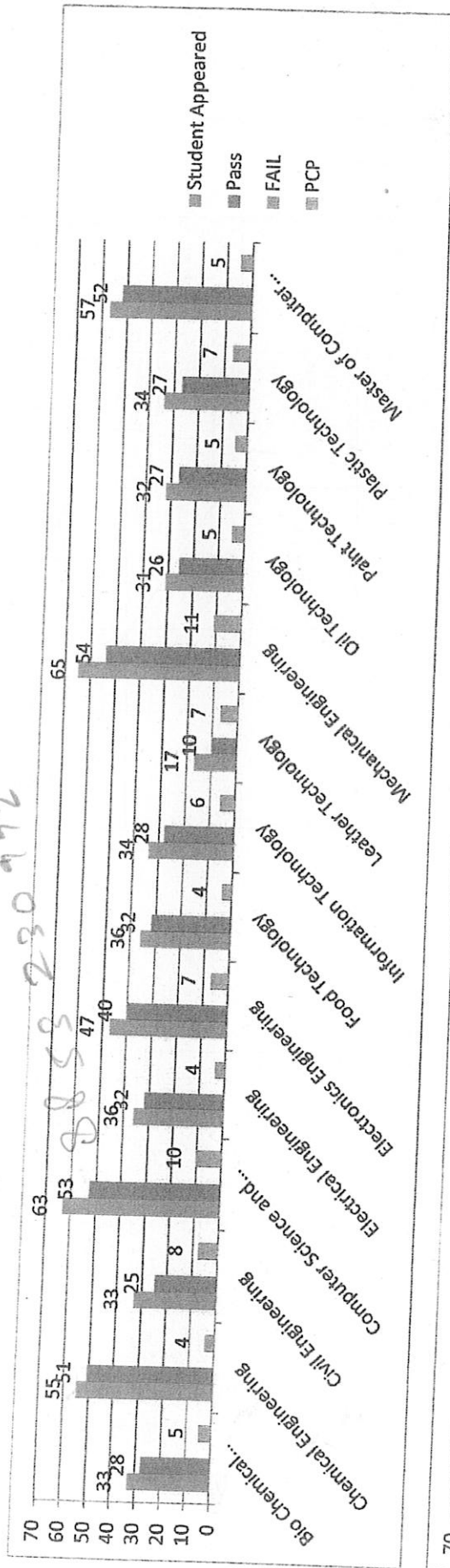
RESULT ANALYSIS 2018-2019-SECOND YEAR (odd Sem.)

Branch name	No of Student appeared	clear pass		FAIL		PCP		75% and above		60%-74%		less than 60	
		No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent
Bio Chemical Engineering	23	19	82.609	0	0	4	17.3913	0	0	9	39.1304	14	60.8696
Chemical Engineering	53	47	88.68	0	0.00	6	11.32	17	32.08	23	43.40	13	24.53
Civil Engineering	31	31	100.00	0	0.00	0	0.00	16	51.61	12	38.71	3	9.68
Computer Science and Engineering	65	64	98.46	0	0.00	1	1.54	20	30.77	37	56.92	8	12.31
Electrical Engineering	34	34	100.00	0	0.00	0	0.00	17	50.00	11	32.35	6	17.65
Electronics Engineering	46	41	89.13	0	0.00	5	10.87	7	15.22	27	58.70	12	26.09
Food Technology	23	22	95.65	0	0.00	1	4.35	3	13.04	9	39.13	11	47.83
Information Technology	32	29	90.63	0	0.00	3	9.38	11	34.38	12	37.50	9	28.13
Leather Technology	11	7	63.64	0	0.00	4	36.36	0	0.00	2	18.18	9	81.82
Mechanical Engineering	62	54	87.10	0	0.00	8	12.90	19	30.65	32	51.61	11	17.74
Oil Technology	23	20	86.96	0	0.00	3	13.04	2	8.70	13	56.52	8	34.78
Paint Technology	27	24	88.89	0	0.00	3	11.11	2	7.41	12	44.44	13	48.15
Plastic Technology	24	20	83.33	0	0.00	4	16.67	0	0.00	15	62.5	9	37.50
Master of Computer Application	59	56	94.92	0	0.00	3	5.08	14	23.73	37	62.71	7	11.86

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# RESULT ANALYSIS 2018-2019-FIRST YEAR

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**TRANSITION RATE OF 1<sup>st</sup> YEAR UG STUDENTS (2018-19)**

**Percentage of number of students transitioned from first year to the second year  
(without backlog) in undergraduate programs out of enrolled students in  
respective category**

<b>Total No. of 1<sup>st</sup> Year UG Students</b>	<b>Total No. of Passed 1<sup>st</sup> Year UG Students</b>	<b>Percentage of Students</b>
515	377	73.20

• SC

<b>Total No. of 1<sup>st</sup> Year UG Students</b>	<b>Total No. of 1<sup>st</sup> Year UG SC Students</b>	<b>Total No. of Passed 1<sup>st</sup> Year UG SC Students</b>	<b>Percentage of SC Students</b>
515	91	51	56.04

• ST

<b>Total No. of 1<sup>st</sup> Year UG Students</b>	<b>Total No. of 1<sup>st</sup> Year UG ST Students</b>	<b>Total No. of Passed 1<sup>st</sup> Year UG ST Students</b>	<b>Percentage of ST Students</b>
515	04	02	50.00

• Female

<b>Total No. of 1<sup>st</sup> Year UG Students</b>	<b>Total No. of 1<sup>st</sup> Year UG Female Students</b>	<b>Total No. of Passed 1<sup>st</sup> Year UG Female Students</b>	<b>Percentage of ST Students</b>
515	85	65	76.47



## **GATE QUALIFIED STUDENTS DATA**

### **Implementation of GATE**

- Percentage of UG students enrolled for GATE in Academic Session, 2018-19 is **50.19 %**, the details are given below:-

<b>Total No. of Students</b>	<b>No. of Students Enrolled in GATE</b>	<b>% of GATE Enrolment</b>
502	252	50.19

- Percentage of UG students qualified for GATE in Academic Session, 2018-19 is **64.68%**, the details are given below:-

<b>No. of Students Enrolled in GATE</b>	<b>No. of students qualified in GATE</b>	<b>% of Students Qualified for GATE</b>
252	163	64.68



### Training Programs held for Students

- As per the AICTE mandate, 100% of the newly admitted 1st year students attended three weeks Induction Program conducted by mentor faculty of the institute during July 31 to August 18, 2018.
- As per the curriculum, all the students **(100%)** of pre-final year undergo summer internship for 6-8 weeks in the industries/ research organization/academic institutions of their domain area.
- Expert lectures for the students of pre-final year and final year from industry experts are frequently organized by different departments.

## Training Programs held for Teachers & Staff

### **Percentage of faculty trained in either their subject domain, pedagogy or management capacity building and leadership programs**

- 90% faculty members have attended Workshops/ FDPs/ Conferences/ Training Programs/ Management Capacity Building Programs organized at various reputed organizations

Workshops Attended: 40

Conferences Attended: 70

Management Capacity Building Programs/ PDTs: 05

Training/Faculty Development Programs:30



**हरकोर्ट बटलर प्राविधिक विश्वविद्यालय**

नवाबगंज, कानपुर-208002, उ०प्र०, (भारत)

**Harcourt Butler Technical University**

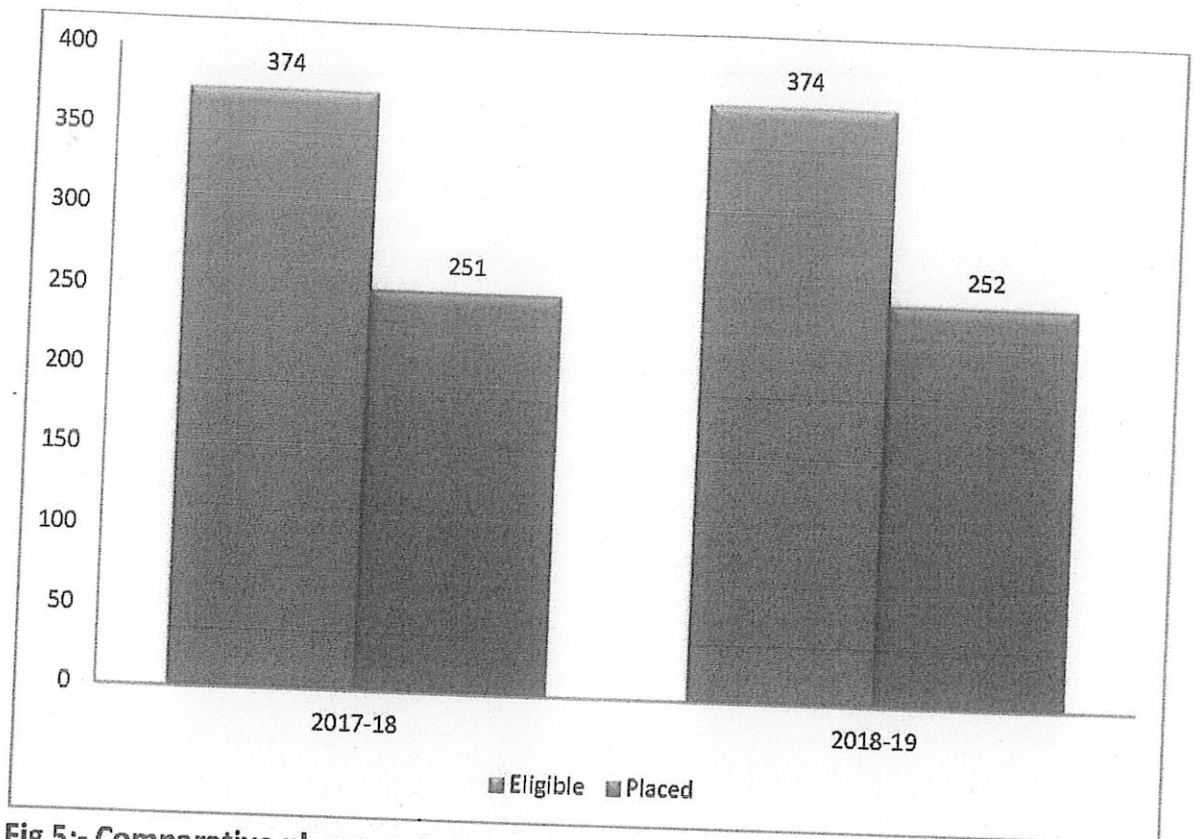
Nawabganj, Kanpur-208002, U.P. (INDIA)

(Formerly Harcourt Butler Technological Institute, Kanpur)

