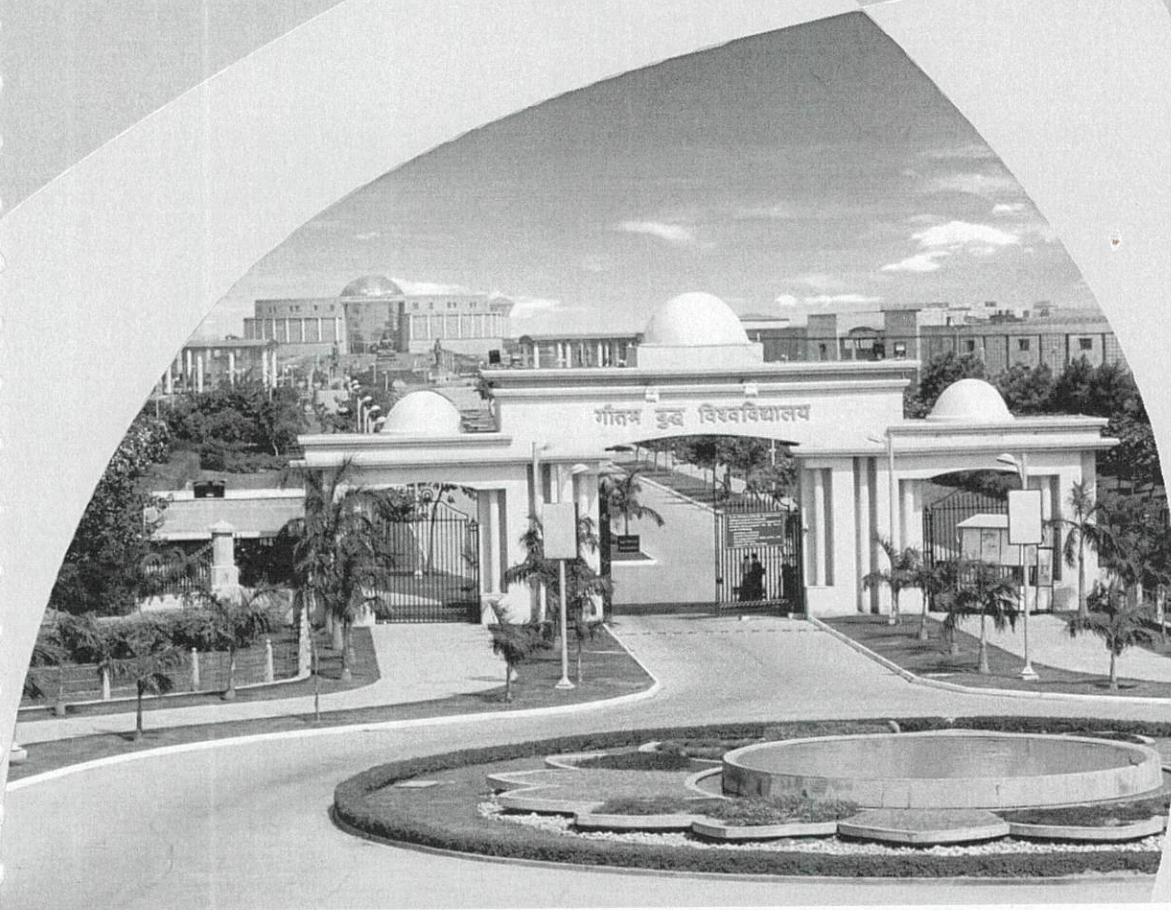


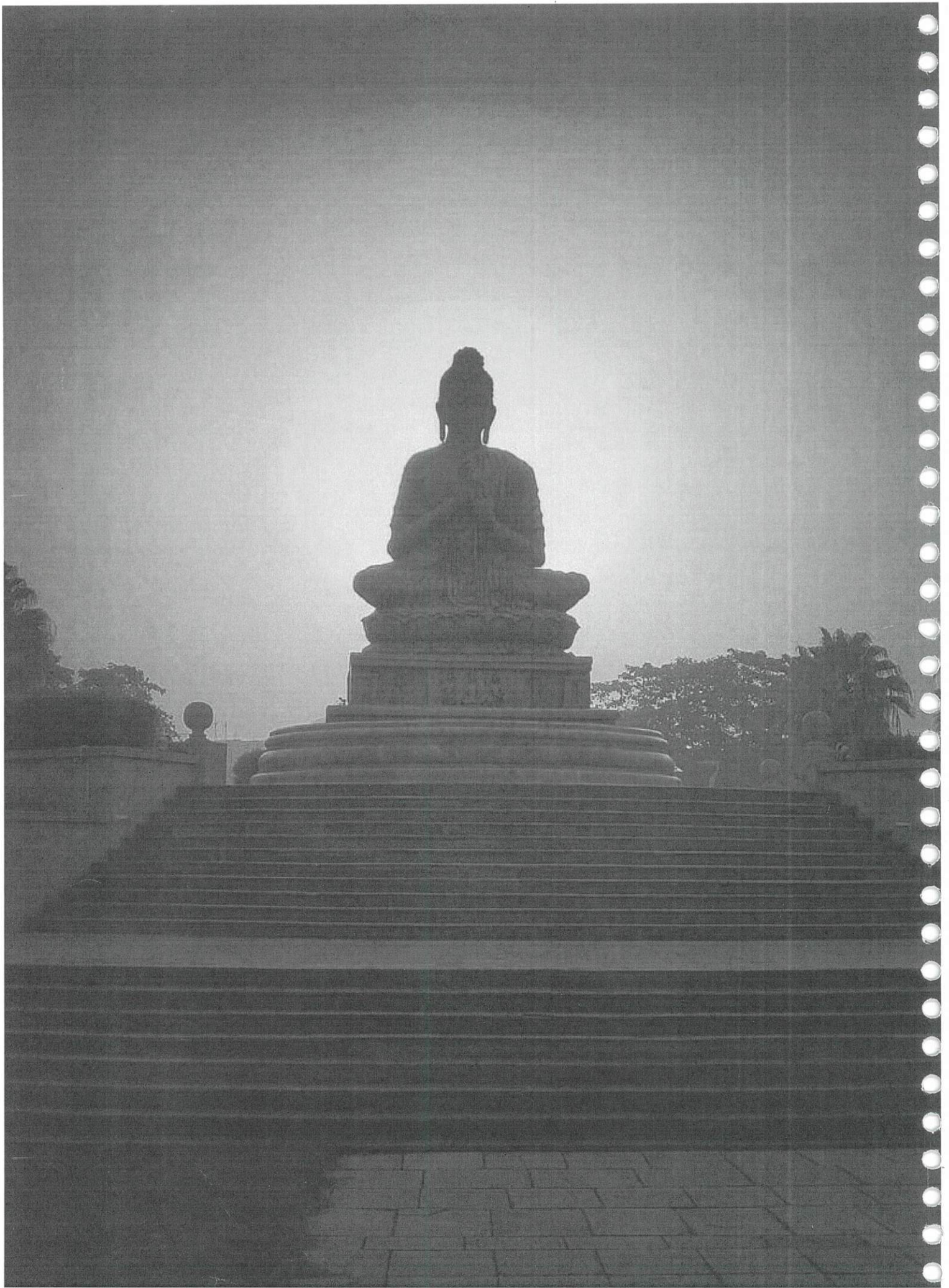
# GAUTAM BUDDHA UNIVERSITY

Established by the Uttar Pradesh Gautam Buddha University Act 2002, UP Act No. 9 of 2002

Annual Report  
2021-2022











**PROF. RAVINDRA KUMAR  
SINHA**

**Vice Chancellor**

The University has seen considerable growth in the past few years, with the introduction of new courses of study, new disciplines, and new initiatives taken for the larger benefit of students to help them grow academically and prepare them for a global society through curricular innovation and program development. In the age of globalization, Gautam Buddha University has set out to make its presence felt globally through internationalization of its various programmes and opening new avenues of association for international student community. Here, it is imperative to mention that University has adopted National Education Policy 2020 in principle and offering Undergraduate Programme of 4 years B.A./B.Sc./B.Com. (H) with multiple exitoptions. In the same line, University has introduced new programmes i.e., B.A. B.Ed./ B.Sc. B.Ed./ B.Com. B.Ed. (under ITEP), M A (Hindu Studies), & M A (Linguistics) along with weekend programmes for working professionals M. Tech. in Computer Science and Engineering, MBA (Executive), LLM, B. Tech (CE), and M. Tech (CE).

The University endeavors to employ, a variety of interventions to enhance employability of the passing out students through several skill development programmes. The overall thrust of the university is to enhance quality and innovativeness in teaching- learning and research, integrate our national ethos in teaching and make an effort to ingrain the ethics and values in the conduct and behavior of the students, passing out from this university.

The University has world class state-of-the-art infrastructure with IT facilities and well-found laboratories having advanced analytical instrumentation and computing facilities. The University promotes multi-dimensional growth with emphasis on an integrated physical and intellectual training. The Eklavya Sports Complex in the University is spread over 47 acres with indoor and outdoor stadium of global standards, equipped with state-of-the art sports facilities for almost all popular games.

The University provide qualified faculties to impart the authentic teachings of the Buddha to students who are interested to engage in learning Buddhist Studies and quality research. It provides a conducive environment, favourable for the systematic learning of the Buddha Dhamma. All such programmes related with emerging sectors and sunrise technologies in synchrony with the essence of predominant Buddhist Ethical Practices would place India in the front rank of advanced nations.



This Annual Report contains the details of the academic year i.e., 2021-2022 of the University. The compelling reasons for combining these reports owes to the following two years of lockdown, social distancing, and online operations imposed on us due to the COVID 19 pandemic and subsequent lockdowns. The resilient and collective fight put forth by the University Community has proved our mettle of unconditional commitment to our goals and attainments. We covered a long distance from new online to offline environment of operations. The world has changed and so have we, but one thing that remains unchanged is our quest for excellence. This report covers major activities and achievements during the pandemic and post pandemic period. This is an attempt to present initiatives, developments, accomplishments, and accolades, the University has earned during this year.

The report is divided into six chapters and details are as under as per the following details:

Chapter-01	Prologue and a brief Introduction of the University
Chapter-02	A brief description and development of infrastructure
Chapter-03	An Overview of the Intellectual Capital of the University
Chapter-04	Information about central admissions process
Chapter-05	Examination details
Chapter-06	Academic supports extended to the students and teachers in the smooth functioning of the University
Chapter-07	Detailed information of Departments and Schools
Chapter-08	Gives a brief note on Extra Curricular Activities
Chapter-09	Gives a brief note on finances of the University of this year

*PS: The information and data compiled here are procured from various departments and sections. We welcome and acknowledge any feedback on some unintentional gaps and printing errors.*



## Chapter-01

### General Information

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**1.1** Gautam Buddha University, established by the Uttar Pradesh Act (9) of 2002, commenced its first academic session at its 511 acres [now 454.76-acres] lush greencampus at Greater Noida in August 2008. The University is fully funded by the New Okhla Industrial Development Authority (NOIDA) and the Greater Noida Industrial Development Authority (GNIDA), the undertakings of the Government of Uttar Pradesh. The University envisions to become a world class centre for excellence in education with a special focus to serve the under privileged and economically challenged sections of the society. The campus is modelled as a fullyresidential educational campus in line with the best institutions of higher learning across the globe. The uniqueness of its reputation is acknowledged through the format, content and pedagogy of its programmes and their relevance to the society. The University is recognized by the University Grants Commission under UGC Act and is a member of the Association of Indian Universities.

#### **1.2 Vision**

“A globally acclaimed integrated academic and research institution that creates a vibrant community of intellectuals and entrepreneurs endowed with Character, Creativity, Competence and Commitment, who can inspire meaningful transformations to ensure holistic growth and development of the society.”

#### **1.3 Mission**

The Mission of University is expressed through the following goals;

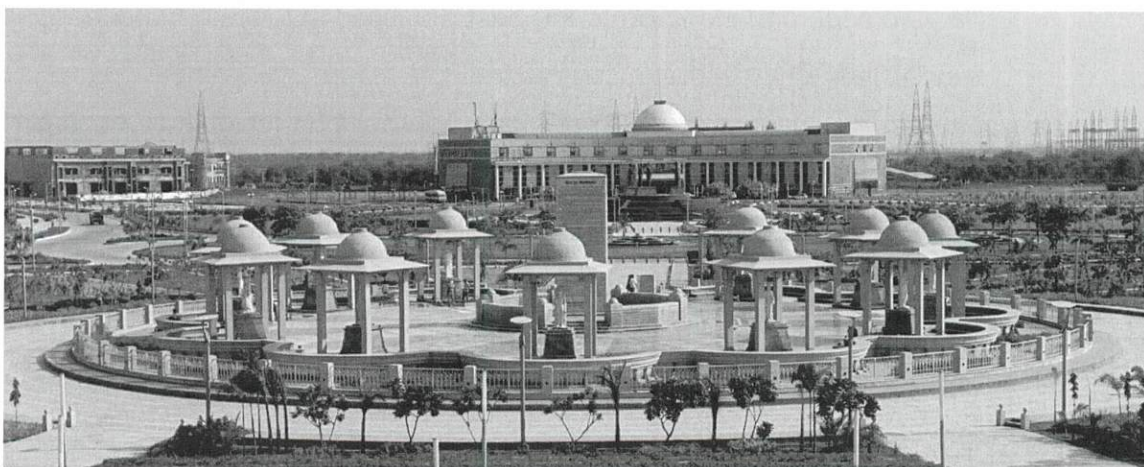
- To generate a community of scholars who can manage continuity and change.
- To seek and incorporate the best practices in teaching and learning from around the world.
- To inculcate in the learner's due appreciation for ethical, ecological and economic issues of knowledge.
- To provide knowledge based scientific solutions to satisfy the need of society and industry.
- To ensure an academic environment that guarantees avenues for all historically excluded sections of the society.



## 1.4 Recognition, Affiliations, Memberships, and Certifications

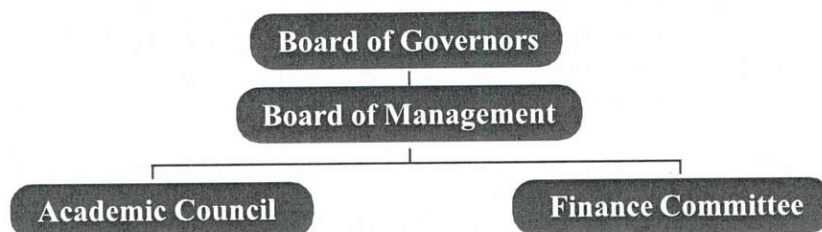
The academic programmes offered by the University have been recognized by the UGC and by various Statutory Councils, whichever are applicable in individual cases. The academic programmes offered by the University are recognized by the University Grants Commission of India and various other Statutory Bodies, Councils, whichever are applicable in individual cases.

- **Recognized by University Grants Commission of India (UGC):** F.9-18/2009 (CRP-I) dated 13th May 2009 and F.No. 9-18/2009 (CPP-I/PU) dated 17th Feb., 2018 under section 2(f) & 12(B) of UGC Act 1956.
- **Member of the Association of Indian Universities** [Meet/84-AM/2009/ 289139-73.]
- **Council of Architecture (CoA), India**
- **National Council for Teacher Education, India (NCTE):** B.Ed. Programme accredited by NCTE.
- **Rehabilitation Council of India:** M.Phil. Clinical Psychology
- **Bar Council of India (BCI):** BA. LL.B. programme accredited by Bar Council of India.
- **National Accreditation and Assessment Council [NAAC]** Accreditation
- **ISO 9001: 2008** Quality Certified





## 1.5 Gautam Buddha University Governing Bodies



### 1.5.1 Board of Governors

<b>Prof. Ravindra Kumar Sinha</b> Vice Chancellor Gautam Buddha University, Greater Noida	Chairman
<b>Prof. Dinesh Kumar</b> Hon'ble Vice-Chancellor Gurugram University, (Haryana)	Member
<b>Prof. Pradeep Singh Chauhan</b> Center of Economics Studies and planning Jawaharlal Nehru University, Delhi.	Member
<b>Prof. Ram Chandra Singh</b> Department of Mechanical Engineering Delhi Technological University, Delhi.	Member
<b>Prof. Raj Kumar Mittal</b> Hon'ble Vice Chancellor Chaudhary Banshi Lal University, Bhiwani, Haryana	Member
<b>Prof. N.P. Melkania (Retd.)</b> Dean, Academics Dean, School of VS&AS and SOBT Gautam Buddha University, Greater Noida	Member
<b>Dr. Indu Uprety</b> Dean (I/C), Planning & Research Gautam Buddha University, Greater Noida	Member
<b>Prof. Bandana Pandey</b> Dean, School of Humanities and Social Sciences Gautam Buddha University, Greater Noida	Member
<b>Prof. Shweta Anand</b> Dean, School of Buddhist Studies & Civilization Gautam Buddha University, Greater Noida	Member
<b>Prof. Sanjay Kumar Sharma</b> Dean, School of Information & Communication Technology Gautam Buddha University, Greater Noida	Member
<b>Dr. Indu Uprety</b> Dean (I/C), School of Management Gautam Buddha University, Greater Noida	Member
<b>Dr. Krishna Kant Dwivedi</b> Dean (I/C), School of Law Justice and Governance Gautam Buddha University, Greater Noida	Member
<b>Dr. Kirti Pal</b> Dean (I/C), School of Engineering Gautam Buddha University, Greater Noida	Member
<b>Dr. Vishwas Tripathi</b> Registrar Gautam Buddha University, Greater Noida	Secretary



## 1.5.2 Board of Management

Ten

<b>(A) Vice Chancellor</b> Gautam Buddha University, Greater Noida	Chairman
<b>(B) Technical Education Nominee</b> <i>Prof. Vivek Kumar</i> <i>115 Dec</i>	Member
<b>(C) Education Society Nominee</b> <b>1. Prof. Shailendra Singh Gaurav</b> Dean Faculty of Agriculture Prof. and Ex Head Department of Plants & Genetics Breeding Chaudhary Charan Singh University, Meerut- 250001 (Uttar Pradesh)	Member
<b>2. Prof. S.K. Khare</b> Dean R&D & Institute Chair Professor of Biochemistry Enzyme and Microbial Biochemistry Lab Department of Chemistry Indian Institute of Technology, Delhi, New Delhi - 110016	Member
<b>3. Prof. Santosh Kumar</b> Department of Geology Centre of Advanced Study Kumaun University, Nainital (Uttarakhand)	Member
<b>(D) Deans (Coordinating)</b> <b>1. Prof. N.P. Melkania (Retd.)</b> Dean, Academics, Gautam Buddha University	Member
<b>2. Dr. Indu Uprety</b> Dean (I/C), Planning & Research Gautam Buddha University, Greater Noida	Member
<b>3. Dr. Manmohan Singh Sisodia</b> Incharge Student Affairs Gautam Buddha University	Member
<b>(E) School's Deans</b> <b>1. Prof. N.P. Melkania (Retd.)</b> Dean, SOVS&AS and SOBT Gautam Buddha University, Greater Noida	Member
<b>2. Prof. Bandana Pandey</b> Dean, School of Humanities & Social Sciences Gautam Buddha University	Member
<b>3. Prof. Shweta Anand</b> Dean, School of Buddhist Studies & Civilization Gautam Buddha University	Member
<b>4. Prof. Sanjay Kumar Sharma</b> Dean, School of Information & Communication Technology Gautam Buddha University, Greater Noida	Member
<b>5. Dr. Indu Uprety</b> Dean (I/C), School of Management Gautam Buddha University, Greater Noida	Member
<b>6. Dr. Krishna Kant Dwivedi</b> Dean (I/C), School of Law Justice and Governance Gautam Buddha University, Greater Noida	Member
<b>7. Dr. Kirti Pal</b> Dean (I/C), School of Engineering Gautam Buddha University, Greater Noida	Member
<b>Secretary</b> Industry Development Department, U.P. Govt.	Member
<b>Dr. Vishwas Tripathi</b> <b>Registrar</b> Gautam Buddha University, Greater Noida	Secretary



### 1.5.3 Board of Governors

<b>1. Chief Secretary</b> U.P. Government	Chairman
<b>2. Vice Chancellor</b> Gautam Buddha University	Member Secretary
<b>Education Society Nominee</b> <b>3. Prof. Jaimala Bishnoi</b> Professor & Head, Department of Mathematics, Chaudhary Charan Singh University, Meerut-250001 (Uttar Pradesh)	Member
<b>4. Prof. H.D. Charan</b> Vice Chancellor, Bikaner Technical University, University College of Engineering & Technology, Bikaner - 334004 (Rajasthan)	Member
<b>5. Prof. Shyam Bihari Lal</b> Professor and Head, Department of Ancient History & Culture and Archeological, Mahatma Jyotiba Phule Rohilkhand University, Bareilly 243006, (U.P) India.	Member
<b>6. Secretary</b> Industry Development Department U.P. Govt.	Member
<b>7. UGC Nominee</b>	Member
<b>8. Technical Education Nominee</b>	Member



## Chapter-02

### Infrastructure and Support Facilities

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2.1 Gautam Buddha University has an integrated lush green residential campus at Greater Noida. The campus is an architectural marvel and has the following infrastructural facilities:

- 30% green area with total built up campus area of 55 lacs sq. fts.
- Central Library with total built up area of 1.8 lacs sq. fts. with 2000 seating capacity,
- Central Auditorium with 2700 seating capacity,
- An Administrative Building and Eight School Buildings,
- Mahatma Jyoti Ba Phule Vipassana Dhyaan Kendra,
- Eklavya Sports Complex with Indoor and Outdoor Stadium,
- Open Air Theatre,
- Mahamaya Shanti Sarowar, a water body spread over 1Lac sq. ft. area,
- Panchsheel Avasiya Parisar for Faculty and Staff Members,
- Separate Transit Hostel for 156 Married Research Scholars,
- 18 Hostels with single occupancy for 5000 students,
  1. Savitri Bai Phule Girl's Hostel,
  2. Rama Bai Ambedkar Girl's Hostel,
  3. Mahamaya Girl's Hostel
  4. Rani Laxmibai Girl's Hostel
  5. Mahadevi Verma Girl's Hostel
  6. Ismat Chughtai Girl's Hostel
  7. Chhatrapati Shahuji Maharaj Boy's Hostel,
  8. Shri Narayan Guru Boy's Hostel,
  9. Sant Ravi Das Boy's Hostel,
  10. Sant Kabir Das Boy's Hostel,
  11. Birsa Munda Boy's Hostel,



12. Guru Ghasi Das Boy's Hostel,
  13. Malik Mohd Jaysi Boy's Hostel
  14. Rahim Boy's Hostel
  15. Tulsi Das Boy's Hostel
  16. Munshi Premchand Boy's Hostel
  17. Ram Sharan Das Boy's Hostel
  18. Balmiki Boy's Hostel
- A Convention Centre and Well-furnished University Guest House,
  - Shopping Complex and Utility Centres (Bank, Post Office, Dispensary, Clinical Psychology OPD, Mother Dairy etc.),
  - Faculty Club, and many other support facilities.

The following section describes in brief some of the significant infrastructure facilities in the campus. The details may not be exhaustive; however, it gives a fairly good idea about the salient features of these facilities.

## 2.2 Mahatma Jyotiba Phule Meditation Centre

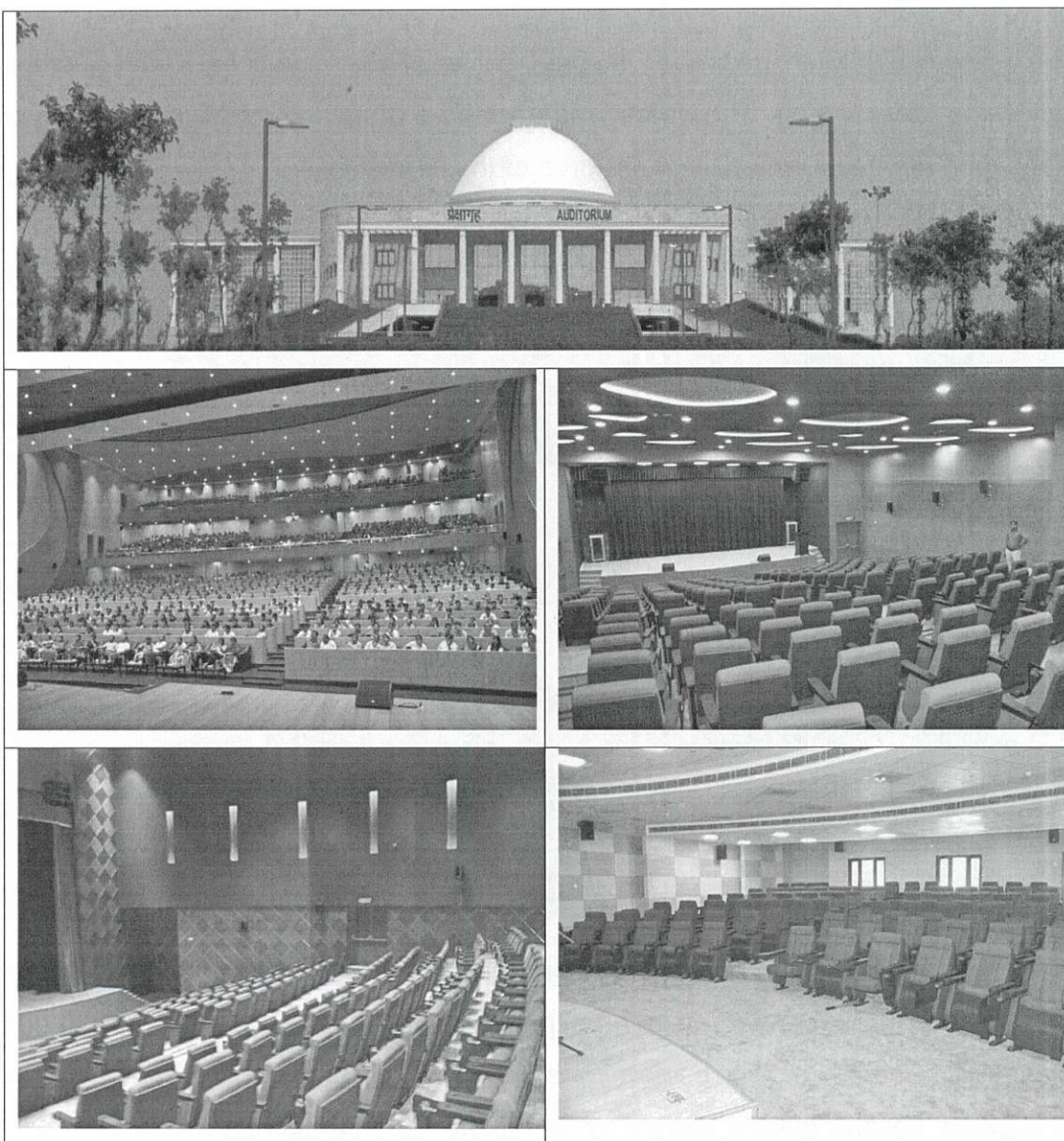


Mahatma Jyotiba Phule Meditation Centre, inspired by stupa architecture is a learning and retreat centre to give an experience of the power of peace and inner silence. The centre organizes seminars, lectures and experiential workshops in meditation, positive values, stress free living and self-management. It aims to help the residents at campus in recognizing their own inherent qualities and recollect their inner most potential. The meditation centre facilitates the experience of the

inner self through silence.

### 2.3 Central Auditorium

Apart from four auditorium located in the school buildings with approximately 300 seating capacities each, the state-of-the-art Central Auditorium with a capacity of 2700 is equipped with all kind of advanced audio-video systems. There are five halls out of which the central hall that has 1900 seating capacity. Apart from the main auditorium hall, this building houses three mid-size conference rooms, committee rooms, elaborate corridors, and multipurpose open areas. The auditorium building was made operational in April 2015. Since then this facility is available for the academic as well as extracurricular activities at the University campus.





## **2.4 International Convention Centre**

The convention centre of the university is a true global platform for intellectual exchanges. The centre hosts a number of programmes, activities, and engagements. An impeccable infrastructure keeps it ahead of the best available in the class. The centrally air-conditioned building has state of the art convention centre conference halls, committee rooms, more than 40 rooms and suits and a huge central hall.

## **2.5 University Guest House**

In addition to International Convention Centre and Guest House, the University Guest House situated adjacent to the building houses 100 well furnished rooms with huge open area and a lush green lawn at the centre of the building.

## **2.6 Students' Accommodation and Hostel Facilities**

The University is a fully residential campus, which has separate hostel accommodations for boys and girls with 5000 single seated hostel accommodation rooms and complete wi-fi premises. These hostel complexes have state of the art facilities. To enable the students to spend quality time in the University, each hostel is equipped with a common room, T.V. Room, Table Tennis Room, Reading Room, Internet Room, Indoor Games Room, Gymnasium, Badminton Courts and Basketball Court. Each room in the hostel is equipped with an internet connection. In addition to this each hostel houses a medical room and a visitors' room. All the hostels are supported by the solar system which helps in the supply of hot water in winters.

## **2.7 Married Research Scholars' Hostel (MRSH)**

Apart from the hostels for students on campus, the University has a separate complex of 1 BHK apartment to accommodate 156 married research scholars enrolled in various full-time Doctoral Degree Programmes of the University which is popularly known as MRSH. This complex has 78 units already functional and occupied. Fee and other charges for MRSH are applicable as per the University policy in effect.

## **2.8 Panchsheel Awasiya Parisar: Residence Complexes**

The University is a fully residential campus and provides accommodation facility to all faculty members and staffs working with the University. In addition to the

Vice-Chancellor's Bungalow, the University has provision for five types of quarters; type II & III for support staffs and type IV, V, & VI for faculty members and senior administrative officials of the University. There are six blocks of housing complexes. All the houses are equipped with the facilities of power backup, hot & cold running water, intercom & internet services, fire alarm services, and block specific parks and gardens.

## 2.9 Sports Facilities

The university promotes multi-dimensional growth with emphasis on an integrated physical and intellectual training. The Eklavya Sports Complex spread over approx. 47 acres with indoor and outdoor stadium of global standards, equipped with state-of-the-art sports facilities is getting ready in this academic session to shape health and sports aspirations of the students. It has an Olympic size swimming pool with an additional practice track and a world class gymnasium. Facilities that comprise of games, functions and sports facilities are given as under:

### a. Outdoor Sports

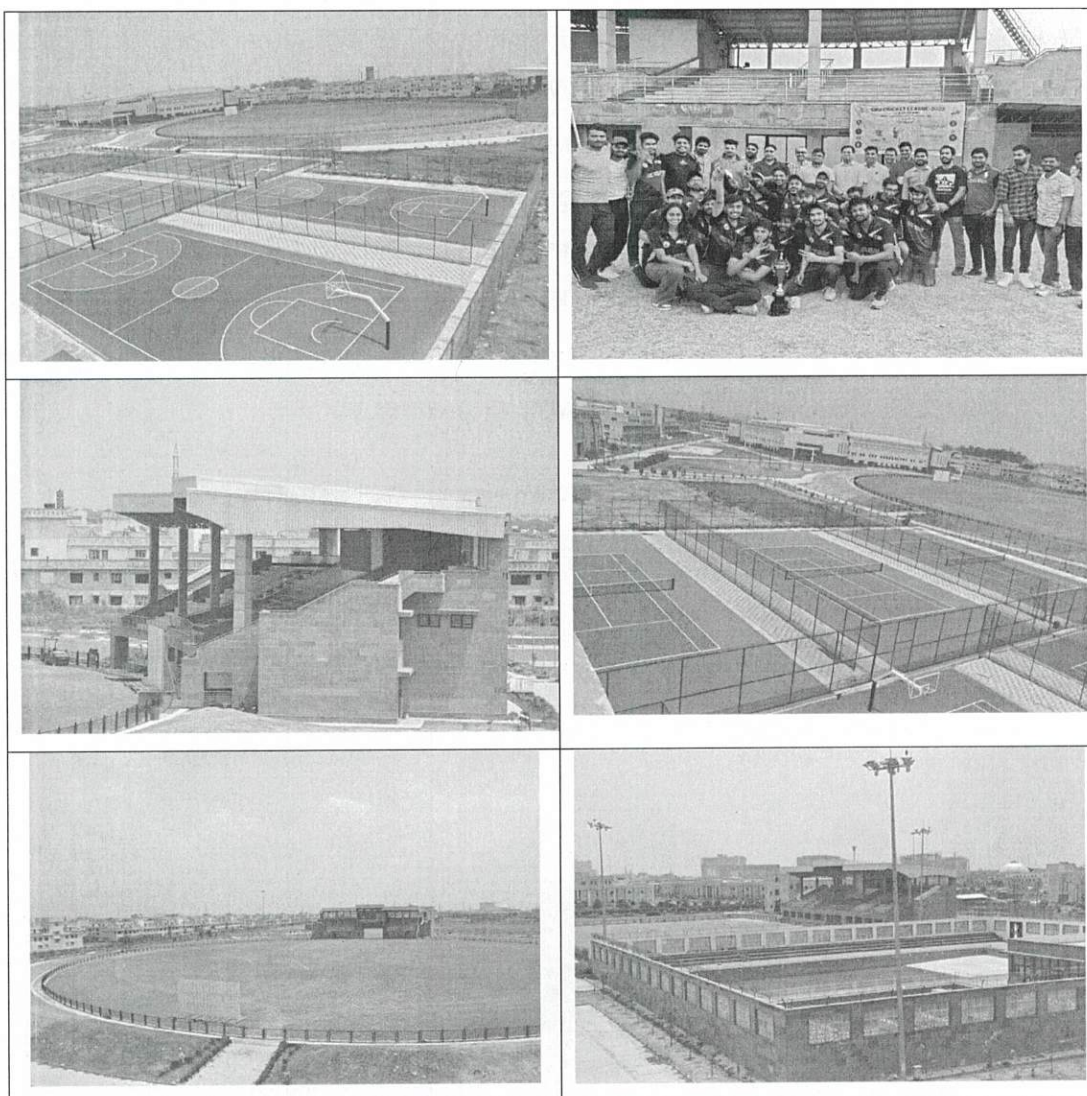
1. Cricket stadium with 650 sitting capacity Pavilion.
2. Hockey Astro-turf stadium with 650 sitting capacity Pavilion.
3. Synthetic Athletic Cum Soccer stadium with 650 sitting capacity Pavilion.
4. Practice Arena for Athletic and Soccer
5. Swimming (25 X 50 Meter) with Spectators Arena.
6. Diving Pool with Spectators Arena
7. Synthetic Basketball Arena with flood light facility.
8. Synthetic Volleyball Arena with flood light facility.
9. Synthetic Tennis Arena with flood light facility.
10. Cricket Practice Pitches.

### b. Indoor Sports

1. Table Tennis
2. Badminton
3. Squash



4. Gymnasium
5. Wrestling
6. Billiards & Snooker
7. Weight Lifting
8. Boxing
9. Basketball
10. Volleyball
11. Tennis



## 2.10 Faculty Club

Apart from the central sports facilities in its sports complex and local facilities available in the hostel premises, the University has also a Faculty Club designated for faculty members of the University. The faculty club is equipped with the facilities viz. Badminton, Table Tennis, Billiards and Snooker, Squash, Gym, Swimming Pool, Yoga and other recreational and

other sports activities.

### 2.11 An Environment Friendly Clean and Green Campus

Global warming is a global issue that requires global response. With emphasis on environment and ecological equilibrium, the University has developed a green area in approx. 127 acres in which more than 50,000 trees are already planted. As it is believed, trees are of continued importance to the environment for their emotive power and their importance to other forms of life, the horticulture plan and

plantation drive of the University attribute mainly to the ecological aspects, such as Soil Erosion, Wind Filtration, Temperature Control, Green Atmosphere, and Retention of Water Level. The external fencing of the University is marked with hundreds of Bodhi Trees that bear immense significance in Buddhist Civilization and harmony. The Bodhi Tree strip runs uninterrupted on the entire circumference of the external campus fencing, parallel to the green belt with all kinds of flora and fauna. Apart from these green strips, a beautiful and rich green landscaping has come along with buildings, walking track, huge lawns, and water bodies.

### 2.12 3200-kilowatt Capacity Roof Top Solar Energy Plant

A 3200-kilowatt Capacity Roof Top Solar Energy Plant started operating since 2015 on the campus.





## Chapter-03

### Intellectual Capital

#### 3.1 Intellectual Capital

With a major thrust placed on research, innovation and training; the University has been working towards achieving its objectives as enshrined in its Vision and Mission. All the eight Schools of the University work in perfect harmony to accomplish the objectives of attaining excellence in education and training. These Schools of Studies offer programmes in various disciplines such as, Management and Decision Sciences, Vocational and Applied Sciences, Engineering and Technology, Information and Communication Technology, Biotechnology, Humanities and Social Sciences, Buddhist Studies, Law and Governance, etc. The mission of the University is accomplished by its skilled and trained faculty members, drawn from national and international institutions of repute. The University has been thriving on its intellectual resources and has produced quality Research Theses, Research Articles, Text Books, Reference Books, Reviews, etc. The University got over hundred academic publications to its credit across all areas of studies during the academic year 2021-22. Adding on it, the University produced fifty-two (52) Doctoral Theses. The University has been administering a number of Sponsored Research Projects funded by various funding agencies of Govt. of India. The details of research publications, Sponsored Projects, and Doctoral Theses are given in the following sections. The major academic publications by the University during the academic year 2021-2022 is given below.

#### 3.2 Ph. D. Awarded during 2021-2022

S.N.	Candidate & (Category)	Supervisor/ Co-supervisor	Title of Ph.D. Thesis	Date of Viva-Voce
1	Ankita Awasthi (Full Time)	Dr. Rekha Puria	Studies on role of Target of Rapamycin (TOR) signaling in cell growth	18.02.2021
2	Praveen Kumar (Working Professional)	Dr. Satpal Sharma	Effect of Friction Stir Welding Parameters on the Formability of Dissimilar Aluminum Tailor Welded Blanks	29.01.2021
3	Niraj Agrawal (Full Time)	Dr. Rajesh Mishra	Design of Multiband/Multiple Polarized Planar Antenna for Automotive Applications	27.02.2021
4	Jogendra Singh Nim		Transcriptional and functional Characterization of novel identified	

	(Full Time)	Dr. Jitendra Singh Rathore	putative mazEF Toxin-Antitoxin module(s) from <i>Xenorhabdus nematophila</i> .	19.03.2021
5	Anshul Ujlayan (Working Professional)	Dr. Manisha Sharma	A Study of Recruitment process Analytics in Indian IT Industry	22.03.2021
6	Mohit Arya (Full Time)	Dr. Amit Ujlayan	Modified Iterative Schemes for Solving Functional Differential Equations	04.03.2021
7	Jeik Hyun (Full Time)	Dr. Indu Girish	The Concept of the Buddha: A Comparative Study based on the Lotus Sutra and Korean Won-Buddhism	27.03.2021
8	Poonam Bhartiya (Full Time)	Dr. Anand Singh	Rahul Sankritayan: Exploration of his life as a Wanderer and literary Ideologue.	08.03.2021
9	Chetna Mishra (Working Professional)	Dr. Vivek Kumar Mishra	Pakistan Policy towards Extremism During Musharraf Regime	12.06.2021
10	Ankit Gupta (Full time)	Dr. Nidhi Singh Pal Dr. Yogesh Kumar Chauhan	Performance investigation of Enhanced Isolated Multi- Source Power Generation System	10.05.2021
11	Rajni Yadav (Full Time)	Prof. Shweta Anand	Influence of Operational and Financial Performance of MFIs on Financial Inclusion in India	23.06.2021
12	Ajay Yadav (Working Professional)	Dr. Rakesh Kumar Srivastava	Volatility Spillover Effect and Regime Switch: A Study of NSE and Selected International Stock Market	10.05.2021
13	Ajit Kumar Singh (Working Professional)	Dr. Subhojit Banerjee	Customer Values, Involvement and Information Processing in Context of Personal Computer Purchases in Rural Uttar Pradesh	12.06.2021
14	Ajay Kumar (Working Professional)	Dr. Vivek Kumar Shukla	Studies on the Radiation Stability of A2B2O7 Types Pyrochlore Under Ion Irradiation	07.05.2021
15	Reena Nupur (Full Time)	Dr. Sushil Kumar	Performance Evaluation and Continual Improvement of Quality in Apparel Industry Using Six Sigma and Process Capability Analysis Approach: An Empirical Study	30.06.2021



16	Sangeeta (Full Time)	Dr. Bhawna Joshi	Studies on Bioresource Derived Activated Carbon and its Composite with Conducting Polymers for Supercapacitors Applications	26.07.2021
17	Manoj Kumar (Working Professional)	Dr. Rajesh Kumar Gupta Dr. Raj Kumar	Biochemical and Clinico-Immunologic Characterization of Allergic Proteins of Periplaneta Americana in Asthma Patients	19.07.2021
18	Shilpi Gadi (Working Professional)	Dr. Anurag Singh Baghel	Mitigating Effects of Channel Impairments (Fading) in Wireless Comm-Systems	14.08.2021
19	Sushil Kumar (Working Professional)	Dr. Satpal Sharma	Synthesis and Characterization of High Entropy Nano Composites	02.02.2021
20	Anuj Gupta (Full Time)	Dr. H. C Thakur	Analysing Improvements in Energy Reduction Towards Green Building	16.07.2021
21	Nitin Kumar (Working Professional)	Dr. Bhawna Joshi	Transparent Conducting Properties of SnO <sub>2</sub> and Zn <sub>2</sub> SnO <sub>4</sub> Thin Films: Synthesis, Characterization and Ion Beam Effects	05.10.2021
22	Tran Thi Dieu Huong (Full Time)	Dr. Indu Girish	An Analysis of Buddhist Educational Psychology as depicted in the Trimsikā-Kārikā of Vasubandhu	09.01.2021
23	Ajay Satija (Working Professional)	Dr. Dipti Singh Dr. Athar Hussain	Optimization of Municipal Solid Waste for Metropolitan Cities of National Capital Region, India	06.10.2021
24	Sakshi Arora (Full Time)	Dr. Bhupendra Chaudhary	Functional analysis of MicroRNA167 by developing target Mimic Transgenic Lines of Tobacco and Cotton	03.12.2021
25	Shruti Aurora (Working Professional)	Dr. Rakesh Kumar Srivastava	Determinants of Bond Yield in the Indian Corporate Bond Market	03.12.2021
26	Bhupendra Singh (Working Professional)	Dr. Rajesh Mishra	Performance Enhancement in Communication Based High Speed Train Control System	27.02.2021
27	Chandan Kumar (Full Time)	Dr. Arvind Kumar Singh	Gandhara: A Gateway of Buddhism to the World	14.08.2021
28	Mohammad Saleem (Working Professional)	Dr. Shobha Ram	Aquifer Modeling for Rain Water Harvesting in Greater Noida Region (U.P.) India	21.08.2021
29	Phan Anh Duoc	Dr. Gurmet Dorjey	Evolution and Development of Concept of Nirvana in Buddhism:	11.08.2021

	(Full Time)		An Investigation	
30	Muzaffar Ahmad Mir (Working Professional)	Dr. Shobha Ram Dr. Athar Hussain	Efficiency Enhancement of Biogas Generation in Anaerobic Digestion	29.09.2021
31	Nagabhushana K (Full Time)	Dr. Gyanaditya Shakya	Buddhism in Karnatka (Since 12 <sup>th</sup> Century till 21 <sup>st</sup> Century):An Analytical Study	11.09.2021
32	Ajay Dixit (Working Professional)	Dr. Amit Ujlayan	Modified Conformable Fractional Derivative and It's Applications	13.02.2021
33	Kavita Verma (Full Time)	Dr. Shobha Ram	Durability of Cement Mortar in Aggressive Environment	21.10.2021
34	Neeti Saxena (Full Time)	Dr. Lovy Sarikwal	Entrepreneurial Competency and Sustainable Organization: Exploring the Role of Cognitive and Non Cognitive Skills.	26.03.2021
35	Dimpal Tomar (Full Time)	Dr. Pradeep Tomar	Development of Sustainable Machine Learning Model to Improve the performance of IoT Based Smart Home Environment	10.12.2021
36	Rajnish Singh (Working Professional)	Dr. Neeta Singh	Performance Evaluation of Improved TCP Protocol in Mobile Ad-Hoc Networks	20.12.2021
37	Ruchi Saraswat (Working Professional)	Dr. Shilpa Pal	Vulnerability Studies in parts of Upper Bhagirathi Valley, Garhwal Himalaya with particular Focus on Disaster Risk Reduction	12.11.2021
38	Pannyavara (Full Time)	Dr. Priyadarsini Mitra	Chadhatu Vipassana: An Analysis of its Impact on Buddhist Practitioners of Myanmar	22/03/2022
28	Mohammad Saleem (Working Professional)	Dr. Shobha Ram	Aquifer Modeling for Rain Water Harvesting in Greater Noida Region (U.P.) India	21.08.2021
29	Phan Anh Duoc (Full Time)	Dr. Gurmet Dorje	Evolution and Development of Concept of Nirvana in Buddhism: An Investigation	11.08.2021
30	Muzaffar Ahmad Mir (Working Professional)	Dr. Shobha Ram Dr. Athar Hussain	Efficiency Enhancement of Biogas Generation in Anaerobic Digestion	29.09.2021
31	Nagabhushana K (Full Time)	Dr. Gyanaditya Shakya	Buddhism in Karnatka (Since 12 <sup>th</sup> Century till 21 <sup>st</sup> Century):An Analytical Study	11.09.2021
32	Ajay Dixit (Working Professional)	Dr. Amit Ujlayan	Modified Conformable Fractional Derivative and It's Applications	13.02.2021
33	Kavita Verma (Full Time)	Dr. Shobha Ram	Durability of Cement Mortar in Aggressive Environment	21.10.2021
34	Neeti Saxena (Full Time)	Dr. Lovy Sarikwal	Entrepreneurial Competency and Sustainable Organization: Exploring the Role of Cognitive and Non-	26.03.2021



			Cognitive Skills.	
35	Dimpal Tomar (Full Time)	Dr. Pradeep Tomar	Development of Sustainable Machine Learning Model to Improve the performance of IoT Based Smart Home Environment	10.12.2021
36	Rajnesh Singh (Working Professional)	Dr. Neeta Singh	Performance Evaluation of Improved TCP Protocol in Mobile Ad-Hoc Networks	20.12.2021
37	Ruchi Saraswat (Working Professional)	Dr. Shilpa Pal	Vulnerability Studies in parts of Upper Bhagirathi Valley, Garhwal Himalaya with particular Focus on Disaster Risk Reduction	12.11.2021
38	Pannyavara (Full Time)	Dr. Priyadarsini Mitra	Chadhatu Vipassana: An Analysis of its Impact on Buddhist Practitioners of Myanmar	22/03/2022
39	Pratima (Working Professional)	Dr. Manmohan Singh Shishodia	Surface Plasmon Enhanced Molecular Energy Transfer in Single and Coupled Nanoparticles	26/04/2022
40	Divya Singh (Full Time)	Dr. Varsha Dixit	The Impact of Organizational Justice on Organizational Cynicism and Employee Turnover Intentions: The Role of Job Embeddedness	12/03/2022
41	Kushi Sharma (Full Time)	Dr. Neeti Rana	Role of Trainee Reaction and Transfer of Training-on-Training Effectiveness in Software Companies in India	12/03/2022
42	Vartika Sharma (Full Time)	Dr. Rajesh Mishra	Some Aspects of Reliability Evaluation of Complex Communication Networks	09/03/2022
43	Manoj Sharma (Working Professional)	Dr. Neeta Singh	Design and Development of Microstrip Antennas for Future Wireless Applications	12/03/2022
44	Akshaya Saroha (Full Time)	Dr. Akshay Kumar Singh	India's Engagement with Afghanistan: Regional Dynamics and Strategic Imperatives	07/01/2022
45	Mohd. Altmash Sheikh (Working Professional)	Dr. Neeta Singh	Quality of Service and Mobility Extension of NEMO Protocol for On-board Applications using LEO Satellite Constellation	08/01/2022
46	Mukesh Kumar Garg (Working Professional)	Dr. Neeta Singh	Application of Soft Computing Techniques for Design & Analysis of Trust Based Routing Protocol for Mobile Ad Hoc Networks (MANETs)	28/04/2022
47	Sanjeev Saxena (Working Professional)	Dr. Mausumi Pohit	Metaheuristic Algorithms for Image Registration and Related Applications	08/03/2022
48	Manjeet Singh (Working Professional)	Dr. Ashish Kumar Keshari	Studies on Structural and Optical Properties of Doped ZnO Semiconductor Nanocrystals	11/03/2022
49	Shashank Kumar Yadav (Working Professional)	Dr. Bhupendra Chaudhary Dr. Viswanathan	Functional validation of ABA (Abscissic Acid) receptor (s) in rice	19/05/2022

		Chinnusamy		
50	Krishan Kumar Sharma (Working Professional)	Dr. Vikas Panwar	Application of Generalized Fibonacci Sequences and their Properties	12/03/2022
51	Abha Kumari (Full Time)	Dr. C.B. Vishwakarma	Order Reduction of Linear Dynamic Systems for Controller Design	12/03/2022
52	Shailesh Kumar Gupta (Working Professional)	Dr. Omveer Singh	Pulse width Modulation Techniques for dual two-level n-phase inverter system	31/05/2022

### 3.3 List of some of the Sponsored Research Projects

The University has been administering the Sponsored Research Projects funded by different agencies of Govt. of India. The details of Sponsored Projects are given in the following section.

Research Projects Completed/Approved in Academic Session 2021-22							
S. No.	Name of the Scheme/Project	Name of the Principal Investigator/ Co Investigator	School/ Department	Name of the Funding Agency	Year of Award	Duration of the Project (Years)	Status
1	To decipher the role of genome encoded type II Toxin-Antitoxin (TA) module(s) from <i>Pseudomonas aeruginosa</i> in antibiotic resistance and persister cell formation	Dr. Jitendra Singh Rathore	SOBT/BT	ICMR	2022	3	Approved and Work in Process
2	EV charging management and battery monitoring system based on IoT. (PID 1636)	Dr. Kirti Pal	SOE /EE	CST (Council of Science & Technology)	2022	3	Approved and Work in Process



## 3.4 Academic Collaborations and MOUs [2021-2022]

S. No.	MOU Signed date	Initial Validity (yr)	Institution	Objective
1.	15 <sup>th</sup> July, 2021	03	<b>Ecotech Instruments</b> , K-127, UPSIDC Industrial Area, Site-V, Kasna, Greater Noida, UP	To promote academic, R&D and placement activities in environmental studies
2.	2 <sup>nd</sup> August, 2021	05	<b>Bakson Homoeopathic Medical College and Hospital</b> , Greater Noida, UP-201 308	MoU related to Collaboration Research Projects, exchange of Technical, Clinical Training of the students & participation in CME/Conferences/Workshops as Resource persons.
3.	10 <sup>th</sup> March, 2022	03	<b>ICAR-Central Agroforestry Research Institute (CAFRI)</b> (Mini of Agriculture and Farmers Welfare, GoI) Pahuj Dam, Gwalior Road Jhasi)Uttar Pradesh) Contact Relation: Dr. A. Arunachalam, Director	Recognizing CAFRI as one of the research centers of GBU of collaborate for research, education, training, capacity building, experience sharing and knowledge management in the domain of integrated agro-ecosystems and natural resource based sustainable livelihood promotion and ecosystems health management
4.	25 <sup>th</sup> April, 2022	03	<b>Instrumentation Automation Surveillance &amp; Communication Sector Skill Council</b> , B-12, Sector-1, Noida, UP -20 1301 <b>AND Omnipresent Robot Technologies Pvt. Ltd.</b> , Plot no.-11, DDA Community Center, Pocket-A, Okhla Phase-1, Okhla Industrial Estate, New Delhi-110 020	<ul style="list-style-type: none"> <li>To establish a Center of Excellence in <b>Drone Technology</b> (CEDT) in Collaboration with National Skill Development Corporation-NSDC's Sector Skillset Council IASC and Industry Partner Omnipresent Robot Tech.</li> <li>Conduct capacity-building programmes in Drone Technology</li> <li>To help the Startups for setting up enterprises and mentor the entrepreneurs &amp; facilitate marketplace development and business strategy. To nominate industry experts for conducting various programmes and events.</li> </ul>
5.	30 <sup>th</sup> April, 2022	03	<b>The National Centre for Medium Range Weather Forecasting, Ministry of Earth Sciences</b> , Govt of India. A-50, Sector-62, Noida, UP, 201309	Providing a framework for active professional cooperation for academic and research activities, for dissertation/project/internship/doctoral research and advanced research for science and engineering students, research scholars and faculty /scientists leading to

				B.Tech/M.Sc/M.Tech and Ph.D. degree.
6.	20 <sup>th</sup> May, 2022	03	<b>Empowering Anirvana</b> , C-3, Shanti Vihar Colony, Ambedkar Path, Patna (Bihar), India with its office at Anirvana Advisory Japan, 4-10-15, Kita Shinagawa, Shinagawa-Ku, Tokyo-140-0001 Japan	Providing training, development and capacity building in Japanese Language and Culture for enhancing skills and employability for the students of GBU.



## Chapter- 04 Admissions

### 4.1 Admissions Report 2021 to 2023

For Admissions in Academic Session 2021-22, the University had invited applications for admission in various programmes entirely through online application process. This year, due to pandemic, admission opened from May 14, 2021. Admissions for academic session 2021-22 in 128 programmes (Diploma/Certificate level, UG, PG, and M.Phil. and Doctoral levels), have been offered out of which admission in 85 programmes have been accomplished and remaining 43 programmes admissions where not done due to very less no of application. Details are as follows:

1. **Mode of Admission adopted:** This year admission committee has adopted two modes of admission duly approval by the competent authority which are as under:
  - a. Entrance Test Mode (GBU-ET)
  - b. Direct Admission based on merit
2. A detail of registration for admissions are as follows:
  - A. The school-wise details of admissions are as under:

S. No	School	UG		PG		Diploma/Certificate		M.Phil./Ph.D.		Total Admission	Total Withdraw
		Admissions	withdrawal	Admissions	withdrawal	Admissions	withdrawal	Admissions	withdrawal		
1	USOBT	47	5	43	7	0	0	6	0	96	12
2	USOBSC	5	0	10	0	4	0	19	0	38	0
3	USOE	84	4	19	1	0	0	7	0	110	5
4	USOHSS	271	24	97	10	1	1	16	1	385	36
5	USOICT	424	59	29	3	0	0	3	0	456	62
6	USOM	199	17	60	9	0	0	9	1	268	27
7	USOLJG	131	17	16	0	0	0	3	0	150	17
8	USOVSA S	106	10	48	2	5	0	16	0	175	12
<b>Total</b>		<b>1267</b>	<b>136</b>	<b>322</b>	<b>32</b>	<b>10</b>	<b>1</b>	<b>79</b>	<b>2</b>	<b>1678</b>	<b>171</b>

**B. Category wise details of admitted candidates:**

<b>Category</b>	<b>Total Admitted (Enrolled) Candidates</b>
General (GEN)	1020
Other Backward Classes (OBC)	363
Scheduled Castes (SC)	294
Scheduled Tribes (ST)	1
<b>Total</b>	<b>1678</b>



S.No.	Code	Name of the Programmes-2021-2022	No of Seats & Duration of the Course -2021-22
1.	UM01	Five Year Dual Degree BBA-MBA [with exit option after BBA]	60 Seats 5 Years (10-Semester)
2.	UM02	B. Com (Hons.)	60 Seats 3 Years (6-Semester)
3.	PM01	MBA (Specialization: HRM/Finance/Marketing/Operations/ Business Analytics) (to be offered based on minimum no. of students opting)	60 Seats 2 Years (4-Semester)
4.	PM01	Ph.D. (Management)	Finance and Economics/Strategy-04 (FT/WP) Marketing-03 (FT/WP) Operations-02 (FT/WP)
5.	UIE1	<b>Four Year B. Tech</b> I. Civil Engineering II. Mechanical Engineering III. Electrical Engineering	(60 Seats for each branch) 4 Years (8-Semester)
6.	UE01*	B. Arch* (Bachelor in Architecture)	40 Seats 5 Years (10-Semester)
7.	UE02	B.Des. (Bachelor of Design (I.D.))	20 Seats 4 Years (8-Semester)
8.	UE03	Five Year Integrated B.Tech.+ M.Tech. (EE)/MBA	60 Seats 5 Years (10-Semester)
9.	PE01	M. Tech. in EE (Specialization: Power System)	20 Seats 2 Years (4-Semester)
10.		M. Tech. in EE (Specialization: Instrumentation & Control)	20 Seats 2 Years (4-Semester)
11.		M. Tech. in EE (Specialization: Power Electronics & Drives)	20 Seats 2 Years (4-Semester)
12.		M. Tech. in EE (Specialization: Renewable Energy Systems)	20 Seats 2 Years (4-Semester)
13.		M. Tech. in EE (Specialization: Control & Robotics)	20 Seats 2 Years (4-Semester)
14.		M. Tech in EE (Specialization: Instrumentation & Signal Processing)	20 Seats 2 Years (4-Semester)
15.			
16.	PE02	M. Tech. in CE (Specialization: Structural Engineering)	20 Seats 2 Years (4-Semester)
17.		M. Tech. in CE (Specialization: Environmental Engineering)	
18.	PE03	MURP (Master of Urban & Regional Planning)	20 Seats in each programmes 2 Years (4-Semester)
19.	PE04	M.Arch. (Master in Architecture)	
20.	PE05	M. Tech. in ME (Specialization: Design Engineering)	20 Seats in each programmes 2 Years (4-Semester)
21.		M. Tech. in ME (Specialization: Manufacturing Engineering)	
22.		M. Tech. in ME (Specialization: Thermal Engineering)	

23.	RE01	Ph.D. (Electrical Engg.) (Specialization: Instrumentation and Control, Power System, Power Electronics & Drives, Renewable Energy Systems, Control & Robotics, Signal & Image Processing, Biomedical Instrumentation, Nanomaterials and other related areas)	2 Seats (FT/WP) or As per availability
24.	RE02	Ph.D. (Architecture & Planning)	03 Seats (FT/ WP)
25.	RE03	Ph.D. (Mechanical Engg.) (Specialization: Thermal Engg., Design Engg., Manufacturing Engg., Industrial Engg.)	07 Seats (FT/WP)
26.	RE04	Ph.D. (Civil Engg.) (Specialization: Structure/ Environme	01 Seat (FT/WP)
27.	LE01	B. Tech. in CE	09
28.		B. Tech. in ME	42
29.		B. Tech. in EE	6
30.	UV01	B. Tech. (Food Processing and Technology)	30 Seats 4 Years (8-Semester)
31.	UV02	B. Sc. (Physical Sciences) (Physics, Chemistry and Mathematics)	60 Seats 3 Years (6-Semester)
32.	UV03	B.Sc. (Hons.) (Physics)	30 Seats 3 Years (6-Semester)
33.	UV04	B.Sc. (Hons.) (Chemistry)	30 Seats 3 Years (6-Semester)
34.	UV05	B.Sc. (Hons.) (Mathematics)	30 Seats 3 Years (6-Semester)
35.	UV06	B.Sc. (Yoga)	30 Seats 3 Years (6-Semester)
36.	PV01	M. Tech. (Food Processing and Technology) (Two year programme for Engineering Graduate and Science Post Graduate)	30 Seats 2 Years (4-Semester)
37.	PV02	M. Sc. (Applied Chemistry)	30 Seats 2 Years (4-Semester)
38.	PV03	M. Sc. (Applied Physics)	30 Seats 2 Years (4-Semester)
39.	PV04	M. Sc. (Applied Mathematics)	30 Seats 2 Years (4-Semester)
40.	PV05	M. Sc. (Environmental Science)	30 Seats 2 Years (4-Semester)
41.	PV06	M. Sc. (Food Science)	30 Seats 2 Years (4-Semester)
42.	RV01	Ph.D. (Applied Chemistry)	14 Seats
43.	RV02	Ph.D. (Applied Physics)	07 Seats (FT/WP)
44.	RV03	Ph.D. (Applied Mathematics)	09 Seats (FT/WP)
45.	PGV01	PGDEM (PG Diploma in Environmental Management) (Full time/ Working Professional)	30 Seats (FT/WP) 1 Year (2-Semester)
46.	PGV02	PG Diploma in Polyurethane Technology	30 Seats 1 Year (2-Semester)
47.	PGV03	PGDELP (P.G. Diploma in Environmental Law and Policy) (Full Time(FT)/ Working Professional (WP)	30 Seats (FT) 30 Seats (WP) 1 Year (2-Semester)



48.	PGV04	PGDRET (P.G. Diploma in Renewable Energy Technologies) (Full Time)	30 Seats 1 Year (2-Semester)
49.	PGV05	PGDMMEA (P.G. Diploma in Mathematical Methods for Environmental Applications) (Full Time)	15 Seats 1 Year (2-Semester)
50.	PGV06	PGDFSQM (P.G. Diploma in Food Safety and Quality Management) (Full Time)	30 Seats 1 Year (2-Semester)
51.	PGV07	PGDFST (P.G. Diploma in Food Science & Technology) (Full Time)	30 Seats 1 Year (2-Semester)
52.	UH01	B.Ed (Specialization: Arts & Commerce)	50 Seats 2 Years (4-Semester)
53.	UH02	B.A. (Hons.) in English	60 Seats in each programme 3 Years (6-Semester)
54.	UH03	B.A. (Hons.) in Political Science	
55.	UH04	B.A. (Hons.) in History	30 Seats in each programme 3 Years (6-Semester)
56.	UH05	B.A. (Hons.) in Hindi	
57.	UH06	B.A. (Hons.) in Economics	
58.	UH07	B.A. (Hons.) in Urdu	
59.	UH08	B.A. in Journalism and Mass Communication	
60.	UH09	BSW (Bachelor of Social Work)	
61.	UH10	B.A./B.SC.** (Hons.) in Applied Psychology	60 Seats 3 Years (6-Semester)
62.	PH01	M.A. in Economics, Planning and Development	30 Seats in each programme 2 Years (4-Semester)
63.	PH02	M.A. in English	
64.	PH03	M.A. in Hindi	
65.	PH04	M.A. in Urdu	
66.	PH05	MSW (Master of Social Work )	
67.	PH06	M.A. in Political Science and International Relations	
68.	PH07	M.A. in Education	
69.	PH08	M.A. in History	
70.	PH09	M.A./M.SC.* (Applied Psychology) (with specialization in Clinical and Counseling Psychology)	60 Seats 2 Years (4-Semester)
71.	PH10	M.A. in Journalism and Mass Communication	30 Seats 2 Years (4-Semester)
72.	PH11	M. Phil. (Clinical Psychology)	10 Seats (FT) 2 Years
73.	RH01	Ph.D. (Political Science & International Relations) (Specialization: International Relations)	02 Seats (FT/WP)
74.	RH02	Ph.D. (Education)	01 Seats (FT/WP)
75.	PGH01	PG Diploma in English Language Teaching (ELT) (Part-Time, Non - Residential)	30 Seats in each programme 1Year (2-Semester)
76.	DH01	Diploma in Urdu Language (Part-Time, Non-Residential)	
77.	PGH02	PG Diploma in Guidance & Counseling (PGDGC)	20 Seats in each programme 1Year (2-Semester)
78.	PGH03	PG Diploma in Forensic Neuropsychology (PGDFNP)	
79.	UBS01	B.A. (Hons.) in Buddhist Studies & Civilization	30 Seats 3 Years (6-Semester)
80.	PBS01	M.A. (Buddhist Studies & Civilization)	30 Seats 2 Years (4-Semester)

81.	PBS02	M. Phil. (Buddhist Studies & Civilization)	7 Seats (FT) 1Year (2 Semester) (if required extension of maximum of 2 semester or 1 year)
82.	CBS01	Certificate Course in Pali Language and Literature (Part-Time)	10 Seats 1 /2 Year (1-Semester)
83.	PGBS01	PG Diploma in Pali Language and Literature (Part-Time)	10 Seats 1 Year (2-Semester)
84.	PGBS02	PG Diploma in Buddhist Tourism and Heritage (Part-Time)	10 Seats 1 Year (2-Semester)
85.	UL01	B.A. LL.B. (5-Year Integrated Programme)	120 Seats in each Programme 5 Years (10-Semester)
86.	PL01*	LL.M.	30 Seats 1 Year (2-Semester)
87.	RL01	Ph.D. (Specialization: Constitutional Law of India, Administrative Law, Jurisprudence, Criminal Law, Business Law (IPR, ADR, Corporate and Trade Law), Hindu and Muslim personal Law, Environmental Law, Cyber Law, International Law, Current legal problems and Issues concerning Governance	03 Seats (FT/WP)
88.	PGL01	PG Diploma in Economic Laws	30 Seats 1 Year (2-Semesters)

## 4.2 International Students Affairs

Gautam Buddha University in compliance with the approval of the competent authority agreed in principle to open admissions to International Students. The intake of International Students has been started from the academic session (2012-2013). International Affairs Cell at Gautam Buddha University offers a very cordial welcome to the international students wishing to join various programmes of the University for Higher Studies.

To enforce it properly, the University has created a separate entity to look after the matters related to admissions of International Students in terms of procedure, process, admission, and related administration. The International Affairs Office advises students on all matters relating to application, admission, fees, accommodation, FRRO documentation for registration of student with MHA, arrival services and orientation. It also offers an ongoing support and after arrival advices. The University has planned to attract a large number of international students not only for Undergraduate and Post Graduate courses, but also for M. Phil. and Ph.D. programs. The Cell facilitates the international student community in acquiring information, in arranging for their admission, and in looking after their welfare. The University administers a variety of research programs, scholarly events, and outreach activities, often in collaboration with agencies on and off campus. Activities include a colloquium series, conferences, a visiting scholar program, etc.



Since the academic session 2012-2013, the University is able to get applications from various foreign nationals especially Asian Countries, SAARC and ASEAN Nations, USA, Europe, Latin America for various programmes of the University. Here, it is imperative to mention that the most of the applications received for various programmes offer by School of Buddhist Studies & Civilization. Till the academic session 2022-23, International Students registered in the University since its inception belongs to following countries:

NUMBER OF FOREIGN NATIONALS STUDYING / PASS OUT							
S. No.	Country	S. No.	Country	S. No.	Country	S. No.	Country
1	Vietnam	6	South Korea	11	Sri Lanka	16	USA
2	Myanmar	7	Mongolia	12	Afghanistan	17	Canada
3	Thailand	8	Taiwan	13	Bangladesh	18	Yemen
4	Cambodia	9	Bhutan	14	Nepal	Applications received from more than 30 Countries	
5	Lao PDR	10	China	15	Suriname		

#### 4.2.1 Admissions of Foreign students at GBU in various programmes:

S. No.	School	Program	No. of Admissions
1	SOBSC	BA	02
2	SOBSC	M. A.	10
3	SOBSC	M. Phil.	17
4	SOBSC	Ph. D.	05
5	SOBSC	PG Diploma in BTH	04
6	SOHSS	Ph. D.	01
7	SOHSS	MSW	02
Total Admission			41

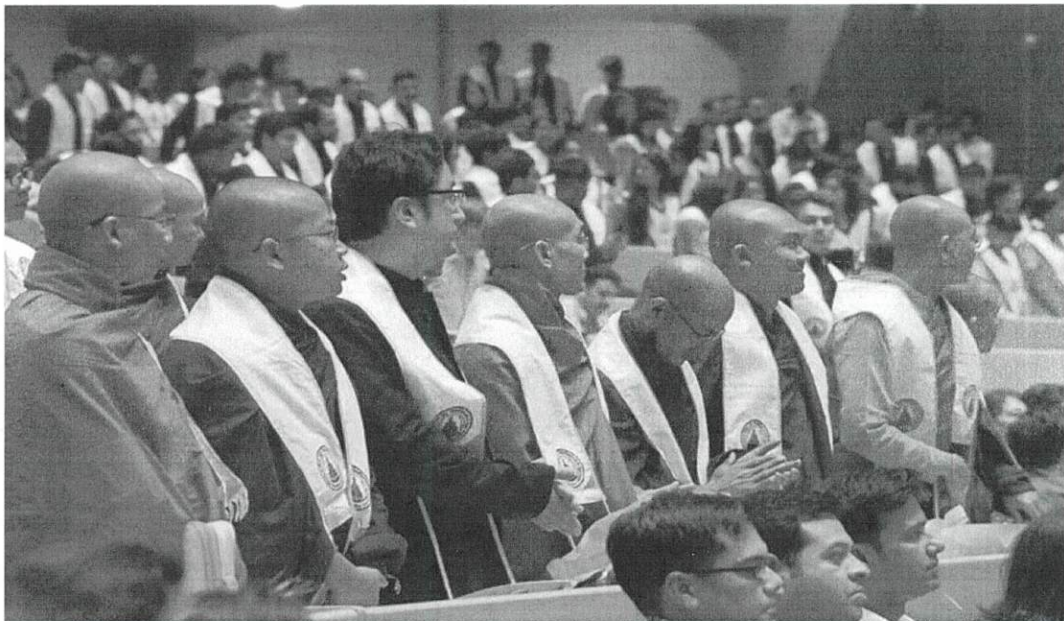
#### 4.2.2 Initiated or Coordinated Signing of MOUs for the University:

International Affairs Cell has initiated the process of tie up with Indian Council for Cultural Relations which resulted into getting ICCR sponsored foreign students to GBU. Also played an important and instrumental role in connecting national and international tie-ups with Educational and funding institutions through MOUs. Foreign MoUs started with signing an MOU with *Dhammachai International Research Institute*, Australia and New Zealand with headquarter in Thailand. After this, the cell has also coordinated signing of MoUs with

Mahabodhi International Meditation Centre, Leh, Ladakh, etc.

#### 4.2.3 Tie-Up for Students admission from Ministry of Education, Government of India agencies:

- i. **Study in India Scheme:** Coordinated with Ministry of Education, Government of India Scheme to included GBU as one of the participating University for admissions under the scheme for PIOs, NRIs, Foreign Nationals, etc.
- ii. **Visit of Representative from abroad during session:** Coordinated the visit of Korean Monk Venerable Dhammadipa Ila (Sati Master) who is currently stationed as Head of Buddhagaya International Sati School (Mula Sangha), Sati Arama, Bodh Gaya, Bihar to discuss on organizing Vipassana Workshop at GBU in collaboration on March 26, 2022.



Gradually International Affairs Office is able to expand its outreach to other countries and getting overwhelming response from international students. In the coming academic sessions, International Affairs Office has already started receiving applications for upcoming academic session.

To cater more students, the Cell organizes cultural or national event or days of foreign countries viz:

1. Vesak Day at International Hostel on May 14, 2022
2. Coordinated the participation of Buddha Purnima at Delhi organized by IBC
3. Vietnam and Myanmar National Days
4. Patimokkha Day
5. Vassavasa



## Chapter- 05

### Examinations

#### 5 Examinations

The Central Examination Department administers the academic performance, evaluation, grading and award of degrees in all programmes of studies in the University.

##### 5.1 Degree awarded during the session 2021-22

The following table illustrates the school-wise details of students who completed their degrees in the session **2021-22**.