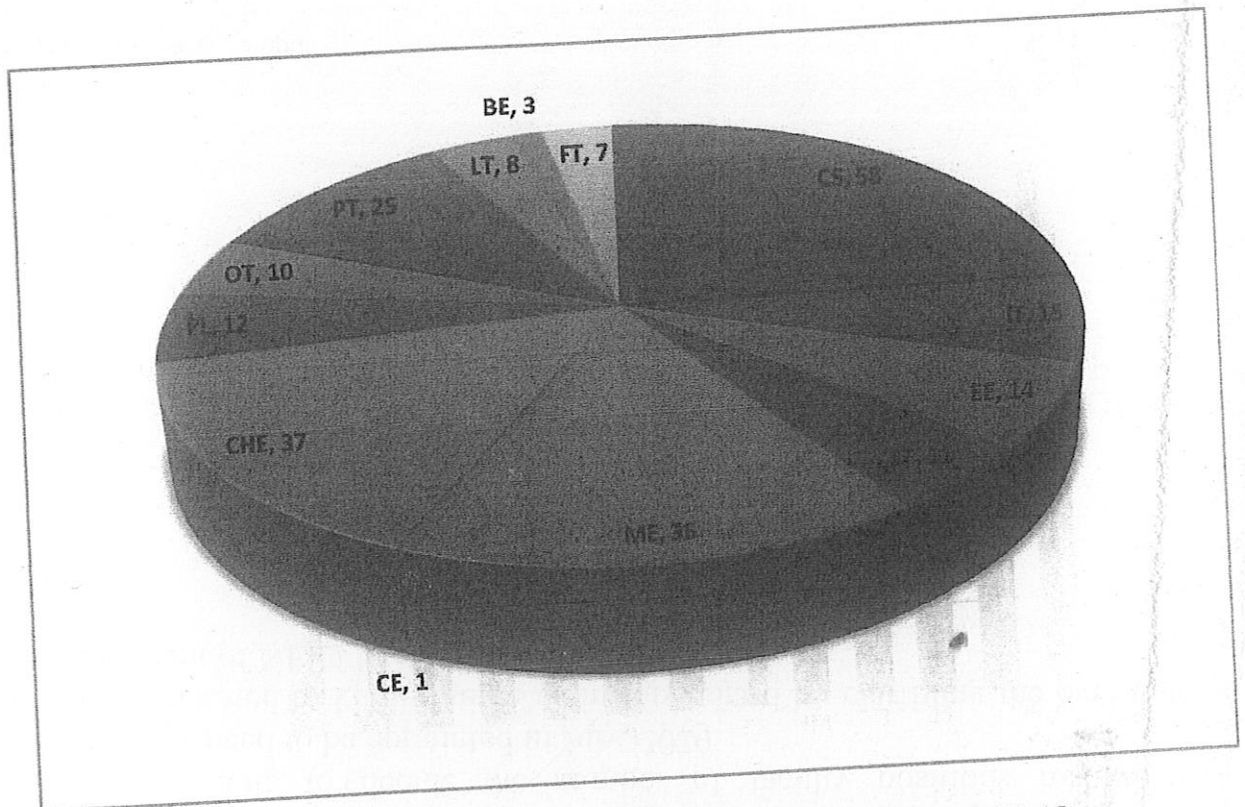
Phone: +91-0512-2534001-5, Fax : +91-0512-2533812, Website : <http://www.hbtu.ac.in> E-mail : [vc@hbtu.ac.in](mailto:vc@hbtu.ac.in)

**Percentage of UG students undergone Internships**

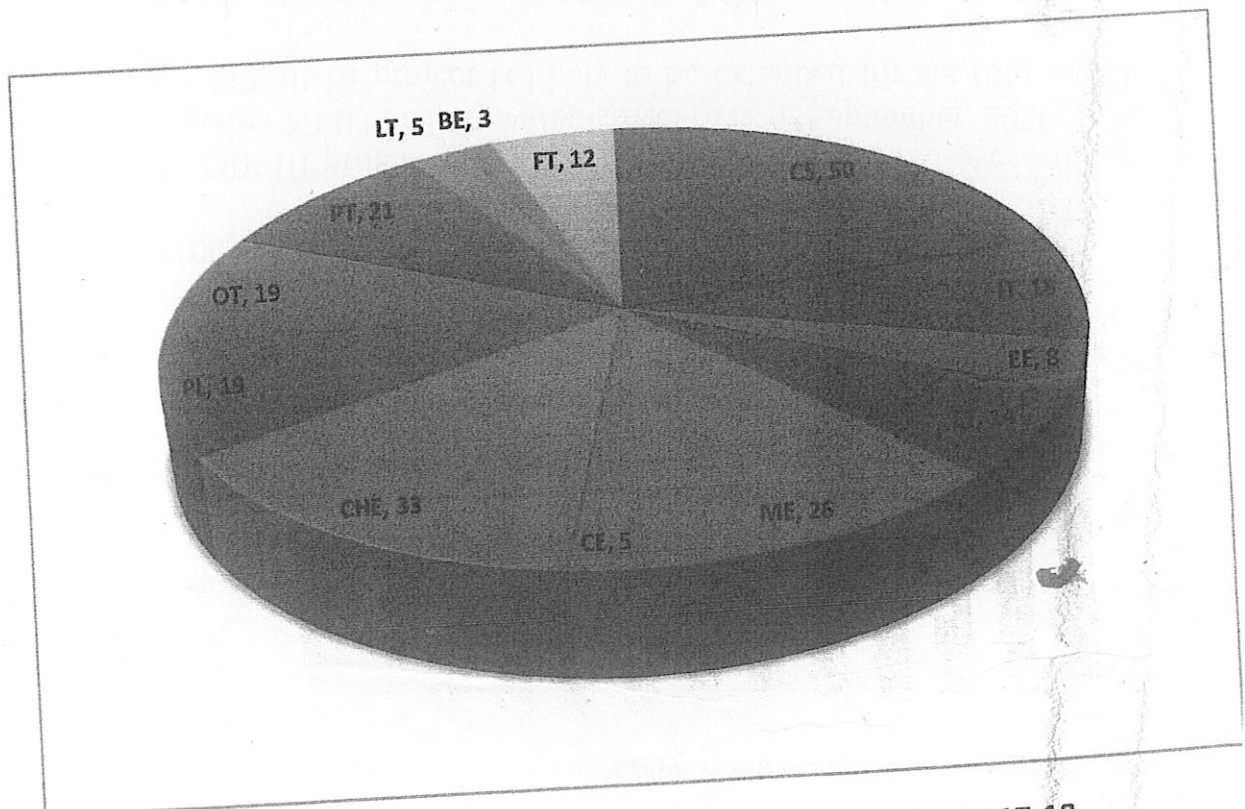
- 100% of III year students undergo internships spanning for 6-8 weeks as per the curricula of the UG program.
- 261 (50.58%) students of I year attended 2 weeks summer training program during July 9-21, 2018 at HBTU, Kanpur.