S.No.	SCHOOL	PROGRAMME	Number of students
1	School of Biotechnology	Integrated Dual Degree Programme (B.Tech - M.Tech.) in Biotechnology	31
2		Integrated Dual Degree Programme (B.Tech in Biotechnology)+MBA	9
3		M.Sc. (Biotechnology)	22
4		M.Tech. (Biotechnology)	7
5	School of Buddhist Studies and Civilization	B. A (Hons) - M.A. in Buddhist Studies and Civilization	3
6		Diploma in Buddhist and Heritage	2
7		M.A. (Buddhist Studies and Civilization)	5
8	School of Engineering	B.Tech. (Civil Engineering)	51
9		B.Tech. (Electrical Engineering)	46
10		B.Tech. (Mechanical Engineering)	46
11		Integrated Dual Degree Programme B.Tech. (Civil Engineering)+MBA	9
12		Integrated Dual Degree Programme B.Tech. (Electrical Engineering)+MBA	8
13		Integrated Dual Degree Programme B.Tech. (Mechanical Engineering)+MBA	6
14		Integrated Dual Degree Programme B.Tech. + M.Tech. (Civil Engineering)	38
15		Integrated Dual Degree Programme B.Tech. + M.Tech. (Electrical Engineering)	29
16		Integrated Dual Degree Programme B.Tech. + M.Tech. (Mechanical Engineering)	35
17		M.Tech. Power System Engineering	7
18		M.Tech. Structural Engineering	13
19		Master of Architecture (Sustainable Architecture)	3

20		Master of Urban and Regional Planning	7
21	School of Information and Communication Technology	B. Tech. (Electronics and Communication Engineering)	50
22		B. Tech. Computer Science and Engineering	59
23		B.Tech. in Information Technology (IT)	55
24		BCA (Bachelor of Computer Application)	15
25		Integrated Dual Degree Programme B. Tech. + M. Tech./MBA (Electronics and Communication Engineering)	41
26		Integrated Dual Degree Programme B. Tech. (Computer Science Engineering) + MBA	18
27		Integrated Dual Degree Programme B. Tech. (Electronics and Communication Engineering) + MBA	6
28		M. Tech. (Electronics and Communication Engineering)	2
29		M. Tech. in CSE	4
30		MCA	9
31		MCA	11
32	School of Law & Justice Governance	LL.M (Master of Laws)	15
33		BA LLB	42
34	School of Management	B. Com (Hons.)	76
35		Dual Degree B. Com (Hons.) -MBA	10
36		Dual Degree Programme BBA-MBA	42
37		Integrated Dual Degree Programme BBA-MBA	25
38		MBA	26
39	School of Vocational Studies and Applied Sciences	B.Sc. (Hons.) Chemistry	22
40		B.Sc. (Honors) Physics	8
41		B.Sc. (Hons.) Mathematics	21
42		B.Tech. (Food Processing and Technology)	21
43		Int. B.Tech. (Food Processing and Technology) +MBA	7
44		Integrated B. Tech + M. Tech/MBA (Food Processing & Technology)	8
45		M.Sc. Applied Chemistry	15
46		M.Sc. Applied Mathematics	2
47		M.Sc. Applied Physics	5
48		M.Sc. Environmental Science	9
49		M.Sc. Food Science	12
50		M. Tech. (Food Processing & Technology)	2
51		PG Diploma in Polyurethane Technology	5
52	School of Humanities and Social Sciences	B. Ed. (Bachelor of Education)	15
53		B.A. (Hons.) Applied Psychology	19
54		B.A. (Hons.) Economics	14
55		B.A. (Hons.) English	24



56		B.A. (Hons.) History	8
57		B.A. (Hons.) in Journalism and Mass Communication	17
58		B.A. (Hons.) Political Science	31
59		B.A. (Hons.) Urdu	3
60		Bachelor of Social Work (BSW)	8
61		M. A (Journalism and Mass Communication)	4
62		M. A. (Economics, Planning & Development)	4
63		M. A. (English)	15
64		M. A. (Political Sciences and International Relations)	16
65		M. A. (Urdu)	2
66		M. Sc (Applied Psychology)	7
67		M.A. (Applied Psychology)	22
68		Master of Social Work (MSW)	5
		<b>Total</b>	<b>1234</b>

## Chapter-06

### Academic Support Activities

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#### 6.0 Academic

##### 6.1 Bodhisattva Dr. Bhim Rao Ambedkar Library

Bodhisattva Dr. B. R. Ambedkar Library is the soul of academic and research activities of the Gautam Buddha University. The library is fully automated and functional with the RFID system in place. With a huge volume of books and e-journals which cover the disciplines of Management, Computer Science, Information Technology, Biotechnology,

Humanities & Social Sciences, Law & Governance, Buddhist Studies and other related areas. The library is well equipped with modern facilities, spacious stack halls, 2000 seating capacity reading hall, reference sections, catalogue area, and multiple loaning counters. The library aims to “provide high quality services in support of the teaching and research objectives of the University communities”. A development report is given as under:



- Library is member of Shodhganga and INFLIBNET to enhance academic and research activities among the scholars of the University.
- To enhance quality research in university, library is subscribing Anti Plagiarism software URKUD and TURNITIN.
- To promote reading habit and inculcate the value of the books among the



students, library established Gandhi Darshan room where literature related to Gandhi ji are available for students.

- To support the students for preparation of the competitive examinations like IAS /PCS a separate section is established for students.
- For study of personal books, a separate hall 24x7 is also available for the students.

Library Services	
1	Access to Abstracts and Full text articles through e-resources
2	Library Users Help desk service
3	Book Loan facility
4	Online Public Access Catalogue (OPAC)
5	User Suggestion Register
6	Making ID Card/Smart Card
7	Self-Issue/Return by Libsys Software (LSmart)
8	Documents Scanning
9	E-delivery service for articles & chapters
10	Inter Library Loan Services through DELNET
11	Locker Facility
12	New Arrival Display Service
13	Newspaper Clippings
14	Photocopy
15	Printing
16	Referral Services
17	Selective Dissemination of Information (SDI)
18	CAS (Current Awareness Services)

#### 6.1.1 Seminar/Training Programme organized during the session 2021-22:

- Webinar on **“Ethics in Education and Research”** Jointly organised by Bodhisattva Dr. B.R. Ambedkar Library, GBU Greater Noida and Departments of library and information science central University of Tamil Nadu Thiruvavur, Tamil Nadu on 6<sup>th</sup> and 7<sup>th</sup> June 2020.
- Webinar on **“Library and Information Science Profession in India: Career Prospects”** organised by the Bodhisattva Dr. B.R. Ambedkar

Library, GBU Greater Noida in Collaboration with FCCI and Federation of Indian Chambers of commerce and Industry 4<sup>th</sup> August 2020 and 18<sup>th</sup> August 2022.

- **“Turnitin”** user Training organised by Bodhisattva Dr. B.R. Ambedkar Library, GBU Greater Noida on 29<sup>th</sup> Sep. 2021.
- Webinar on **“Unlock your Research Potentials with IEEE X Plore”** organised by Bodhisattva Dr. B.R. Ambedkar Library, GBU Greater Noida in Collection with IEEE.

#### 6.1.2 Details of Resources, Collections and Services in the Library

Details of Resources, Collections and Services in the Library		
S. No.	Library Resources	Total Collection
1	Text/References Books	47102
2	Book Bank	12014
3	E-books	500
4	Magazines	22
5	Print Journals	151
6	CD/DVD	2399
7	Project Reports	2839
8	Thesis	300
9	Daily News Paper	10

#### 6.1.3 E-resources Collection

S. No.	Name of E-resources	No. of E-Journals/Database
1	Emerald E-Journals Premier	310
2	IEEE (ASPP)	205
3	Springer	1700+
4	J-STOR	2832
5	EMIS Database	Company Database
6	SCC online and Heionline Platinum	18
7	Turnitin	01

#### 6.1.4 Library Services

Total Library Users: 5446 Active Users

Total Books issued: 6718



- Access to Abstracts and Full text articles through e-resources
- Library Users Help desk service
- Book Loan facility
- Online Public Access Catalogue (OPAC)
- User Suggestion Register
- 1514 I- Card/Smart Card was made
- Self-Issue/Return by Libsys Software (LSmart)
- E-delivery service for articles & chapters
- Inter Library Loan Services through DELNET
- Locker Facility
- New Arrival Display Service
- Newspaper Clippings
- Photocopy
- Printing
- Referral Services
- Selective Dissemination of Information (SDI)
- CAS (Current Awareness Services)

#### 6.1.5 Research and Career Support Services

- Library is member of Shodhganga and INFLIBNET to enhance academic and research activities among the scholars of the University.
  - To enhance quality research in university, library is subscribing Anti-plagiarism software TURNITIN.
  - Remote Access facility started in the library through Shibboleth (INFED) to access e-resources from 17.6.2022.
  - To promote reading habit and inculcate the value of the books among the students, library established Gandhi Darshan room where literature related to Gandhi ji are available for students.
  - To support the students for preparation of the competitive examinations like IAS /PCS a separate section is established for students.
  - For study of personal books, a separate hall 24x7 is also available for the students.
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## 6.2 Central Computer Centre

The Central Computer Centre (CCC) is responsible for creating, controlling, and regulating IT support services at the university level. The center's vision includes carrying out activities to achieve its objectives, such as the development of a state-of-the-art Data Centre, in-house hosting of various IT applications and servers, ensuring complete Wi-Fi coverage across the campus, providing 100 Mbps internet bandwidth to each school and 2 Gbps at CCC, establishing an advanced video conferencing system with 24x7 high-speed internet connectivity for students, delivering training on the latest IT software and technology to faculty members and staff at Gautam Buddha University, as well as offering consultancy services to nearby industries. The new building features a state-of-the-art Data Center equipped with the following facilities.

- VRV AC units for CCC building
- Visitor's area with front helpdesk
- Hardware Maintenance room
- 20 Racks space area
- Power Backup with 160 KVA (80KVA \*2) online ups.
- Lan switching managed by Cisco 6502E
- Precision AC for Data Center
- Lan Network Cisco switch 360 Nos.



- Cisco Access point for Wireless network 306 Nos.
- 16 Servers of DELL and HP for and Chassis SUN Server
- 54 Nos. Workstations for high computing
- 7 Nos. Eaton 80 KVA online UPS for power backup.
- 63 Projectors for Smart classes and board rooms.
- 861 Nos Desktops for labs and faculty & Staff's
- 233 Nos. Printers.
- 79 Nos Laptops.
- 2 Nos. NGFW for securing the Network
- 2 Nos. Router for dual ISP
- Total 1968 Nos. Complaints solved by CCC.
- Support Facility given by CCC in 200 Webinars and 10 high level Events

### 6.3 Corporate Relations Cell

CRC acts as an interface between the students, faculty, and the corporate world to initiate continuous interaction with the industry, sharing the industry experiences, and understanding the industry needs.

#### 6.3.1 CRC Activities

- GBU, FICCI and Ministry of NCS, Govt. of India scheduled an Online three days World of Work (WoW) Career Summit 2021 from 21<sup>st</sup> Dec, 2021 to 23<sup>rd</sup> Dec, 2021 with focus on Emerging careers in Pharma | Drones | IT and ITES. Keynote Speaker was Mr Surendra Singh, IAS, Vice Chancellor, Gautam Buddha University and Dr Shashi Bala, Director, NIPER, Hyderabad.
- An entrepreneurship awareness program organized by GBU, MSME Development Institute, MSME, New Delhi on 28<sup>th</sup> Feb, 2022. Guest Speaker were Dr. R.K. Bharti, IEDS, Joint Director, MSME DI, New Delhi, Sh. Sunil Kumar Asstt. Director Gr. I, MSME DI, New Delhi, Shri Anil Kumar Joint Commissioner Industries, DIC, Noida and Ms. Neha Chauhan, Apeksh Foundation, Noida
- CRC and USOM had organized an industry visit at Dana India, Greater Noida of 50 students of MBA final year and 02 faculty members on 26<sup>th</sup> March, 2022.
- GBU, FICCI and Ministry of NCS, Govt. of India scheduled a webinar on Emerging Careers in Industry 4.0 - Focus on Digital Transformations on 29<sup>th</sup> March, 2022. Keynote Speaker was Prof Ravindra Kumar Sinha, Vice Chancellor, Gautam

BUDDHA UNIVERSITY, GUEST SPEAKERS WERE PROF SURJYA KANTA PAL, CHAIRPERSON, Centre of Excellence in Advanced Manufacturing Technology. IITKGP, Cmdr. Milind Kulshrestha CEO AiKairos, Mr. Vishwaraj Chari - Sr Manager Digital Transformation Hero Motor Corp.

### 6.3.2 Placements

Placements Highlights 2021-22	
No. of Students Registered for Placements	555
No. of Companies visited campus	60
No. of placed students	400
Highest Salary Package offered	Rs. 40 lacs per annum
Average Salary Package of the batch	Rs. 4.5 lacs per annum

#### 6.3.2.1 School wise details of placements

Details	USOM	USOBT	USOICT	USOE
No. of Students Registered for Placement	127	40	254	118
No. of Companies Conducted the Drive	25	11	44	13
No. of Students Selected	102	12	221	48
<b>Percentage of Students Placed</b>	<b>80%</b>	<b>30%</b>	<b>87%</b>	<b>41%</b>

6.3.2.2 The companies have conducted the recruitment drive for passing out students

S. No.	Company Name	S. No.	Company Name
1	Agami Technologies Pvt. Ltd.	31	Learning Routes Pvt. Ltd
2	Allied Analytics LLP	32	Logix Technova (Alif Global)
3	Apis India Ltd.	33	Madman Technology
4	Astrea IT Services	34	Mands Consulting
5	Binmile Technologies	35	Maxcure Nutravedics Ltd.
6	Birlasoft	36	Nagarro
7	Blinkit (Grofers India Pvt. Ltd.)	37	NTT Data
8	Byju's	38	One.com
9	Chegg India	39	Oriserve
10	Chetu India Pvt. Ltd.	40	Pollucon
11	Coveryou	41	Preponline
12	CresTech	42	Qualtech Consultants Pvt. Ltd.
13	CRTD Technologies Pvt. Ltd.	43	Real Coderz
14	Decimal Technologies	44	Remote State
15	Dish TV India Ltd.	45	Revature



16	DMRC Ltd.	46	Scalar Academy
17	EbixCash Pvt. Ltd.	47	ShoNet India
18	Employment express Verband LLP	48	SIS Prosgure
19	Fare Labs Pvt. Ltd.	49	Synoriq R&D Pvt. Ltd.
20	ForceBolt Pvt. Ltd.	50	Tata Consultancy Services Ltd.
21	Future Market Insight	51	Tech Mahindra
22	Global Logic	52	TechSci Research Pvt. Ltd.
23	HCL	53	Techvanto Pvt. Ltd.
24	Hexaware Technologies	54	upGrad Education Pvt. Ltd.
25	High-Tech Next Engineering Telecom Pvt. Ltd.	55	Vinove Software & Services Pvt. Ltd.
26	IndiaMart Ltd.	56	Vodafone Idea Limited
27	Infostretch Corporation (India) Pvt. Ltd.	57	White Hat Jr.
28	Ingenious e-Brain Solutions Pvt. Ltd.	58	Wipro
29	Innovationm	59	Chemmanur International Holidays & Resorts Ltd (Club Oxygen)
30	Judge India Solution	60	Reliance Jio

#### 6.4 Dispensary

The multifarious medical needs of the Campus residents including of Students, faculty, Staff members and their dependents are met by the University Dispensary. The Dispensary has headed by the HOD (Dispensary) with a team of full time and visiting medical professionals. The Honorable Vice-Chancellor has also constituted a Dispensary Advisory Committee with a Chairman nominated by him and members drawn from hospital and other recognized bodies of the University. This Committee formulates various policies for providing medical facilities to the Campus residents.



#### 6.4.1 Health care services:

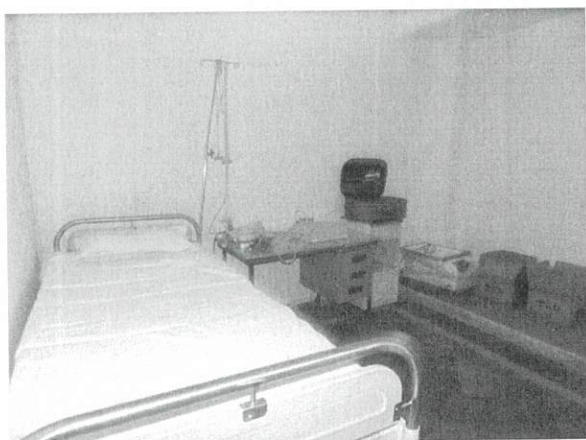
1. **OPD (Allopathic):** Patients are registered at the reception and seen on first come, first serve basis, however out of turn consultation may be provided in case of emergency and senior citizen. In OPD, clinical consultation is provided to patients which includes history, clinical examination, diagnosis and prescription to patients besides advising laboratory tests in some cases. OPD has a waiting hall with chairs, public utilities like drinking water and toilets. Sub waiting areas are available in front of individual consultation rooms. Wheel chairs and attendants are there to help the sick patients.
  2. **Physiotherapy:** A range of physiotherapy services are provided to assist the patients to recover from wide range of musculoskeletal pain-full disorders. Available modalities are:
    - Wax bath,
    - Shoulder wheel,
    - Pulley
    - Traction,
    - Hydrocollator hot pack,
    - TENS (transcutaneous electric nerve stimulator)
    - IFT, (interferential therapy)
    - MST (muscle stimulator therapy)
    - UST (ultra sonic therapy)
    - Cupping therapy
    - Dry needle therapy unit
    - Vibrator etc.
  3. **Ward/ Indoor facility:** Ward facilities are available for observation and management of medical problems like typhoid, acute gastroenteritis, malaria, viral fever etc. There are 02 general wards, 01 special ward and 01 well-equipped emergency room.
  4. **Minor OT:** Provides services for minor surgical procedure like dressing of any cut, wound, suturing of minor cut and others (done under local anesthesia.)
  5. **Laboratory services:** Trained laboratory staff provides best services, which includes painless and safe blood withdrawal Services Blood sample collection for general clinical tests, which have been prescribed by physician at Dispensary in OPD hours.
  6. **ECG Services:** ECG services with latest six channel automatic machine including report, done by trained technician.
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7. **Pharmacy:** Free & best quality medicines are available to beneficiaries on doctor prescription during OPD hours.
8. **Ambulance Services:** 24x7 patient transport vehicle(s) are available. Patients are transported from Hostel/residence (in emergency on campus) to GBU Dispensary and patients referred by emergency duty doctor to higher medical center for specialized treatment.
9. Annually organizing free general and specialized health check-up camps, health awareness talks by Dispensary with leading hospitals & specialists, who working in Delhi-NCR for University Students/residents.
10. Annually organizing voluntary blood donation camp with Red Cross society and leading blood banks.
11. Providing health education for visitors in Dispensary by professionals.

#### 6.4.2 Health care events:

- There were a large number of patients who visited to Dispensary and around 1000 patients had treatment and free quality medicines during year 2021-22 in OPD.
- There were 700 plus patients who got quality treatment in our physiotherapy Unit during year 2021-2022
- We had provided quality health care services during COVID-19 to university residents and students.
- Provided medical services during university academic and Sports events like Souryotsav, Cross country and others.



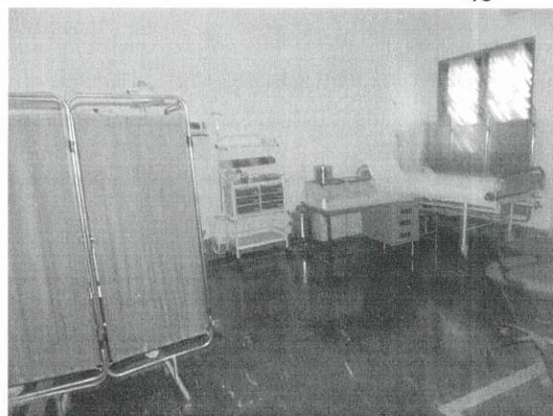
**ECG Room**



**General Health Check-UP Camp**



**Consultation with Physician**



**Emergency Ward**



## Chapter 7

### Schools of Studies

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#### 7.0

In order to promote value-based education, research and training, the University has established eight schools of studies, which are:

- 1. School of Management**
- 2. School of ICT**
- 3. School of Biotechnology**
- 4. School of Engineering**
- 5. School of Vocational Studies & Applied Sciences**
- 6. School of Humanities & Social Sciences**
- 7. School of Buddhist Studies & Civilization**
- 8. School of Law, Justice & Governance**

Each School of studies in the University combines a multilateral confluence of academic training, research, innovation and creativity. The Schools and Centres of Excellence are embodiments of the University's ever-growing quest for excellence in higher education and research. All the Schools and the Centres are in synchrony with the essence of our predominant Buddhist Ethics and Practices in the modern context.

All these Schools of Studies encompass modern fields of studies, high-end technological exposure and a meaningful dissemination of knowledge coupled with practicing wisdom. A brief description of these Schools of Learning is given in the following section.

#### 7.1 School of Management

##### 7.1.1 Introduction to the University School of Management (USOM) and Department of Business Management

University School of Management (USOM) at Gautam Buddha University offers an exciting and conducive academic and research environment for the growth of individuals. With its focus on four core values - Character, Creativity, Competence, and Commitment, the USOM at GBU imparts cutting edge value-based and skill-based education in different management streams that are duly recognized and relevant

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globally as well as locally. It envisions to set international standards to deliver management education and research with greater emphasis on skill development of students to meet the complexities of the changing world and to enable them to become successful leaders, researchers and entrepreneurs.

At present, the School of Management has one Department – **Department of Business Management**. Department of Business Management focuses on multi-disciplinary and actionable business management programs. Presently, it runs programmes, such as, Master of Business Administration (MBA) with specialization in HRM, Marketing, Finance, Operations and Business Analytics, MBA (Executive), Dual Degree BBA-MBA (with exit option), B.Com. (Hons.) and Doctoral Programme (Full-time/Working Professional mode). The Department has state of the art classrooms equipped with computing and multimedia facilities and supported by an extensive library which includes books, journals, and films databases. The Department ensures that the education imparted is relevant to the need of corporate world and creates well trained business leaders and managers who are able to influence management practices across organizational boundaries. The Department has full commitment to high quality research and hence, continuously invests in research activities in all major functional areas of business management, namely, Finance and Economics, Human Resource Management, Marketing and International Business, Operations Management & Decision Sciences, Strategy and Entrepreneurship, Business Analytics.

#### 7.1.2 Academic Programmes Offered at USOM

<b>UNDER GRADUATE</b>	Five Year Dual Degree BBA-MBA (with exit option after BBA)
	B. Com (Hons.)
<b>POST GRADUATE</b>	MBA (Specialization: HRM/ Finance/ Marketing /Operations / Business Analytics)
<b>DOCTORAL</b>	Ph.D. (Management)

#### 7.1.3 Admissions

<b>S. No.</b>	<b>Program Name</b>	<b>Total Seats -2021</b>	<b>Admitted Students - 2021</b>
1	Dual Degree BBA-MBA	75	71
2	B. Com (Hons.)	120	127
3	MBA	75	60



#### 7.1.4 Laboratories

Computer Labs, Professional, Development Lab & Communication Lab

7.1.5 Research Advisory Committee (Formerly known as RDC) Conducted: 8

7.1.6 Theses (Ph.D. Research) Produced: 12

7.1.7 Conferences, Seminars, Workshops, Training Programmes, invited talk, Expert lecture conducted (with Photographs)

- i. "SHARK TANK ---GBU" for Entrepreneurial Skill Development was organized by School of Management on March 8 & 9, 2022.
- ii. School of Management organized the annual food festival, Dawat-E-GBU by and for all students of GBU on Mar 26, 2022.  
<https://www.gbu.ac.in/Content/gbudata/data/SOM/Dawat-e-GBU%202022.pdf>
- iii. World's largest Global Climate Clock Assembly and display event on Earth Day was participated by 39-member squad of students led by Prof. Shweta Anand, School of Management, and Dr. Shiv Shankar, Faculty Department of Environmental Science, School of Vocational Studies and Applied Science, Gautam Buddha University on April 22, 2022. <https://www.gbu.ac.in/connect/NewsDetail/14>
- iv. Online National Seminar on "Achievement of Indian Economy" with reference to village, Youth, Women, environment, Digitalization and Industries", organized by Prof. Shweta Anand, Dr. Navin Kumar, School of Management, GBU on April 30, 2022.  
[https://www.gbu.ac.in/Content/gbudata/data/SOM/SOM\\_Seminar\\_Proceeding.pdf](https://www.gbu.ac.in/Content/gbudata/data/SOM/SOM_Seminar_Proceeding.pdf)
- v. One day visit of SOM students was organized on May 12, 2022 to SEBI and NSE Office New Delhi by Prof Shweta Anand.  
<https://www.gbu.ac.in/Content/gbudata/data/SOM/SEBI%20Visit%202022.pdf>
- vi. "Strategic Literature Review" workshop on enhancing research skill was organized by School of Management on May 18, 2022.
- vii. 2<sup>nd</sup> International Conference on Contemporary Issues in Business Innovation Technology and social Science (ICBITSS-2) was organized on May 24 & 25, 2022.
- viii. International Conference (Virtual), AIMT-GBU Spring on INTERDISCIPLINARY RESEARCH ON APPLIED SCIENCE, MANAGEMENT AND TECHNOLOGY (ICIRASMT) was held on May 26-27, 2022 at 06:00 PM (IST)/ 8:30 AM (EST) on virtual mode, Organized by American Institute of Management and Technology (AIMT), USA in association with School of Management, Gautam Buddha University, Greater Noida, India. The paper presentation done during May 26-27, 2022 in eight sessions during 6:00 pm to 9:00 pm (IST)/8:30 – 11:30 am (USA Eastern Standard Time) followed by valedictory session.

The main theme of the AIMT-GBU international conference was about technology adoption and innovations in management practices. Adopting digital highway with prudent approach to industry 4.0, involving AI, Big data and analytics to scale the productivity with sustainability, digitization, efficiency and resilience is the pivotal issues of this conference. Technology solutions that may help environmental, Social and Governance issues and facilitate an efficient ecosystem for industry and its sustainable growth are the concerning agenda. Overall, 108 research papers have been received in the area of Artificial Intelligence/Machine learning/contemporary issues in science and technology and its application on management, Big data for Industry 4.0 from across the world majorly from USA and Asian nations and 68 papers has been selected for presentation. Further, all selected 68 papers will be published in peer reviewed journal, edited book and conference proceeding on the basis of originality and merit of the papers. The conference was coordinated by Dr Dinesh Kumar Sharma and Dr Rakesh Kumar Srivastava, SOM, GBU.





### 7.1.8 Corporate Relations Cell Activities organized for USOM students

- i. Corporate Relations Cell (CRC), GBU, FICCI and Ministry of NCS, Govt. of India scheduled a three days Online World Summit from 21<sup>st</sup> Dec, 2021 to 23<sup>rd</sup> Dec, 2021.
- ii. An entrepreneurship awareness program organized by CRC, GBU, MSME Development Institute, MSME, New Delhi on 28<sup>th</sup> Feb, 2022.
- iii. Industry visit at Dana India of 50 students of MBA final year and 3-4 faculty members on 26<sup>th</sup> March, 2022 was organized by CRC, GBU.
- iv. CRC, GBU, FICCI and Ministry of NCS, Govt. of India scheduled a webinar on Emerging Career in Industry 4.0 29<sup>th</sup> March, 2022.
- v. Guest lecture of Ms. Vaishali Singh, HR from Cover You was organized by CRC on Insurance Industry on December 6, 2021.
- vi. Introduction to securities market by SEBI, NSE and NSDL organized on August 25, 2021.
- vii. Workshop on SLR was organized on May 18, 2022.

### 7.1.9 Research and Development

#### Papers published in refereed journals

- Chaudhary, A.& amp; Anand, S. (2021). The Perceptions of Consumers Regarding the Use of E-wallets: A Study on Sonipat District of Haryana. Bulletin Monumental Journal (French Journal) BMJ with E-ISSN No:0007-473X Volume 22, Issue 10. UGC Approved (Gr II Sr. No. 4712) Impact factor: 6.9 Oct 2021, Scopus Indexed.
- Singh, R., & Banerjee, S. (2022). "Consumers' Orientation for online and offline shopping while making the buying decision", An International Journal of Research in Management, issue Jan.-June, 2022, pp. 02-14.
- Sharma, M., Banerjee, S., & Paul, J. (2022). Role of social media on mobile banking adoption among consumers. Technological Forecasting and Social Change, 180, 121720.
- Meghna and Varsha Dixit (2021). "Impact of Age, Gender and Experience on Task Performance on Service Sector Employees: An Empirical Study" published in Delhi Business Review, Vol 22, No.2 (UGC Care Listed Journal)
- Meghna and Varsha Dixit, (2022). "Relationship of conscientiousness and job performance in service sector: A Literature review" in International Journal of Research in Human Resource Management, 4(2) (UGC Care Listed Journal)

- Naveen Kumar and Prachi Aggarwal (2022). "Rise of Influencers marketing: opportunities and challenges for Indian Marketers" published in the "International Journal of Research, Issue-22, March 2022.
- Naveen Kumar (2022). "Assessment of the mediating effect of satisfaction on E-service quality and E-shopping Intention" published in the "Journal of Management and Entrepreneurship", UGC Care (List I). Volume 16, No. 1, January 2022
- Naveen Kumar and Rajeev Sirohi (2021). "Factors Influencing Customer Acceptance of electric vehicles in India" published in the "Empirical Economics Letters, ABDC Journal, 20(10), ISSN 16818997, October 2021.
- Naveen Kumar and Upasana Gupta (2021). "Relationship among perceived risk, domain-specific knowledge, Customer's attitude and online purchase Intentions" in the "Empirical Economics Letters, ABDC Journal, 20(Special Issue 01), ISSN 16818997.

#### Publication in Conference Proceedings

- Chaudhary, N., Anand S. (2022) The Impact of Bank Specific Factors on NPA of Scheduled Commercial Banks in India [Conference presentation abstract]. Second International Conference on contemporary issues on Business innovation, technology, and Social Sciences (ICBITSS 2-2022) held by SoM, Gautam Buddha University, Gr Noida, UP, India.
- Chaudhary, N., Anand S. (2022). Recent Advancements and Technological Innovations in the Indian Banking Sector [Conference presentation abstract]. Online National Seminar on Achievements@75 held by SoM, Gautam Buddha University, Gr Noida, UP, India.
- Naveen Kumar (2022): "Analysing the existing theories and models of Technology Adoption-A Chronological Study" published in the "3-Day multidisciplinary conference on Vision for India @ 2047, organized by Sri S. Ramasamy Naidu Memorial College, Sattur & ICSSR, New Delhi, February 2022.

#### Book publication

- Ajay Kansal, "Business Finance: The Changing Scenario" (Book Edited) One Co-Editor New Vision Publisher, Uttam Nagar, Delhi- 59 ISBN: 978-81-949466-5-6
- Ajay Kansal, "Entrepreneurship Development" (Book Edited) One Co-Editor KBC-Nano Publications Pvt. Ltd., Patel Chest, Delhi ISBN: 978-93-83918-41-6.

#### 7.1.10 Ongoing Projects

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S. No.	Year	Title of the project	Funding Agency	Grant Amount (Rs.)	Completed/ongoing	Land area (Hectare)
1	2021-22	Gautam Buddha University was nominated to carry out "Social Impact Analysis (SIA) Study" for Railway Overbridge Project under EDFC Project by Indian Railway, Government of India – Site: "near Railway Crossing 146, Gram Palla, Greater Noida" located in Ghaziabad – Tundla Rail Section, Uttar Pradesh <b>(Final Report submitted in February 2023)</b>	Indian Railway Gov. of India	12,00,000/-	Completed	0.6450

#### 7.1.11 Award / recognition to faculty members

- Prof Shweta Anand (2021) Mahila Shakti Award received in appreciation of her dedication and contribution to the field of Education.
- Prof Shweta Anand (2022 Apr 16) Awarded Shri Atal Bihari Vajpayee National Award on for outreach work done for Society.
- Prof Shweta Anand (2022) Recognized as Social Scientist by ICSSR.

## 7.2 School of ICT

University School of Information and Communication Technology (USICT) was established in 2009. It's deviated into three departments viz Computer Science and Engineering (CSE), Department of Information Technology & Electronics and Communication Engineering ECE). USICT has the history of producing skilled doctorate, postgraduate and undergraduate professionals in the emerging areas of Information and Communication Technology (ICT). The school has excellence in research and education, with training and talks by our distinguished alumni, academicians, and professionals from the industry through the year. ICT pervades nearly all aspects of today's digital society and will continue in the decades ahead to be of critical importance to the nation's technological infrastructure. We are proud of the accomplishments of our many alumni, including prize-winning researchers, developers and project leaders in the world-class multinational organizations like Siemens, Astrea, Qualcomm, Cadence, Nokia, Lucideous, HCL, Sapient, NEC and so on.

The school offers full time and part time doctoral programmes with a substantial number of research scholars, postgraduate and undergraduate programmes in CSE & ECE and

also integrated degree programmes in CSE & ECE. The school has spacious classrooms as well as state-of-the-art teaching aids including overhead projectors, LCD panels along with the learning management system. Our faculty members are highly qualified, pioneering in teaching and research. Faculty members are involved in world-class research in Software Engineering, Data Science, Wireless Communication and Networks, Artificial Intelligence & Robotics, and VLSI Design, Machine Learning, IoT, Networking, Cloud Computing, Big Data Analytics and Security and are recipients of numerous national and international awards. Several faculty members serve on the editorial boards / reviewer of many prestigious journals, including Institute for Electrical and Electronics Engineering (IEEE), Association for Computing Machinery (ACM), INTEGRATED, Springer, Elsevier, and other national and international journals etc.

### **7.2.1 Programmes**

#### **Under Graduate programmes**

- Year Integrated B.Tech.-M. Tech. (ECE)
- B.Tech. ECE 4 years
- B.Tech. ECE with specialization in AI and ML.

#### **Post Graduate Programmes**

- M. Tech. ECE (Specialization: Wireless Communication and Networks)
- M. Tech. ECE (Specialization: VLSI Design)
- M. Tech. ECE (Railway Signaling, Telecommunication and RAMS)

#### **Doctoral Programme**

Ph.D. (ECE) These are thrilling times for ICT research scholars, postgraduate and graduates' students, as the discipline is contributing towards the development of tools and techniques for almost every field of technology and society.

The school is focused on preparing students to meet the ever-increasing technological and social challenges with traditional self-discipline, hard work, all-round personality development and a creative approach to problem-solving. We also promote and nurture the spirit of innovation and entrepreneurship in students from the initial days of their tenure, so as to enable them, not only to be industry ready but also to be job creators, rather than job seekers. The representation of the industry to provide a flexible and



interdisciplinary, credit-based curricular structure to students is another value addition being offered.

## **VISION**

To impart quality education for producing world-class technocrats and entrepreneurs with the latest knowledge, sound ethics and innovative ideas in ICT to meet industrial needs and societal expectations.

## **MISSION**

To impart world class value based technical education in all aspects of ICT through state of the art infrastructure and innovative approach to produce ethical, motivated and skilled professionals through theoretical knowledge and practical applications.

### **7.2.2 About the DCSE**

Department of Computer Science and Engineering offers courses in the area of Computer Science, Artificial Intelligence, Machine Learning, Internet of Things, Data Science, Cyber Security as well as in Information Technology. Five-year integrated programme and M.Tech. programme have been our strength since long. Being part of USICT, we offer and support interdisciplinary courses. Recently we have started 4-year B.Tech. programmes in Computer Science and Engineering and Artificial Intelligence, Machine Learning, Internet of Things, Data Science, and Cyber Security. We offer M.Tech. CSE with specialization in Software Engineering, Data Science, Artificial Intelligence and Robotics, M.Tech. in Cyber Security and we support M.Tech. (ECE) with specialization in Wireless and Communication Networks (WCN). We also offer Ph.D. Programmes for full time and working professional mode in all areas where research is being currently conducted by our faculty members.

We have highly qualified, competent and experienced faculty which is supported by well-equipped labs and infrastructure. Our department carries a vision to groom our students into professionals in their respective area of expertise. To do so, besides curriculum, we expose our students to frequent high quality skill enhancement workshops, industry visits, expert lectures, national and international conferences. Our students have achieved very high ratio of placement in good companies and several of them progressed to pursue further education abroad. We do regular updates in our curriculum to address need of the hour in the industry and to make our students ready for cutting edge technology. Under the supervision of our esteemed faculty, several scholars have completed their Ph.D. with

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high quality research and several are still pursuing. Our students and scholars have explored very deep in latest area in the computer science and information technology. These areas include Artificial Intelligence, Data Science, Machine Learning, Internet of Things, Cloud Computing, Image Processing, Cyber Security, Big Data, Deep Learning, Pattern Recognition, Decision Making, Sensor Networks, Object-Oriented Programming, Component-Oriented Programming, Aspect-Oriented Programming, professional level Software Engineering, and many more.

### **UNDERGRADUATE PROGRAMMES**

- B.Tech. Artificial Intelligence
- B.Tech. Computer Science and Engineering
- B.Tech. Computer Science and Engineering (Under Self Finance Scheme)
- B.Tech. Computer Science and Engineering with specialization in Machine Learning
- B.Tech. Computer Science and Engineering with specialization in Data Science
- B.Tech. Computer Science and Engineering with specialization in Cyber Security
- B.Tech. Computer Science and Engineering with specialization in Internet of Things
- B.Tech. Information Technology
- BCA

### **INTEGRATED PROGRAMMES**

- Year Integrated B.Tech.-M. Tech (CSE)
- Year Integrated B.Tech.-M. Tech (ICT)

### **POST GRADUATE PROGRAMMES**

- M.Tech. CSE (Specialization: Software Engineering)
- M.Tech. CSE (Specialization: Artificial Intelligence and Robotics)
- M.Tech. CSE (Specialization: Data Science)

### **DOCTORAL PROGRAMME**

- Ph.D. (CSE)

### **Vision**

To impart quality education for producing world-class technocrats and entrepreneurs with the latest knowledge, sound ethics and innovative ideas in Computer Science and Engineering and will try to meet industrial needs and societal expectations. Department of



Computer Science and Engineering will have a transformative impact on society through continual innovation in computer education and research.

### **Mission**

To impart world class value based technical education in all aspects of Computer Science and Engineering through state of the art infrastructure and innovative approach to produce ethical, motivated and skilled professionals through theoretical knowledge and practical applications. Department will try to provide a transformative educational experience for students and research scholars by providing deep disciplinary knowledge. Department will try to (a) attract and retain diverse students with world-class talent; (b) create a collaborative environment open to the free exchange of ideas, where research, creativity, innovation, and entrepreneurship can flourish through various study circles and clubs.

### **7.2.3 About Department of IT**

Information technology, one of the fastest-growing technologies, has become a strategic function in every organization and lands its foot in every walk of our life. At the undergraduate level, we offer a four-year B.Tech. IT Programme and BCA. At the postgraduate level, we offer two areas of specialization for a two-year MCA (i) Data Science and (ii) Artificial. From the academic Session, 2022-23 Department is starting M.Tech. IT and M.Tech. Information and Cyberwarfare at post graduate level. We also offer Ph.D. There are programs for full-time and working professional mode in all areas where our faculty members are currently conducting research.

#### **Undergraduate Programme**

- B.Tech. Information Technology-04 Year
- MCA
- BCA
- MSC Artificial Intelligence

### **7.2.4 About the DECE**

Electronics and Communication Engineering is one of the most fascinating fields for understanding and practicing. Even tiny pieces of device nugget possess incredible magic. A mobile phone takes the electromagnetic signal from the air, converts, compress and processes this information further and shove it again in the air. Jillions of these data in a very short span of time received these messages and sent reliably to the different corner of

the globe. Everybody in the universe is connected wirelessly through just one identity number. The students of the department are nurtured in such a way they can be well recruitable in reputed companies or become researchers after completion of their degree from the department. Further, I am confident that this bunch of professional talents, who are going to complete our studies from the department, will be of great value and a big asset to any organization they join. **INTEGRATED PROGRAMMES.**

### **Under Graduate Programmes**

- Year Integrated B.Tech.-M.Tech. (ECE)
- B.Tech. ECE 4 years
- B.Tech. ECE with specialization in AI and ML

### **Post Graduate Programmes**

- M.Tech. ECE (Specialization: Wireless Communication and Networks)
- M.Tech. ECE (Specialization: VLSI Design)
- M.Tech. ECE (Railway Signaling, Telecommunication and RAMS)

### **Doctoral Programme**

- Ph.D. (ECE) in.

### **7.2.5 Admissions**

<b>Undergraduate Programme</b>	<b>Total Students</b>	<b>Male</b>	<b>Female</b>	<b>UP Domicile</b>	<b>Outside UP</b>	<b>UR</b>	<b>OBC</b>	<b>SC</b>	<b>ST</b>	<b>PWD</b>	<b>FF</b>	<b>DD</b>	<b>EWS</b>	<b>International</b>
B.Tech. Artificial Intelligence	23	16	7	17	6	12	2	9	0	0	0	0	0	0
B.Tech. Computer Science and Engineering	58	47	11	53	5	21	25	12	0	0	0	0	3	0
B.Tech. Computer Science and Engineering (Under Self Finance Scheme)	49	34	15	39	10	32	7	10	0	0	0	0	2	0
B.Tech. Computer Science and Engineering with	6	4	2	5	1	3	0	3	0	0	0	0	0	0



specialization in Machine Learning														
B.Tech. Computer Science and Engineering with specialization in Data Science	6	4	2	3	3	3	1	2	0	0	0	0	0	0
B.Tech. Computer Science and Engineering with specialization in Cyber Security	5	5	0	3	2	2	0	3	0	0	0	0	0	0
B.Tech. Computer Science and Engineering with specialization in Internet of Things														
B.Tech. Infomation Technology	65	48	17	56	9	32	11	22	0	0	0	0	1	0
BCA	30	25	5	27	3	20	8	2	0	0	0	0	3	0

## Integrated Programme

[illegible]

## POSTGRADUATE PROGRAMME

[illegible]

MCA Science	Data	0	0	0	0	0	0	0	0	0	0	0	0	0
MSC Science	Data	1	0	1	0	1	1	0	0	0	0	0	0	0
MSC Artificial Intelligence														
<b>Doctorate Programme</b>														
Ph.D. (CSE)		3	2	1	3	0	3	0	0	0	0	0	0	0

### 7.2.6 Laboratories functional

<b>Department of DCSE</b>			
<b>S. No.</b>	<b>Name Of Laboratory</b>	<b>Faculty In-Charge</b>	<b>Technical support</b>
1	Artificial Intelligence and Robotic Lab	Dr. Anurag Singh Baghel	Mr. Anmol Nagar
2	Computer Laboratory-I	Dr. Pradeep Tomar	Mrs. Sunita
3	Computer Laboratory-II	Dr. Arun Solanki	Mrs. Sunita
4	Cyber Security Lab	Dr. Aarti Gautam Dinker	Mr. Sanjeev Kumar
5	Expert System Lab	Dr. Arun Solanki	Mrs. Sunita
6	Multimedia Technology	Dr. Pradeep Tomar	Mrs. Sunita
7	Parallel Processing Lab	Dr. Neeta Singh	Ms. Sanjeev Kumar
8	Research Project Lab	Dr. Pradeep Tomar	Mrs. Sunita
9	Software Engineering Lab	Dr. Pradeep Tomar / Dr Arun Solanki	Mr. Sanjeev Kumar
10	Computer Networking Lab	Dr. Neeta Singh	Mr. Sanjeev Kumar
11	Design Lab (WCN)	Dr. Neeta Singh	Mr. Sanjeev Kumar
12	Computer Lab-III	Anurag Singh Baghel	Mr Surendra Pratap
13	Computer Lab-IV	HoD	Mr Surendra Pratap
14	Wireless Technology Research Lab	Dr Vidushi Sharma	Mr Praveen Kumar
15	Embedded Systems Lab	Anurag Singh Baghel	Mr. Anmol Nagar
<b>Department of Electronics Lab</b>			
16	Advance Analog and Digital Communication Lab	Dr. Anurag Singh Baghel	Mr. Anmol Nagar
18	Advance DSP Lab	Dr. Rajesh Mishra	Mr. Himanshu Saini
19	Basic Electronics Lab	Dr. Priyanka Goyal	Ms. Ravindra Kumar
20	Design Lab (VLSI Design)	Dr.R.B.Singh	Mr. Anmol Nagar
21	Digital Electronics Lab	Dr. R. B. Singh	Mr. Himanshu Saini



22	Digital IC Design Lab	Dr.R.B.Singh	Mr. Anmol Nagar
23	Electronics Circuits Lab	Dr. Priyanka Goyal	Ms. Ravindra Kumar
24	Electronics Workshop Lab	Dr. Vimlesh Kumar Ray	Ms. Himanshu Saini
25	Microwave and Antenna Lab	Dr. Vimlesh Kumar Ray	Mr. Anmol Nagar
26	Microwave Engineering Lab	Dr. Vimlesh Kumar Ray	Mr. Anmol Nagar
27	Microprocessor and Interface Lab	Dr. Vimlesh Kumar Ray	Mr. Anmol Nagar
28	Optical Communication Lab	Dr. Rajesh Mishra	Mr. Ravindra Kumar
29	Wireless Technology Research Lab	Dr. Vidushi Sharma	Mr. Sanjeev Kumar

### 7.2.7 RDC Conducted DCSE

12/12/2021	PHD/ICT/2006	Vinod Kumar	Triaging to Handle Cold Start Problem in Open-Source Repository	Dr. Anurag Singh Baghel	DCSE
11/12/2021	PHD/ICT/2007	Indu	PESTICIDES SPRAY AND REDUCTION OF ITS REPETITION OVER THE CROP USING ARTIFICIAL INTELLIGENCE	Dr. Anurag Singh Baghel	DCSE
11/12/2021	PHD/ICT/2013	Shobhit Mani Tiwari	QoS scheme for Vehicular communication on VANETs for detecting messages characteristics	Dr. Anurag Singh Baghel	DCSE
11/12/2021	PHD/ICT/2009	Pragya Tewari	Domain Adaptation For Hindi to English Neural Machine Translation	Dr. Anurag Singh Baghel	DCSE
11/12/2021	PhD/ICT/2001	Madhu Sharma	Performance Enhancement of Artificial Intelligence Based Recommendation Techniques for Health Care by Deep Learning	Prof. S. K. Sharma	DCSE
11/12/2021	PhD/ICT/2002	Namisha Bhasin	Authentication Using Keystroke Dynamics	Prof. S. K. Sharma/ Dr. Rajesh Mishra	DCSE
11/12/2021	PhD/ICT/2003	Priya Sharma	Analysis and Development of Anomaly Detection Techniques in IoT	Prof. S. K. Sharma/ Dr. Diksha Dani	DCSE
11/12/2021	PhD/ICT/2004	Roshan lal	Design and Analysis of Different Perspective for Signed Social Networks	Prof. S. K. Sharma	DCSE
11/12/2021	PhD/ICT/2005	Vineet Kumar	Artificial Intelligence based Predictive Admission Model	Dr. Arun Solanki	DCSE

24/12/2021	PhD/ICT/2012	Sandeep Kumar	Automatic Abstractive Text Summarization Model Using Artificial Intelligence Techniques	Dr. Arun Solanki	DCSE
11/12/2021	Ph.D./ICT/2014	Bhawna Kankane	Reliability Analysis of Wireless Multi-hop Sensor Networks	Dr. Rajesh Mishra/ Dr. Sandeep Sharma	DECE
24/12/2021	Ph.D./ICT/2015	Prerna Ajmani	Medium Access Control Algorithms for Safety Message Broadcast in Internet of Vehicles	Dr. Neeta Singh/ Dr. Poonam Verma	DCSE

### 7.2.8 Papers Published in Refereed Journals

Dr. Rajesh Mishra	U. Singh, R. Mishra, A Dual-Band High-Gain Substrate Integrated Waveguide Slot Antenna for 5G Application, Progress In Electromagnetic Research, Vol. 119, 191–200, 2022, doi:10.2528/PIERC22020803.
Dr. Pradeep Tomar	<p>Sakalle, A., Tomar, P., Bhardwaj, H., Iqbal, A., Sakalle, M., Bhardwaj, A., and Ibrahim, W., "Genetic Programming-based Feature Selection for Emotion Classification using EEG Signal", Journal of Healthcare Engineering, pp. 1-6, Vol. 2022, Article ID 8362091, ISSN: 2040-2295, DOI: 10.1155/2022/8362091, 2022, Impact Factor 3.82.</p> <p>Sakalle, A., Tomar, P., Bhardwaj, H., and Alim, M., "A Modified LSTM Framework for Analyzing COVID-19 Effect on Emotion and Mental Health during Pandemic Using the EEG Signals", Journal of Healthcare Engineering, pp. 1-8, Vol. 2022, Article ID 8412430, ISSN: 2040-2295, DOI: 10.1155/2022/8412430, 2022. Impact Factor 3.82</p> <p>Bhardwaj, H.; Tomar, P.; Sakalle, A.; and Ibrahim, W. (2021) "EEG-Based Personality Prediction using Fast Fourier Transform and DeepLSTM Model", Computational Intelligence and Neuroscience with special issue on Compression of Deep Learning Models for Resource-Constrained, Devices, Vol. 2021, ISSN: 1687-5265, Impact Factor: 3.63, Article ID 6524858, 10 pages, doi.org/10.1155/2021/6524858.</p> <p>Sharma, U.; Tomar, P.; Ali, S. S.; Saxena, N.; Bhadoria, R. S. (2021) "Optimized Authentication System with High Security and Privacy" in Electronics, 10 (4), 458, MDPI, <a href="https://doi.org/10.3390/electronics10040458">https://doi.org/10.3390/electronics10040458</a>, Impact Factor 2.9, ISSN: 2079-9292, pp.1-23,</p> <p>Sakalle, A., Tomar, P., Bhardwaj, H., Acharya, D., and Bhardwaj, A., (2021) "A LSTM Based Deep Learning Network for Recognizing Emotions Using Wireless Brainwave Driven System", Expert Systems with Applications, Elsevier, Impact Factor 8.665, Vol. 173, pp. 1-19, ISSN: 0957-4174,</p>
Dr. Anurag Singh Baghel	<p>Rajendra Bahadur Singh and Anurag Singh Baghel, "IC Floorplanning Optimization using Simulated Annealing with Order-based Representation", I.J. Intelligent Systems and Applications, Vol. 13, No. 2, 2021, 2, 62-70 ISSN: 2074-904X (Print), ISSN: 2074-9058 (Online). Published Online April 2021 in MECS (<a href="http://www.mecs-press.org/">http://www.mecs-press.org/</a>) DOI: 10.5815/ijisa.2021.02.05</p> <p>Shobhit Tiwari and Anurag Baghel, Title: ROUTING MOBILITY PATTERNS TO IMPROVE QOS IN VANET, ISSN: 2096-3246 Volume 54, Issue 02, November, 2022 <a href="https://advancedengineeringsscience.com/">https://advancedengineeringsscience.com/</a> <a href="https://advancedengineeringsscience.com/article/465.html">https://advancedengineeringsscience.com/article/465.html</a></p>
Dr. Priyanka Goyal	Priyanka Goyal, Deepesh Singh, "Improved two stage generative adversarial network for adversarial example generation with real exposure", Recent Advances in Computer Science and Communications, May, 2023, <a href="https://doi.org/10.2174/2666255816666230608104148">https://doi.org/10.2174/2666255816666230608104148</a>



	Namita, A. Garg, P. Goyal, Y. K. Awasthi, "Design of 16×100 Gbps free space optical system using advanced modulation techniques", Journal of optics, December, 2022, ISSN- 0974-6900, DOI:10.1007/s12596-022-01072-y
Dr. Neeta Singh	P. Ajmani, N. Singh and P. Verma, "Internet of Vehicles Taxonomy and Evaluation: Architectures, Protocols, and Issues," 2022 5th International Conference on Contemporary Computing and Informatics (IC3I), Uttar Pradesh, India, 2022, pp. 1163-1170, doi: 10.1109/IC3I56241.2022.10072434.
	Rajnish Singh, Neeta Singh, Aarti Gautam Dinker et al. An Improved iNewRenoTCP Protocol for Mobile Adhoc Networks, 14 March 2023, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-2257643/v1]
Dr. Arun Solanki	M. M. Patil, P. M. Rekha, A. Solanki, A. Nayyar and B. Qureshi, "Big data analytics using swarm-based long short-term memory for temperature forecasting," Computers, Materials & Continua, vol. 71, no.2, pp. 2347–2361, 2022.
	Loveleen Gaur, Anam Afaq, Arun Solanki, Gurmeet Singh, Shavneet Sharma, N.Z. Jhanjhi, Hoang Thi My, Dac-Nhuong Le, Capitalizing on big data and revolutionary 5G technology: Extracting and visualizing ratings and reviews of global chain hotels, Computers and Electrical Engineering, Volume 95, 2021, 107374,
	Zhou, S., Qiu, J. & Solanki, A. Improved SSD using deep multi-scale attention spatial-temporal features for action recognition. Multimedia Systems 28, 2123–2131 (2022).
	<b>Conference Publications</b>
	Bisht, P., Solanki, A. (2022). Exploring Practical Deep Learning Approaches for English-to-Hindi Image Caption Translation Using Transformers and Object Detectors. In: Unhelker, B., Pandey, H.M., Raj, G. (eds) Applications of Artificial Intelligence and Machine Learning. Lecture Notes in Electrical Engineering, vol 925. Springer, Singapore.
	Solanki, A., Singh, T. (2022). Flower Species Detection System Using Deep Convolutional Neural Networks. In: Singh, P.K., Kolekar, M.H., Tanwar, S., Wierchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol 875. Springer, Singapore. https://doi.org/10.1007/978-981-19-0284-0_17
	Choudhary, R., Solanki, A. (2022). Violence Detection in Videos Using Transfer Learning and LSTM. In: Verma, P., Charan, C., Fernando, X., Ganesan, S. (eds) Advances in Data Computing, Communication and Security. Lecture Notes on Data Engineering and Communications Technologies, vol 106. Springer, Singapore. https://doi.org/10.1007/978-981-16-8403-6_5
	Jaiswal, V., Solanki, A. (2022). A New Model for COVID-19 Detection Using Chest X-ray Images with Transfer Learning. In: Verma, P., Charan, C., Fernando, X., Ganesan, S. (eds) Advances in Data Computing, Communication and Security. Lecture Notes on Data Engineering and Communications Technologies, vol 106. Springer, Singapore.
	Anand, Solanki, A., Nayyar, A. (2021). Transfer Learning to Improve Breast Cancer Detection on Unannotated Screening Mammography. In: Luhach, A.K., Jat, D.S., Bin Ghazali, K.H., Gao, XZ., Lingras, P. (eds) Advanced Informatics for Computing Research. ICAICR 2020. Communications in Computer and Information Science, vol 1393. Springer, Singapore.
	<b>Conference Publications</b>
	Ashok, Prabuddh Kumar, and Arun Solanki. "Applying privacy & proof of ownership on software licenses & patents using non-fungible tokens on public blockchains & securing them using hashing algorithms." AIP Conference Proceedings. Vol. 2782. No. 1. AIP Publishing, 2023.
	Sandeep Kumar, Arun Solanki, A Natural Language Processing System using CWS Pipeline for Extraction of Linguistic Features, Procedia Computer Science, Volume 218, 2023, Pages 1768-1777,
	Shreya Ganga and Arun Solanki. 2022. A Sentimental Analysis System Using Zero-Shot Machine Learning Technique. In Proceedings of the 2022 Fourteenth International Conference on Contemporary Computing (IC3-2022). Association for Computing Machinery, New York, NY, USA, 334–341. https://doi.org/10.1145/3549206.3549266

Dr. Vidushi Sharma	Neeti Gupta, Vidushi Sharma, "A Stochastic Model for performance evaluation of hybrid network architectures of IoT with an improved design" Published in IETE Journal of Research, Taylor & Francis, 1-15, 14 Feb 2023, DOI: 10.1080/03772063.2023.2173666 (SCI INDEXED, IMPACT FACTOR: 1.7)
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	Joshi, G., Sharma, V "A robust and trusted framework for IoT networks". J Ambient Intelligence Humanized Computing 14, 9001–9019 (2023). <a href="https://doi.org/10.1007/s12652-022-04403-w">https://doi.org/10.1007/s12652-022-04403-w</a> . SCI-E, Scopus Indexed, Publisher-Springer.
	Joshi, G., Sharma, V "Hidden Markov Trust for Attenuation of Selfish and Malicious Nodes in the IoT Network". Wireless Personal Communication 128, 1437–1469 (2023). <a href="https://doi.org/10.1007/s11277-022-10007-6">https://doi.org/10.1007/s11277-022-10007-6</a> . SCI-E, Scopus Indexed, Publisher-Springer
	Joshi, G., Sharma, V "Hidden Game Theory Based Trust strategic approach for trustworthy communication in Internet of Things". International Journal of Sensor Networks,) Volume 41, No. 2, pp 97–113 (2023), <a href="https://doi.org/10.1504/ijnsnet.2023.129639">https://doi.org/10.1504/ijnsnet.2023.129639</a> SCI-E, Scopus Indexed, Publisher-Inder science.
Dr. Aarti Gautam Dinker	Joshi, G., Sharma, V "Coded cooperative trust derivation for internet of things". International Journal of Internet Technology and Secured Transactions, Vol. 12, No. 6, pp 517-542 (2022). <a href="https://doi.org/10.1504/IJITST.2022.126461">https://doi.org/10.1504/IJITST.2022.126461</a> . Scopus, Publisher-Inder science
	Rajnesh Singh, Neeta Singh, Aarti Gautam Dinker et al. An Improved iNewRenoTCP Protocol for Mobile Adhoc Networks, 14 March 2023, PREPRINT (Version 1) available at Research Square [ <a href="https://doi.org/10.21203/rs.3.rs-2257643/v1">https://doi.org/10.21203/rs.3.rs-2257643/v1</a> ].
	Roopak Krishna & Aarti Gautam Dinker, Comparative Analysis of Network Intrusion Detection Systems And Mechanisms, presented in National Conference on Legacy of Information Communication Technology Innovations and Cybersecurity (LICTIC-2023) JAN 19-20, 2023.



## 7.2.9 Seminars/Conferences/Workshops/Extension Lectures

Conferences	
Dr. Arun Solanki	2nd Online International Conference on Artificial Intelligence and Sustainable Computing for Smart Cities (AIS2C2), (21-22, December, 2022, India)
	<a href="https://www.aiscindia.co.in/">https://www.aiscindia.co.in/</a>
	Online link of event: <a href="https://www.youtube.com/watch?v=pZsiqv9La_Y">https://www.youtube.com/watch?v=pZsiqv9La_Y</a>
	<a href="https://www.youtube.com/watch?v=rUBoN4NDWBs">https://www.youtube.com/watch?v=rUBoN4NDWBs</a>
Seminars/ Workshops	
Dr. Neeta Singh	<b>1st Online National Conference On Legacy of Information Communication Technology Innovations and Cybersecurity (LICTIC-2023 ) JAN 19-20, 2023</b>
	<b>Mentor Google Developer Student Club</b>
	· Workshop on Offensive Security/ Ethical Hacking on 22nd April, 2022
Training Programmes	
Dr. Neeta Singh	NITTTR sponsored short term course on Machine Learning using Python through ICT 28.3.22-1.04.22
Expert Lectures	
Dr. Anurag Singh Baghel	1. Organized Expert Lecture by ST Microelectronics on 9 November 2022 at Auditorium at School of Management.
	2. As a part of ST Microelectronic, DevOps session was orchestrated on 21 February 2023
Hackathons	
Dr. Anurag Singh Baghel	1. Organized Hackathon in Collaboration with <b>UNESCO INDIA AFRICA HACKATHON 2022</b>
	No. of students participated: 79
	Date: 22nd -25th November 2022
	2. Hosted Tech-a-thon 3.0 with a participation of over 900 attendees on September 24th - 25th, 2022.
Seminars/events conducted by DECE	
	<ul style="list-style-type: none"> <li>• Seminar on "How drones will bring big disruptions in industry, 10th March, 2022 by Mr. Aakash Sinha, CEO &amp; Founder Omnipresent Robot Technologies Pvt. Ltd.</li> <li>• Workshop on Offensive Security/ Ethical Hacking on 22nd April, 2022</li> <li>• National Technology Day Seminar, 11th May, 2022</li> <li>• One week STC on Machine Learning Using Python (Online Mode) (From 28/03/2022 to 01/04/2022) OPlan No. ICT-177 Organized by CSE Department,</li> <li>• NITTTR Chandigarh and School of Information Communication Technology.</li> </ul>

Other School Events	
Dr. Anurag Singh Baghel	1. Collaboratively Arranged Quantum Machine Learning Workshop on July 5th, 2022. The session was jointly coordinated by iNeuron.ai.
	2. Facilitated a project mentorship initiative in collaboration with STMicroelectronics. This flagship project mentorship program was a collaboration between GBU and STMicroelectronics, designed exclusively for GBU students for 6 months (November 2022- April 2023)
Dr. Aarti Gautam Dinker	1. Worked as organizer in Hackathon in Collaboration with UNESCO INDIA AFRICA HACKATHON 22nd -25th Nov. 2022
	2. 1st Online National Conference on Legacy of Information Communication Technology Innovations and Cybersecurity (LICTIC-2023) 19th - 20th JAN, 2023
	3. WOW- Google Developer Student Club, Delhi NCR, 1st April 2023
	4. Worked as organizer in "Swami Vivekanand Youth Empowerment Scheme" smartphones and tablets distribution program facilitated by UPDESCO, held on 14th March 2023 in GBU

### 7.2.10 Books

S. No	Title of the Book/ Journal	Publisher (with city /country) & Year of Publication	ISBN/ISSN
1	Smart Computing and Self-adaptive Systems	Publication date 2021/12/19 Publisher CRC Press	Book ISBN9781003156123
2	Cancer Prediction for Industrial IoT 4.0: A Machine Learning Perspective	CRC Publication, 2021/12/30, Publisher CRC Press	Press date- eBook ISBN9781003185604
3	Advanced AI techniques and applications in bioinformatics	CRC Publication 2021/10/17 Publisher CRC Press	Press date eBook ISBN9781003126164

### 7.2.11 Extra-Curricular Activities

- Online Alumini Meet - June, 2021. More than 500 students participated
- Code chef Chapter for doing Coding competition started from 24th August, 2021
- Code Fellas Hackathon - 13th December - 15th December, 2022.
- School of ICT with Newton School done Online Coding Competition on 28th January, 2022.
- School of ICT with Frienducation done a Coding Competition on 13th February, 2022



- One month long Research by Learning Hackathon - 15th February, 2022 - 14th March, 2022.
- STPI Bhopal organized Chunauti 3.0 awareness Seminar for School of ICT, 17th March, 2022.
- Web Designing Contest "Creators" - 6th - 12th April, 2022
- Summer Internship for 43 students conducted under Centre of Excellence - Drone Technology, June - July, 2022
- IPR Awareness Session, NIC, 24th February 2022
- Research by learning Hackathon 17 Feb 2022 to 17 April 2022
- Web designing contest from 6 April-12 April 2022
- A talk session on coding and internship by Friienducation start up on 12 April 2022
- Workshop on offensive security /Ethical hacking on 22 April 2022
- Code matrix 2.0 coding contest by Codechef on 29 May 2022
- Technical poster making competition by IEEE, IETE and spoken tutorial on 25 June 2022

#### 7.2.12 Awards

- Dr. Neeta Singh WOMEN EMPOWERMENT AWARD-2022 from Social Development Federation UP 2021-2022.
- Dr. Arun Solanki Best Academician of the Year Award, Sems Welfare Foundation on 09 April 2022.

#### 7.2.13 Any other Information

##### **Drone Center Related**

##### **Dr Rajesh Mishra**

We plan to start a Training and Certification course in Drone Designing and Piloting. Two MoU signed with Omnipresent Robot Tech and IASC Sector Skill Council.

##### **RAMS Center Related**

##### **Dr Vidushi Sharma**

- To conduct research & develop solutions in the areas namely Railway signaling, Telecom & Optical Fiber technology, RAMS, Rolling Stock, Rolling Stock, Traction, Air conditioning/ Tunnel Ventilation, Power Supply Systems, Electrical & Mechanical Services, Station design & Construction, Concrete Technology, Automatic fare
-

collection system, Fare & Non-fare Box Revenue, Passenger Tariff, etc.

- To assign a contract research project, if any to be conducted at GBU for Indian Railways.
- To provide internships access for training in railways for the students pursuing then programs related to railways, metro rail, and allied programs.
- The key objectives of the center for Rapid and Alternative Energy Mobility are:
- To run various programs of different durations in the discipline of metro rail engineering and management, and other verticals in the area of rapid and alternative energy mobility.
- To undertake collaborative research in the area of rapid and alternative energy mobility.
- To undertake contract research for the related organizations at Gautam Buddha University.
- To conduct training programs for the executives and employees of NMRCL at GBU.
- To allow reciprocal access for education training and research into each other's infrastructure equipment, R&D, and training facilities.
- To develop industry consortium and conduct university-industry round tables by involving and invoking cooperation from various stack holders namely, Indian railways and hardware manufacturers.

### **Cognitive Center Related**

Dr Arun Solanki

### **VISION & GOALS**

- The vision of the Center for Cognitive Computing is to promote learning and research in the field of Cognitive Computing. The research community should be able to exchange ideas and become accustomed to the field through formal interactions with experts of the domain. The center should work as a bridge between different departments, labs, and researchers to make new contributions to the field. Also, the center should provide a channel to bring projects and fundings from Government and Private Sectors.
- The Center Goal is to provide a platform to the students, faculty, and researchers to work together and initiate teaching and research activities in the area to unveil various concepts and tools. The center will provide a common ground research community to discover challenges and possible solutions in computer vision. Teaching and learning will be the backbone of the future research activities,



which would involve all stake holders.

**The proposed Center contributes as follows:**

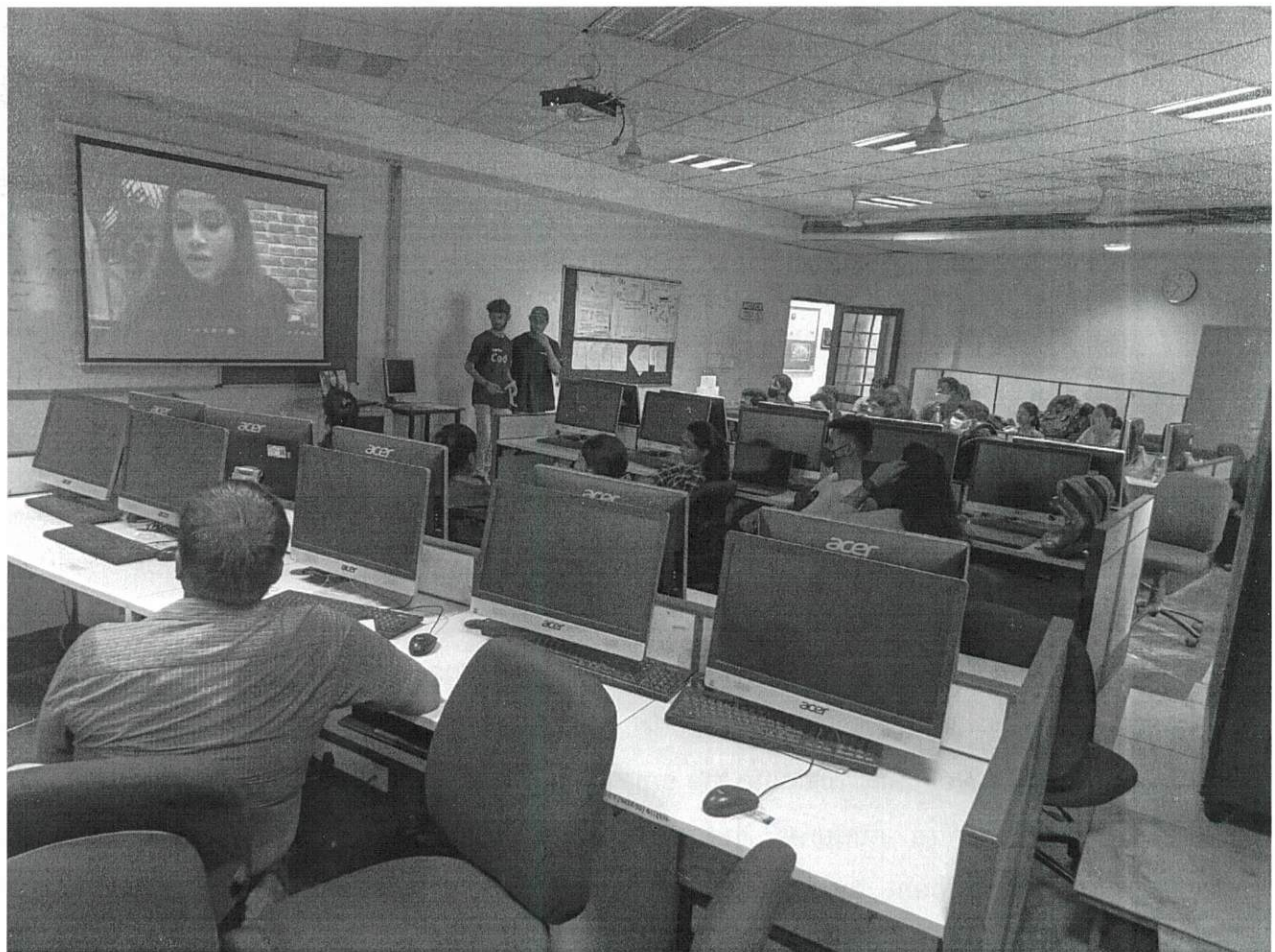
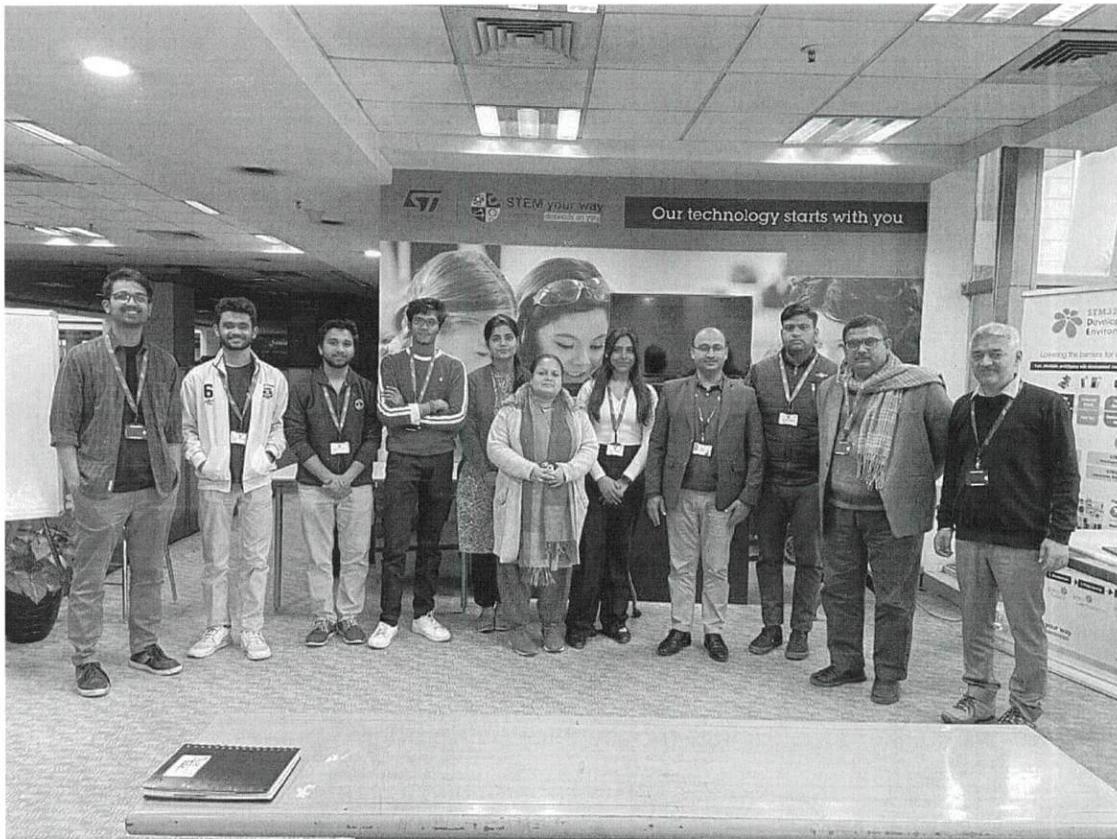
- In an enhancement of quality education provided by the Institute with emphasis on domain specific expertise.
- Grooming and nurturing young talent willing to work in the field and facilitate with ample opportunities and guidance.
- In promoting research through investigating existing problems that can be solved with available tools and application in Cognitive Computing.
- In identification of the problems where cognitive computing could serve as one of the best solutions.