**Fig 5:- Comparative placement status of last two years**

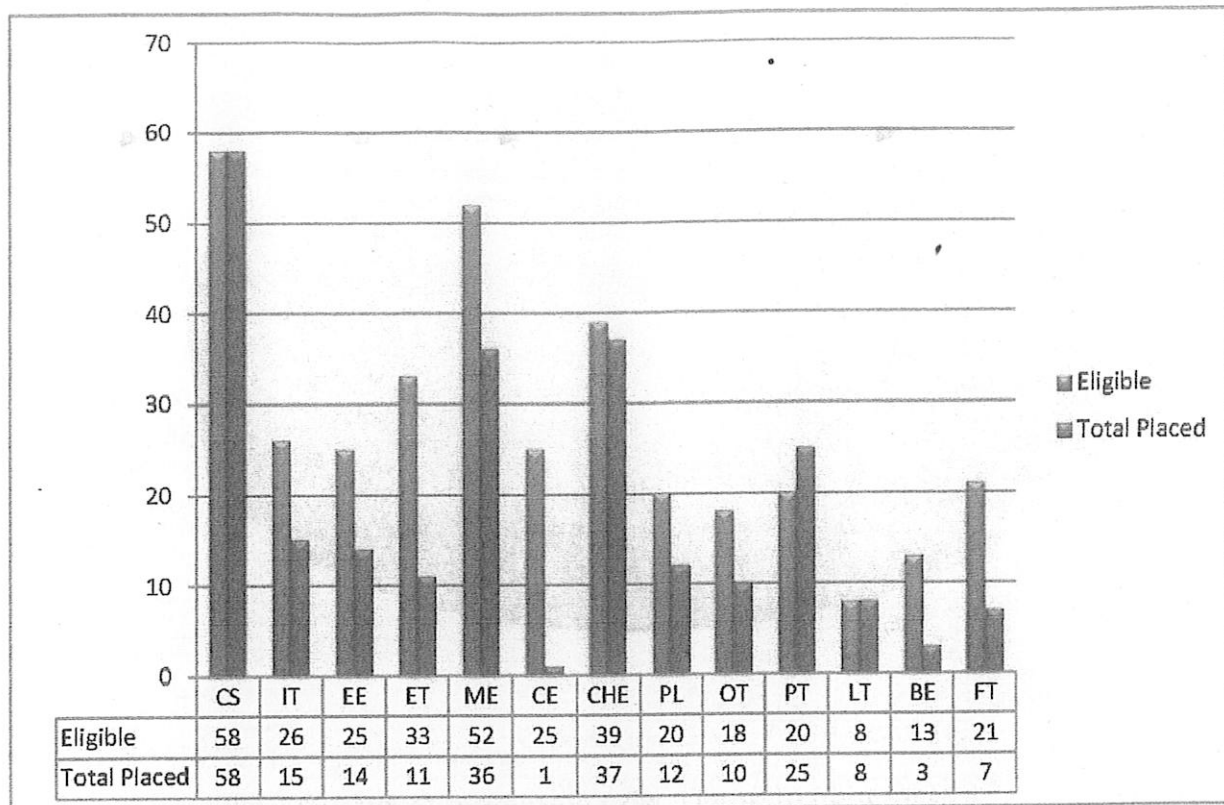


**Fig 3:- Pictorial representation of branch wise placement status 2018-19**

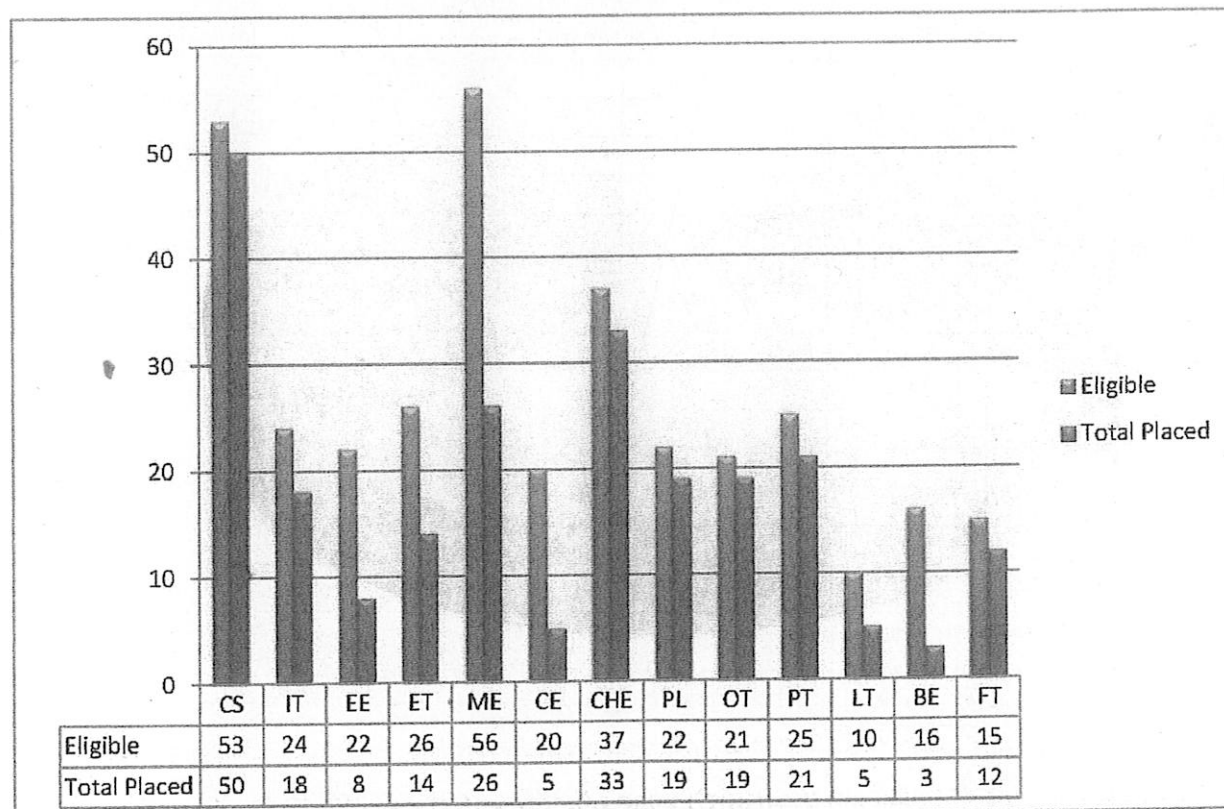


**Fig 4:- Pictorial representation of branch wise placement status 2017-18**





**Fig 1:- Branch wise placement status for 2018-19 batch**



**Fig 2:- Branch wise placement status of 2017-18 batch**

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**Placement for 2018-19 at HBTU KANPUR**

During 2018-19 campus placement, HBTU Kanpur students received a total of 252 offers (including 01 PPO) from 68 companies that conducted on-campus placement. Approximately 374 students were eligible for campus placement this year and placed percentage is 67.40%. Among these, there is 01 International company gave 03 offers. The maximum, average and minimum salary packages offered to the students are 22 LPA, 6.4 LPA and 3 LPA respectively. The total double offers are 20. The overall trend in sector-wise recruitment indicated that is in the preceding years, 'Core' and 'Information Technology' sectors still continued the leading recruiters. The top five recruiter for the year were Olam International and Exxon Mobil made 2 and 3 offer respectively. Samsung R & D Noida made 12 offers followed by Optus with 1 offer. Samsung R & D Bangalore made 10.

A total of 6 startups also participated in the placements this year. They made a total of 12 offers. 30 Paid internships are also arranged to pre-final year students by T & P Cell, it may increase PPOs for next year placement.



PLACEMENT DETAILS FOR BATCH 2015-2019, HBTU KANPUR

S.NO.	Name of the Company	Progress	Date of Visit	CS	IT	EE	ET	ME	CE	CHE	PL	OT	PT	LT	BE	FT	MCA	M.TECH	Package (lpa)	Total	II offer	MALE	FEMALE	Core	Non Core
1	TCS (DIGITAL PROFILE)	OT/PI	22/07/2018	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	2	-	2	0	2	0
2	EXXON MOBIL (PPO)	PP0	22/07/2018	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	9.2	1	-	0	1	1	0
3	ORIENTAL CARBON & CHEMICALS LTD.	WT/OT/PI	20/08/2018	-	-	-	-	2	-	3	-	-	-	-	-	-	-	-	6	5	-	5	0	5	0
4	HERO MOTO CORP.	OT/GD/PI	23/08/2018	-	-	-	-	1	-	-	1	5	-	-	-	-	-	-	7	7	-	5	2	7	0
5	TCS (GENERIC PROFILE)	OT/PI	24/08/2018	6	-	-	2	-	-	-	-	-	-	1	-	3	2	-	3.36/3.54	12/2=14	-	13	1	8	6
6	OLAM INTERNATIONAL	OT/PI	14/09/2018	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	22	3	-	3	0	3	0
7	FL SMIDTH PVT LTD	OT	15/09/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	0	-	0	0	0	0
8	GO-JEK (OFF-CAMPUS)	OT/PI	22/09/2018	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	1	-	1	0	1	0
9	AMADEUS	OT/PI	25/09/2018	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	8.35	2	-	2	0	2	0
10	SAMSUNG R&D BANGALORE	OT/PI	25/09/2018	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	10	2	9	1	10	0
11	GLOBAL LOGIC	OT/GD/PI	27/09/2018	8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	4.82	13	-	8	5	13	0
12	UBER ( OFF-CAMPUS)	OT/PI	28/09/2018	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	1	1	1	0	1	0
13	DAFFODIL SOFTWARE	OT/PI	06/10/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3.5	1	-	1	0	1	0
14	KLOUDRAC SOFTWARE	WT/GD/PI	08/10/2018	2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3.4/3.8	2/3=5	-	5	0	5	0
15	MARUTI SUZUKI INDIA LTD.	OT/PPT/PI	12/10/2018	-	-	-	-	4	-	1	1	4	-	-	-	-	-	-	8	9	-	6	3	9	0
16	JUBILANT LIFE SCIENCES	OT/GD/PI	15/10/2018	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	5.5	3	-	3	0	3	0
17	SRF	OT/PI	15/10/2018	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	5	2	-	0	2	2	0
18	ADM	PI	16/10/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.25	2	-	2	0	2	0
19	NEWGEN SOFTWARE	OT/PI	18/10/2018	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4.25	3	-	0	3	3	0
20	MANKIEWICZ	OT/PI	20/10/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	0	-	0	0	0	0
21	SHERWIN WILLIAMS	OT/GD/PI	23/10/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	0	-	0	0	0	0
22	INDIAMART	OT/PI	24/10/2018	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	7	-	4	3	7	0
23	COMPRO TECHNOLOGIES	OT/VI/PI	25/10/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	0	-	0	0	0	0
24	TATA MOTORS	OT/PI	26/10/2018	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	6.27	3	-	3	0	3	0
25	SAINT GOBAIN	OT/GD/PI	31/10/2018	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	6.3+1	1	-	1	0	1	0
26	SUZUKI MOTORS	OT/GD/PI	15/11/2018	-	-	-	-	3	-	-	-	3	-	-	-	-	-	-	5.75	6	3	6	0	6	0
27	SAMSUNG R&D NOIDA	OT/PI	15/11/2018	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5	12	7	11	2	13	0
28	GKN SINTER METALS	OT/GD/PI	15/11/2018	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	4.5	3	-	2	1	3	0
29	RIL (P&C PROFILE)	OT/PI	19/11/2018	-	-	2	-	1	-	3	-	-	-	-	-	-	-	-	5.5+2	3	-	2	1	3	0
30	RIL (MANUFACTURING)	OT/PI	19/11/2018	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	5.5+2	8	-	8	0	8	0
31	RIL (PETROCHEM)	OT/GD/PI	19/11/2018	-	-	-	-	1	-	-	3	-	-	-	-	-	-	-	5.5+2	4	-	4	0	3	1
32	RIL(IT PROFILE)	OT/PI	19/11/2018	1	-	6	-	-	-	-	-	-	-	-	-	-	-	-	5.5+2	7	-	5	2	1	6
33	ZS ASSOCIATES (DAA)	OT/VI/PI/PI	22/11/2018	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	6.53	4	-	4	0	0	4
34	INDIGO PAINTS	GD/PI	27/11/2018	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	5.8	2	-	2	0	1	1
35	EVALUESERVE	OT/VI/VI	28/11/2018	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	5	2	-	2	0	0	2

# PLACEMENT DETAILS FOR BATCH 2015-2019, HBTU KANPUR

PLACEMENT DETAILS FOR BAI CH 2013-2019, INDIA																										
S.NO.	Name of the Company	Progress	Date of Visit	CS	IT	EE	ET	ME	CE	CHE	PL	OT	PT	LT	BE	FT	MCA	M.TECH	Package (lpa)	Total	II offer	MALE	FEMALE	Core	Non Core	
36	TECHNIP FMC	OT/GD/PI	30/11/2018					3	2						1			1	5.16	7		6	1	7	0	
37	YARA FERTILIZERS	OT/PI	01/12/2018					1	2										5.97	3		1	2	3	0	
38	ITC FOODS	OT/PI	07/12/2018																5.5	0		0	0	0	0	
39	VA TECH WABAG	OT/GD/PI	17/12/2018						4										5.75	4	1	2	2	4	0	
40	PI INDUSTRIES	WT/GD/PI	17/12/2018						4										5	4		3	1	4	0	
41	EXXON MOBIL	GD/PI	18/12/2018						1	1									10.72	2	1	1	1	2	0	
42	ADITYA BIRLA GROUP	OT/GD/PI	20/12/2018			5		5			2								6	15		14	1	15	0	
43	BEPL	PI	15/01/2019																4.3	2		1	1	2	0	
44	YARA FERTILIZERS (INSTRUMENTATION)	WT/PI	15/01/2019				1												5.97	1		0	1	1	0	
45	RSL	OT/VI/PI	15/01/2019	2													4		5	6		5	1	6	0	
46	ADANI WILMAR	OT/PI	16/01/2019								3				2	1			4.05	6				6	0	
47	APPINVENTIV	OT/PI	17/01/2019																3.2	2		2	0	2	0	
48	BHARAT OMAN REFINERY LTD	OT/PI	18/01/2019						2										6.65	2	2	2	0	2	0	
49	AKS IT	WT/PI	21/01/2019	1															4.5	1	1	1	0	1	0	
50	JAMA ENTERPRISES	PI	23/01/2019											4					3	4		4	0	4	0	
51	POLESTAR SOLUTIONS	OT/PI	25/01/2019			1		1									1		5.01	3		2	1	0	3	
52	KINGFA SCIENCE & TECH LTD	WT/GD/PI	07/02/2019																5.5	0		0	0	0	0	
53	JOHNSON MATTHEY	WT/GD/PI	07/02/2019						1										6	1		0	1	1	0	
54	BERGER PAINTS (TSOT)	OT/VI	11/02/2019						1	3									6	4		4	0	0	4	
55	PUBLICIS SAPIENT	OT	13/02/2019																5.3	0		0	0	0	0	
56	BIRLA CARBON	WT/GD/PI	18/02/2019							2									5	2		2	0	2	0	
57	SAMSUNG ENGG	OT/PI	23/02/2019			2	1	2	1	1									5.3	7		7	0	7	0	
58	OPTUM	OT/PI	28/02/2019	1															10.5	1		1	0	1	0	
59	PAYTM (OFF-CAMPUS)	PI	28/02/2019	1															5	1		0	1	1	0	
60	ALUDECOR	PI	01/03/2019											1					3.1	1		1	0	1	0	
61	RELIANCE JIO	OT	08/03/2019																4.5	0		0	0	0	0	
62	BERGER PAINTS (GET)	OT/PI	18/03/2019											4					5	4		4	0	4	0	
63	MYPATHSHALA	OT/PI	29/03/2019	1	2														6/3.6	1/2-3		3	0	3	0	
64	COROMANDEL INTERNATIONAL LTD	OT/PI	29/03/2019					1	1										5	2		1	1	2	0	
65	CUGL	PI	02/04/2019			1	2												5.5	3		3	0	3	0	
66	PRACHI LEATHER	PI	08/04/2019												3					3.6	3		2	1	3	0
67	IBL AGRO	PI	15/04/2019											2			1		5.5	5	5	1	3	2	5	0





**Harcourt Butler Technical University, Kanpur-02**  
Office of Research and Development

**Year - 2018-19 : Information of Research and Development**

Particulars	CSE	ME	CE	EE	ET	Ch E	LT	BE	FT	OT	PT	PL	Phy	CY	MATHS	HSS	Total
Research Papers published in journals	10	13	01	03	13	09	--	02	15	--	--	01	01	01	05	02	76
Full papers in Conference Proceedings	15	20	04	05	08	03	--	--	06	--	01	--	--	--	--	01	63
Chapters published in edited books	--	01	04	--	--	--	--	01	02	--	--	--	--	01	--	--	09
Book Published	--	01	--	--	--	--	--	01	01	--	--	--	--	--	--	01	04
Research Projects Completed/Ongoing	01	06	--	--	02	01	--	--	--	--	--	--	--	--	--	--	10
No. of Ph.D. Awarded	01	03	--	--	04	--	--	--	--	--	--	--	--	01	03	--	12
Training Course/DP Organized	02	25	03	--	19	02	03	--	01	--	04	01	01	01	01	--	54
Papers presented in Conferences	09	--	06	--	07	06	--	02	08	16	01	--	02	02	--	12	71
Invited Lectures	12	02	08	02	01	03	01	--	12/02	05	02	01	01	--	03	01	24
Awards /Achievements	--	03	09	--	--	05	02	01	05	--	01	--	--	01	--	--	27

Harcourt Butler Technical University  
Kanpur-02  
COORDINATOR, RESEARCH

K M Mohapatra  
07/05/19

(K M Mohapatra)  
Dean, Research and Development  
(K.M. Mohapatra)  
Dean, Research and Development  
H.B.T.U., Kanpur-2

Ref No- 316/ LT/ 2019  
04/05/2019  
04.05.2019

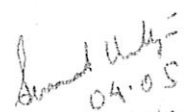
To,  
Prof. K. M. Mohapatra  
Dean, R & D  
HBTU Kanpur

Kindly refer to your Letter No. 470/आर.एड.डी./2019 dated 03/05/2019. Please find the details of the activities of session 2018-19 Leather Technology Department.

Department: Leather Technology Department  
School: School of Chemical Technology

particulars	(2018-19)
Research paper published in journals	-
Full papers in Conference Proceedings	-
Chapters published in edited books	-
Research Projects Completed/Ongoing	-
No. of Ph.D. Awarded	-
Training Course/FDP Organized	3 (1. Seminar on "Entrepreneurship Development / Motivation Campaign" by Mr.G.Velladurai Deputy Director of SISI (MSME), Kanpur 2. Expert Lecture on "Modern Practices in Leather Manufacture" by Mr. Anurag Singh 3. Workshops on "Latest Technique In Leather Processing" by Mr. Satyendra Singh Parihar)
Papers presented in Conferences	-
Invited Lectures	Invited Lecture on "Other Tannages" at MSME
Awards / Achievements	2 (1. Bharat Jyoti Award to Mr. S. Chatterjee Given by- India International Friendship Society on 04/12/18. 2. Best Citizen of India to Mr. S. Chatterjee Given by- International Publishing House.)



  
04.05.2019  
Sumant Chatterjee  
Leather Tech. Deptt.  
School of Chemical Technology  
H.B.T.U. Kanpur-208002

हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर  
विभागाध्यक्ष कार्यालय, विद्युत अभियांत्रिकी विभाग  
पत्र संख्या: 685/वि0अ0वि0/2019  
दिनांक: 06/05/2019

कुलसचिव,  
एच0बी0टी0यू0, कानपुर

आपके पत्र सं0 470/आर0एण्ड0डी0/2019 दिनांक 03 मई, 2019, के कम में कुलसचिव कार्यालय के पत्र सं0 79/अदम/जी0ए0/विविध/2019 दिनांक 03 मई, 2019 का सन्दर्भ लेते हुए विश्वविद्यालय के शैक्षिक सत्र 2018-19 की उपलब्धियों को प्रेषित प्रोफार्मा में भरकर प्रेषित कर अग्रेत्तर कार्यवाही हेतु प्रेषित।


Sl. No.	Particulars	(2018-19)
1	Research Papers published in journals	03
2	Full papers in conference proceedings	05
3	Chapters published in edited books	-
4	Book published	-
5	Research projects completed/ongoing	-
6	No. of Ph.D. Awarded	-
7	Training course/FDP organized	-
8	Papers presented in conferences	-
9	Invited Lectures	02
10	Awards / Achievements	-

  
(जे0 के0 द्विवेदी)  
विभागाध्यक्ष

प्रतिलिपि:- अधिष्ठाता, शोध एवं विकास एच0बी0टी0यू0, कानपुर।

Recd to day  
Rs  
7.5.19  
at 1.10 pm



  
06.05.2019  
(जे0 के0 द्विवेदी)  
विभागाध्यक्ष



Dean, R & D  
H.B.T.U.Kanpur

In reference to your letter no.:470/R&D/2019, dated 03 May 2019, please find herewith the desired information, in the prescribed format, given hereunder as:

Particulars	(2018-19)
Research Papers Published in Journals	01
Full Papers in Conference Proceedings	00
Chapters published in edited books	NIL
Books Published	NIL
Research Projects Completed/Ongoing	NIL
No. of Ph.D. Awarded	NIL
Training Course/FDP Organized	01
Papers Presented in Conferences	02
Invited Lectures	01
Awards/Achievements	NIL

Submitted for your kind information and necessary action.



(S.K.Sharma)  
Head,  
Department of Physics



8/5/19



RD  
03/05/19  
4:45 PM

हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर।  
कार्यालय अधिष्ठाता, शोध एवं विकास

पत्रांक-470 / आर0एण्ड डी0 / 2019

दिनांक : 03 मई, 2019

समस्त विभागाध्यक्ष

कृपया कुलसचिव कार्यालय के पत्र संख्या-79/अदम/जी0ए0/विविध/2019 दिनांक 03 मई, 2019 का सन्दर्भ लेने का कष्ट करें, जिसमें विश्वविद्यालय के शैक्षिक सत्र 2018-19 की उपलब्धियों की समीक्षा तथा 2019-20 हेतु कतिपय विशिष्ट निमित्त सुझावों की अपेक्षा की गई है।

अतः आप से अनुरोध के प्राथमिकता के दृष्टिगत कल दिनांक 04.05.2019 को सायं 5 बजे तक अनिवार्य रूप से निम्न प्रेषित प्रोफार्मा में उक्त सूचना भरकर प्रेषित करने का कष्ट करें, ताकि

- 801/Head/BE/19

06/05/19

PROFORMA

Department: Biochemical Engineering

School: School of Chemical Technology

Particulars	(2018-19)
Research Papers published in journals	02
Full papers in Conference Proceedings	-
Chapters published in edited books	01
Book Published	01
Research Projects Completed/Ongoing	-
No. of Ph.D. Awarded	-
Training Course/FDP Organized	-
Papers presented in Conferences	02
Invited Lectures	-
Awards /Achievements	01

शासन को प्रेषित की जाने वाली सभी सूचनाओं को संकलित कर समय से कुलसचिव कार्यालय को उपलब्ध कराई जा सके।

06/05/19  
School of Chemical Technology  
Harcourt Butler Technical University, Kanpur

Ref. No.1061/Chemistry/2019 Dated: 06/05/2019

Dean  
Research and Development  
HBTU, Kanpur

Sir,

In response to your letter No.470/R and D/2019 Dated: 03/05/2019, the desired information is as follows:

PROFORMA

Department: Chemistry  
School: Applied and Basic Sciences

PARTICULARS	2018-2019
Research Papers published in Journals	01
Full papers in conference proceedings	-
Chapters published in edited books	01
Book published	-
Research projects completed/ongoing	-
No.of Ph.D. awarded	01
Training Courses/FDP organized	01
Papers presented in conferences	02
Awards/achievements	01

(C.L.Gehlot)  
Officer In-charge  
Department of Chemistry

Recd.  
R2  
7/5/19

Ref. No. : 676 /PL/19

Date: 04/05/2019

**Dean, R&D, HBTU, Kanpur**

Please find enclosed herewith the desired information of Plastic Tech. Department as per your letter No.470/ R&D/19 dated 03.05.2019:

**Department: Plastic Technology Department**

**School: School of Chemical Technology**

Particulars	(2018-19)
Research Papers published in journals	01
Full papers in conference Proceedings	NIL
Chapters published in edited books	NIL
Book Published	NIL
Research Projects Completed/ Ongoing	NIL
No, of Ph.D. Awarded	01
Training Course/FDP Organized	NIL
Papers presented in Conferences	01
Invited Lectures	NIL
Awards/ Achievements	

  
(Deepak Srivastava)

Prof. & Head

Dept. of Plastic Tech.