**The proposed Center will have the capacity to:**

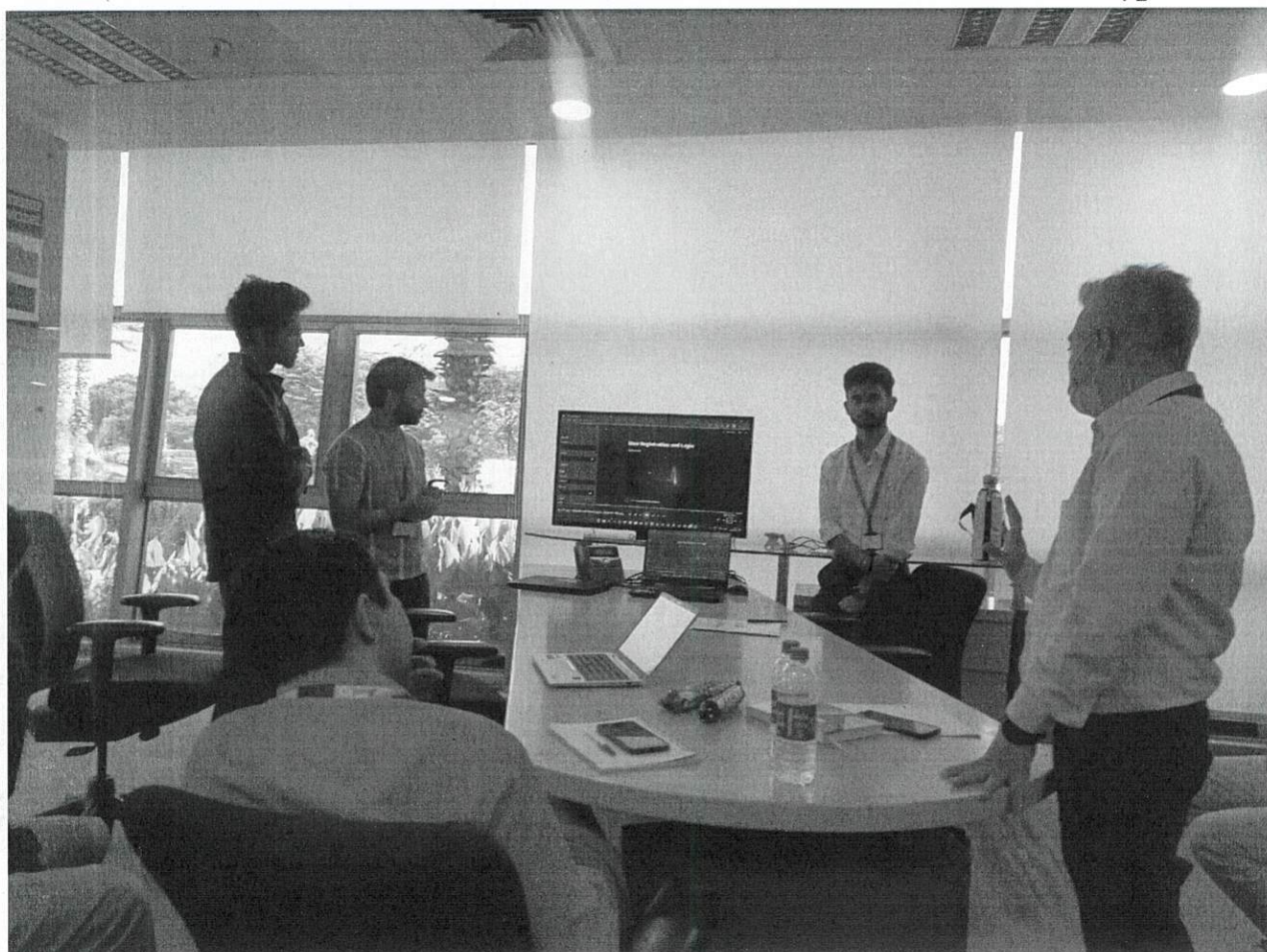
- Establish infrastructure mostly through research funding.
- Leverage campus and state collaborations to that each benefits the other.
- Provide seamless support between and among student service areas (including advising, tutoring, counselling, etc.), productivity involving both staff and faculty in the area.
- Expand into new and emerging technologies.
- Collaborate with faculty, staff, students, community-based teaching, learning, and scholarships, thereby helping to strengthen such efforts and generating new models.
- Event Organised: <https://www.aiscindia.co.in/>

**CoE for Cyber and Information Security Applications**

- Centre of Excellence- Cyber and Information Security Applications (CoE-CISA)
  - We plan to start a Training, Certification and diploma course in Cyber Security.
  - CoE-CISA aims to upskill the cyber security knowledge and preparedness towards creating a secure and trusted cyberspace.
  - The main objective is to prepare multifaceted cyber security professionals who can prevent and mitigate the emerging cyber security attacks.
  - The centre nurtures the culture of cyber security awareness and skill enhancement by conducting workshops/events/short term courses etc. to achieve safer cyber space.
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### 7.3 School of Biotechnology

#### 7.3.1 About the School of Biotechnology

The School of Biotechnology is in a state-of-the-art building which incorporates both teaching and research facilities. The entire school building, including the lecture halls, teaching and research laboratories and school library are centrally air-conditioned and equipped with round the clock internet connectivity. Students here are educated in classical as well as modern biotechnology using the latest pedagogy techniques and also provided opportunity of hands-on laboratory training. Biotechnology combines disciplines like genetics, molecular biology, biochemistry, microbiology, immunology, and cell biology, which are in turn linked to practical disciplines like bioengineering, information technology and biorobotics.

The School of Biotechnology emphasizes on Biotechnology education programme with an impetus to generate a workforce that could turn into a substantially trained pool to meet the country's demands. The school is dedicated to provide quality service through teamwork, partnerships and developing team and individual strengths. Patenting of innovations, technology transfer to industries and close interaction with them have given a new direction to Biotechnology research in the world today. The school is an active center of basic and applied research and aims to achieve a balance of pure basic, strategic basic, applied and



experimental development research.

### 7.3.2 Academic Programme

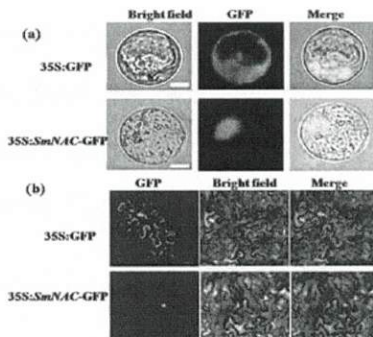
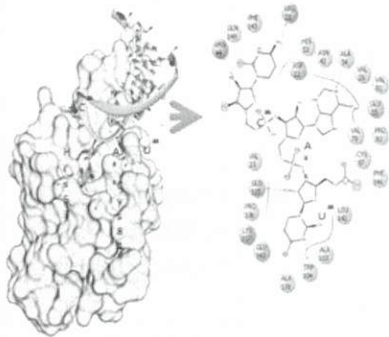
- Int. (B. Tech + M. Tech) Biotechnology
- M.Sc. Biotechnology
- M. Tech Biotechnology
- M.Sc. Molecular medicine
- Ph.D. Biotechnology

### 7.3.3 Admission (Programme wise Number)

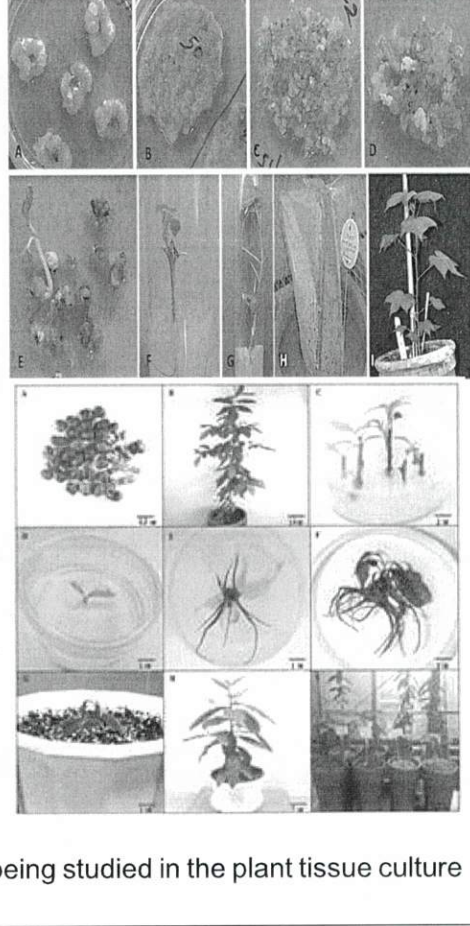
- Int. (B. Tech + M. Tech) Biotechnology: 52
- M.Sc. Biotechnology: 25
- M. Tech Biotechnology: 03
- M.Sc. Molecular medicine: 02
- Ph.D. Biotechnology: 05

### 7.3.4 Laboratories functional

S.No.	Name of the laboratories	Description
1.	Molecular Biology & Fermentation	The molecular biology and fermentation Lab has facilities for the fermentation of various microbes at shake flask as well as reactor level for the production of industrially important bioproducts. The lab is equipped with 7.5 liters capacity of fermenter for the production of both primary and secondary metabolites. Currently, the research work is focus on the optimization and scale up of biosurfactant production from indigenous <i>Lactobacillus</i> probiotics. The research work has also been carried out for the production of bacterial cutinases like enzymes for degradation of plastics.
2.	Drug Discovery & Design Plant Biotechnology	The lab involves the genomics, and genetic engineering of crop plants for improved field traits and resistance to stress conditions. The research is also focused on insilico design and development of drugs for various diseases.
3.	Molecular Medicine	The lab focused on studies on molecular basis of communicable and non-communicable diseases including <i>H. pylori</i> mediated gastric diseases, alternative medicines against antibiotics resistance pathogen, the COPD animal model and to investigate the pathogenesis behind the emphysema by using genomics and proteomics tools, screening of small molecules (Natural and Synthetic compounds) as potential inhibitors of various cancer progression and their mode of action, putative binding sites of various transcription factors onto promoter of genes involved in metabolic diseases/ stress condition etc. Molecular medicine laboratory provides all

		the basic technical facilities for animal cell culture, tissue sectioning, fluorescence microscopic analysis, bacterial culture, DNA/RNA isolation, protein expression and purification.
4.	Genomics & Molecular Diagnostics	<p>The lab has facilities for DNA isolation, purification, protein expression and purification, analysis of affinity purified complexes. The major research areas of lab are genome editing and molecular diagnostics. Currently CRISPR/TALEN mediated genome editing projects are being undertaken in the lab to improve nutritional quality and biotic stress resistance in plants. The team also developed an indigenous RT-PCR based COVID-19 detection system prototype.</p> 
5.	Microbial Biotechnology & Immunology	<p>Microbial Biotechnology and Immunology lab is focused on latest research related to bacterial and fungal pathogenesis. Drug resistance in bacteria is well known and, in the future, it's going to be biggest threat to human beings. In our lab we are deciphering the role of genome encoded Type II toxin-antitoxin (TA) modules in drug resistance using <i>Xenorhabdus nematophila</i> as model organism. Apart from this, we are also interested to understand the role of Type II Toxin-Antitoxins from <i>Pseudomonas aeruginosa</i> in the of development of antibiotic resistance and persister cells formation, which may be used as novel targets to overcome multidrug resistance developed in <i>P. aeruginosa</i>. Recently World Health Organization (WHO) has released the high priority fungal infection list threatening for human being and <i>Candida auris</i> is one of them. In our lab we are interested to understand the role TOR signaling in <i>Candida auris</i> infection using various molecular biology tools.</p>
6.	Structural Biology	<p>Multidrug drug resistance (MDR), is antimicrobial resistance of a microbial species to at least one antibiotic from three or more antimicrobial categories. The antimicrobial category is a classification of antimicrobial agents based on their mechanism of action and is specific to the target organism. The MDR types that pose the greatest threat to public health are MDR bacteria that are resistant to multiple antibiotics. One of the promising ways to tackle MDR is developing drugs gaint novel microbial targets. are working to explore new drug targets from bacterial origin such as <i>Pseudomonas aeruginosa</i> and <i>Mycobacterium tuberculosis</i>. We are characterizing tRNA modifying enzymes such as dihydrouridine synthases and adenosine deaminases from bacteria in order to be used as targets for design and development of novel categories of antibiotics.</p> 



7.	Plant tissue culture Lab	<p>A Plant Tissue Culture Lab gives the power of developing big wide variety of remote cells or tissues beneath sterile and managed situations acquired from any a part of the plant like stem, root, leaf etc. that are endorsed to supply greater cells in lifestyle and to explicit their totipotency (i.e., their genetic ability to produce greater flowers). Cells or tissues are grown in unique styles of glass vials containing a medium with mineral nutrients, nutrients and phytohormones. Tissue Culture strategies are being exploited on this laboratory to multiply flowers that are tough to propagate through conventional methods. Various projects on crop improvements on cotton, mustard, tobacco etc are being implemented in the laboratory. Micro propagation of vitex species and gene silencing studies in egg plant is also currently being studied in the plant tissue culture laboratory.</p>	
8.	Bio Safety Level-2	<p>BSL-2 laboratories are used to study moderate-risk infectious agents or toxins that pose a risk if accidentally inhaled, swallowed, or exposed to the skin. This laboratory provides the basic facilities for the culture of mild pathogens might include bacteria, viruses, cell cultures, parasites, or particular types of fungi following standard operating procedure. BSL-2 includes Biosafety cabinet level-2, centrifuge, dedicated autoclave etc.</p>	
9.	Bioremediation	<p>Bioremediation can be defined as any process that uses microorganisms, fungi, green plants or their enzymes to return the environment altered by contaminants to its original condition. The main approaches for developing bioremediation include biostimulation, bioaugmentation, bioventing, biopiles, and bioattenuation. This Lab provides the basic facilities for aerobic and anaerobic culture condition for the growth of microorganisms.</p>	
10.	Basic laboratory I & II	<p>Develop protocols and procedures for experiments, data recording, and record-keeping. Proper documentation is essential for research integrity and reproducibility.</p> <p>Provide training for laboratory personnel, including MSc students, on equipment usage, safety protocols, and laboratory procedures. Ensure that everyone is familiar with emergency procedures.</p>	

## 7.3.5 RDCs held in the session 2021-2022

S. No.	Date	Roll/Reg.No.	Candidate	Approved Title	Supervisor
1.	17 <sup>th</sup> May 2022	BT/Ph.D./2020/002	Bhawna Solanki	Functional Characterization of HP0522 (Cag5) of <i>Helicobacter pylori</i> Cag-Type 4 Secretion System	Dr Navin Kumar
2.	14 <sup>th</sup> May 2022	BT/PhD/2020/003	Garima Gangwar	Understanding the TOR-mediated signalling and its impact on growth of <i>Candida auris</i>	Dr Rekha Puria
3.	14 <sup>th</sup> May 2022	BT/Ph.D/2020/004	Garima Singh	Study of Chromosomal encoded type-II <i>yefM-uoaeB</i> Toxin-antitoxin module from <i>Xenorhabdus nematophila</i>	Dr Jitendra Singh Rathore
4.	14 <sup>th</sup> May 2022	BT/PhD/2020/005	Himanshi Gupta	Identification of potential antagonists and novel therapeutic targets for neurodegenerative disorders	Dr Shakti Sahi
5.	14 <sup>th</sup> May 2022	BT/PhD/2020/007	Km. Shivangi	Potential therapeutic effect of curcumin in bleomycin-induced pulmonary fibrosis	Dr Jai Prakash Moyal
6.	14 <sup>th</sup> May 2022	BT/PhD/2020/011	Samvedna singh	Identification of prognostic biomarkers and potential drug targets in sporadic pancreatic cancer through multi-omics approach.	Dr Shakti Sahi
7.	14 <sup>th</sup> May 2022	BT/PHD2020/012	Shweta Chaudhary	To Study the effects of some additives on micropropagation of endangered medicinal plant: <i>Vitex negundo</i> (L.) and assess their genetic fidelity using RAPD markers	Dr Gunjan Garg



## 7.3.6 Research and Development: (Papers published in refereed journals)

S. No	Name of Faculty Member	Name of Authors	Title of Paper	Journal Name	Publisher	Vol.	Year	Pages Start-End
1.	Dr. Nagendra Singh	Chandra A, Gurjar V, Qamar I, Singh N.	Exploring inhibitor of SARS-CoV2 replicase from FDA approved drugs using insilico drug discovery methods.	J Biomol Struct Dyn. J Biomol Struct Dyn.	Taylor & Francis	40	2022	5507-14
2.	Dr. Nagendra Singh	Chandra A, Ananda H., Qamar I, Singh N.	Identification of a novel and potent small molecule inhibitor of SRPK1: mechanism of dual inhibition of SRPK1 for the inhibition of cancer progression	Aging (Albany NY).	Impact Journals	13	2021	163-180.
3.	Dr. Nagendra Singh	Chandra A, Chaudhary M, Qamar I, Singh N, Nain V. (2022)	In silico identification and validation of natural antiviral compounds as potential inhibitors of SARS-CoV-2 methyltransferase	J Biomol Struct Dyn.	Taylor & Francis	40	2022	6534-6544.
4.	Dr. Bhupendra Chaudhary	Aggarwal, A., Arora, S., Khuman, A., Singh, K., Kumar, V., Chaudhary, B	Comparative evolutionary dynamics of the 5'cis-regulatory elements (CREs) of miR167 genes in diploid and allopolyploid cotton species	Plant Gene	Elsevier	32	Dec 2022	-
5.	Dr. Bhupendra Chaudhary	Chaudhary, B. and Kumar, V.	Emerging technological frameworks for the sustainable agriculture and environmental management	Sustainable Horizons	Elsevier	3	Sep 2022	-
6.	Dr. Bhupendra Chaudhary	Khuman, A., Kumar, V., and Chaudhary, B	Evolutionary expansion and expression dynamics of cytokinin-catabolizing CKX gene family in the modern amphidiploid mustard ( <i>Brassica</i> sp.)	3 Biotech	Springer Nature	12	Aug 2022	-
7.	Dr. Bhupendra Chaudhary	Pandey, D.K., Kumar, V. and Chaudhary, B.	Concomitant expression evolution of cell wall cytoskeletal geneic triad(s) controls floral organ shape and fiber emergence in cotton ( <i>Gossypium</i> )	Frontiers in Plant Science	Frontiers Media	13	May 2022	-
8.	Dr. Bhupendra Chaudhary	Pandey, D.K., Chaudhary, B	Transcriptional loss of domestication-driven cytoskeletal GhPRF1 gene causes defective floral and fiber development in cotton ( <i>Gossypium</i> )	Plant Molecular Biology	Springer Nature	107	Oct2 021	519-532

9.	Dr. Rekha Puria	Biswas, B., Gangwar, G., Nain, V., Gupta, I., Thakur, A., & Puria, R	Rapamycin and Torin2 inhibit <i>Candida auris</i> TOR: Insights through growth profiling, docking, and MD simulations	Journal of biomolecular structure & dynamics	Taylor and Francis	-	Oct 2022	-
10.	Dr. Rekha Puria	Shilpa Pal, Sachin Tiwari, Rekha Puria, Vikrant Nain & Rajendra Prasad Pathak	Impact of ureolytic and nonureolytic bacteria on self healing of artificial cracks in biofortified concrete	Advances in Materials and Processing Technologies	Taylor and Francis	-	Jul 2021	841-860
11.	Dr. Barkha Singhal	Saini, S., Kumar, A. Singhal, B., Kuhad, R.C., Sharma, K.K.	Fungal oxidoreductases and CAZymes effectively degrade lignocellulosic component of switchgrass for bioethanol production	Fuel	ELSEVIER	328	Nov 2022	-
12.	Dr. Barkha Singhal	Pandey, M., Bhati, A., Kumari, P., Sharma, K.K., Singhal, B.	Precision postbiotics and mental health: the management of post-COVID-19 complications, Journal of Probiotics and antimicrobial proteins	Probiotics and Antimicrobial Proteins	Springer Science+Business Media	14	Nov 2021	426-448
13.	Dr. Nagendra Singh	Chandra A, Gurjar V, Ahmed MZ, Alqahtani AS, Qamar I, Singh N	Exploring potential inhibitor of SARS-CoV2 replicase from FDA approved drugs using insilico drug discovery methods	Biomolecular Structure and Dynamics	Taylor and Francis	40	Aug 2022	5507-5514
14.	Dr. Imteyaz Qamar	Kumari S, Ali MS, Singh J, Arora M, Verma D, Pandey AK, Benjamin M, Bakhshi S, Palanichamy JK, Sharma A, Singh I, Tanwar P, Singh AR, Pushpam D, Qamar I, Chopra A	Prognostic utility of key copy number alterations in T cell acute lymphoblastic leukemia	Hematological Oncology	Wiley Online Library	-	May 2022	-
15.	Dr. Imteyaz Qamar	Singh T, Banerjee P, Udit, Kumari S, Chopra A, Singh N, Qamar I	Expression of Regucalcin, a calcium-binding protein is regulated by hypoxia-inducible factor-1 $\alpha$	Life Sciences	ELSEVIER	292	Mar 2022	-



16.	Dr. Deepali Singh	Sirohi U, Mukesh Kumar, Sharma VR, Teotia S, Singh D, Chaudhary V, Priya, Yadav MK	CRISPR/Cas9 System: A Potential Tool for Genetic Improvement in Floricultural Crops	Molecular Biotechnology	Springer Science + Business Media	64	Dec 2022	1303-1318
17.	Dr. Deepali Singh	Chaudhary A, Singh D	In-silico analysis of the regulatory region of effector protein genes in <i>Verticillium dahliae</i>	Gene Reports	Elsevier BV	27	June 2022	-
18.	Dr. Deepali Singh	Chaudhary A, Teotia S, Singh D.	Tools for engineering resistance against pathogens in plants	Journal of Biochemistry and Biotechnology	Springer	31	Jan 2022	459-488
19.	Dr. Shakti Sahi	Kaushik AC, Sahi S, Wei DQ	Computational Methods for Structure-Based Drug Design Through System Biology	Methods in Molecular Biology	Humana Press	2385	Dec 2021	161-174
20.	Dr. Jitendra Singh Rathore	Mishra S, Arsh AM and Rathore JS	Trained Innate Immunity and Diseases: Bane with the Boon	Clinical Immunology Communications	ELSEVIER	2	Decr 2022	118-129
21.	Dr. Jitendra Singh Rathore	Yadav M, Rathore JS	In-silico analysis of genomic distribution and functional association of hipBA toxin-antitoxin (TA) homologs in entomopathogen <i>Xenorhabdus nematophila</i>	Journal Asia-Pacific Entomology	ELSEVIER	25	Sep 2022	-
22.	Dr. Jitendra Singh Rathore	Chaudhary S, Yadav M, Mathpal S, Chandra S and Rathore JS	Genomic assortment and interactive insights of the chromosomal encoded control of cell death (ccd) toxin-antitoxin (TA) module in <i>Xenorhabdus nematophila</i>	Journal of biomolecular structure & dynamics	Taylor and Francis	-	Aug 2022	-
23.	Dr. Gunjan Garg	Bhati S, Garg G, Dwivedi S, Yadav S K and Kumari P	Effect of salinity on biochemical components of the egg plant ( <i>Solanum melongena</i> )	The Indian Journal of Agricultural Sciences	Indian Council of Agricultural Research	91	2022	-
24.	Dr. Gunjan Garg	Bharadwaj A, Rashi A and Garg G	Evaluation of phytochemical and antibacterial properties of leaf extract of <i>Cinnamomum tamala</i> oil	Journal of Experimental Biology and Agricultural Science	Editorial board of Journal of Experimental Biology and Agricultural Sciences	10	April 2022	-

25.	Dr. Gunjan Garg	Singh V, Wahi N, Garg G, Singh A and Bhadauria S	Ecological and genetical diversity of black fungus- <i>Aspergillus</i> sp. Inhabiting stone monuments of Mughal dynasty in Agra (UP) analysed by RAPD method	Archives of phytopathology and Plant Protection	Taylor and Francis	55	March 2022	-
26.	Dr. Gunjan Garg	Garg G, Soni S, Yadav S K and Kumari P	Mutagenic efficiency of gamma rays on in vitro regeneration in Indian mustard ( <i>Brassica juncea</i> )	The Indian Journal of Agricultural Sciences	Indian Council of Agricultural Research	92	Jan 2022	136-9
27.	Dr. Gunjan Garg	Singh V, Wahi N, Garg G and Singh A	Amplified fragment length polymorphism based genetic diversity of tropical legume: <i>Lab-lab purpureus</i> var. <i>typicus</i> , Legume Research	-	-	1	2022	-
28.	Dr. Vishwas Tripathi	Arsh Mohammad Amir, Mishra Suhana, Tripathi Vishwas *, Mishra Amaresh	Cytokine Storm and Immunomodulation in COVID-19: A Review	Coronavirus uses Pathogenic Microorganisms	Bentham Science	3	2022	-
29.	Dr. Vishwas Tripathi	Mishra Amaresh, Qais Abul Faizan, Pathak Yamini, Camps Ihosvany and Tripathi Vishwas*	Triamcinolone as a potential inhibitor of SARS-CoV-2 main protease and cytokine storm: An in-silico study	Letters in Drug Design & Discovery	Bentham Science	19	Aug 2022	-
30.	Dr. Vishwas Tripathi	Ali, S., Singh, V., & Tripathi, V.	Microwave assisted synthesis of heterocyclic metal complexes and evaluation of their in vitro anticancer activity against oral cancer cells, antioxidant and molecular docking study	Indian Journal of Chemistry	NIScPR-CSIR, India	61	Apr 2022	385-391
31.	Dr. Vishwas Tripathi	Mishra, A., Suman, K. H., Nair, N., Majeed, J., & Tripathi, V	An updated review on the role of the CXCL8-CXCR1/2 axis in the progression and metastasis of breast cancer	Molecular Biology Reports	Springer Science+Business Media	48	Aug 2021	6551-6561
32.	Dr. Vishwas Tripathi	Pathak, Y., Mishra, A., Choudhri, G., Kumar, A., & Tripathi, V.	Rifampicin an Letermovir as potential repurposed drug candidate for COVID-19 treatment: insights from an in-silico study	Pharmacological Reports	ELSEVIER	73	May 2021	926-938



33.	Dr. Vishwas Tripathi	Mishra, A., Pathak, Y., Kumar, A., Mishra, S. K., & Tripathi, V.	Natural compounds as potential inhibitors of SARS-CoV-2 main protease: An in-silico study	Asian Pacific Journal of Tropical Biomedicine	Wolters Kluwer Medknow Publications	11	Mar 2021	155-163
34.	Dr. Navin Kumar	Bansala R, Kumar N* (2021),	"The pro-oncogenic role of CagA in Helicobacter pylori infected patients",	International Journal of Research and Analytical Reviews (IJRAR),			2021	
35.	Dr. Navin Kumar	Prusty D, Gupta N, Upadhyay A, Dar A, Naik B, Kumar N, Prajapati VK	Asymptomatic malaria infection prevailing risks for human health and malaria elimination.	Infect Genet Evol.			2021	

### 7.3.7 Details of Book/Book Chapters published

#### a). Details of book published

Year	Name of the Faculty Member	Title of Book	ISBN No.	Publisher
2021-22	Dr. Nagendra Singh	Current Developments in the Detection and Control of Multi Drug Resistance Introduction	ISBN: 978-981-5049-88-6, eISBN: 978-981-5049-87-9 (Online)	Bentham Science Publishers
	Dr. Imteyaz Qamar	Cardiovascular toxicity and therapeutic modalities targeting cardio-oncology: From basic research to advanced study.	ISBN: 9780323904612.	Elsevier Inc. USA
	Dr. Imteyaz Qamar	Novel therapeutic approaches targeting oxidative stress.	<a href="https://doi.org/10.1016/C2020-0-03485-7">https://doi.org/10.1016/C2020-0-03485-7</a>	Elsevier Inc. USA

#### b). Book Chapters Published

Year	Name of the Faculty Member	Title of Book	ISBN No.	Publisher
2021-2022	Dr. Barkha Singhal	Blockchain technology in biomanufacturing: Current perspective and future challenges: Blockchain technology for Emerging applications: A comprehensive Approach, (Chapter 8) <a href="https://www.sciencedirect.com/science/article/pii/B9780323901932000077">https://www.sciencedirect.com/science/article/pii/B9780323901932000077</a>	ISBN: 978-0-323-90193-2  ISBN: 978-3-031-17928-0 eBook ISBN978-	Elsevier   Springer

	Applications of machine learning in Bioprocess Engineering: Current developments and Future Prospects.in Nature inspired Algorithms for Engineering (Chapter 13) (In press)	3-031-17929-7	
Dr. Imteyaz Qamar	<p>Novel Anticancer drugs related to Cardiotoxicity. In book: Cardiovascular Toxicity and Therapeutic Modalities Targeting Cardio-oncology From Basic Research to Advanced Study Pg. 195-213 Link: <a href="https://doi.org/10.1016/B978-0-323-90461-2.00006-7">https://doi.org/10.1016/B978-0-323-90461-2.00006-7</a></p> <p>Nanobiomaterials in biomedicine: Designing approaches and critical concepts. In book: Nanobioanalytical Approaches to Medical Diagnostics. Link: <a href="https://doi.org/10.1016/B978-0-323-85147-3.00010-4">https://doi.org/10.1016/B978-0-323-85147-3.00010-4</a></p> <p>Biochemical approaches/methods in detection of freeradicals. In book: Novel Therapeutic Approaches Targeting Oxidative Stress.Pg. 171 to 198 Link: <a href="https://doi.org/10.1016/B978-0-323-90905-1.00009-2">https://doi.org/10.1016/B978-0-323-90905-1.00009-2</a></p> <p>Insights into the technological and nutritional aspects of lactic milk drinks- Buttermilk. In book: Advances in Dairy Microbial Products Pg. 93- 103 Link: <a href="https://doi.org/10.1016/B978-0-323-85793-2.00002-3">https://doi.org/10.1016/B978-0-323-85793-2.00002-3</a></p> <p>Critical insights into cardiotoxicity of anthracyclines. In book: Cardiovascular Toxicity and Therapeutic Modalities Targeting Cardio-oncology From Basic Research to Advanced Study Pg. 103- 112 Link: <a href="https://doi.org/10.1016/B978-0-323-90461-2.00009-2">https://doi.org/10.1016/B978-0-323-90461-2.00009-2</a></p>	<p>ISBN:9 7 8 - 0 - 3 2 3 - 9 0 4 6 1 - 2</p> <p>eBook ISBN: 978-0-323-90462-9</p> <p>Paperback ISBN: 9780323851473</p> <p>eBook ISBN: 9 7 8 - 0 - 3 2 3 - 8 5 1 6 5 - 7</p> <p>ISBN: 9780323909051</p> <p>eBook ISBN: 9780323909068</p> <p>ISBN/GTIN: 978-0-323-85793-2</p> <p>ISBN:9 7 8 - 0 - 3 2 3 - 9 0 4 6 1 - 2</p> <p>eBook ISBN: 978-0-323-90462-9</p>	<p>Elsevier</p> <p>Elsevier</p> <p>Elsevier</p> <p>Woodhead</p> <p>Elsevier</p>
Dr. Navin Kumar	<p>Nanoparticles-based immunoassays for early and rapid detection of HIV and other viral infections. (Chapter 8), Book Title: Nanotechnological applications in virology Pg173-189 Link:<a href="https://www.elsevier.com/books/nanotechnological-applications-in-virology/rai/978-0-323-99596-2">https://www.elsevier.com/books/nanotechnological-applications-in-virology/rai/978-0-323-99596-2</a></p> <p>Cardiovascular complication from cancer therapy. (Chapter 10), Book title: Cardiovascular toxicity and therapeutic modalities targeting cardio-oncology pg-165-185. <a href="https://www.elsevier.com/books/cardiovascular-toxicity-and-therapeutic-modalities-targeting-cardio-oncology/rai/978-0-323-90461-2">https://www.elsevier.com/books/cardiovascular-toxicity-and-therapeutic-modalities-targeting-cardio-oncology/rai/978-0-323-90461-2</a></p>	<p>ISBN 978-0-323-99596-2</p> <p>ISBN 978- 0-323-90461-2</p>	<p>Elsevier</p> <p>Elsevier</p>



		<a href="#">oncology/qamar/978-0-323-90461-2</a>		
Dr. Nisha Gaur	<p>Nanoencapsulation for chemical intermediate, biocides and bio-based binder. In: Smart Nanomaterials for bioencapsulation..Pg. 267 to 29 Link:<a href="https://www.sciencedirect.com/science/article/pii/B9780323912297000167">https://www.sciencedirect.com/science/article/pii/B9780323912297000167</a></p> <p>Biomagnetic separation of nanomaterials and its application. In: Nanomaterials for bioreactor and bioprocessing application (chapter 7)</p> <p>Nanoencapsulation for production of fermented foods and pigments. In: Smart Nanomaterials for bioencapsulation. Pg. 237- 251. Link: <a href="https://www.sciencedirect.com/science/article/pii/B9780323912297000131">https://www.sciencedirect.com/science/article/pii/B9780323912297000131</a></p> <p>Role and effect of persistent organic pollutants to our environment and wildlife. In Persistent organic pollutants- Monitoring, Impact and Treatment Pg. 19 to 32</p> <p>Bioremediation of organic pesticides using nanomaterials. In nano-bioremediation: fundamentals and applicationsPg. 517 to 540 Link:<a href="https://www.sciencedirect.com/science/article/pii/B9780128239629000246">https://www.sciencedirect.com/science/article/pii/B9780128239629000246</a></p> <p>Nano-bioremediation for environmental Remediation. in Nano-bioremediation: fundamentals and applications.</p>	<p>ISBN: 9780323912297 ISBN: 9780323917827 ISBN: 9780323912297</p> <p>ISBN: 978-1-83968-3 eBook ISBN: 978-1-83968-208-7</p> <p>ISBN: 9780128239629</p> <p>ISBN: 9780128239629</p>	<p>Elsevier</p> <p>Elsevier</p> <p>Elsevier</p> <p>Intech Open</p> <p>Elsevier</p> <p>Elsevier</p>	

- Category: Web Science/ Scopus/ UGC Care/ Other

### 7.3.8 ONGOING PROJECTS

S. No.	Title of the project	Funding Agency	Grant Amount (Rs.)
1	Synergistic Therapeutic Potential of All trans Retinoic Acid and VEGF towards Regeneration of Alveoli in Emphysematous Lung.	SERB	28 lacs
2	Host induced gene silencing (HIGS) of key pathogenicity factors in <i>Verticillium dahliae</i> to enhance resistance in eggplant against wilt disease.	DBT	57 Lacs
3	To decipher the role of genome encoded type II Toxin-Antitoxin (TA) module(s) from	ICMR	55 lacs

	Pseudomonas aeruginosa in antibiotic resistance and persister cell formation.		
4	Structural characterization of tADA enzymes from P. aeruginosa.	ICMR	55 Lacs
5	Prototyping and engineering of Candida Auris TOR pathway in Saccharomyces for identification of potential drug targets and inhibitors.	SERB-DST	61 Lacs
6	Tissue-specific suppression of susceptibility genes for wilt disease resistance in eggplant.	DST-SERB	44 Lacs
7	Development of Isothermal-PCR based rapid and portable coronavirus SARS-CoV-2 (COVID-19) detection kit.	DBT-BIRAC	46 Lacs
8	COVID-19 health awareness program among the top five red zone districts of western Uttar Pradesh.	DST- NCSTC	1.75 lacs

### 7.3.9 Innovation and Patents

Year	Name of the Faculty Member	Title of patent	Status (Awarded / Filed)	Patent No.	Date of award	source of proof
2021-22	Dr. Bhupendra Chaudhary & Sakshi Arora	Method of phenotype regulation of somatic embryogenesis and plant development in cotton	Filed (5th May 2022)	202211026119		

## 7.4 School of Engineering

In accordance with the Vision of the University, School of Engineering has been conceptualized and established with an objective to work out and develop a dependable model for growth, consistency and significant breakthrough in cutting edge technology and innovation. The rapid diffusion of core engineering fields like Civil Engineering, Electrical Engineering, Mechanical Engineering and architecture has the potential of bringing improvement in productivity and efficiency in almost every aspect of our life and consequently turning out to be a key driver of our economic growth. The SoE is committed to prepare technology leaders for tomorrow with our innovative curriculum and meticulous pedagogy for training. The programmes offered are unique in their right and fall in line with international practices. Their efforts travel beyond classrooms and encompass trends and practices through our research and modular training at par with some of the best institutions of national and international repute.

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#### **7.4.1 Programs**

The school has following engineering programmes at UG, PG & PhD levels:

- Architecture Engineering
- Civil Engineering,
- Electrical Engineering
- Mechanical Engineering

### **About the Departments**

#### **7.4.2 Department of Architecture and Regional Planning**

Department of Architecture and Regional Planning is a progressive School of Architecture, with its overarching mission of environmental and Heritage consciousness embedded in the name of the institution. The school seeks to sensitize and equip future architectural design professionals to meet the serious challenges of Sustainable Development and fulfil their roles as responsible practitioners of Green Architecture, Indian Culture, Ethics, Local Crafts in Architecture. In line with this goal, Department of Architecture and Regional Planning engages faculty, industry experts, and researchers from various parts of the world, who provide insight into diverse design approaches and challenges, to inspire students and keep them abreast of best practices in Sustainable Development and Design, Built Environment. Our goal is to adapt an interdisciplinary and transdisciplinary teaching methodology in imparting Architecture Education. We would like to expand our Masters in Architecture with Introduction of M. Arch. in Architecture Pedagogy to explore new paradigms of Architecture Education, M. Arch. in Urban Design to provided solutions for problems at urban level and serve the societal concerns. Starting from past we are trying to develop a research-based approach in

Architecture Education. It would help in developing critical thinking ability of the future professionals. We are trying to embed theory of Design Thinking with its four important parameters of Empathize, Define, Ideate, Prototype and test. In this current semester we are trying to develop a connection between academia and industry by arrangement of various workshops and Expert Lectures. In future we are planning for hands-on workshops to develop the concept of learning by doing. We are also encouraging proposed projects in studios to bridge the gap between theory and practice.

#### 7.4.2.1 Laboratory/Workshop/Training Centres and Facilities

- i. Carpentry Lab
- ii. Model workshop
- iii. Surveying Lab
- iv. Building Material Museum
- v. Climatology Lab
- vi. Construction Yard

#### 7.4.2.2 Achievements/Awards/Accomplishments of the Faculty members

- Ar. Madhuri Agarwal
  1. ESDA Young Researcher Awards (1- 3 October 2021)

#### 7.4.2.3 Conference/Seminar/workshop/MDPs/FDPs conducted

S. No.	Title	Date	Delegates/ Participants
1.	Climate Change Action & Disaster Risk Reduction: Focusing on Urban Communities	March 2nd -4th, 2021	100+ Participants / Delegates
2.	Short Term Training Program on Climate Change Action and Disaster Risk Reduction - organised by Department of Architecture, GBU in collaboration with NIDM Ministry of Home Affairs GOI	2nd-4th March 2021	

#### 7.4.2.4 Extra-Curricular Activities

S. No.	Date	Name of Activity
1	10 March 2022	NASA Winter School Workshop on Space Architecture Attended by Kushik Mishra
2	12 March 2022	पदार्पण –Fresher's 2022



**7.4.2.5 Faculty Development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course)**

Name of the Teacher	Title of the Program	Duration (DD-MM-YYYY)
Ar.Madhuri Agarwal	Executive Development Programme on "Quantitative Tools for Qualitative Research in Planning and Design	6th to 10th Dec 2021.
Ar.Madhuri Agarwal	COA TRC Online Training Programme on Architecture + Design Thinking	21st to 24th Sep,2021.
Ar.Madhuri Agarwal	Certificate of participation for attending Three days Virtual Seminar "Dialogues on Future Generation Expansion of Varanasi Handicraft"	BHU from 28th to 30th September 2021.
Ar.Madhuri Agarwal	online workshop on 'Statistics in Architectural Research	Board of Studies (Architecture), Faculty of Science and Technology from 16th to 20th of August 2021.
Ar.Madhuri Agarwal	AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Natural Ventilation and Building Design in Tropical Regions"	School of Planning and Architecture, Vijayawada, Andhra Pradesh. (An Institute of National Importance under Ministry of Education), from 13/09/2021 to 17/09/2021.
Ar.Madhuri Agarwal	Participated in Webinar 'Disaster Resilient Building Constructions', Organised under the aegis of CSIR Integrated Skill Initiative, CBRI, IIT Roorkee	27.01.21-30.01.21
Ar.Madhuri Agarwal	Swayam Online Course on City and Metropolitan Planning offered by Prof. Dr. Sanjukta Bhaduri of School of Planning and Architecture New Delhi	06 Jan 2021- 19 Apr 2021
Ar.Madhuri Agarwal	International Interdisciplinary Certificate Course on Islamic Architectural Legacy In The Lands of Islam by College of Engineering &Architecture ,Department of Architecture & Interior Design,University of Nizwa Sultanate of Oman And Heritage Foundation, Jalgaon, India	10th to 21st June, 2021
Ar.Madhuri Agarwal	FDP on PEDAGOGY & PRACTICES IN HERITAGE STUDIES,bySahakar Maharshi BhausahebSantujiThorat College Sangamner I.Q.A.C. & History Department In collaboration with Heritage Foundation, Jalgaon	7th to 13th July 2021

Ar.Madhuri Agarwal	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Pedagogical Process in Architecture – An Orientation for Young Teaching Fraternity" School of Planning and Architecture, Vijayawada, Andhra Pradesh. (An Institute of National Importance under Ministry of Education).	12.07.21-16.07.21
Ar.Madhuri Agarwal	MOOC Course on Cultural Heritage in Transformation, by RWTH Aachen University	Self paced Course, 2021
Ar.Madhuri Agarwal	Faculty Development Programme 2021 on "Outcome Based Education: Best Practices in Architecture Education"	Organised by Apeejay School of Architecture and Planning, Greater Noida. 15th - 19th Feb 2021
Ar. Anant Pratap Singh	Online Faculty Development Program (05 days) "Cognitive Skills and Design Thinking".	Gateway college of Architecture, 26 to 30 July 2021
Ar. Anant Pratap Singh	Online Faculty Development Program (05 days), "Expanding role of Architects with the Technological Transformation"	Amity School of Architecture and Planning, Noida, CoA TRC, 29 November to 3 December 2021
Ar. Anant Pratap Singh	Capacity building for energy conservation building code and eco niwas samhita from 18th to 22nd July organized by Amity school of architecture and planning Kolkata	18- 22 July 2022
Dr. Nirmita Mehrotra	Women Role in Empowerment & Fire Safety at Public Place, FSAI, ifsy 2022, Habitat Centre Delhi	3 <sup>rd</sup> Sept 2022
Dr. Nirmita Mehrotra	Short Term Training Program on Climate Change Action and Disaster Risk Reduction - organised by Department of Architecture, GBU in collaboration with NIDM Ministry of Home Affairs GOI	2nd-4th March 2021

#### 7.4.2.6 Achievements/Awards/Accomplishments of the Faculty Members

Paper Publications			
S. No.	Year, Month	Name of Faculty	Achievement
1	March 2021	Ar. Anant Pratap Singh	Dynamics of Urban Villages Mapping the transformation of Shahberi Village Greater Noida First Author- Kamini Singh, Second Author- Anant Pratap Singh International Seminar on Architecture for Masses, Department of Architecture, Faculty of Architecture & Ekistics, Jamia Millia Islamia, New Delhi. March 2021
2	01 July 2021 - 30 June 2022	Dr. Nirmita Mehrotra	Mehrotra N., Sanyal A. 2022; Advantages of using Phase changing Materials over Conventional Buildings for Thermal Comfort; journal of interior design and regional planning e-ISSN:2581-998, Vol7, issue1 2022. MAT Journals.
10	01 July 2021 - 30 June 2022	Dr. Nirmita Mehrotra	Mehrotra N., Sanyal A. 2022; Environment Impact And Carbon Footprint Assessment For Sustainable Building Design; Journal Of Recent Activities In Architectural Sciences e-ISSN2581-9046.Vol. 7, Issue -1, 2022
11	01 July 2021 - 30 June 2022	Ar. Anant Pratap Singh	Ephemeral Landscapes of a Living City: A Critical Analysis on Spatial Transformation of Chandni Chowk. First Author- Kamini Singh, Second Author- Anant Pratap Singh. ICOMOS Annual Scientific Symposium, Cultural Landscapes: Transformations and Emerging Ideas, 19- 20 November 2021, Faculty of Architecture and Planning, AKTU, Lucknow

#### 7.4.3 Civil Engineering Department



#### 7.4.3.1 About the School and Department

The School of Engineering came into functioning in the year 2010. There are two engineering Blocks, i.e. School of engineering block-A, and School of engineering block-B. School of Engineering block-A, includes two engineering departments namely, Mechanical Engineering and Electrical Engineering. School of engineering block-B contains two departments namely Civil Engineering and departments of Architecture & Regional Planning.

#### 7.4.3.2 Academic Programmes

In the starting, a 5-year integrated dual degree program (B. Tech. + M. Tech./MBA) was running in the department, its last batch has been passed out in 2022. Presently, the department of Civil engineering is running Bachelor degree, Master degree and Doctoral degree programmes. At bachelor level, a 4-year B. Tech. in civil engineering is running. At Master's level, there are two specializations viz. 2-year M. Tech in Structural engineering & Environmental engineering.

#### 7.4.3.3 Admissions

5-year integrated dual degree program-M. Tech. Structure-21 & Environment-20 (Total-41).

4-year B. Tech. 1<sup>st</sup> year-21, 2<sup>nd</sup> year-39, 3<sup>rd</sup> year- 68 and 4<sup>th</sup> year 54 (Total-182).

2-year M. Tech. Structure-1<sup>st</sup> year-03 and 2<sup>nd</sup> year-13 (Total-16).

#### 7.4.3.4 Laboratories Functional

There are 10 labs functioning in the department.

#### 7.4.3.5 Research and Development (Papers published in referred journal)

Journal Paper-04, Conference-01.

#### 7.4.3.6 Innovation and Patents

Conducted project of B. Tech. students on relatively innovative topics related to various engineering aspects. M. Tech. dissertation Ph.D. theses are also carried out on various current engineering aspects during session 2021-22. Ph.D. research is carried out during the session on recent areas of structure & environment such as durability analysis of concrete, analysis & development of Rainwater harvesting system of Greater Noida region. No patent during the session.

#### 7.4.4 About the Department

The Electrical Engineering department is the core department of School of Engineering in Gautam Buddha University, Greater Noida. The department of EE has been playing a vital role in producing highly trained and professional engineers ever since it was established in the year

2010. The department runs 07 under graduate programs with 02 major courses B.Tech in ( Electrical & computer Engineering, Electrical & Electronics Engineering, ) and B.Tech with 05 different specialization courses (Electric Vehicles, Industrial Automation, AI & ML, Biomedical Engineering and computer Engineering.) and 02 post-graduate programs, Integrated B.Tech + M. Tech. and M. Tech. in Electrical Engineering with 05 specialization courses (Power System, Power Electronics & Drives and Instrumentation & Control Engineering., Renewable Energy and Power & Energy system ) to cater needs of technical excellence in all areas of electrical engineering such as Integrated electronics and circuits, Control & Automation, Power systems & Power electronics. In addition to the strong undergraduate and post graduate programs, the department has also been offering a Ph. D program which plays a pioneering role in producing world class research scholars. The infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for students and researchers to learn and innovate. As far as the Department is concerned, academic standards and practical work are the two key parameters. The Department of EE has a fine blend of renowned as well as young and dynamic personalities as faculty, who are involved in imparting quality education. The faculty of the department has been constantly carrying out research on many cutting-edge technologies and regularly publishes their research paper in top reputed Journals and Conferences. The department conducts various programs like Workshops/Conferences/FDPs/Technical Training/Seminars/Expert lecture, etc. for constant knowledge up-gradation of staff and students. These activities help to explore new technologies, which keep our students and staff in touch with latest developments in the field of Electrical Engineering. Industrial visits are also regularly organized to enhance the practical knowledge of the students and to interact with the recent technologies used in the industries. The dept. has following specializations:

1. B.Tech. (EE)
2. Int. B.Tech.+ M.Tech.(EE)/MBA
3. B.Tech.(EE) with Minor Degree in: (AI & ML, EV, Industrial Automation, Biomedical Engineering)
4. M. Tech. (Power System, Power Electronics & Drives, I&C, RES)
5. PhD. (Electrical Engineering- All Specializations of Electrical Engineering)

#### 7.4.4.1 Academic Programmes

**B.Tech. (EE)**

**Int. B.Tech.+ M.Tech.(EE)/MBA**

**B.Tech.(EE) with Minor Degree in:**

(AI & ML, EV, Industrial Automation, Biomedical Engineering)

**M.Tech. (Power System, Power Electronics & Drives, I&C, RES)**

**PhD. (All Specializations of Electrical Engineering)**



#### 7.4.4.2 Laboratories functional

S. No	Laboratories Name	Room No
1	Machine lab	EP106
2	Mat lab Programming	EP105
3	Network Lab	EP103
4	Non-Linear Control Lab	EP104
5	Power Systems Lab	EP103
6	Advance Power Electronics & Drives Lab	EP102
7	Power Electronics Lab	EP102
8	Switch Gear & Protection Lab	EP102

#### 7.4.4.3 Conferences, Seminars, Workshops, Training Programmes, Invited talk, Expert lecture conducted

##### Dr. M.A. Ansari

S. No.	Particulars
1	Organized AICTE-ATAL Sponsored PDP On "Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Fundamentals & Hands on Matlab" in association with ATAL Academy and EED – GBU Gr. Noida, organized during 21-25 June, 2021.
2	Organized AICTE-ATAL Sponsored FDP in association with HAC-IEEE UP section on "Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Advancements and Post Covid Analysis" during Feb. 21-25, 2022 at EED, GBU Gr. Noida.
3	Organized a webinar on "Matlab Tools & Techniques for Engineers" in Association with CETPA Infotech Ltd & GBU Gr. Noida on April 01, 2021.
4	Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Advances in management and research" from Aug. 09-13, 2021 at Gautam Buddha University.
5	Organized one day Project Exhibition in the Department of Electrical Engineering, School of Engineering, Gautam Buddha University, Gr. Noida during May 28, 2022.
6	Presented a paper titled "Analysis of Microgrid and Protection Schemes: A Review" in the Int. Conf. on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021) organized by the Dept. of Electrical Engineering, in NIT Jamshedpur, India during Sept. 6-8, 2021.
7	Contributed as TPC Member in IEEE IAS GUCON 2021 during sept. 24-26, 2021. 1. Contributed as Resource Person in AICTE Training and Learning (ATAL) Academy Online Advanced FDP on "Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Advancements and Post Covid Analysis" from 21/02/2022 to 25/02/2022 at Gautam Buddha University, Gr. Noida, U.P. 2. Contributed my excellence as a Keynote Speaker "Real Time Tracking of Health Parameters Using IOT: Application to Covid-19" in One Week AICTE sponsored ATAL FDP on "Internet of Things (IOT)", Feb 8-12, 2021 organized by Department of ECE, ITS Engineering College Greater Noida Uttar Pradesh, India. 3. Delivered an Expert Lecture in AICTE Sponsored Online STTP on "Moral, Values, Attitude and Behaviour Sciences (Phase-II)" Organized by Department of EEE, GL Bajaj Institute of Technology & Management, Gr. Noida (UP), India, from 22nd to 27th February, 2021. 4. Delivered an invited talk (online) on, "Renewable Energy Scenario-Scope and Challenges", Engineering Department, University of Technology and Applied Sciences – Salalah, Oman, on the 31st January, 2021.
8	Contributed as Resource Person in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence In Contemporary Biomedical & Healthcare Applications: Fundamentals & Hands On Matlab " from 21/06/2021 to 25/06/2021 at Gautam Buddha University, Greater Noida, U.P.

9	Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Advanced FDP on "Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Advancements and Post Covid Analysis " from 21/02/2022 to 25/02/2022 at Gautam Buddha University, Gr. Noida, U.P.
10	Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Internet of Things (IOT) with Machine Learning & Artificial Intelligence" from 13/09/2021 to 17/09/2021 at ITS Engineering College.
11	Delivered an invited talk as Resource Person on the topic "AI & ML in Medical Imaging", in one-week online colloquium on "Multidisciplinary Research Problems & Advancements" held from March 7-11, 2022 at ASET, Amity University Noida.

### Dr. Omveer Singh

S. No.	Events	Key Role	Dates	Institutes
1	Project Exhibition Competition	Organizer	28/05/2022	SOE, GBU, Gr. Noida
2	AICTE FDP on Electric Vehicles – The Future of Mobility	Attended	03/01/2022 to 07/01/2022	RIT, Sakharale
3	AICTE FDP on Zero Emission Vehicles for Sustainable Mobility	Attended	20/12/2021 to 24/12/2021	Indian Institute of Information Technology Design and Manufacturing, Kurnool
4	AICTE sponsored lecture series on Innovation and entrepreneurship development	Attended	22/11/2021 - 11/12/2021	MIET, Meerut
5	One Day Workshop on Intellectual Property Rights	Attended	19/06/2021	JCBUST, YMCA, Faridabad
6	AICTE sponsored One Week STC on Role of Energy Management Systems in Smart Grid	Attended	07-12/06/2021	EED, FoET, Jamia Millia Islamia University, New Delhi
7	A Webinar on Patent, Pandemic and Huminity	Attended	21/05/2021	SOLJG, GBU, Greater Noida
8	A Webinar on Patent, Pandemic and Public Interest	Attended	29/05/2021	SOLJG, GBU, Greater Noida
9	National Power Training Institute	Attended	13/05/2022	Faridabad, Haryana

### Dr. Nidhi Singh

#### Session Chair-

- Session Chair in International Conference on Sustainable Development Goals and Gender Perspective organized by EED, SVNIT Surat on 25 and 26 Oct. 2021.
- Session Chair in International Conference on Sustainable Technology and Advanced Computing in Electrical Engineering organized by EED, SVNIT Surat on 11 and 12 Nov. 2021.
- Session Chair in International Conference of Undergraduate Students ICUS 2021 organized by Soft Computing Research Society on 27 and 28 Nov. 2021.

#### Webinars Organized



- Webinar on “**Energy Conservation**” in collaboration with PCRA Ministry of Petroleum & NG Govt. of India, on 28 October, 2021, organized by Robotics & Automation Study Group, EED, SOE, GBU.
- Webinar on “**Power Electronics in Electrical Engineering**” organized by Robotics and Automation Study Group, Electrical Engineering Department, Gautam Buddha University, Greater Noida in collaboration with ACE Engineering Academy on 16 Dec. 2021.

#### **Dr. Kirti Pal**

- Participated in online ATAL FDP on artificial intelligence in contemporary biomedical & healthcare applications: fundamentals & hands on MATLAB" from 2022-02-21 to 2022-02-25 at Gautam Buddha University, Greater Noida, U.P.
- Technical Program Coordinator in Next Generation Defence Technologies-2021 organized by University School of Information and Communication Technology and University School of Engineering Gautam Buddha University, Greater Noida, U.P. in collaboration with DRDO, August 19-20, 2021.

#### **7.4.4.4 Research and development: (Papers published in refereed journals):**

##### **1. Dr. M.A. Ansari:**

1. Rajat Mehrotra, M.A. Ansari et al., “Ensembling of Efficient Deep Convolutional Networks and Machine Learning Algorithms for Resource Effective Detection of Tuberculosis Using Thoracic (Chest) Radiography”, IEEE Access, vol. 10, pp. 85442-58, 2022 (SCIE, Q1.)
2. Muzafar Husain, Feroz A. Mir, M. A. Ansari, “Nanofluid transformer oil for cooling and insulating applications: A brief review”, Applied Surface Science Advances-Elsevier Vol. 8 (2022). IF 6.707 (ESCI).
3. M.A. Ansari et al., "Performance Evaluation of Optimized SVM for Classification of Brain Tumor", Int. Journal of Medical Engineering and Informatics, Vol. 14, No. 5, pp. 439-453, 2022.
4. Rajat Mehrotra, Rajeev Agrawal, M.A. Ansari, “Diagnosis of Hypercritical Chronic Pulmonary Disorders using Dense Convolutional Network through Chest Radiography”, Multimedia Tools and Applications, Springer Nature, 81, pg.7625–7649 2022.-SCIE.
5. Nivedita Singh, M. A. Ansari, Manoj Tripathy & Vivek Pratap Singh, “Feature extraction and classification techniques for power quality disturbances in distributed generation: A Review”, IETE Journal of Research, Vol. 68, pg.1-16, 2021, IF 2.333 (SCIE).
6. MA Ansari et al., “Progress in Detection of Insomnia Sleep Disorder: A Comprehensive Review”, Current Drug Targets, Bentham Science Publ. UAE, Vol. 22, No.06, pp. 672-684 2021, (SCIE).

7. M.A. Ansari et al., "Performance evaluation of de-noised medical images after removing speckled noise by wavelet transform", *Int. J. Biomedical Engg. and Technology*, Vol. 36, No. 4, pp.318-330, 2021 (Scopus, ESCI, IF 1.015) (Inderscience).

## 2. Dr. Omveer Singh

1. Adarsh Gupta and Omveer Singh, "Grid Connected PV System with MPPT Scheme Using Particle Swarm Optimization Technique," *International Journal of Intelligent Communication, Computing and Networks*, Vol. 2, Issue 2, pp. 43-82, July 2021 (ISSN: 25827707).
2. Yahya Alward, Omveer Singh and M.A. Ansari, "Industrial Automation and Control Systems Development Future and Challenges," *Journal of Information and Optimization Sciences*, Taylor and Francis, Vol. 43, pp. 71-83, March 2022 (Scopus Indexed, ISSN: 21690103).
3. Sandeep Maurya and Omveer Singh, "Determination of Fault in Underground Cable by Using Murray Loop Method and GSM Module," *International Journal of Research in Engineering, Science and Management*, Vol. 5, Issue 5, pp. 131-134, May 2022 (ISSN: 25815792).
4. Harshita Mishra and Omveer Singh, "Performance Evaluation of Closed-Loop Control Scheme For Reduced Part Count Multi-Level Inverter Based Grid Connected Photovoltaic Systems," *Journal of Maharaja Sayajirao University of Baroda*, Vol. 56, No. 1 (III), 2022 (ISSN: 00250422 UGC Care).
5. Aashwin Kumar and Omveer Singh, "Harmonic Analysis in Hybrid Power Plant using ETAP Software," *International Journal of Computer Applications*, Vol. 184, Issue 20, pp. 30-36, July 2022 (ISSN: 09758887).
6. Ashwini Kumar and O. V. Singh, "Automatic Generation Control of Power System for Diverse Energy Source with Optimization Techniques", *International Journal of Engineering and Science Invention*, Vol. 11, Issue 12, pp. 01-07, 2022. (ISSN: 23196734).

## 3. Dr. Nidhi Singh

5. Prashant Nigam, Nidhi Singh and Lillie Dewan, "Controller Design Techniques for Nonlinear Systems- A Review", *International Journal of Engineering Research & Technology*, vol-11, Issue-11, November 2022
6. Yadav, D., & Singh, N. (2022). Comparative Analysis of Conventional, Artificial Intelligence, and Hybrid-Based MPPT Technique for 852.6-Watt PV System. *International Journal of Social Ecology and Sustainable Development (IJSESD)*, 13(2), 1-23.

## 4. Dr. Kirti Pal

1. Ipshita Negi and Kirti Pal, "Effect of Tower Height and Collector Radius on Performance of Solar Updraft Tower Power Plant", *IJSESD: Volume 13, Issue 1, Article 16*, 2021, pp.1-17, EISSN: 1947-8410.



2. Puneet Raj and Kirti Pal, "Green energy transaction assessment on individual customer based on power factor correction coefficient" *International Journal of Emerging Electric Power Systems*, 26 July 2021, pp.1-11; ISSN: 1553-779X.
3. Mahmood Aldobali, Kirti Pal, et.al. "Applications of Bioelectrical Impedance Analysis in Diagnosis of Diseases: A Systematic Review", *Journal of Clinical and Diagnostic Research*. 2021 Jul, Vol-15(7): KE01-KE06; E-ISSN: 0973-709X; pp.1-6.
4. Alok Nath Yadav and Kirti Pal, "Demand side maximum loading limit ranking based on composite index using ANN", *Int J Syst Assur Eng Manag, Springer*, 10 Nov. 2021, Vol. 13(3), pages 1419-1429. E-ISSN: 0976-4348.

#### 7.4.4.5 Innovation and Patents

S. No.	Patent Details	Applicant(s)	Patent Status Published/Filed	Date of Filing	Date of Publication	Source of Publication
1	Brain Tumor Classification Using Soft Computing	M. A. Ansari	Published	07/02/2022	11/02/2022	Indian Patent journal
2	System and Method for Detection and Classify Lungs of Covid-19 Using CXR	Rajat Mehrotra M. A. Ansari	Published	25/06/2022	08/07/2022	Indian Patent journal

#### 7.4.4.6 Award / recognition to faculty members

- IEEE UP Section '2021 Recognition Award–Silver Recruitment'.
- IEEE President's Letter of Appreciation, 2021-22 for IEEE senior membership.
- Appreciation Certificate from the GLBITM, Gr. Noida (2022)
- Recognition Certificate from IEEE for promoting IEEE activities (2021)
- Elevated to Executive Committee of IEEE, UP Section, 2021 to till date.
- Chair IEEE HAC-SIGHT Committee IEEE, UP Section, 2021 to till date.
- Nominated member of QCI, India (2022)
- Excellent Teacher's Award Sept. 05, 2021.

#### 7.4.4.7 Activities & Events, EED

The EE department of Gautam Buddha University (GBU) has recently organized the following Activities & Events of the students:

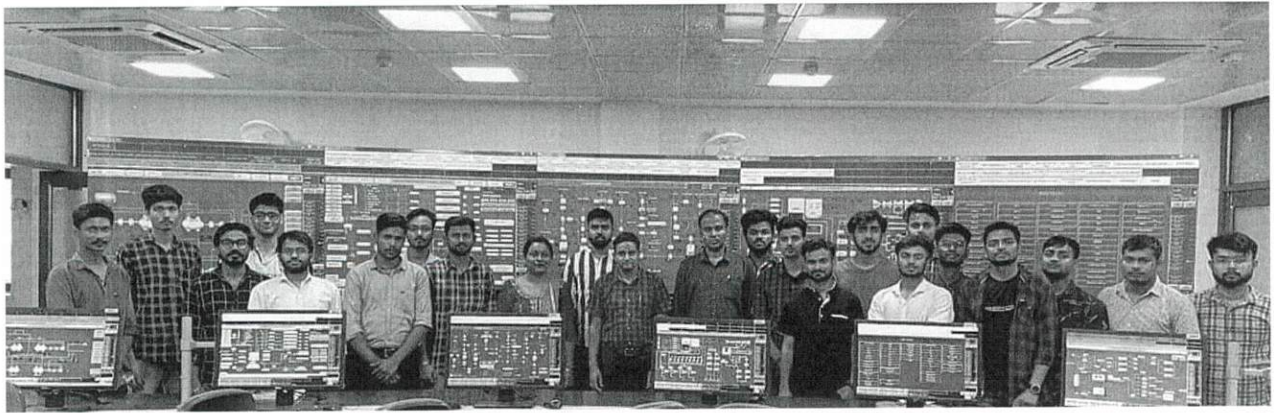
- **Electroma-Vistara Robotics event was held on 27th November 2021** (roboticsgroup.wixsite.com).



- Industrial Visit of 3rd Year EE students in NPTI Faridabad on 14th May 2022.







- Inter School Project Exhibition was held on 28th May 2022.





**Farewell Party: 2022.**

#### 7.4.5 Mechanical Engineering Department

Welcome to the Department of Mechanical Engineering at Gautam Buddha University, Greater Noida, U.P. We started our journey in the year of 2010 and over the last one decade, we have grown our expertise and competence in the core Mechanical Engineering curriculum and research. Mechanical Engineering Department was established with an intake of 60 students in Integrated B.Tech. M.Tech./MBA Programme with the goal to give quality education and to impart the best Technical/ Research and Practical training to our students.

M. Tech. in various specializations were initiated in the subsequent years:

- Industrial Engineering (2012)
- Thermal (2014)
- Design (2014)
- Manufacturing (2015)

Ph.D. Programme has enriched the research perspective of the department.

The department is committed to the adaptation of recent development in science and technology to meet the requirements of the present industrial scenario. The course contents are updated periodically for introducing new technological and scientific developments. The faculty and staff in the Mechanical Engineering Department are well qualified, experienced and are devoted to quality education.

#### Vision



To establish the department as a center of quality education in the field of Mechanical Engineering that empowers the graduates with a sense of sustainable technology and holistic approach to fulfill the need of industry and society with competence and compassion.

### Mission

- To practice a high standard of teaching and learning process for maintaining quality education in Mechanical Engineering.
- Dedicated efforts to be made for enhancing the employability of students.
- To modernize laboratory facilities as per the latest curricula and research requirements.
- Introduction of new UG and PG programs in emerging fields of engineering.
- Lead the way in various field of mechanical engineering-based research and other scholarly activities.
- To inculcate a holistic approach for sustainable development while maintaining professional ethics and values among students, faculty and staff.

### 7.4.5.1 Academic Programmes

- **B.Tech.** in Mechanical Engineering
- **02 Years M.Tech.** Programme with following specializations:
  - Design Engineering
  - Thermal Engineering
  - Manufacturing Engineering
- **Ph.D.** in Mechanical Engineering (Full time & Working Professionals)
  - Design Engineering
  - Thermal Engineering
  - Manufacturing Engineering
  - Industrial Engineering

### 7.4.5.2 Laboratories functional

S. No.	Room No.	Name of Laboratories
1	EW 101	<ul style="list-style-type: none"> <li>• Fluid Machines lab</li> <li>• Advanced Thermal Engineering Lab</li> </ul>
2	EW 103	<ul style="list-style-type: none"> <li>• Welding Shop</li> <li>• Smithy Shop</li> </ul>
3	EW 105	<ul style="list-style-type: none"> <li>• Production Processes Lab –I</li> <li>• Production Processes Lab –II</li> </ul>
4	EW 106	<ul style="list-style-type: none"> <li>• Machine Shop</li> <li>• Manufacturing Technology Lab I</li> </ul>
5	EW 108	<ul style="list-style-type: none"> <li>• Applied Thermodynamics Lab</li> <li>• IC Engines and Gas Turbines Lab</li> </ul>
6	EW 201	<ul style="list-style-type: none"> <li>• Fluid Mechanics Lab</li> </ul>

7	EW 202	<ul style="list-style-type: none"> <li>Heat and Mass Transfer Lab</li> <li>Refrigeration and Air Conditioning Lab</li> <li>Advanced Thermal Engineering Lab</li> </ul>
8	EW 204	<ul style="list-style-type: none"> <li>Modeling, Simulation and Analysis Lab</li> <li>Computer Aided Design Lab</li> <li>Advanced Design Lab</li> </ul>
9	EW 205	<ul style="list-style-type: none"> <li>Dynamics of Machines &amp; Vibrations Lab</li> </ul>
10	EW 206	<ul style="list-style-type: none"> <li>Automobile Engineering Lab</li> <li>Engineering Measurement and Metrology Lab</li> </ul>
11	EW 207	<ul style="list-style-type: none"> <li>Computation Fluid Dynamics Lab</li> <li>Finite Element Methods and Analysis Lab</li> </ul>

#### 7.4.5.3 Research Advisory Committee (Formerly known as RDC) Conducted

S.No	Roll Number	Name of Student	Full Time /Part time	Email	Name of Supervisor	Date of Admission	Date of RDC	Status
1	19/PhD/Engg/ME/001	Shubham Sharma	Full Time	<a href="mailto:shubham.sharma.5617@gmail.com">shubham.sharma.5617@gmail.com</a>	Dr.Satpal Sharma	01.07.2019	05.04.22	Perusing
2	19/PhD/Engg/ME/002	Ajay Sharma	Full Time	<a href="mailto:ajay.all21@gmail.com">ajay.all21@gmail.com</a>	Dr.Satpal Sharma	07.01.2020	05.04.22	Perusing
3	19/PhD/Engg/ME/003	Kamal Kant Singh	Full Time	<a href="mailto:kamalkant.singh.kc@gmail.com">kamalkant.singh.kc@gmail.com</a>	Dr.Dharmvir Mangal	07.01.2020	05.04.22	Perusing

#### 7.4.5.4 Research and development: (Papers published in refereed journals)

S. No.	Faculty	Authors,	Title of Paper	Journal	Publisher	Vol.	Year	Pages Start-End	Category
1.	Dharamvir Mangal	Tarun Kumar Gupta, Dharamvir Mangal, Ashish Gupta	Impact of material properties on the dynamics of cam shaft	Materials Today: Proceedings	Elsevier	47	2021	4083-4091	Scopus
2.	Satpal Sharma	Gaurav Arora and Satpal Sharma;	Influence of Rare Earth Addition on the Properties on AA6351 Hybrid Composites,	Journal of Engineering Research,	Academic Publication Council – Kuwait University	9	2021	DOI: <a href="https://doi.org/10.36909/jer.7901">https://doi.org/10.36909/jer.7901</a>	Scopus



3.	Satpal Sharma	Praveen Kumar and Satpal Sharma;	Influence of FSW Process Parameters on Formability and Mechanical Properties of Tailor Welded Blanks AA6082-T6 and AA5083-O Using RSM with GRA-PCA Approach;	Transactions of Indian Institute of Metals.	Publisher Springer	74	2021	pp 1943-1968.	SCIE
4.	Satpal Sharma	Nand Kumar; B Ganguli; Satpal Sharma; Bidesh Roy; Shivanshu Dixit;	Evaluation of Properties of Glow Discharge Plasma Nitrided C-300 Maraging Steel	Transactions of the Indian Institute of Metals	Springer	75	2021	pp. 1-14	SCIE
5.	Harish Chandra Thakur	Gupta, A., & Thakur, H.	Development of Green Cementitious Materials Origin from Agro-squander: A Review.	Advances in Interdisciplinary Engineering	Springer		2021	629-646.	Scopus
6.	Harish Chandra Thakur	Gupta, A., & Thakur, H.	Experimental Analysis of Agro-Green Waste in Supplement of Sand for Concrete Mixture	ACI Materials Journal		118	2021	41-48	SCI
7.	Harish Chandra Thakur	Thakur, H.	Nonlinear heat transfer analysis of spines using MLPG method.	Engineering Analysis with Boundary Elements	Elsevier	131	2021	15-26	SCI
8.	Harish Chandra Thakur	Srivastava, R. S., Kumar, A., Sharma, S.,	Development and applications of thermoelectric	Energy and Buildings	Elsevier	252	2021	111446 (online)	SCI

		Thakur, H., Patel, S., &Vaish, R	based dehumidifiers						
9.	Vikas Shrivastava	P. Singh, V. Shrivastava , S.K. Srivastava, I. B. Singh, P. Agarwal, D.P. Mondal	Microstructural evolution, compressive deformation and corrosion behaviour of thermally oxidized porous Ti4Al4Co alloy made of mechanically alloyed powder	Materials Chemistry and Physics	Elsevier	261	2021	12419 1	SCI

#### 7.4.5.5 Research Projects Awarded/Ongoing/Completed during the Year

Year	Faculty	Title of project	Sanctioned Amount	Funding Agency	Period	Status of the Project
2017-18	Satpal Sharma	Studies for Development of Energy Efficient Heavy Load Sustaining Ball Bearings using Textured Surfaces and Adaptive Lubrication	Approx. 31 Lakhs	CSIR	03 Years But due to Corona it was extended	Sanctioned in 2017.

#### 7.4.5.6 Innovation and Patents

Year	Name of the Faculty Member	Title of patent	Status (Awarded / Filed)	Patent No.	Date of award
2021-22	Dharamvir Mangal	Smart Cooking Apparatus	Published	202111058841 A	31/12/2021





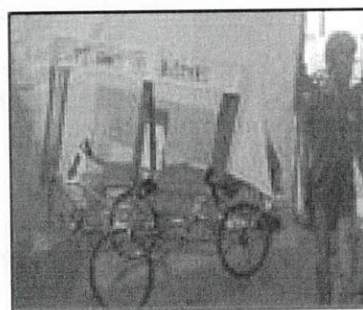
### Extracurricular activities



SHELL ECO MARATHON



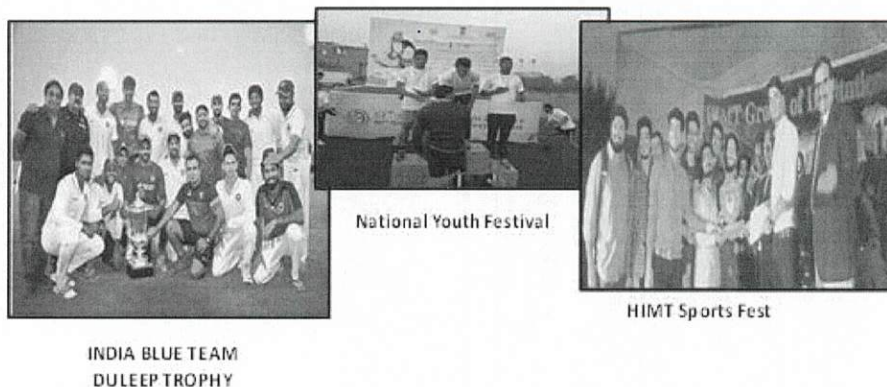
EFFI-CYCLE



EPR-CYCLE

## Glimpse of technical events

## SPORTS: A GLIMPSE



### 7.5 School of Vocational Studies & Applied Sciences

#### 7.5.1 Department of Applied Physics

Department of Applied Physics was established in 2011 as a part of the University School of Vocational Studies & Applied Sciences. Aim of the department is to impart in-depth knowledge of various disciplines of Physics and their applications by faculty members well-established in research and academics. The identified research area of the department includes Nanotechnology, Energy devices, Computational physics and Nanophotonics. The department considers the students to be the greatest asset and strives to enhance their overall development including theoretical and experimental abilities, problem solving skills, creative talent, and power of communication necessary for various kinds of employment.