Dr. Deepak Srivastava

Professor & Head

Dept. of Plastic Technology

H.B. Technical University, Kanpur

2001  
6/5/19



No. 55/C&E/19  
dt-07-05-2019

Department -: Computer Science & Engineering  
School -: Engineering


अधिष्ठाता, शोध एवं विकास

आपके पत्र संख्या 470/आर0एण्ड डी0/2019 दिनांक मई 03, 2019 के क्रम में मांगी गयी सूचना वांछित प्रोफार्मा में भरकर आपके सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

Particulars	2018-19				
	RRS	NK	AY	VDK	PV
Research Paper published in journals	04	04	-	02	-
Full paper in Conference Proceedings	03	03	05	02	02
Chapters published in edited books	-	-	-	-	-
Book published	-	-	-	-	-
Research Projects Completed/ongoing	-	-	-	-	01
No. of Ph.D. Awarded	01	-	-	-	-
Training Course /FDP Organized	-	-	-	02	
Paper presented in Conferences	-	02	04	01	02
Invited Lectures	02	05	-	02	03
Award/ Achievement	-	-	-	-	-

RS  
7.5.19



  
7.5.2019  
(डॉ रघुराज सिंह)  
आचार्य एवं विभागाध्यक्ष  
Dr. Raghu Raj Singh  
Professor & Head  
Computer Science & Engg. Deptt.  
H.B.T.U., Kanpur-208002 (U.P.)

पत्रांक: 25 / गणित / 19  
दिनांक: 04 / 05 / 2019

अधिष्ठाता शोध एवं विकास

पत्र संख्या 79 / अदम जी0ए0 / विविध / 2019 दिनांक 03 मई 2019 के सन्दर्भ में  
वांछित सूचना निम्नलिखित प्रोफार्मा पर प्रेषित है

*R. Bal*

(रेखा बाली)  
आचार्य एवं विभागाध्यक्ष  
गणित विभाग

Department of Mathematics  
Faculty of Science & Applied Sciences  
M.S.U. Varanasi

*R. Bal*

Department : Mathematics  
School : School of Basic and Applied Sciences

(2018-19)	
Particulars	
Research Papers published in journals	<p>1. Modeling the impact of biolarvicides on malaria transmission, Surabhi Pandey, Seema Nanda, Amit Vutha and Ram Naresh, Journal of Theoretical Biology, 454, 369-409, 2018</p> <p>2. Modeling the impact of media awareness programs on mitigation of carbon dioxide emitted from automobiles, Shyam Sundar, Ashish Kumar Mishra and Ram Naresh, Modeling Earth Systems and Environment, 4(1), 349-357, 2018.</p> <p>3. Does unemployment induce crime in society? A mathematical study, Shyam sundar, Agraj Tripathi and Ram Naresh, American Journal of Applied Mathematics and Statistics, 6(2), 44-53, 2018.</p> <p>4. Study of Transport of Nanoparticles with K-L Model Through a Stenosed Microvessels: R Bali, N Gupta. Applications and Applied Mathematics. An International Journal 13 (2), 1157-1170, 2018.</p> <p>5. Study of non-Newtonian fluid by K-L model through a non-symmetrical stenosed narrow artery. R Bali, N Gupta. Applied Mathematics and computation 320, 358-370, 2018.</p>
Full papers in Conference Proceedings	Nil
Chapters published in edited books	Nil
Book Published	Nil
Research Projects Completed/Ongoing	Nil
No. of Ph.D. Awarded	03
Training Course/ FDP Organized	Mathematical Modeling and Research Methodology
Papers presented in Conferences	Nil
Invited Lectures	<p><b>Prof. Ram Naresh</b></p> <ul style="list-style-type: none"> <li>Delivered an invited talk on "Modeling the spread of HIV/Aids: role of media awareness programs", South Asian University, New Delhi, Dec. 01-03, 2018.</li> <li>Delivered an invited talk on "outcome Based Education: An integrated Approach to Teaching Learning Process", in NAAC sponsored National seminar on "Need for Research and Innovation in Teaching Methodology", SSDC, Kanpur, Jan. 27-29, 2019 and Chaired a Technical Session.</li> </ul> <p><b>Prof. Rekha Bali</b></p> <ul style="list-style-type: none"> <li>Delivered Invited Lectures in Refresher course in Mathematics, Statistics and computer science (2.1.19-22.1.19) on 4.1.19 at Academic staff collage Lucknow.</li> </ul>
Awards/ Achievements	Nil

No. 72/CED/2019 dated: 04 /05/2019

**Dean R&D, HBTU Kanpur**

This is in reference to your letter No.470/R&D/19 dated 3-5-2019, regarding information about Departmental Achievements. The requisite information is given below.

Department: Civil Engineering

School: Engineering

Particulars	2018-19
Research Papers published in journals	1
Full papers in Conference Proceedings	4
Chapters published in edited books	4
Book Published	0
Research Projects Completed/Ongoing	0
No. of Ph.D. Awarded	0
Training Course/FDP Organized	3
Papers presented in Conference	6
Invited Lectures	8
Awards/Achievements	9



(Pradeep Kumar)  
Professor & Head  
Civil Engineering Department

**Dr. Pradeep Kumar**  
Professor & Head  
Department of Civil Engg.  
H.B. Technical University  
Kanpur-208002





Ref. No. 384OT/HOD/2019

Date: 04/05/2019

Dean R&D,  
HBTU, Kanpur

In reference to your letter no. 470/R&D/19 dated May 03, 2019 the following information is given below.

Department- Oil Technology  
School- Chemical Technology

Particulars	(2018-19)
Research Papers Published in Journals	-
Full Papers in Conference Proceedings	-
Chapters Published in Edited Books	-
Book Published	-
Research Projects Completed/ Ongoing	-
No, of Ph.D. Awarded	-
Training Course/ FDP Organized	-
Papers Presented in Conferences	16
Invited Lectures	5
Awards/ Achievements	

#### Achievements of Department of Oil Technology in 2018-19


- One Steam Distillation Pilot Plant for essential oil extraction was donated by Swaraj Herbal Plants (P) Ltd. Barabanki
- Dr. R. K. Trivedi becomes the National President of Oil Technology Association of India (OTAI).
- Dr. R. K. Trivedi became the Chairman of Bureau of Indian Standards (BIS) Ch. D. 25 sectional committee on soaps & detergents.
- Dr. R. K. Trivedi became the Chairman of Bureau of Indian Standards (BIS) FAD-13 sectional committee on oilseeds & oils.
- Memorandum of understanding signed by M/s Ruchi Soya P. Ltd and HBTU continuous for the year 2018-19.
- Refurbishment of Seminar hall of Department of Oil Technology was approved by M/s Ruchi Soya P. Ltd.
- Dr. P. K. S. Yadav becomes the Assistant Dean School of Chemical Technology.
- Dr. P. K. S. Yadav becomes the Nodal officer of Chemical Technology of Technical Education Quality Improvement Programme (TEQIP).
- Dr. P. K. S. Yadav becomes Vice President Research Investigation & Implementation Committee (RIIC) of Oil Technology Association of India (OTAI).
- An International Conference on "Value addition in oil seeds, oils and derivatives through innovative Technologies" was organized by Department of Oil Technology on 22-23



Dr. R.K. Trivedi  
Prof. & Head Oil Technology Deptt.  
School of Chemical Technology  
H.B.T.U. Kanpur-208002

December 2018 at Department of Chemical Engineering, IIT -BHU, Varanasi, India in collaboration with OTAI.

- A workshop on "Analytical Solutions for optimizing Laboratory productivity focusing on Lipid Sciences" was organized by Department of Oil Technology on March 24, 2018 with the help of Agilent Technologies & OTAI.
- The students of Oil Technology are organizing confluence techno-cultural fest every year. Last year it was organized during 13-14 April 2018. They also published magazines regarding this event.
- Mr. D. N. Tewari Guest Faculty/Visiting Faculty of Department becomes Honorary General Secretary of Oil Technology Association of India (OTAI).
- Mr. Rajesh Srivastava Guest Faculty/Visiting Faculty of Department becomes Honorary Treasurer of Oil Technology Association of India (OTAI).
- Mr. H. S. Sharma Guest Faculty/Visiting Faculty of Department becomes Honorary Joint Secretary of Oil Technology Association of India (OTAI).
- Students of Oil Technology got highest placement package (Rs. 22 Lakhs approximately) from OLAM International.
- Visit of Ambador of Indonasia in the department for collaboration in research and higher studies.
- 2nd year students Anjaney Basedia & its team Winner of MEGABUCKS 2019 at IIT Kanpur organized by TiE-UP.
- 2nd year students Anjaney Basedia & its team develop a software name Renera Homes Pvt. Ltd.

  
Dr. R.K. Trivedi  
Prof. & Head Oil Technology Deptt.  
School of Chemical Technology  
H.B.T.U. Kanpur-208002  
Prof. & Head  
Department of Oil Tech. - Che. Tech.  
HBTU Kanpur

H.B.T.U. Kanpur-208002  
School of Chemical Technology  
Prof. & Head Oil Technology Deptt.  
School of Chemical Technology  
Dr. R.K. Trivedi  
H.B.T.U. Kanpur-208002



**हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर।**  
**कार्यालय अधिष्ठाता, शोध एवं विकास**

पत्रांक-470/ आर0एण्ड डी0/ 2019

दिनांक : 03 मई, 2019

समस्त विभागाध्यक्ष

कृपया कुलसचिव कार्यालय के पत्र संख्या-79/अदम/जी0ए0/विविध/2019 दिनांक 03 मई, 2019 का सन्दर्भ लेने का कष्ट करें, जिसमें विश्वविद्यालय के शैक्षिक सत्र 2018-19 की उपलब्धियों की समीक्षा तथा 2019-20 हेतु कतिपय विशिष्ट निमित्त सुझावों की अपेक्षा की गई है।

अतः आप से अनुरोध के प्राथमिकता के दृष्टिगत कल दिनांक 04.05.2019 को सायं 5 बजे तक अनिवार्य रूप से निम्न प्रेषित प्रोफार्मा में उक्त सूचना भरकर प्रेषित करने का कष्ट करें, ताकि

PROFORMA

Department:

School:

Particulars	(2018-19)
Research Papers published in journals	09
Full papers in Conference Proceedings	03
Chapters published in edited books	—
Book Published	—
Research Projects Completed/Ongoing	01
No. of Ph.D. Awarded	—
Training Course/FDP Organized	02
Papers presented in Conferences	06
Invited Lectures	03
Awards /Achievements	05

शासन को प्रेषित की जाने वाली सभी सूचनाओं को संकलित कर समय से कुलसचिव कार्यालय को उपलब्ध कराई जा सके।

226/Chem. E-99/17  
04.05.2019

Dean R & D  
Request information  
filled in given form (above)  
for your n. a.

*[Signature]*  
4/5/19  
Head  
Chem. Engg. Deptt.  
H.B.T.U., KANPUR-02

*[Signature]*  
(के0 एम0 महापात्रा)  
अधिष्ठाता, शोध एवं विकास

Ref. No. 294/FT/2019

Date: 04-05-2019

To,

Dean of research & development  
HBTU, Kanpur

This is in reference of your letter no. 470/ R&D/ 2019, dated: 03-05-2019.

PERFORMA

Department: Food Technology

School: Chemical Technology

Particulars	2018-2019
Research Papers published in journals	15
Full paper in conference proceeding	06
Chapter published in edited book	02
Book published	01
Research project completed / ongoing	Nil
No of Ph.D. awarded	Nil
Training course/ FDP	1
Paper presented in conferences	08
Invited Lectures (From HBTU faculties/ In HBTU by external)	12/02
Awards/ Achievement	05

*Pr*  
6/5/19

*Pr*

*Alak*  
(Dr. Alak Kumar Singh) 4/5/2019  
Professor & Head,  
Food Technology Deptt.  
**Prof. Alak Kumar Singh**  
Head, Department of Food Technology,  
School of Chemical Technology,  
H.B. Technical University, Kanpur-02

Ref No: 569/SoHSS/2019

Dated: 04/05/2019

Dean, R&D

As per your letter no: 470/ R&D/19, dated: 03/05/2019, the information asked by you is given below for your kind information and necessary action:

Particulars	2018-19
Research Papers published in journals	2
Full Papers in Conference Proceedings	1
Chapters published in edited books	-
Book Published	1
Research Projects Completed/ Ongoing	-
No. of Ph.D. Awarded	-
Training Course/ FDP organized	-
Paper presented in conferences	12
Invited Lectures	1
Awards/ Achievements	-

Bm

(B. Nigam)

Associate Professor

Head, Department of Humanities

RAN

हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर।  
कार्यालय अधिष्ठाता, शोध एवं विकास

पत्रांक.- 479/ आर0एण्ड डी0/ 2019

दिनांक : 03 मई, 2019

समस्त विभागाध्यक्ष

कृपया कुलसचिव कार्यालय के पत्र संख्या-79/अदम/जी0ए0/विविध/2019 दिनांक 03 मई, 2019 का सन्दर्भ लेने का कष्ट करें, जिसमें विश्वविद्यालय के शैक्षिक सत्र 2018-19 की उपलब्धियों की समीक्षा तथा 2019-20 हेतु कतिपय विशिष्ट निमित्त सुझावों की अपेक्षा की गई है।

अतः आप से अनुरोध के प्राथमिकता के दृष्टिगत कल दिनांक 04.05.2019 को सायं 5 बजे तक अनिवार्य रूप से निम्न प्रेषित प्रोफार्मा में उक्त सूचना भरकर प्रेषित करने का कष्ट करें, ताकि

PROFORMA

Department:

School:

Particulars	(2018-19)
Research Papers published in journals	—
Full papers in Conference Proceedings	01
Chapters published in edited books	—
Book Published	—
Research Projects Completed/Ongoing	—
No. of Ph.D. Awarded	—
Training Course/FDP Organized	04.
Papers presented in Conferences	01
Invited Lectures	02.
Awards /Achievements	01

शासन को प्रेषित की जाने वाली सभी सूचनाओं को संकलित कर समय से कुलसचिव कार्यालय को उपलब्ध कराई जा सके।

Ref.No-537/PT/19

Date-06/5/19

2019-20

Suggestions

- M.Tech. Programme in Paint Technology should be started to sustain the department may be on self financed basis/GATE qualified only.

(के0 एम0 महापात्रा)

अधिष्ठाता, शोध एवं विकास

06/05/2019,

पत्रांक: 25 / गणित / 19

दिनांक: 04 / 05 / 2019

अधिष्ठाता शोध एवं विकास

पत्र संख्या 79 / अदम जी0ए0 / विविध / 2019 दिनांक 03 मई 2019 के सन्दर्भ में  
वांछित सूचना निम्नलिखित प्रोफार्मा पर प्रेषित है

*R. Bala*

(रेखा बाली)

आचार्य एवं विभागाध्यक्ष

गणित विभाग

Post. Balch. 10  
Department of  
School of Basic & Applied Sciences  
L.S.D. Campus 1987

*[Signature]*



Particulars		(2018-19)
Research Papers published in journals		<p>1. Modeling the impact of biolarvicides on malaria transmission. Surabhi Pandey, Seema Nanda, Amit Vutha and Ram Naresh, Journal of Theoretical Biology, 454, 369-409, 2018</p> <p>2. Modeling the impact of media awareness programs on mitigation of carbon dioxide emitted from automobiles. Shyam Sundar, Ashish Kumar Mishra and Ram Naresh, Modeling Earth Systems and Environment, 4(1), 349-357, 2018.</p> <p>3. Does unemployment induce crime in society? A mathematical study, Shyam sundar, Agraj Tripathi and Ram Naresh, American Journal of Applied Mathematics and Statistics, 6(2), 44-53, 2018.</p> <p>4. Study of Transport of Nanoparticles with K-L Model Through a Stenosed Microvessels: R Bali, N Gupta. Applications and Applied Mathematics. An International Journal 13 (2), 1157-1170, 2018.</p> <p>5. Study of non-Newtonian fluid by K-L model through a non-symmetrical stenosed narrow artery. R Bali, N Gupta. Applied Mathematics and computation 320, 358-370, 2018.</p>
Full papers in Conference Proceedings		Nil
Chapters published in edited books		Nil
Book Published		Nil
Research Projects Completed/Ongoing		Nil
No. of Ph.D. Awarded		03
Training Course/ FDP Organized		Mathematical Modeling and Research Methodology
Papers presented in Conferences		Nil
Invited Lectures		<p><b>Prof. Ram Naresh</b></p> <ul style="list-style-type: none"> <li>Delivered an invited talk on "Modeling the spread of HIV/Aids: role of media awareness programs", South Asian University, New Delhi, Dec. 01-03, 2018.</li> <li>Delivered an invited talk on "outcome Based Education: An integrated Approach to Teaching Learning Process", in NAAC sponsored National seminar on "Need for Research and Innovation in Teaching Methodology", SSDC, Kanpur, Jan. 27-29, 2019 and Chaired a Technical Session.</li> </ul> <p><b>Prof. Rekha Bali</b></p> <ul style="list-style-type: none"> <li>Delivered Invited Lectures in Refresher course in Mathematics, Statistics and computer science (2.1.19-22.1.19) on 4.1.19 at Academic staff collage Lucknow.</li> </ul>
Awards/ Achievements		Nil

Harcourt Butler Technical University, Kanpur  
Office of the Dean Research and Development

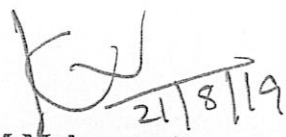
No.: 646/R&D/ /2019

Date: 21 Aug., 2019

Prof. Raghuraj Singh,  
Coordinator, TEQIP-III,  
HBTU, Kanpur

With reference to your letter no-266/Ext/TEQIP-III/19 dated 20.08.2019, kindly find enclosed herewith the required information from Research and Development.

Encl: as above.

  
(K M Mohapatra)

Dean, R & D  
(K.M. Mohapatra)  
Dean, Research and Development  
H.B.T.U., Kanpur-2

  
Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

अधिष्ठाता, शोध एवं विकासएच0बी0टी0यू0, कानपुर।

आपके पत्रांक सं०: 470/आर0एण्ड डी0/2019 दिनांक 03/05/2019 के सापेक्ष में मांगी सूचना आपके द्वारा प्रेषित प्रोफार्मा में आपके समक्ष अग्रिम एवं आवश्यक कार्यवाही हेतु प्रेषित है।

PROFORMA**Department: Electronics Engineering****School: Dean, School of Engineering**

S.No.	Particulars	(2018-19)
1.	Research Papers published in journals	13
2.	Full papers in Conference Proceedings	08
3.	Chapters published in edited books	-
4.	Book Published	-
5.	Research Projects Completed/Orgoing	02
6.	No., of Ph.D. Awarded	04
7.	Training Course /FDP Organized	10
8.	Papers Presented in Conferences	07
9.	Invited Lectures	01
10.	Awards/ Achievements	-


  
 (प्रो० कृष्ण राज)  
 विभागाध्यक्ष  
 इलेक्ट्रॉनिक्स इंजी० विभाग

**List of R&D Project**  
(Currently running in the University)

Sl. No.	Project Investigator(s)	Title of Project	Sponsoring Agency	Duration(Specify date & Year)	Amount Rs. (in Lakhs)
1.	Dr. S.K.S. Yadav, Asst. Prof. MED,	Development experimental Study and Multi-Objective Optimization of Electrical Discharge Drilling Process (EDD)	DST, SERB, New Delhi	03 Years	27.78
2.	Dr. S.K.S. Yadav (PI) Dr. V.P. Singh, MED (Co-PI)	Development of Experimental setup for Machining and finishing of Biocompatible materials for Dental Implant	DIC, IIT Kanpur	01 Year (2017)	09.50
3.	Prof. Anand Kumar, MED Dr. V.P. Singh	Design and Development of utility product using waste recycled rubber	CST UP	03 Years	11.94
4.	Dr. S K S Yadav, (PI) MED	Experimental study of Drilling Electro-chemical park Machining (ECSM) setup.	UPCST, Lucknow	03 years	08.0
5.	Mr. Brajesh Singh, FT	Inspection of gross polluting Industries (GPIs) in Ganga main stem.	CPCB, Delhi	-	15.75
5.	Dr. S.K.S. Yadav (PI) ME	Processing and characterization of carbon-carbon composite materials	TEQIP-III	One year	01.80
6.	Dr. S.K.S. Yadav (PI) ME	Development of portable Electro-discharge machining setup for micro-machining	TEQIP-III	One year	02.0
7.	Dr. V P Singh (PI) ME	Fabrication and experimental analysis of novel material for load bearing bio-implants.	TEQIP-III	One year	02.0
8.	Dr. V P Singh (PI) ME	Development of thermally spray bio-active glass based composite for load bearing implants (collaboration with IIT, Kanpur)	TEQIP-III	One year	01.80
9.	Mr. J. Bhaskar ME	Development of 3-D printer for soft robotics applications	TEQIP-III	One year	01.80
10.	Dr. Raghwendra Singh, NPIU faculty - Maths	Analysis of Multidimensional Nonlinear of Conservation Laws		One year	
11.	Dr. Prabhat Kumar Verma CSE	Design and Development of a walking Assistive Tool for Blinds Using Internet of Things (IOT) and Computer Vision Techniques	TEQIP-III	One year	2.00 lacs