##### 7.5.1.1 Academic Programmes

Programmes		No. of Seats
Code	Name and Duration	
UVS02	<b>B.Sc. (Hons.) Bachelor of Science (Hons.) (Physics)</b> 3 Years (06-Semester)	30
PVS03	<b>M.Sc. Master of Science</b> (Applied Physics) 2 Years (04-Semester)	30
RVS02	<b>Ph.D. Doctor of Philosophy</b> (Applied Physics)	Variable
PGV04	<b>PG Diploma in Renewable Energy Technologies</b> 01 Year (2-Semester)	30
UV02	<b>B.Sc. Physical Sciences</b> 03 Years (06-Semester)	60



### 7.5.1.2 Laboratories functional

#### UG LAB-1 – Room No. VP101

- Mechanics Laboratory
- Electricity and Magnetism Laboratory
- Thermal Physics Laboratory

#### UG LAB-2 – Room No. VP102

- Waves and Optics Laboratory
- Elements of Modern Physics Laboratory
- Solid State Physics Laboratory
- Electromagnetic Theory Laboratory

#### UG LAB-3 - Room No. VP115

- Analog and Digital System Laboratory

#### UG LAB-4 - Room No. VP113

- Engineering Physics Laboratory

#### UG LAB-5 – CCC-2 (Computational Physics Laboratory)

- Mathematical Physics-I Lab
- Mathematical Physics-II Lab
- Mathematical Physics-III Lab
- Quantum Mechanics Lab
- Statistical Mechanics Lab

#### PG LAB-1 - Room No. V122

- Physical Laboratory-I

#### PG LAB-2 - Room No. VP115

- Physics Laboratory-II

#### Research LAB - Room No. VP103

### 7.5.1.2 Research Advisory Committee conducted

S. No.	Scholar Name	Registration Number	Supervisor's Name
1	Praveen Gothwal	2019E/SOVSAS/PHF01	Dr. Bhawana Joshi

### 7.5.1.3 Conferences, Seminars, Workshops, Training Programmes, Invited Talk, Expert Lecture Conducted

Name of Faculty member	Participation / presentation of paper in conferences/seminars/workshops	Participated as resource person in conferences/seminars/ workshops /
------------------------	---	--

			refresher courses	
	National	International	National	International
Dr. Ashish Kumar Keshari		01		
Dr Bhawana Joshi	03	02	03	02
Dr. Manmohan Singh Shishodia	01	08	01	04
Dr Vivek Kumar Shukla	02		02	

#### 7.5.1.4 Detail of Presented Papers

Title of the paper	Title of the proceedings of the conference	Year	ISBN/ISSN number of the proceeding	Whether at the time of publication affiliating institutions was same (Yes/No)	Name of the publisher	Category
Energy transfer interactions in the vicinity of bimetallic combination of refractory nitride and coinage metals-based core@shell plasmonic nanoparticle	AIP Conference Proceedings	2021	978-0-7354-4121-7	Yes	AIP	Scopus
Investigations on partially exfoliated graphite as electrode material for electric double layer capacitors (EDLCs),	Materials Today: Proceedings	60 (2), 1015-1020 (2022).	2214-7853	Yes	Elsevier	Scopus
Structural and electrochemical investigations on impregnated carbon soot derived by flame synthesis method.	MRS Advances	7, 570, (2022)	2059-8521	Yes	Springer	Scopus
Widening spectral range of absorption using natural dyes: applications in dye sensitized solar cell	Materials Today: Proceedings	49 (8) 3235-338, 2022	2214-7853	Yes	Elsevier	Scopus
Fabrication of perovskite solar cells in ambient conditions	Materials Today: Proceedings	34 (3), 654-657, 2021	2214-7853	Yes	Elsevier	Scopus
'Kusha' (eragrostis cynosuroids): A source of activated carbon for energy storage device	Materials Today: Proceedings	34 (3), 702-704, 2021	2214-7853	Yes	Elsevier	Scopus



## 7.5.1.5 Seminar organized

Name of the Activity (seminars/conferences / workshops/extension lectures)	Title	Level (National/ International)	Date	Funding Agency	Number of participants
Webinar	Software Package for Designing Nanoparticle based Plasmonic Sensors	National	20/09/ 2021	-	50
Talk	Optical Plasmonic and Optoelectronic Properties of Semiconductor-Metal Nano Cavities and Nanodevices	National	12/10/ 2021	-	20

## 7.5.1.6 Research and Development (Papers published in referred journals)

Name of Faculty Member	Name of Authors	Title of Paper	Journal	Publisher	Vol	Pages Start-End	Category
Dr. Ashish Kumar Keshari	Ashish K Keshari and Ravindra Kumar	Nanostructured MoS <sub>2</sub> , SnS <sub>2</sub> , and WS <sub>2</sub> Based Anode Materials for High Performance Sodium- Ion Batteries Via chemical route methods: A Review Article	Energy Technology	Wiley	9	2100179	Scopus/Web of Science
	Ashish Kumar Keshari, Preeti Choudhar y and Vivek Kumar Shukla	Precursor induced evolution in single anatase phase synthesis of TiO <sub>2</sub> nanoparticles for Water treatment and Dye-sensitized solar cell	Physica B: Condensed Matter	Elsevier	631	413716	Web of Science
	Ashish Kumar Keshari, Prakrati Gupta, Manjeet Singh	ZnO nanoparticles doping with transition metal elements in polymeric and biomacromolecular matrix and their optical evolution	Optical Materials	Elsevier	111	110697	Scopus/Web of Science
	Manjeet Singh and Ashish K.	Nano-organic and Nano bio-Corona Study of Al Doped ZnO	Results in Surfaces and	Elsevier	11	100110	Scopus/Web of Science

	<b>Keshari</b>	Nanoparticles	Interfaces				
<b>Dr. Bhawana Joshi</b>	Sangeeta Rawal, Yogesh Kumar, U K Mandal, Ashwani Kumar, Ruchika Tanwar, Bhawana Joshi,	Synthesis and electrochemical study of phosphorus-doped porous carbon for supercapacitor applications	SN Applied Sciences	Springer	3	141-154	Web of Science (ESCI)
	Rihana Khan, Sumair Faisal Ahmed, Muhammad Khalid, Bhawana Joshi	Investigating Effect of CdS Buffer Layer on the Performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> Based Solar Cells Using SCAPS 1D	Transactions on Electrical and Electronic Materials	Springer	22	177-184	Scopus
	Sangeeta Rawal, U K Mandal, Ashwani Kumar, Yogesh Kumar, Bhawana Joshi	Enhanced electrochemical performance of hierarchical porous carbon/polyaniline composite for supercapacitor applications	Nano Express	IOP Science	2	010013	Web of Science (ESCI)
<b>Dr. Mausumi Pohit</b>	Sanjeev Saxena, <b>Mausumi Pohit</b>	Near Infrared and Visible Image Registration using Whale Optimization Algorithm	International Journal of Applied Metaheuristic Computing (IJAMC)	IGL-Global	13	1-14	Web of Science/Scopus
	Sanjeev Saxena, <b>Mausumi Pohit</b>	Improved Particle Swarm Optimization With Spiral Updating Mechanism for Multimodal Image Registration	International Journal of Swarm Intelligence Research (IJSIR)	IGL-Global	13	1-20	Web of Science/Scopus
<b>Dr.</b>	Jyoti	Thickness Controlled Physical Properties of	Chemistry	Wiley-	7	e2022004	SCI



Manmohan Singh Shishodia	Kumari, Harish, Akash, Arushi Pandey, Pushpendra Kumar, Manoj K Singh, Alok Singh, Manmohan Singh Shishodia, Rajendra P. Joshi, and Anoop Kumar Mukhopadhyay	Chemically Synthesized Nanostructured Calcite Thin Films	Select	VCH		16	
	Pratima Rajput, and Manmohan Singh Shishodia	FRET sensing, and field enhancement near spheroidal nanoparticle: Multipole spectral expansion approach	Optics Communications	Elsevier	519	128391	SCI
	Pratima Rajput, and Manmohan Singh Shishodia	Energy Transfer Interactions and Sensing Characteristics of Gain-Assisted and Graphene-Coated Plasmonic Nanomatryoshka	Plasmonics	Springer	16	2277	SCI
	Pratima Rajput, and Manmohan Singh Shishodia	Multipole spectral expansion analysis of electric field enhancement near spheroidal plasmonic nanoparticle	Asian Journal of Physics	Asian Journal of Physics	30	729	-
	Pankaj Pathania, and Manmohan Singh	Fano Resonance-Based Blood Plasma Monitoring and Sensing using Plasmonic Nanomatryoshka	Plasmonics	Springer	18	2117	SCI

	Shishodia						
Dr. Vivek Kumar Shukla	Ranbir Singh, Vivek Kumar Shukla, Mritunjaya Parashar, Vikrant Sharma, Satinder K. Sharma	Highly efficient quasi-cubic structured perovskite for harvesting energy from artificial indoor LED light source	Solar Energy	Elsevier	245	332-	Scopus and Web of Science
	A Tyagi, K Mishra, VK Shukla	Structural and Electrochemical Properties of KOH-Activated Carbon Soot Derived from Sinapis alba (Yellow Mustard Oil) for EDLC Application	Journal of Electronic Materials	Springer	51	5670-5685	Scopus
	Komal, Ranbir Singh, Vinayak G. Parale, Yogesh Kumar, Kuldeep Mishra and Vivek Kumar Shukla	Studies on the ZnCl <sub>2</sub> activated carbons derived from Sabal Palmetto and Pterospermum Acerifolium leaves for EDLC application	Biomass conversion and biorefinery	Springer		<a href="https://doi.org/10.1007/s13399-022-03088-7">https://doi.org/10.1007/s13399-022-03088-7</a>	Scopus
	G. P. Kini, Mritunjaya Parashar, Muhammad Jahandar, Jaewon Lee, Vivek Kumar Shukla, and	Structure-property relationships of Diketopyrrolopyrrole and Thienoacene based A-D-A type hole transport materials for efficient perovskite solar cells	New J. Chem.	Royal Society of Chemistry	46	9572	Scopus and Web of Science



	Ranbir Singh						
	Ajay Kumar, Saurabh Kumar sharma, V grover, Vivek Kumar, Vivek Kumar Shukla, P.K.Kulriya	Probing the Short-Range Ordering of Ion Irradiated $Gd_2Ti_{2-y}Zr_yO_7$ ( $0.0 \leq y \leq 2.0$ ) Pyrochlore under Electronic Stopping Regime	Journal of Nuclear Material	Elsevier	564	Article 153682 <a href="https://doi.org/10.1016/j.jnucm.2022.153682">https://doi.org/10.1016/j.jnucm.2022.153682</a>	Scopus
	Anurag Tyagi, Kuldeep Mishra, S K Sharma, Vivek Kumar Shukla	Performance Studies on an Electric Double Layer Capacitor (EDLC) Fabricated using Edible Oil Derived Activated Carbon	Journal of Material science: Materials in Electronics	Springer	33	8920-8934	Scopus
	Gururaj P Kini, Mritunjaya Parashar, Vivek Kumar Shukla, Ranbir Singh	Deciphering the effect of replacing thiophene with selenophene in the diketopyrrolopyrrole (DPP)-based hole transport materials on the performance of perovskite solar cells	Sustainable Energy and Fuels	Royal Society of Chemistry	5	5994-6003	Scopus And Web of Science
Dr. Kanishka Sharma	Vijay, Neha Grover, Kanishka Sharma, Manjeet Singh Gautam, Manoj K. Sharma and Rishi Pal Chahal	Fusion-fission analysis of $^{12}C + ^{248}Cm$ and $^{16}O + ^{244}Pu$ nuclear reactions across the Coulomb barrier	Physical Review C	American Physical Society (APS)	106	064609	2022

<b>Dr. Alesh Kumar</b>	Alesh Kumar, S. Banerjee, P. Roy, H. Xu, C.R. Mariappa n	Osteogenic commitment of strontium nanoparticle doped mesoporous bioactive glass ceramics	Material Science & Engineering B	Elsevier	286	116068	SCI
	Alesh Kumar, V. Gajraj, A. das, D. Sen, H Xu, C. R Mariappa n	Silver, copper, magnesium and zinc contained electroactive mesoporous bioactive S53P4 glass-ceramics nanoparticle for bone regeneration: bioactivity, biocompatibility & antibacterial activity	Journal of Inorganic Organometallic polymer Material	Springer	32	2309-2321	SCI
<b>Dr. Mayora Varshney</b>	Aditya Sharma, Mayora Varshney, Yogesh Kumar, Ankush Vij, Ram K. Sharma, HyunJoon Shin	Structural, Electronic, and Magnetic Properties of $\text{NiGa}_2\text{O}_4$	Journal of Electronic Materials	Springer	51	4139-4144	SCI
	Aditya Sharma, Mayora Varshney, Tanisha Gautam, Anjali Sharma, Ankush Vij, Ram K. Sharma, Byeonghyeon Lee, Keun Hwa Chae, Sung Ok Won	XANES Investigations on Electronic Structure and Magnetic Properties of $\text{GaFeO}_3$	Journal of Electronic Materials	Springer	51	4133-4138	SCI
	Aditya Sharma, Ksh Devi, Mayora Varshney, Himani Saraswat, Surekha Chaudhary, Byeonghyeon Lee, So-Hee Kim, Sung Ok Won, Keun Hwa	Structural, Surface, and Electronic Structure Properties of Ag-Ion-Implanted $\text{SrVO}_3$ Thin Films	Journal of Electronic Materials	Springer	51	1900-1904	SCI



Chae, Ankush Vij, Ram K Sharma, Hyun- Joon Shin							
Aditya Sharma, M. Varshney, Y. Kumar, B. H. Lee, S. O. Won, K. H. Chae, A. Vij, R. K. Sharma, H. J. Shin	Electronic structure and magnetic assets of FeCoGaO <sub>4</sub> nanoparticles: An XANES investigation	Journal of Physics and Chemistry of Solids	Elsevier	161	110476	SCI	

## 7.5.2 Department: Department of Applied Chemistry

### 7.5.2.1 Academic Programmes

Programme Name	Programme Code
B.Sc. (Hons.) Chemistry	UV04
M. Sc. (Applied Chemistry)	PV02
Ph.D. (Applied Chemistry)	RV01
PG Diploma in Polyurethane Technology	PGV02

### 7.5.2.2 Laboratories Functional

Laboratories	Programme	Status
VP112	2019 B.Sc. (Hons.) Chemistry	All Functional
VP 114	B.Tech. (Engineering Chemistry)	
VP 107	M. Sc. (Chemistry)	
VP108	M. Sc. (Chemistry)	
VP109	M. Sc. (Chemistry)	

### 7.5.2.3 Research and development: (Papers published in refereed journals): 18

#### 7.5.2.3 Details of Ongoing Projects

1. Title of the Project: "Combating the challenge of antibiotic tolerance: Combining conventional anti-tubercular drugs with DevR dormancy regulator-targeted approaches for improving M. tuberculosis clearance.

Project No. 21054

Funding Agency: DST, Govt. of India, New Delhi,

Grant: Total Grant 47.30196 lakhs, GBU Grant Rs. 9.45 Lakhs

Duration: 3 years (2018-2021), Extended for 4th Year

2. RA-Niharika –Title of the Project: “Biochemical studies on antitubercular potential of kalonji oil and preparation of its nanoemulsion for clinical application”.

Grant No. 5/71/2018/PHA/BMS/OL

Funding Agency: Indian Council of Medical research, New Delhi,

Grant: Fellowship@ 47000/- + 24% HRA (month), Contingency: 20000/ year

Total Budget: (47000x12) + (11280x12) + 20000 5, 64,000+1,35,360+20,000=7, 88,240/-  
(788240x3=23, 64,720/-)

Duration: 3 years (2019-2022)

#### 7.5.2.4 Number of research papers in the Journals

S. No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
1	Characterization and Modification of Pect+ $A_{19}+A_3G_7A_3G_8+A_3G_9+A_{19}+A_3G_7+A_3G+A_3G_7$	Jaya Maitra*, Bhogendra Sharma and Seema	Der Pharma Chemica	2021	0975-413X
2	First-time proficient use of CuS nanoparticles as photocatalyst for degradation of both anionic and cationic dye.	Vandna Singh, Pratibha	Materials Today: Proceedings	2022	ISSN: 2214-7853
3	CuS nanoparticles with superior Sonocatalytic performance in the degradation of dye	Vandna Singh, Pratibha	Materials Today: Proceedings	2022	ISSN: 2214-7853
4	Microwave-assisted synthesis of heterocyclic metal complexes and evaluation of their in vitro anticancer activity against cancer cells, antioxidant and molecular docking study	Sabir Ali, Vandana Singh and Vishwas Tripathi	Indian journal of chemistry	2022	ISSN: 0975-0975
5	Amazing Health Benefits of Pearl Millet ( <i>Pennisetum glaucum</i> L. R. Br.)	Pal, K., Singh, U., Chamoli, M., Jangid, S., Ram, L. & Maheshwari, R. K.	J. Biol. Chem. Research	2022	2319-3077
6	Chemical constituents and pharmacological properties of anise seeds ( <i>pimpinellaanisum</i> L.)	Singh, U., Chamoli, M., Punar, S., Ram L. & Maheshwari, R. K.	International Journal of Environment and Health Sciences (IJEHS)	2021	Print: 1661-7827 web: 1660-4601
7	Shifting Environment Due to Ancillary Inducement of Quarantine & Lockdown (NCORV_COVID-19)	Rani, B., Singh, U., Ram, Yadav, R. K., Sharma, S. & Maheshwari, R. K.	Kalyan Bharti	2021	Print: 0976-0822



8	Novel benzoic thiazolidin-4-one derivatives targeting DevR dormancy regulator of Mycobacterium tuberculosis	Sharma D., <b>Sinha N.</b> , Neha Jain, Amit Kumar, Anjana Sarkar, Jaya Sivaswami Tyagi, <b>Rajesh Kumar Gupta</b>	Journal of Molecular Structure	2022	0022-2860
9	Anti-mycobacterial activity of heat and pH stable high molecular weight protein(s) secreted by a bacterial laboratory contaminant	Md. Sajid Hussain, Atul Vashist*, Mahadevan Kumar, Neetu Kumra Taneja, Uma Shankar Gautam, Seema Dwivedi, Jaya Sivaswami Tyagi, <b>Rajesh Kumar Gupta</b>	Microbial Cell Factories	2022	1475-2859
10	Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint	Deepak Kumar Malini S. Bapat, **, Hema Singh, Sudheesh K. Shukla, Prabal Pratap Singh, Dai-Viet N. Vo, <b>Alpa Yadav</b> , Abhineet Goyal, Ajit Sharma	Chemosphere	2022	Online : 1879-1298 Print ISSN: 0045-6535
11	Vapor Phase Alkylation of Isomeric Cresols with Tert-Butyl Alcohol over Perlite Supported Sulfated Zirconia Catalyst	Sakshi Kabra Malpani; <b>Deepti Goyal</b> ; Sampath Chinnam; Sunil K. Sharma; Stuti Katara; Ashu Rani	Sustainability	2022	2071-1050
12	Development of green, effective, and cost-efficient perlite supported solid base catalyst and application in condensation reactions	<b>Deepti Goyal</b> , Priyanka Renu Hada Stuti Katara Anita Bhatia Sakshi Kabra Malpani	Materials Today: Proceedings	2022	2214-7583
13	Turkish perlite supported nickel oxide as the heterogeneous acid catalyst for a series of Claisen-Schmidt condensation reactions,	Sakshi Kabra Malpani, <b>Deepti Goyal</b> , Stuti Katara, Ashu Rani,	Turkish Journal of Chemistry	2021	1300-0527
14	Inhalation Exposure to Atmospheric Nanoparticles and its Associated Impacts on Human Health: A Review	Saurabh Sonwani, Simran Madaan, Jagot Arora, Deepali Rangra, Nancy Mongia, <b>Tanvi Vats</b> , Pallavi Saxena	Frontiers in Sustainable Cities, section Climate Change and Cities.	2021	2624-9634
15	Activated carbon catalyst from agricultural waste and their impact on esterification reaction.	<b>Ruchi lamba</b>	Journal of biofuels	2022	Print : 0976-3015 Online : 0976-4763
16	Reaction kinetics model for heterogeneous solid catalyzed esterification of decanoic acid with ethanol	<b>Ruchi lamba</b>	Biomass Conversion and Biorefinery	2022	21906815, 21906823

17	Solar Energy Mediated Green Synthesis of Tetrahydrobenzo[b]pyrans Using L-Ascorbic Acid as an Organocatalyst in Aqueous Medium	<b>Swati Chauhan</b> , Ankush Mishra, Pratibha Verma, and Vandana Srivastava	Organic Preparations and Procedures International	2021	0375-9512
18	Urea hydrogen peroxide-initiated synthesis of pyranopyrazoles through oxidative coupling under base- and metal-free conditions by physical grinding method	Pratibha Verma, <b>Swati Chauhan</b> , Vishal Singh, Sundaram Singh, and Vandana Srivastava	Molecular Diversity	2021	1381-1991

### 7.5.3 Department of Environmental Science

The Department of Environmental Science came into existence under the University School of Vocational Studies and Applied Sciences (USVSAS) at the Gautam Buddha University in July 2011. The Department of Environmental Science boasts seasoned faculty and modern facilities for teaching-learning, research and outreach activities. The forte of the Department lies in a strong team and experienced faculty members with diverse specialization, viz., Biodiversity Conservation, Environmental Impact Assessment, Social Impact Assessment, Restoration Ecology, Natural Resource Management, Energy and Bioenergy, Sustainable Waste Management, Bio-remediation and Phytoremediation, Environmental Monitoring, and Remote sensing, etc.

The Department of Environmental Science acts as a Nodal Centre for teaching the Ability Enhancement Course (AEC) Environmental Studies (A compulsory course as per the UGC guidelines) for all educational streams of learning at various Departments of the University. The course content is developed in consultation and collaboration with academic and industry experts with the objective to create the high-caliber workforce required to meet contemporary challenges in the diverse areas of Environmental Science. The Department's Academic programs are reviewed, revised, and updated on a regular basis, taking into account the contemporary issues and needs of academia, research and industry. The Department of Environmental Science has been proactive in expanding the outreach of the University by building ties with eminent knowledge partners, such as, Jawahar Lal Nehru University (JNU), New Delhi; University of Delhi (DU), Delhi; CSIR- National Physical Laboratory (CSIR-NPL), New Delhi; CSIR- Central Road Research Institute, New Delhi; Botanical Garden of Indian Republic, Ministry of Environment, Forest and Climate Change (GoI), Noida, U.P.; Wildlife Institute of India (WII), Dehradun; Indian Council of Agricultural Research (ICAR), New Delhi; CSIR-National Institute of Science Communication and Policy Research (CSIR- NIScPR), New Delhi; World Wide Fund for Nature - India (WWF), New Delhi; Tamil Nādu Pollution Control Board (TNPCB), Chennai; Indian Agricultural



Research Institute (IARI), New Delhi; Banaras Hindu University (BHU), Varanasi; Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi; and G. B. Pant University of Agriculture and Technology, Pantnagar (Uttarakhand). The Department is acting as a nodal partner for the GBU in Memorandum of Understandings (MOUs) signed with ICAR-Central Agroforestry Research Institute, Jhansi (U.P.); Bharat Test House P. Ltd., Sonapat (Haryana); Ch. Ramesh Chand Charitable Trust, Ghaziabad, (U.P.); Eco-Tech Instruments, Kasna, Greater Noida, Gautam Budh Nagar (U.P.); and Western Sydney University, Australia.

During the last five years, more than 20 students of this Department have qualified NET/GATE/SET organized by UGC/ICAR/AICTE, etc. Enthusiastic participation of the Department in observing important days, viz., National Science Day, World Wetlands Day, Ozone Day, World Food Day, World Environment Day, Wildlife Week, Earth Day, etc. under the visionary leadership of the Hon'ble Vice Chancellor of the University and erudite mentorship of the Dean, University School of Vocational Studies and Applied Sciences has always been remarkable and well appreciated. The Department strives continuously to inculcate a scientific bent of mind and good academic and research aptitude among the students and research scholars through well-designed curricular and co-curricular activities.

#### 7.5.3.1 Faculty Members of the Department

Name	Designation
Prof. Dr. N. P. Melkania	Professor and Dean, USoVSAS
Dr. Manju Sharma (On leave)	Asst. Professor
Dr. Asha Pandey	Faculty on Contract
Dr. Shiv Shankar	Faculty on Contract
Dr. Sarita Joshi	Faculty on contract
Dr. Prachi Nautiyal	Faculty on Contract
Dr. Anil K. Shankhwar	Faculty on Contract
Dr. Gagan Preet Singh	Faculty on Contract
Dr. Sneh Lata	Faculty on contract

#### 7.5.3.2 Academic Programmes

The Department offers four (04) academic programs, viz., **Master Programme (M.Sc.)** in Environmental Science, **Doctoral Research Programme (Ph.D.)** in Environmental

Science (Full Time and Working Professional category), **Post Graduate Diploma in Environmental Management** (Full Time/Working Professional category), and **Post Graduate Diploma in Environmental Law and Policy** (Full Time/Working Professional category). All the programs follow the Choice-Based Credit System (CBCS) comprising of Core, Discipline-specific and Generic elective courses.

Additionally, the Department contributes as Knowledge Partner for Human Resource Development Programmes of the “Centre for Environment Law, Management and Research (CELMAR)” of the University School of Law, Justice and Governance, and Environment- Centric programmes of the Department of Applied Mathematics of University School of Vocational Studies and Applied Sciences. The Core courses of the Department, viz., Disaster Management, Waste Management, Environmental Impact Assessment and Sustainable Development, Energy and Environment, Fundamentals of Environmental Science, and Remote Sensing & GIS are well received by the learners of the University School of Engineering and the University School of Information and Communication Technology.

#### 7.5.3.3 Functional Laboratories

Laboratory	Condition	Laboratory Equipment
VP110	Functional	Air Quality Monitor, Atomic Absorption Spectrophotometer (AAS),
VP111	Functional	Autoclave (Vertical), Biological Oxygen Demand Analysis System with Incubator, Bomb Calorimeter, Carbon Dioxide Monitor, Carbon Monoxide Monitor, Centrifuge, COD/TOC Digestion System, Conductivity/TDS Meter, Digital Electronic Analytical Balance, Fume Hood, Gaseous Pollutants Sampler, GPS System, Handy Sampler, Hanna Instruments Temperature Correction Water Quality Meter/Analyzer, Hot Air Oven, Karl Fisher Titrator, Turbidity Meter, Laminar Air Flow, Light Microscope, Magnetic Stirrer with Hot Plate, Muffle Furnace, Multiparameter System for pH, TDS, COD, DO, BOD, Oil and Grease Analyser, pH Meter, Pre-programmed UV-Visible Spectrophotometer, Real Time Noise Monitor, Respirable Dust Sampler, Rotatory Flask Shaker, Total Kjeldahl Nitrogen Analyzer, Water Bath (6 Holes), Water Bath Shaker, and Water Distillation Unit
Automatic Weather Station (AWS)	Functional	Wind speed, wind direction, rainfall, Temperature, Relative Humidity (RH), Pressure



#### 7.5.3.4 Seminars/Conferences/Workshops/Extension Lectures Organized by The Department

Year	Name of the Activity	Title	Level (National/ International)	Date	Participants Nos.)
2021 - 2022	National Webinar	Career Opportunities in Environmental Science	National	19 June 2021	105
	Event	World Environment Day	National	05 June 2022	100

#### 7.5.3.4. Research and Development (Publications)

Name of Faculty Member	Name of Authors/ Title of Paper	Journal Name	Publisher	Volume	Issue/ No	Year	Page s Start - End
Dr. Shiv Shankar	Singh S., Evaluation of Idpe degradation under controlled composting and Shikha	<i>Nature Environment and Pollution Technology</i>	Technoscience Publications	20	03	2021	1295-1300
	Singh S., V., Shankar S. Evaluation of Singh, low-density polyethylene and degradation by bacteria isolated from hydrocarbon contaminated site Shikha	<i>Indian Journal of Environmental Protection</i>	Kalpna Corporation, Varanasi	41	01	2021	3-10
Dr. Sarita Joshi	Prajesh, S. Adsorption of and cationic dye Joshi, methylene blue from aqueous solutions onto biochar derived from kinnow ( <i>Citrus reticulata blanco</i> ) peel S.	Pollution Research	-	40	03	2021	742-746

#### 7.5.3.5 Awards/ Recognition Received by Faculty Members

Year	Name of the Faculty Member	Name of the Award	Status of the Award (Nat./Int.)	Name of the Conferring Agency	Date of the Award	Field/ Contribution
2021 - 2022	Prof. Dr. N. P. Melkania	Honorary Fellow	National	Indian Society of Agroforestry, ICAR-Cenytal Agroforestry Research Institute, Jhansi	2022	Agroforestry

#### 7.5.3.5 Celebrating the World Environment Day – 2022 at DES, USVSAS



#### 7.5.4 Department of Mathematics

The department of Applied Mathematics at Gautam Buddha University is located in the school of vocational studies and applied sciences. It was established at the beginning of the university. The department reflects the university's objective of excellence in teaching and research. In the pursuit of excellence, it aims to be consistent and oriented. It has grown into one of the country's premier Mathematics departments, delivering outstanding teaching and research. In addition, research is conducted in interdisciplinary areas of science and technology, contributing to the university's vibrant academic ambience.



#### 7.5.4.1 Academic Programmes

S. No.	Programme Name	Programme Code
1	B.Sc. (Hons.) Mathematics	BHM (UV05)
2	M. Sc. (Applied Mathematics)	PAM (PV04)
3	Ph.D. (Applied Mathematics)	PAP (RV03)

#### 7.5.4.2 Laboratories Functional

S. No.	Laboratories	Status
1	VP202	All Functional
2	VP 201	All Functional

7.5.4.3 Conferences, Seminars, Workshops, Training Programmes, invited talk, E lecture conducted: **05**

7.5.4.3 Research and development: (Papers published in refereed journals): **09**  
Innovation and Patents: **02**

#### 7.5.4.4 Details of Books Published

- Dipti Singh, Amit K. Awasthi, Kusum Deep, Ivan Zelinka, "Proceedings of International conference on Scientific and Natural Computing, SNC 2021, Algorithms for Intelligent Systems (AIS), Springer, 2021.

#### 7.5.4.5 Details of Patents

1. Patent Number 388833, "Photocontrol of Root Knot Nematode, Sohini Singh, Charul Sharma, Priya Vrat Arya, Tanu Allen, Dipti Singh, Granted to Amity University, Year 2022.
2. Patent Granted Number 388833, "Parasite Picking Gear", Sohini Singh, Tanu Allen, Charul Sharma, Dipti Singh, Granted to Amity University, Year 2022.

#### 7.5.4.6 Details of Conferences, Seminars, Workshops, Training Programmes, Invited talk, E lecture conducted

1. Given Invited Talk on "Basic Concepts and Application of PYTHON: Numerical Differentiation and Integration" in PSDA Activity, Amity University, Noida, 17th March, 2021.
2. Organized International conference on Scientific and Natural Computing, SNC, Department of Applied Mathematics, Gautam Buddha University, Greater Noida, February 5-6, 2021.

3. Two Week Online Refresher Course in Mathematical Sciences, held on 14-28 June 2021 at Ramanujan College of University of Delhi
4. Two-Week "REFRESHER COURSE IN MATHEMATICS" organised by the Department of Mathematics, Ramanujan College, Teaching Learning Centre, Ramanujan College University of Delhi, 31 August-14 September 2021
5. Attended one week FDP on "Data Analytics and Modelling Tools for Research", Teaching Learning Centre, Ramanujan College, University of Delhi, 16-22 January 2022.

#### 7.5.4.6 Details of Research papers

1. Comparative Study of DST Interpolation Approach of Fractional Order Journal of Mathematical and Computational Science, Volume 11, Issue 5, August 2021 pages 6061-6089.
2. Kumar P., Panwar V., Singh D., "An Adaptive Controller for a class of Nonaffine Nonlinear systems", International Journal of Mathematics and Computer Science, Vol. 16, Issue 1, pp. 67-77, June 2020.
3. Singh, D., Satija A. "Integrated municipal solid waste management in Faridabad City, Haryana State (India)" International Journal of System Assurance Engineering and Management. Vol. 11, pp. 411-425. <https://doi.org/10.1007/s13198-019-00869-8>, 2020.
4. H. Pratap and A. Ujlayan, "Digital Hilbert transformer designing approach using discrete sine transform method," Malaya Journal of Matematik, vol. 2, no. 1, pp. 3-8, 2021. [DOI: 10.26637/MJM0901/0145 PUBLISHER: University Press ISSN: 2319-3786(Print), 23215666(Online) INDEXING: Google Scholar, Zentralblatt fur Mathematik IF: NA]
5. A. Dixit and A. Ujlayan, "A novel technique to solve fractional order initial value problems," Journal of Mathematical Control Science and Applications, vol. 2, no. 1, 2022. [PUBLISHER: Muk Publications and Distributions ISSN: 0974-0570(Print) INDEXING: Google Scholar IF: NA]
6. D. P. Singh and A. Ujlayan, "Analytical solution of some classes of Riccati equation," AIP Conference Proceedings, vol. 2597, 060003 (2022). [DOI: 10.1063/5.0115516 PUBLISHER: AIP Publishing LLC ISSN: 0094-243X(Print) INDEXING: Scopus, UGC-Care (India) IF: NA]
7. A. Dixit and A. Ujlayan, "The theory of UD derivative and its applications," TWMS Journal of Applied and Engineering Mathematics, vol. 11, no. 2, pp. 350-358, 2021. [PUBLISHER: Isik University ISSN: 2146-1147(Print) INDEXING: Scopus, UGC-Care



(India), EmergingSources Citation Index IF: 1.892]

8. D. P. Singh and A. Ujlayan, An alternative approach to write the general solution of a classof second-order linear differential equations," Resonance, vol. 26, no. 5, pp. 705{714, 2021. [DOI: 10.1007/s12045-021-1170-8 PUBLISHER: Springer ISSN: 0971-8044 (Print), 0973-712X(Online) INDEXING: Scopus, UGC-Care (India) IF: 0.21]

9. H. Pratap, F. Zulfeqarr, and A. Ujlayan, Comparative study of DST interpolation approach of fractional orders," Journal of Mathematical and Computational Science, vol. 11, no. 5, pp. 6061{6089, 2021. [DOI: 10.28919/jmcs/6281 PUBLISHER: SCIK Publishing CorporationISSN: 1927-5307(Print) INDEXING: Google Scholar IF: NA].

## 7.6 School of Humanities & Social Sciences

The School of Humanities and Social Sciences is interdisciplinary in approach. It plays the pivotal role of exposing the students to an environment that is conducive to develop understanding of contemporary social issues through inter-relationship of science, technology and management. The school has a unique and distinctive role of hosting creative educational programme that focus on creating holistic understanding of complexities of life in social context with emphasis on Indian cultural values and Buddhist ethics. The academic programmes, designed in line with the best universities around the world, combine the best practices of pedagogy and class room teaching, complemented by practical training and experiential learning. The school is equipped with the avant-garde facilities for the students and supported by state-of-the-art central library with large collections of books, journals, audio-visual aids and other learning materials.

### 7.6.1 Departments and Centers

1. Department of Economics Planning and Development
2. Department of Education and Training
3. Department of English and Modern European languages
4. Department of History and Civilization
5. Department of Mass Communication and Media Studies
6. Department of political Science and International Relations
7. Department of Psychology and Mental Health
8. Department of Sociology
9. Department of Social Work
10. Centre of Linguistics
11. Centre for Hindu studies
12. Dr. Ambedkar Centre for the Study of Human Rights

## 13. Dr. Martin Luther King Jr. Centre for the Study of Interfaith and Global Peace

## 7.6.2 Academic Programme and Admission detail

S. No.	Programme	Admission	
		BA	MA
1	B.Ed. (Bachelors of Education) 20+23	---	---
2	BA/BSc and MA/M.Sc. Applied Psychology	65	32
3	B.A and M.A. (Economics)	57	11
4	B.A. and M.A. (History)	<u>7</u>	<u>5</u>
5	B.A. and M.A. (English)	32	07
6	Bachelors and Masters in Social Work (BSW/MSW)	11	10
7	B.A and M.A. Honours (Hindi)	1	2
8	BA and M.A. (Urdu)	2	2
9	B.A and M.A. (Mass Communication)	33	6
10	M. Phil. (Clinical Psychology) 10+10	----	---
11	B.A. (Hons.)/ M.A. Political Science	50	15

## 7.6.3 Laboratories functional

The Department has total 07 labs including 6 (psychology lab) and 01 media lab (in initial stage).