  
 Coordinator TEQIP-III  
 Harcourt Butler Technical University  
 Kanpur-208002



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर-208002, उ०प्र०, (भारत)

**Harcourt Butler Technical University**

Nawabganj, Kanpur-208002, U.P. (INDIA)

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone: +91-0512-2534001-5, Fax : +91-0512-2533812, Website : <http://www.hbtu.ac.in> E-mail : [vc@hbtu.ac.in](mailto:vc@hbtu.ac.in)

**Start-up/innovation cell and the activities (start-up ecosystem, drive for promoting creativity, Hackthon participation etc.)**

- Yes, the University has Institution Innovation Council (ICC) registered with Start-Up and Innovation Cell of MHRD, New Delhi
- E-summit was organized during 20-21 April, 2019. The event included activities like:-
  - (a) IPL Auction
  - (b) PIVOT
  - (c) Business Quiz
  - (d) Build Your Company
  - (e) PUB-G Live
  - (f) Can You be A CEO
  - (g) Build Your Design
- One Ideation Workshop was organized on 1 September, 2018 to develop the seed of Entrepreneurship amongst the newly admitted students
- Six teams got registered for SIH 2019 and one team comprising of six students was selected as finalist in software edition of SIH 2019 held during 2-3 March, 2019



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय,  
कानपुर-02

संख्या: 792/अदम/जी0ए0/विविध/18

दिनांक: अक्टूबर 15, 2018

:: कार्यालय-ज्ञाप ::

विश्वविद्यालय में संचालित विश्व बैंक परियोजना की अपेक्षा के क्रम में विश्वविद्यालय में इंस्टीट्यूशन इनोवेशन काउन्सिल के गठन के साथ विश्वविद्यालय का पंजीयन मानव संसाधन मंत्रालय, नई दिल्ली की स्टार्टअप एण्ड इनोवेशन सेल के अधीन अधिदेश (Mendak) के साथ करने हेतु मा0 कुलपति महोदय द्वारा निम्न परिषद का गठन किया गया है :-

Sr.No.	Composition	Designation/Post	Number of Post	Proposed Names (s)
01	Senior Faculty Member of the University	President	01	Prof. Yaduvir Singh, EE
02	Faculty	Convener	01	Prof. D.Parmar, CE
03	Faculty Member	Member	01	Dr. V.K. Yadav, HSS
04	IICs Coordinator (UG Student 4 <sup>th</sup> year)	Coordinator	01	Mr. Viabhav Mudgal, CSE
05	Representative from nearby Incubation Centre	Member	01	Prof. B.V. Phani or his representative from SIIC, IIT, Kanpur
06	Representative of SIDBI/NABARD/Lead Bank/Investor or Local entrepreneur	Member	01	Manager, Central Bank of India, HBTU, Kanpur
07	Technical Experts from nearby Industry	Member	02	Sri Mukhtarul Amin, Chairman & MD, Superhouse Group, Kanpur Sh. Bhagwant Sharma, Leather Industry, Kanpur
08	Alumni Entrepreneurs from the Host Institutions (Optional)	Member	02	Mr. Apoorv Ranjan Sharma, President, Venture Catalysts, Mumbai Mr. Madhup Agarwal, National Head HR, India MART.com, Noida
09	UG Students from the host institution	Member	10	
	I Year	Member	02	Mr. Alok Dwivedi, IT Mr. Hemant Kumar Patel, IT
	II Year	Member	02	Mr. Prakhar Tiwari, PT Mr. Hardik Chauhan, M
	III Year	Member	03	Ms. Sonia Malik, CSE Mr. Vishal Gupta, ME Mr. Avinash Shukla, BE
	IV Year	Member	03	Ms. Mansi Arora, IT Ms. Simran, ET Mr. Ravindra Kumar, ME





हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर-208002, उ०प्र०, (भारत)

Harcourt Butler Technical University

Nawabganj, Kanpur-208002, U.P. (INDIA)

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone: +91-0512-2534001-5, Fax : +91-0512-2533812, Website : <http://www.hbtu.ac.in> E-mail : [vc@hbtu.ac.in](mailto:vc@hbtu.ac.in)

### Twinning Activities

No. of courses/Classes/Workshops conducted by the faculty of Institute under sub component 1.3 for students of 1.1 institute for training and academic development and vice versa

Special classes were conducted by faculty of mentor institute for students of mentee institution to share technological advancements in Big Data Analytics, Computer Networks and Cyber Security on 05 & 06 March, 2019



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**Harcourt Butler Technical University**

Nawabganj, Kanpur-208002, U.P. (INDIA)

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone: +91-0512-2534001-5, Fax: +91-0512-2533812, Website: <http://www.hbtu.ac.in> E-mail: [vc@hbtu.ac.in](mailto:vc@hbtu.ac.in)

### Twinning Activities

#### No. of courses delivered by 1.3 institution for students of 1.1. institution

Three faculty members Dr. C. Deisy, Dr. S. Muthuramalingam and Mr. M. Thangavel visited HBTU, Kanpur during 05 and 06 March, 2019 and covered part of syllabus of Computer Networks and Cyber Security for the students of Computer Science Engineering, Information Technology and MCA Department.

Prof. S. Khantavani visited HBTU, Kanpur during 05 and 06 March, 2019 and covered part of syllabus of Micro Electronics Mechanical System for the students of Electronics Department

**Details of courses held under the twinning arrangement**

S. No.	Name of the course	Name of the resource person from TCE, Madurai
1.	Big Data Analytics	Dr. C. Deisy
2.	Computer Networks	Dr. S. Muthuramalingam
3.	Cyber Security	Mr. M. Thangavel
4.	Career Guidance and Planning	Dr. S. Kanthamani
5.	Micro Electrical and Mechanical Systems	Dr. S. Kanthamani



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### Twinning Activities

No. of Training conducted for faculty/support staff of 1.1 institute by Institute under sub component 1.3 for training and academic development and vice versa

Workshop conducted by the faculty of mentor institute on the topic "Academic Development- Curriculum Design, Content Delivery and Assessment during 19.02.2018 to 23.02.2018 at HBTU, Kanpur. 40 Faculty members of HBTU, Kanpur attended the workshop.

The experts from TCE, Madurai were Dr. S J Thiruvengadam, Dr. S. Saravana Perumal, Dr. R. Rajan Prakash, Dr. D. Anitha and Ms. C. Jeyamala.

**Workshop on Academic Process for implementation of Outcome Based Education  
under Twinning Arrangement of TEQIP-III**

**Venue: Harcourt Butler Technical University, Kanpur**

**19.02.2018 to 23.02.2018**

**Resource Persons from Thiagarajar College of Engineering**

- Dr.S.J.Thiruvengadam
- Dr.S.Saravana Perumaal
- Dr.R.Rajan Prakash
- Dr.D.Anitha
- Ms. C.Jeyamala

**Count of Participants:40**

**Workshop Schedule**

Date	Session 1 : 09.30 a.m to 11.30 am	Session 2: 12 Noon to 2 p.m	Session 3: 3 p.m to 5 p.m
19.02.18	Curriculum Structure – Vision, Mission, PEOs and POs (Dr.S.J.Thiruvengadam)	Bloom's Taxonomy (Dr.S.J.Thiruvengadam)	Course Outcomes (Dr.S.Saravana Perumaal)
20.02.18	Experimental Course Design (Dr.S.J.Thiruvengadam)	Content Delivery – ADDIE Model (Dr.S.Saravana Perumaal)	Practice Session (Dr.S.J.Thiruvengadam) (Dr.S.Saravana Perumaal)
21.02.18	Assessment of Cos (Dr.R.Rajan Prakash)	Rubrics Design (Dr.R.Rajan Prakash)	Assessment of POs and PEOs (Dr.R.Rajan Prakash)
22.02.18	Active Learning Strategies (Dr.D.Anitha)	Flipped Classroom (Dr.D.Anitha)	Collaborative Learning (Ms.C.Jeyamala)
23.02.18	ICT Tools for Engineering Education (Ms.C.Jeyamala)	Demonstration of Plickers (Dr.D.Anitha) Demonstration of Learning Management Systems (Ms.C.Jeyamala)	Presentation by Participants (Dr.D.Anitha) (Ms.C.Jeyamala)



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### Twinning Activities

#### No. of Seminars/Techfest and conferences conducted by Institute under sub component 1.3 for 1.1 institute for students to share research and discuss technological advancements in dynamic industrial and business environment

- A team comprising students and faculty members of TCE, Madurai visited HBTU, Kanpur and an interaction was conducted between the students of HBTU and TCE during 05 & 06 March, 2019 to exchange the experience on Smart India Hackathon. Following incubation ideas were discussed:
  1. Earlier detection of Glucoma
  2. Autonomous drone disaster identification and alarming system
  3. Water borne disease detection in a particular location
  4. Cooperative spectrum sensing based cognitive radio to improve spectrum efficiency in VSAT network
  5. Horticulture management system
- Special classes/ lecture sessions (seminars) were conducted by faculty of mentor institute for students of HBTU, Kanpur to share the research and technological advancements relevant to dynamic industrial and business environment. They covered extensively topics like Big Data Analytics, Computer Networks and Cyber Security on 05 & 06 March, 2019. Around 80 students of CSE/ IT and MCA department of HBTU, Kanpur were benefitted.





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**Twinning Activities**

**% of Faculty pursuing collaborative research**

Number of faculty members pursuing collaborative research: 06

Total number of faculty members: 135

% of faculty members pursuing collaborative research: 4.4

### Collaborative Research proposals

S.No	Name of PI at HBTU, Kanpur	Department	Name of faculty at Mentor Institute (TCE, Madurai)	Research Area
1	Mr.Sumant kumar	ECE	Dr. N. B. Balamurugan	Tunnel Field Effect Transistor
2	Mr.Sunil Kumar	Civil	Dr. D. Brindha	High Density Concrete
3	Mr.Pankaj Upadhyay	CSE	Dr.P.Chitra	Hyper spectral Image Processing
4	Ms.Mousamai Dhara	IT	Dr.A M. Abirami	Smart Farming Techniques
5.	Dr.Saurabh Singhal	Mechanical	Dr. P. Maran	Computational Fluid Dynamics
6.	Ms.Mousamai Dhara	CSE	Dr. Shivakumar & Dr. Malini	Cloud Computing

Total No. of Faculty: 135

**Percentage of faculty involving in collaborative research – 4.4%**

CRS Projects detail

Sr. No.	P.I. details	Co-PIs details	Project Titles	Amount Sanctioned (Rs.)
1.	Dr. Raghwendra Singh, Department of Mathematics, HBTU, Kanpur (U.P.)	<p>1. Dr. Shailendra Kumar Pandey , Department of Chemical Engg. HBTU, Kanpur (U.P.)</p> <p>2. Dr. M. SirajAlam, Department of Chemical Engg. MNIT, Allahabad (U.P.)</p> <p>3. Dr. Ram Naresh, Department of Mathematics, HBTU, Kanpur (U.P.)</p>	Development and analysis of miniaturized heat transfer devices.	1863000/-
2.	Pankaj Upadhyay Computer Science & Engineering Department, HBTU, Kanpur (U.P.)	<p>1. Dr. Vandana Dixit Kaushik, Computer Science &amp; Engineering Department, HBTU, Kanpur (U.P.)</p> <p>2. Dr. P. Chitra , Computer Science &amp; Engineering Department, TCE Madurai (T.N.)</p>	Characterizing the performance of hyperspectral image processing algorithms using hybrid CPU-GPU implementation.	1190000/-
3.	Partha Saha, Assistant Professor (TEQIP), ET Department, HBTU (U.P.)	<p>1. Prof. Manoj Kumar Shukla, Professor, ET dept, HBTU (U.P.)</p> <p>2. Dr. Mrinal Sen, Assitant Professor, Dept of Electronics Engg., IIT (ISM) Dhanbad</p> <p>3. Dr. Praveen Chandra Pandey, Associate Professor, Dept of Physics, IIT (BHU) (U.P.)</p> <p>4. Dr. Shailendra Pandey, Assistant Professor (TEQIP), Chemical Department, HBTU, Kanpur (U.P.)</p>	High performance photonic crystal cavity sensor for the application of sensing gases in mines.	1580000 /-
4.	Saurabh Sangal, MED, HBTU Kanpur (U. P.)	1. Dr. Vinay Pratap singh, MED, HBTU Kanpur (U.P.)	An Investigation of Solid Particle Erosion in	1532000/-

		2. Dr.P.Maran, MED, TCE Madurai (T. N.)	Hydraulic Turbines by Using CFD	
5.	Dr. Sudhir Kumar Gupta Assistant Professor Department of Chemistry HBTU Kanpur Uttar Pradesh	1. Dr. Chhaggan Lal , Associate Professor Department of Chemistry HBTU Kanpur, Uttar Pradesh  2. Dr. Chanchal Haldar Assistant Professor Department of Applied Chemistry Indian Institute of Technology (ISM) Dhanbad, Jharkhand  3. Dr. Dinesh Kumar Assistant Professor Centre for Biomedical Research SGPGIMS, Lucknow, Uttar Pradesh  4. Dr. Pramod Kumar Goswami Assistant Professor Department of Chemistry University College of Engineering and Technology Hazaribagh, Jharkhand	Synthesis and in- vitro Application of Multifunctional Biotemplated Contrast Agents for MRI	14,90,000/-
6.	Anit Kumar, Food Technology department, HBTU Kanpur (U.P.)	1. Dr. Alak Kumar Singh, Professor, HBTU Kanpur (U.P.)  2. Dr. Ashwani Kumar Thakur, Professor, IIT Kanpur (U.P.)  3. Dr. Ashutosh Upadhyay, Professor, NIFTEM Haryana (U.P.)  4. Dr. Neeta Emanuel, NIFTEM Haryana (U.P.)  5. Dr. Vivek Kumar, HBTU Kanpur (U.P.)	Development and Characterization of Nano emulsion based sparkling wine in hard-shots pellets	1729000/-

		6. Ajit Kumar Singh, HBTU Kanpur (U.P.) 7. Ashwani Kumar, HBTU Kanpur (U.P.) 8. Sayyad Abdul, Asst. Prof., HBTU Kanpur(U.P.) 9. Akshay Kumar Singh, HBTU Kanpur (U.P.)		
7.	Ajit Kumar Singh, Asst. Prof., HBTU Kanpur (U.P.)	1. Dr. Alak Kumar Singh, Professor, HBTU Kanpur (U.P.) 2. Dr. Vasudha Sharma, Asst. Prof., Jamia Hamdard, New Delhi 3. Dr. Shantonu Roy, Asst. Prof., NIT Arunachal Pradesh 4. Dr. Vivek Kumar, Asst. Prof., HBTU Kanpur (U.P.) 5. Ajit Kumar Singh, Asst. Prof., HBTU Kanpur (U.P.) 6. Ashwani Kumar, Asst. Prof., HBTU Kanpur (U.P.) 7. Sayyad Abdul, Asst. Prof., HBTU Kanpur (U.P.) 8. Akshay Kumar Singh, HBTU Kanpur (U.P.)	Development of Synbiotic Beverage from Underutilized Indian Fruits to Alleviate Oxidative Stress and Inflammation in Gut	1896000/-
8.	Ashwani Kumar, Asst. Prof., HBTU Kanpur (U.P.)	1. Dr. Alak Kumar Singh, Professor, HBTU Kanpur (U.P.) 2. Dr. Rekha Singhal, Professor, ICT Mumbai 3. Dr. Harinder Singh, Asst. Prof., MNNIT Allahabad (U.P.) 4. Dr. Vivek Kumar, Asst. Prof., HBTU Kanpur (U.P.)	Development of Functional Fat-spreads to reduce the Risk of Cardio-Vascular Heart Disease	1803000/-

		<p>5. Ajit Kumar Singh, Asst. Prof., HBTU Kanpur (U.P.)</p> <p>6. Ashwani Kumar, Asst. Prof., HBTU Kanpur (U.P.)</p> <p>7. Sayyad Abdul, Asst. Prof., HBTU Kanpur (U.P.)</p> <p>8. Akshay Kumar Singh, HBTU Kanpur (U.P.)</p>		
9.	Dr. Mousumi Dhara, Assistant Professor (NPIU), CSE HBTU, Kanpur (U.P.)	<p>1. Dr. Prabhat Verma, Assistant Professor, CSE, HBTU, Kanpur (U.P.)</p> <p>2. Dr. Rajeev Srivastava, HOD, CSE, IIT (BHU), Varanasi (U.P.)</p> <p>3. Dr. N. Shivakumar, CSE, Assistant Professor, TCE, Madurai (T.N.)</p>	Enhancing Design Quality of Software using Graph Mining and Machine Learning Techniques	1731000/-
10.	Dr Shailendra kumar pandey, Assistant Professor Department of Chemical engineering, HBTU Kanpur Uttar Pradesh	<p>1. Dr Sanjiv Kumar gupta, Associate prof. Department of Chemical engineering HBTU, Kanpur (U.P.)</p> <p>2. Dr Anurag Srivastava Professor, ABV-IIITM, Gwalior (M.P.)</p> <p>3. Dr Ida Tiwari, Professor, Department Of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, (U.P.)</p> <p>4. Mr Partha saha, Assistant Professor Electronics engineering, Department, HBTU (U.P.)</p>	Design and Development of miniaturized low cost sensor device for metal ions.	1207000/-
11.	Dr. Anil kumar varma, Assistant Professor	1. Dr Deepak srivastava, Professor, Department of	Value addition of waste plastic for sustainable	1468000/-



	Department of Chemical engineering, HBTU Kanpur Uttar Pradesh	<p>Plastic technology HBTU, Kanpur (U.P.)</p> <p>2. Mr Ashwani Rathore, Assistant Professor, Department of Chemical engineering HBTU, Kanpur (U.P.)</p> <p>3. Dr Sadhana sachan, Professor, Department of Chemical engineering MNNIT Allahabad, Prayagraj. (U.P.)</p> <p>4. Dr Deepak Yadav, Assistant Professor, Department of Chemical engineering HBTU, Kanpur. (U.P.)</p>	development	
12.	Dr Deepak Yadav, Assistant Professor Department of Chemical engineering, HBTU Kanpur Uttar Pradesh.	<p>1. Dr Ashwini Sood, Associate prof. Department of Chemical engineering HBTU, Kanpur (U.P.)</p> <p>2. Dr Pradeep Kumar, Associate Prof, Department of Chemical engineering, IIT, BHU, Varanasi (U.P.)</p> <p>3. Dr Pradeep Singh, Assistant prof, Department of environment science, Delhi University.</p> <p>4. Dr. Anil kumar varma, Assistant Professor, Department of Chemical engineering HBTU, Kanpur(U.P.)</p>	Development of nanosized catalyst for CO-CH <sub>4</sub> oxidation at ambient conditions to improve the cold start performance in CNG fuelled vehicles	1087000/-
13.	Suman Kr. Mitra Assistant professor ET Dept. HBTU Kanpur	<p>1. Dr. Krishna Raj Professor ET Dept. HBTU Kanpur (U.P.)</p> <p>2. Dr. N. B. Balamurugan Associate Professor ECE Dept.</p>	Gate-On-Source/Channel TFETs for Label-Free Biosensing: experiment and simulation	15,60,000/-

		<p>TCE Madurai (T.N.)</p> <p>3. Dr. Rupam Goswami Assistant Professor EEE Dept. BITS Pilani, Pilani Campus (Rajasthan)</p>		
14.	<p>Mr. Manish Kumar Singh Assistant Professor ET Dept. HBTU Kanpur</p>	<p>1. Dr. A K Shankhwar , Associate Professor, ET Dept, HBTU</p> <p>2. Prof. Rajiv Prakash, SMST IIT-BHU, Varanasi</p> <p>3. Prof R K Trivedi, Dept. of Oil Technology, HBTU Kanpur</p>	<p>Development of GO dots embedded organic polymers thin film based electronic devices</p>	13,17,000/-

वित्तीय वर्ष 2018-19 में हरकोर्ट बटलर प्राविधिक विश्वविद्यालय कानपुर में  
प्राप्त रेब्यू का विवरण।

(रूपये लाख में)

1.	शासन:	रु0 2047.88
2.	शिक्षण शुल्क:	रु0 1263.80
3.	टेस्टिंग एण्ड कन्सलटेन्सी:	रु0 204.80
4.	अन्य	रु0 721.61

30/8/19

  
Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002