7.6.4 Conferences Seminars Workshops, Training programmes, invited talk, Expert lecture conducted: 45

7.6.5 Research and development (papers published in refereed journals): 64

7.6.6 Ongoing Projects: 06

7.6.7 Award/recognition to faculty members: 01

7.6.8 Department of Psychology

**Days celebrated for mental health awareness**

1. World Alzheimer's Day. 21 September 2021 & 2022
2. World Mental Health Day 10 Oct 2021 & 2022
3. Down Syndrome Day 21 March 2022 & 2023
4. Hellen Keller Day 27 June 2023



5. Educational Trip, Dehradun 3 July 2023
6. Community Mental Health Camp on World Autism Day at Dankaur Block, 2
7. April 2022 & 23
8. Schools visit for mental health awareness, most recent:
9. GRAD International School May 2023
10. Jaypee Public School Dec 2022

#### 7.6.9 Department of Education

1. Invited by National Council of Educational Research and Training for National Awards for Innovative Practices and Experiments in Education for Schools and Teacher Education Institutions 2022-23 for evaluation of project proposals on 21st & 22nd September 2022.
2. Invited by Devi Ahliya Vishwavidyalaya, Indore as an Resource Person to deliver a talk on "Research and Publication Ethics" during 3rd Refresher Course in Teacher Educators and NEP 2020 of UGC- Human Resource Development Centre on 15th September 2022.
3. Invited by Devi Ahliya Vishwavidyalaya, Indore as an Resource Person to deliver a talk on "Skill Based Education, Life Skills and Holistic Development" during 3rd Refresher Course in Teacher Educators and NEP 2020 of UGC- Human Resource Development Centre on 16th September 2022.
4. Invited by North East Regional Institute of Education (National Council of Educational Research and Training) as Resource Person to finalize the tool for Implementing Intervention at Elementary School Stage: A Block Level Research Project in Bhoirymbong Block on 5th & 6th September 2022.
5. Invited as Special Guest by Mangalmay Institute of Management & Technology for Orientation Programme of B.A.B.Ed. on 4th September 2022.
6. Invited as Resource Person on "Personal Emotional Development" in Faculty Induction Programme held on 1st September 2022 organized by UGC- HRDC Pondicherry University held from 18th August to 16th August 2022.
7. Invited as Resource Person on "Counselling Approaches" in Faculty Induction Programme held on 1st September 2022 organized by UGC-HRDC Pondicherry University held from 18th August to 16th August 2022.
8. Invited for invited talk on "NEP 2020: Challenges and Opportunities" by Modern College of Law, Ghaziabad, UP on 27th August 2022.
9. Invited as Resource Person on "Emotional Intelligence and Wellbeing" in Faculty Development Programme held on 17th August 2022 organized by Dept. of Psychology and Dept. of Sociology, Punjab University, Chandigarh.
10. Invited as Guest Speaker on "Data Collection & Analysis in Multi- Disciplinary

Research” organized by K.R Mangalam University in collaboration with Kasturba Institute of Psychology & Behavioural Medicine on 31st July 2022 during Online FDP held from 28th July 2022 to 3rd August 2022.

11. Invited as Guest of Honour by the Gopal Kiran Samaj Sevi Sanstha, Jwalior on the Occasion of National Education Conclave and Savitri Bai Phule Global Icon Education Award Ceremony held on 11st June 2022 at Indian Social Institute, Lodhi Road, New Delhi.
12. Invited as Keynote Speaker by Ganpati Institute of Science and Technology for National Webinar on “National Education Policy 2020-Challenges and Opportunities for Education Institutions” held on 16th April 2022.
13. Invited as Resource Person by Centre of Excellence of Jananayak Chandrashekhar University, Ballia on Mental Health during “Seven Days In- service Teacher Training Workshop” held from 29th March 2022 to 04th April 2022 on 2nd April 2022.
14. Invited as Resource Person by UGC-Human Development Centre, Deendayal Upadhyaya Gorakhpur University for the Online Refresher Course in Education for teachers of University and College on “Challenges and Opportunities of NEP 2020” held from 23rd March to 05th April 2022 on 2nd April 2022.
15. Invited as Resource Person by MITS, Gwalior to deliver talk on “Transforming the Regulatory System of Higher Education” for AICTE – QIP sponsored One week Online Short-Term Course on “National Education Policy: Implementation Strategies In Engineering & Technology Institutions” held from March 21st - 25th, 2022 on 24th March 2022.
16. Invited as Resource Person by UGC-Human Development Centre, Deendayal Upadhyaya Gorakhpur University for the Online Refresher Course in Education for teachers of University and College on “Multidisciplinary Education and Research” held from 23rd March to 05th April 2022 on 23rd March 2022.
17. Invited as Resource Person by MITS, Gwalior to deliver talk on “Innovative and Modern Pedagogy” for AICTE - QIP sponsored One week Online Short Term Course on “National Education Policy: Implementation Strategies In Engineering & Technology Institutions” held from March 21st - 25th, 2022 on 22nd March 2022.
18. Invited as Resource Person by UGC-Human Development Centre, Deendayal Upadhyaya Gorakhpur University for the Online Short-term Course in Teacher Education for University and College Teachers on “Construction of Online Tools for Teacher Education” held from 22nd to 28th February 2022 on 25th February 2022.
19. Invited as Resource Person by UGC-Human Development Centre, Deendayal Upadhyaya Gorakhpur University for the Online Short-term Course in Teacher Education



for University and College Teachers on “Innovative Pedagogies in Teacher Education” held from 22nd to 28th February 2022 on 22nd February 2022.

20. Invited as Keynote Speaker and Innovative Talk-Cum-Presentation on “NEP 2020: Innovative Teaching Approaches” in the International Workshop on “National Education Policy (NEP) 2020: Innovative Teaching Approaches” organized by the Vidya Bharati Uchcha Siksha Sansthan, Vidharbh Region, Maharashtra in collaboration with Internal Quality Assurance Cell (IQAC), North- Eastern Hill University (NEHU), Shilong, Meghalaya, Indian and SVU Computer
21. Centre, Sri Venkateswara University, Tirupati, Andhra Pradesh, India on 5<sup>th</sup> February 2022.
22. Invited as Resource Person by Centre of Excellence of Jananayak Chandrashekhar University, Ballia on ICT Concept and Operations during “Five Days In-service Teacher Training Workshop” held on 31st January 2022.
23. Invited by Devi Ahliya Vishwavidyalaya, Indore as an Resource Person to deliver a talk on “Skill Based Education, Life Skills and Holistic Development” during 2nd Refresher Course in Teacher Educators (Core) (Online mode) from 25th January 2022 to 7th February 2022 of UGC- Human Resource Development Centre on 28th January 2022.
24. Invited by Faculty Development Centre, MD University, Rohtak as Resource Person in Capacity Building Programme to deliver talk on “Best Practices in teaching in 21st Century” on 15th January 2022 in Two Week Capacity Building Programme through online mode under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) from 12th to 25th January 2022.
25. Invited by Faculty Development Centre, MD University, Rohtak as Resource Person in Capacity Building Programme to deliver talk on “Pedagogical Innovation in Teaching and Learning” on 15th January 2022 in Two Week Capacity Building Programme through online mode under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) from 12th to 25th January 2022.
26. Invited by Guru Gobind Singh Indraprastha University as Resource Person to deliver talk on “Holistic Development and Mental Wellbeing” on 31<sup>st</sup> December 2021 in the Five Days’ Online Workshop from 27th to 31st December 2021.
27. Invited by Jagannath Institute of Education, Jims Engineering Management Technical Campus, Greater Noida (GGSIP University) to deliver online guest lecture on “National Education Policy 2020-Teacher Education” on 27th December 2021.
28. Invited to deliver a talk as Resource Person on “Building and Promoting Quality Culture in Higher Education” on 29th November 2021 in the seven days Online Workshop on “Quality Assurance in Higher Education Institutions: Challenges Ahead held from 23rd

to 29th November 2021.

29. Invited as Guest Speaker on “NEP 2020: Multidisciplinary requirements in Teacher Education” on 22nd November 2021 during Two Days National Conference on NEP 2020 and Teacher Education organized by Govt. College of Education (IASE) Cluster University, Srinagar held from 22nd to 23rd November 2021.
30. Invited by Guru Gobind Singh Indraprastha University as Resource Person on “Pedagogical Transformation in Higher Education in the light of NEP 2020” on 27th October 2021 in the One-week Online Faculty Development Programme conducted on National Education Policy 2020: A Road Map for Future India from 25th to 31st October 2021.
31. Invited as Resource Person by UGC-Human Development Centre, Deendayal Upadhyaya Gorakhpur University for the First Faculty Induction Programme on “Self” on 8th September 2021 held from 6th September to 5<sup>th</sup> October 2021.







#### 7.6.10 The Department of Economics, Planning & Development

The Department of Economics, Planning & Development was established in 2011 and recorded consistent improvement in its academic, research and placement performance. It offers BA (Hons.) and MA -Economics innovatively designed programs whose curricula content are constantly updated to meet the changing requirement of the industry and to meet the needs of major stakeholders. During study at the department, the students are encouraged to get hands-on experience in the industry through internship projects with reputed organizations. In their curriculum, they are encouraged to take up mini projects to supplement theoretical knowledge with practical experience. They also undertake projects benefiting local industries or dealing with local problems. These projects enable them to understand the relevance of working in a group and also help them to realize the finer aspects and importance of teamwork.

## About The Department

The Department of Economics, Planning and Development was established in 2011 and Department offering two programmes namely- M.A in Economics, Planning and Development and B.A. (Hons.) Economics. **M.A in Economics** is a two-year programme divided into four semesters. The Department started in the year 2011 and the M.A programme is designed according to CBCS (Choice Based Credit System). Thus, the students have the opportunity to choose two discipline specific elective courses in their preceding semester from the 2015 batch onwards. **B.A (Hons.) Economics** is a three year programme divided into six semesters. The programme started in the year 2019 and now having its second, third and fourth batch continuing in the department. The programme is designed according to the CBCS in 2019 and planning to switch to NEP in the coming session.

### 7.6.10.1 Conference, Seminar, Workshop, Training, Expert Lecture, Invited Talk

#### Activities And Achievements of the Department

- Department of Economics, Planning and Development, Gautam Buddha University, Uttar Pradesh, India organized a virtual expert lecture on the “**Research Methodology: Computerised Analysis & Interpretation**” on March 16th, 2022. This invited virtual lecture was delivered by Dr. Niharika Srivastava, Assistant Professor of Economics, PBPG College, Uttar Pradesh.



- Topic -Scope of Research in Economics on 13/05/22

Department of Economics, Planning and Development, Gautam Buddha University, Uttar Pradesh, India organized an expert lecture on the ‘Scope of Research in Economics’ on May 13, 2022 in the Conference room. The program started at 9:30 am with the welcome address by Dr. Ombir Singh, Head of the Department, DOEPD. He highlighted the vision of the department and gave an insight of undergraduate and postgraduate level programmes. Subject expert, Dr. Devesh Birwal, Assistant Professor, Delhi School of Economics was the dignitary invited for the seminar. He briefly introduced data collection methods, i.e., Primary and secondary data and highlighted the importance of different software’s like SPSS, STATA



and R for data analysis and research. He said that research is a tedious job, however the payback is worth it, and briefed the future prospects of Economic research in RBI, World Bank, Niti Ayog and other institutions. He concluded the lecture laying out aspects of economics in different fields and encouraged students to pursue careers in Economics. This expert lecture was conducted under the direction of Dean School of Humanities and Social Sciences Dr. Neeti Rana. On this occasion, Dr. VK Shanwal (HOD Education), Dr. Roopali Srivastava (Programme Coordinator), Dr. Satpal, Ms. Divya Lohani, Ms. Anamika Singh, Ms. Dhvani Gupta and other faculty members were present.

#### 7.6.10.2 Research & Development- (Paper Published)

- Presented a paper entitled “MSMEs in India: An Inequality Reducing Measure” in INTERNATIONAL SEMINAR organised by UPADHI mahavidyalaya, Pilibhit ,Uttarakhand ,December 11<sup>th</sup> -12<sup>th</sup> 2021.
- Presented a paper entitled “Rural & Urban Poverty in India: A Comparative Study” in 17<sup>th</sup> National Conference in University of Allahabad, U.P, Dec. 4-5, 2022.
- Published a paper entitled “A Comparative Analysis B/W Rural &Urban Poverty in India” in VARTA, Refereed Journal, Volume XLII, April (2022) ISSN:0970-9177

#### 7.6.10.3 Department Faculty Profile

S. No.	PROFILE
1	Dr. Ombir Singh Head of The Department M.B.A., M.A., Ph.D. & NET in Economics Area of Specialization: General Economic Theories, Economic Development & Managerial Economics
2	Dr. Roopali Srivastava Programme Coordinator M.A., D.Phil. in Economics Area of Specialization: Micro Economics, Macro Economics, Public Finance, Indian Economy, and Industrial Economics

#### 7.6.11 Department of English & Modern European Languages

The Department of English and Modern European Languages with its two major points of focus: English Literature and Communicative English, strives to train students in literature, language and literary and professional writings. The Department opens to you a world of vibrant thought, rich experience, and immense opportunity designed to inspire you to explore your interests and accomplish your dreams.

##### 7.6.11.1 Programmes offered in the Department

- B.A. (Hons) in English (60 seats)
- M.A. in English (20 seats)
- PhD in English
- Post-Graduate Diploma in English Language Teaching (30 seats)
- Post-Graduate Diploma in Creative Writing (30 seats)

#### 7.6.11.2 Conference/Seminars/Workshops/MDPs/FDPs conducted

Faculty Name	Participation in Conferences/Seminars/Workshops/others
Dr. Bipasha Som	<ul style="list-style-type: none"> <li>• Attended (FDP) Literary Studies in the New Millennium Organized by In weeks by the Department of English. Pondicherry University, 18th to 24th October 2021.</li> <li>• Attended the Swaminathan Lecture on The Philosophy of Literature by Prof. Dhananjay Singh organised by Department of English Dr. Harisingh Gaur University, Madhya Pradesh, on 15<sup>th</sup> March 2022.</li> <li>• Presented a paper titled "Diseased From the womb": Metaphor of Sickness in Mahashweta Devi's Mother of 1084" at international conference on Illness, Healing, and the Literary Imagination. Dept of English, Shoolini University, Solan 12-14 November 2021.</li> </ul>

#### 7.6.12 Department of Indian languages and Literature (URDU)

Department of Indian Languages and Literature School of Humanities and Social Sciences Gautam Buddha University has been established ever since the university came into existence. It is one of the oldest and reputed school of the university. Specific to M.A, B.A (Urdu) programme, it has established its positive identity across the country with successful representation in the realm of higher education. Language is the source of expression as well as culture. Keeping this theme centric to planning and execution, Gautam Buddha University is paying due attention to Urdu language. Not only acknowledging but at the same time with the intend of preserving some well-known languages, the university is imparting courses in some of the important languages. The composition and structure of MA (Urdu) is also a forerunner of the same educational development and Urdu language.

##### 7.6.12.1 Academic Programmes

In order to elevate the stature of Gautam Buddha University and make it one of the applauded educational institutions of our country, the Vice-Chancellor, Dean of the School and Head of Department of Indian languages and literature (Urdu) have deliberated on the strategies,



desired efforts and future course of actions. The regular MA education program commenced in the year 2012 followed by commendable result outcomes of the students. The year 2019 was equally consequential as it witnessed the BA (Hons) programme. The university has been proved capable of providing the conducive and progressive environment for the holistic development of the students. Another feather in the crown was added with the launch of PhD programme in this school.

#### 7.6.12.2 Conferences, Seminars, Workshops, Training Programmes, invited talk, Expert lecture conducted

The academic exercise and excellence also include Mushairas, journalistic lecturers, national seminars and cultural programs. Poetry gatherings of Urdu and Hindi poets are organized in the main auditorium of the university every year. Department of Indian languages has organized a national seminar in 2012. Apart from this, National Seminar on Contemporary Urdu Journalism, Common Cultural Heritage: National Seminar in the context of Sufism and Bhakti, Mushaira and Kavi Sammelan, Literary Debate, Poetry Session etc. are ongoing regular features of the department which is considered as important activities. It is seen as the part of civilization and plays an important role in the promotion of brotherhood. Department of Indian Languages and Literature School of Humanities and Social Sciences, Gautam Buddha University is leading in every occasion. Literary activities and events.

#### 7.6.13 Department of Political Science and International Relations

**Department of Political Science and International Relations (DoPS&IR)** is one of the flourishing departments of the School of Humanities and Social Sciences (SoHSS). The Department is fully committed to serve the egalitarian liberal tradition of intellectual curiosity and academic rigour. The core objective of the Department is to inspire students to become passionate and enable them to think critically about public life and public institutions. Since politics is the master key to opening a multitude of avenues in the quest for a good society, understanding how individuals shape their public life to strive to accomplish their objectives collectively, can best be unfolded by the disciplinary inquiry with the application of suitable methodologies and approaches. A comprehensive layout of the programmes undertaken at the Department is a well-intended effort in that direction. The Department believes that, it is essential to provide all students with a grounding in institutions, theory, and political processes. Students are equipped with the tools to analyses policy issues and to conduct and evaluate research. The outstanding reputation of the Department can largely be attributed to the strength of our faculty. The interdisciplinary nature of the faculty members brings a wealth of professional and academic experience into the classroom. The Department offers B.A.(Hons.)

at the Graduation level, M.A. at the Post Graduation level, and Ph.D.

#### 7.6.13.1 Academic Programmes

- **B.A. (Hons.) Political Science B.A. (Hons.)**

Political Science is an undergraduate three-year (six semesters) full-time programme with an intake of 60 students. The undergraduate courses of the Department are designed to develop a critical understanding among the young minds about the public life, public institutions, public morality, ethics, and governing structure cutting across the historical stages. As a popular subject across the discipline of social sciences, Political Science has also been useful for competitive examinations as a substantial part of their syllabi is secured by Political Science.

- **M.A. Political Science and International Relations**

M.A. in Political Science and International Relations is a two-year (four semesters) full time programme with an intake of 30 students in every academic year. The programme is divided into four semesters crafting specifically by putting the disciplinary knowledge more condensed and deeper as compared to the graduation level. This PG programme aims at building up the rich, diverse yet profound understanding of political phenomena, ideas, institutions and also increasingly complex relations which encompass patterns of interaction between states and transnational actors, and issues and factors shaping the present day's international order.

- **Doctoral Programme**

The Department offers a platform for the significant multidisciplinary research within a range of issues encompassing politics both in national and international contexts.

#### 7.6.13.2 Research Advisory Committee Conducted: **Yes**

#### 7.6.13.4 Research and development: (Papers published in refereed journals,

Name of Faculty Member	Name of Author	Title of Paper	Journal Name	Publisher	Volume	Issue	Year	Page s Start-End	Category
Dr. Akshay Kumar Singh	AKSHA Y KUMAR SINGH	Indo-Israel and Indo-Bangladesh Relations: Changing Contours of Foreign Policy	Third Concept (Two Authors)	BK, Prakash Deep Building, New Delhi ISSN: 09707247	Vol.36	429	Nov 2022	103	UGC Care



		Instability Festering in Central Asia: Probing the Interplay of Internal and External Factors in Kazakhstan's 2022 Unrest	The Calcutta Journal of Global Affairs (Two Authors)	Kolkata ISSN: 25822241	Vol. 6	3	September 2022	307	UGC Care
		The Pandemic, Economic Recession, and the Indian Expatriates: Tiding Over the Gloom in Indo-Gulf Relations	Refugee Watch (Two Authors)	Kolkata ISSN: 2347405X	Vol. 58	December	2021	25	UGC Care
		Paris Climate Agreement, COVID-19 and India's Dilemma of Competing Priorities	Madhya Bharati (Two Authors)	Sagar, MP ISSN: 09740066	Vol. 80	January-June	2021	107	UGC Care
Dr Vivek Kumar Mishra	Dr Vivek Kumar Mishra	Democrats VS Republicans: Contrast between the two Presidencies in the United States	<b>World Affairs: The Journal of International Issues,</b>	Publisher	Vol. 25,	Issue/ No.3	Autumn 2021	84-99	Category
		Cross Border Terrorism in India	<b>Terrorism and National Security</b> (Journal of Terrorism and National Security)		Vol.1,	Issue 1,	April 2021	pp. 6-18	
		China's Belt And Road Initiatives Examining Debt Trap Diplomacy For Regional Supremacy in The Context Of Sri Lanka	<b>World Affairs: The Journal of International Issues</b>	Spring	Vol. 25,	No.1,	2021	pp.122-135.	
Dr Pankaj Deep	Dr Pankaj Deep	Enrolment Parity in Indian Higher Education: An Unfinished Inclusion,	Education and Society,	Education and Society, Pune.	Vol. 45,	(03),	2022,	149-164.	UGC Care

#### 7.6.13.5 Activities of the Department

1. **Classroom instruction:** The department typically offers a range of courses at both graduate and postgraduate levels, covering topics such as political theory, international relations, comparative politics, public policy, and more.
2. **Research:** Faculty members often engage in research projects on various topics related to political science and international relations, which may involve conducting surveys, analyzing data, and publishing scholarly articles or books.
3. **Conferences and seminars:** The department organize or participate in conferences, workshops, and seminars on regular basis, which provide opportunities for scholars and students to present and discuss their research, as well as to network with others in the field.
4. **Student Coordinating Committee:** Department have student Coordinating Committee which is very active in organizing seminars and departmental fests related to political science and international relations, such as Model United Nations or debate clubs, which provide students with opportunities to develop their skills and engage with the wider community.
5. **Summer School:** The department may offer Summer School or work-study programs that allow students to gain practical experience in areas such as government, non-profit organizations, or international organizations.
6. **Guest speakers:** The department often invites guest speakers, including academics, policymakers, and practitioners, to give talks on various topics related to political science and international relations.
7. **Study abroad programs:** The department may offer study abroad programs, which allow students to study political science and international relations in other countries and gain a deeper understanding of global issues. Overall, the Department of Political Science and International Relations focuses on providing students with a comprehensive understanding of political science and international relations, as well as opportunities to engage in research, practical experiences, and networking with others in the field.
8. **National seminar on Indic Perspective on International Relations:**

A National Level Seminar was organized by the Department of Political Science and International Relations School of Humanities and Social Sciences Gautam Buddha University on the theme “**EMERGING DYNAMICS OF INDIA’S INTERNATIONAL ENGAGEMENT**” on 23<sup>rd</sup> of Dec 2022. The seminar was held in two Sessions morning and afternoon sessions. The morning session started exactly at 11 am sharp. The speaker



of this session was Ambassador Sh Suresh K Geol(Rtd). Ambassador Sh Suresh K Geol is a veteran officer with 35 years of experience in the diplomatic service of India, Sh Suresh K Geol has spent more than 10 years of his career in South East Asia in Singapore, Malaysia, Laos, and China. He has worked actively on the India-ASEAN partnership. He has personally witnessed the evolution of ASEAN as the most important regional organisation in South East Asia. He has served in the Permanent Mission of India in New York from 1991-95 where he worked on peace and security-related issues. He worked on the concepts of Preventive Diplomacy, Preventive Deployment, and Peace Keeping. He has also served in different capacities in different places. In the Ministry of External Affairs, he has handled the crucial China Desk and as Director for Europe East including Russia, and for the Central Asia Division responsible for Turkey, Kazakhstan, Turkmenistan, Tajikistan, Kyrgyzstan, and Uzbekistan.

The seminar was attended by luminaries from academicians and policy analysts world. The chief patron Hon'ble Vice Chancellor Gautam Buddha University **Prof. R.K. Sinha**, patron Dean School of Humanities and Social Science **Prof Bandana Pandey**, special invitee **Prof. Niranjana Prakash Melkania** Dean School of Vocational Studies and the Convenor Head of the Department of Political Science and International Relations **Dr. Akshay K. Singh** well comed the speaker and other guests.

The seminar was inaugurated by lighting the lamp by Hon'ble Vice Chancellor **Prof. R.K. Sinha. Prof Bandana Pandey, Prof. Niranjana Prakash Melkania, Dr Akshay K Singh**, and the speaker of the event chief Guest Ambassador Sh Suresh K Geol(Rtd). After this the felicitation of the dignitaries took place. Dean SoHSS Prof Bandana Pandey delivered the welcome address to the gathering. She talked about the changing dynamics of world politics and illustrated the importance of **Vasudhaiva Kutumbakam** by quoting several political urgencies, which are not possible without cooperation specifically with respect to the environmental problems, peace, and information exchange.

Dr. Akshay K Singh the convener of the programme introduced the subject, he delivered the keynote address where he detailed the theme of the seminar. In it, he highlighted about the present position of India in international politics, where the whole world is looking towards it with great optimism and respect. He talked about the way India has changed itself from an aid-receiving position to a world superpower position. Where he has not just conducted the world's largest vaccination drive but also transported vaccination doses all over the world, India supplied Covid-19 Vaccine Doses to more than 101 Countries.

Hon'ble Vice Chancellor talked about the vision and mission with he gave to the Department of political science and International Relations GBU. He talked about the new heights which the department is achieving. He appreciated the culture of talks, debates, discussions, and seminars which is very common in the department. He stressed upon the scientific and

rational thinking. He also mentioned about the soft power potential of India citing the example of Yoga.



#### 7.6.13.4 Any other information

##### Future Planning

1. **Interdisciplinary education:** Department of Political Science and International Relations Gautam Buddha University is Emphasizing on interdisciplinary education, Political science and international relations are fields that are deeply interconnected with other disciplines such as economics, sociology, history, and law. A focus on interdisciplinary education will better prepare students to tackle complex global issues.
2. **Expand research opportunities:** Research is a critical component of political science and international relations, and the department can encourage faculty and students to engage in research activities through funding, grants, and collaboration opportunities.
3. **Foster global connections:** International relations is an inherently global field, and the department can leverage technology to connect students with global peers, experts, and institutions. The department can also host international conferences, seminars, and exchange programs to foster intercultural exchange and collaboration.
4. **Enhance technological literacy:** With the growing role of technology in politics and international affairs, it is essential for students to develop technological literacy. The department can offer courses on data analytics, social media, cyber security, and other relevant topics.
5. **Address contemporary issues:** The department can design courses and research programs that address pressing contemporary issues such as climate change, pandemics, inequality, and human rights. This approach will not only attract students but also ensure that the department's research and education remain relevant and impactful.

#### 7.6.14 Department of History and Civilization



The variety of methods and approaches adopted in studying History is one of the major exercises that is being done in the teaching-learning process of History at Gautam Buddha University. The course structures of the two programmes being offered by the Department of History and Civilization are designed to prepare the students at par with History studies at the global level. The programmes nurture values related to overall wellbeing of the students. They develop critical thinking and emotional stability of the student. The courses are designed to make him aware of social justice and develop his skills for employability.

#### 7.6.14.1 Academic Programmes

The department is running two programmes, BA (Hons.) History and Civilization and MA History and Civilization. The MA programme is of two years duration and has four semesters of six months each. has three core courses in each semester which include course on the historiographical interventions and research methodology. The courses are designed chronologically and thematically. There are a wide range of options for the students in three elective courses in each of the semesters from first to the third. In the fourth semester there is only one elective course and the student has to write a dissertation instead of two more elective courses. In the first-year global civilizations are taught, except in the generic categories where the courses offered are of interdisciplinary nature or history courses other than the theme of the semester. In the second year the student chooses the main stream he is going to specialize in. It can be either in Ancient, Medieval or Modern India.

The course structure of B.A. Honours follows the CBCS pattern under LOCF. The syllabi which was first prepared when the programme came in to being in 2019, has been revised two times since then. As it has developed over the years, it includes a wider and increased number of elective courses for the students to choose from.

In March 2023 BOS was held at university level and the syllabi of BA Hons. Was revised for the second time and syllabi of MA History was also approved.

S. No.	Roll No.	Name	Name of the Activities
1.	2019/UHIS/002	Ashwani Raj	Played flute at the Technothon Inauguration ceremony -and Dawat-i-Gbu
2.	2019/UHIS/005	Harshita Agrawal	Volunteer at Dawat-i-Gbu
3.	2020/UHIS/003	Priyanshi Chahal	-is an NSS volunteer -is a part of NCC

			-has done a research project internship organised by Students for Holistic Development of Humanity at Hindu College on "Alternative Stories of Freedom Struggle"
4.	2020/UHIS/004	Shikha Singh	-is an NSS volunteer -has done a research project internship organised by Students for Holistic Development of Humanity at Hindu College on "Alternative Stories of Freedom Struggle"
5.	2020/UHIS/005	Srishti Tiwari	-is an NSS volunteer -has done a research project internship organised by Students for Holistic Development of Humanity at Hindu College on "Alternative Stories of Freedom Struggle"

#### 7.6.14.2 Admissions

S. No.	Course Name	No. of Admissions
1	BA (Hons.) History and Civilization and	07
2	MA History and Civilization	05

#### 7.6.14.3 Department/ Centre of Excellence: Mass Communication and Media Studies

#### 7.6.14.4 Laboratories/ Workshops/ Training Centre and Facilities: 1 Media lab (Initial stage)

#### 7.6.14.5 RDCs held

S. No.	Date	Roll/ Reg No.	Candidate	Approved Title	Supervisor
1	3.5.2021	20/DJMC/001	Gaurav Kumar	Media Literacy and Fake News: A Study of Social Media Users in India	Prof. Bandana Pandey
2	3.5.2021	20/DJMC/002	Monika Gaur	Auteurship in Indian Cinema: A Study of Films of Hrishikesh Mukherjee	Prof. Bandana Pandey
3	3.5.2021	20/DJMC/003	Sanchita Chakrabarty	Health Communication Paradigms and Perspectives: A Study on Community Health Workers and Beneficiaries	Prof. Bandana Pandey
4	3.5.2021	20/DJMC/004	Shweta Arya	Gatekeeping in Environmental Journalism: A Study of Mainstream Media Professionals	Prof. Bandana Pandey
5	3.5.2021	20/DJMC/005	Shalini	Cyber bullying in Social Media Networks: A Study amongst Youngsters	Prof. Bandana Pandey



6	3.5.2021	20/DJMC/006	Shivanand Pandey	Srimad Bhagwat Gita me Samkara ke Darshana Pratimanom Aura Vividha Ayomom Ka Visslesanatmaka Adhyayana	Prof. Bandana Pandey
7	3.5.2021	20/DJMC/007	Vidhanshu Kumar	Portrayal of Nationalism in Sports Journalism 'A Content Analysis of Hindi and English National Dailies of India	Prof. Bandana Pandey
8	3.5.2021	20/DJMC/008	Vineet Kumar	Dynamics & Dimensions of Artificial Intelligence in Media Higher Education	Prof. Bandana Pandey

1. Research Scholar Gaurav Kumar and Shweta arya were selected for **ICSSR Doctoral Fellowship**, 2021
2. Research Scholar Shalini and Monika Awarded with ICSSR Doctoral Fellowship, 2022

#### 7.6.14.6 Conference/Seminars/ Workshops/ MDPs/FDPs conducted

- Workshop on '**Fake News and Fact verification**' was organized on 28<sup>th</sup> December 2021. The students learned to critically examine fake news and achieved a mindful way of dealing with misinformation and disinformation. The resource person of the workshop was **Mr. Nimish Kapoor**, Scientist 'E' and Head - Publications Division and Science Film Festival Division.
- **A workshop on Photography and Videography** was organized on 19<sup>th</sup> May 2022 in the department of Mass Communication and Media Studies.
- National Press Days Celebration on 14 Nov 2021

#### 7.6.14.7 Activities/Events

- **Media Visit** at AajTak Mediaplex was organized for BJMC and MJMC students on March 15<sup>th</sup> and 16<sup>th</sup> 2022. Students covered LIVE programme on 'The Kashmir Files' and 'Hallaboli.' Students also interacted with popular News Anchors, Bollywood Stars and Politicians. They also learned the techniques of Camera, Light, Sound and production.
- **Media Visit** was organized for the students on 22<sup>nd</sup> April 2022 at Media Plex, India Today Group. They participated in the programme 'Buldozar par Siyasat' and got the opportunity to interact with News Anchors and eminent politicians.
- Students organized a **Fresher party** in the campus on 4<sup>th</sup> May in which the new batch was welcomed by the senior students.
- January 2021 Edition of **Newspaper 'GBU Chronicle'** was produced by BJMC and MJMC students.
- Radio PSA/ Vox Pop/ Radio News Bulletin produced by MJMC students.
- Short video/ Still Photography/ Documentary production by MJMC students.

#### 7.6.14.8 Students Achievements in the Session 2019-2022

- Research Scholar Gaurav Kumar and Shweta Arya were selected for **ICSSR Doctoral Fellowship**.
- Research Paper published by Vineet Kumar, PhD Scholar, MCMS, SOHSS on the topic 'Analyzing the impact of COVID 19 vaccine infodemic on social media: A study of Human behavior in the state of Uttar Pradesh, India' Published in 'International Journal of Research and Analytical Reviews in the Year 2021.
- Research Paper published by Gaurav Kumar, PhD Scholar, MCMS, SOHSS on the topic 'Evaluation of Science Communication on Social Media: A content Analysis of Facebook Pages.' Published in 'International Journal of Health Sciences' in the Year 2022.
- Research Paper published by Prof Bandana Pandey, Sanchita Chakrabarty, and Vineet Kumar PhD Scholar, MCMS, SOHSS on the topic 'Role of Artificial Intelligence in health communication: with special reference to Smart watch technology.' Published in 'International Journal of Health Sciences in the Year 2022.
- Prof. Bandana Pandey with Shalini published a paper on Prevalence of Cyber Bullying on Social Media: A Review, 2022
- Prof. Bandana Pandey with Shalini published a paper on Teaching and learning through web: A study, 2022
- Prof. Bandana Pandey with Shalini published a paper on Social media in higher education: A study to explore Student perspective and experiences
- Prof. Bandana Pandey with Monika Gaur published a paper on Contemporary Representation of Women as "Grih- Nirmatri" in Hindi Cinema, 2022
- Student Aditi Sood joined as Producer in Electronic Media Channel News X.
- A **YouTube channel** was started by MJMC students through which they presented various VLOGS on different topics.
- May 2022 Edition of **Newspaper 'GBU Print'** was produced by the MJMC final year students.




## YouTube Channel

## Twitter Handle

3:13 PM 4G 20

← Mass Communicat... 🔍 ⋮



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Gautam Buddha University, established by the Uttar Pradesh Act (9) of 2002, commenced its first academic se...


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The account created for public awareness regarding COVID -19. An initiative of Dept of Mass Communication & Media Studies Gautam Buddha University, Greater Noida

Joined April 2020

## 7.6.15 Department of Social Work

The Department of Social Work in the School of Humanities and Social Sciences in Gautam Buddha University started in 2011. The Department of Social Work is offering Bachelor of Social Work (BSW) and Master of Social Work (MSW) programmes. BSW and MSW programmes are designed to contribute towards the developmental need and to produce efficient professionals for the development/ humanitarian sector as a whole.

## 7.6.15.1 Academic Programmes

- Bachelor of Social Work (BSW) programme

- Master of Social Work (MSW) programme

#### 7.6.15.2 Admissions (Program wise number)

- Bachelor of Social Work (BSW) programme: **11**
- Master of Social Work (MSW) programme: **10**

#### 7.6.15.3 Research and development: (Papers published in refereed journals):

- Siddaramu B (2021), Labour Reforms in India: Issues and Concerns in AAYAM-AKGIM Journal of Management (July-December 2021), Vol. 11 Issue 2 ISSN: 2231 – 4326.

#### 7.6.16 Department of Psychology and Mental Health

The inception of Department of Psychology & Mental Health under the aegis of University School of Humanities & Social Sciences at Gautam Buddha University took place in the academic year 2011. Having the philosophy of Buddhist Psychology in its roots. The department envisions earning the national and international recognition, particularly in the area of Applied Psychology and Mental Health. At its core, the department carries the mission to promote the virtues of mindfulness, social equanimity and psychological well-being among students and the people around through its academic and research ventures and mental health services. The department strives to be a premiere research & training centre in the area of psychology and mental health.

##### 7.6.16.1 Academic Programmes

1. B.A./B.Sc. (Honors) in Applied Psychology
2. M.A./M.Sc. in Applied Psychology (Specialization in Clinical & Counseling Psychology, Organizational Psychology & Forensic Psychology)
3. Post Graduate Diploma in Guidance and Counseling (PGDGC)
4. M.Phil in Clinical Psychology (RCI Accredited)
5. Ph.D. (Applied Psychology, Clinical Psychology, Forensic Psychology)

##### 7.6.16.2 Laboratories Functional

1. Psy. Lab Facilities
2. Brain Behavior Research Laboratory
3. Clinical Psychology Specialty OPD
4. Center of Excellence for Intellectual & Learning Disability
5. Digital Cognitive Therapy Clinic
6. University Counselling Center



### 7.6.16.3 Research Advisory Committee Conducted

#### **Aakriti Varshney,**

Effectiveness of Neurofeedback Therapy on P300 Event Related Potential and Executive Functioning among Patients with Schizophrenia under supervision of Dr. Anand Pratap Singh.

### 7.6.16.4 Conferences, Seminars, Workshops, Training Programmes, Invited Talk, Expert Lecture Conducted

#### **Conference:**

1. 6<sup>th</sup> International Conference of Indian Academy of Health Psychology (ICIAHP-21) with the support of many International and National organizations. This was based on Clinical Health Psychology; Training, practices and licensing.
2. 7<sup>th</sup> International Conference of Indian Academy of Health Psychology (ICIAHP-22) with the support of many International and National organizations. This was based on Mental Health & Wellbeing in Post Covid Scenario with Global perspective, comprised of many awards for exclusive contribution of researchers and scholars.

#### **Workshops:**

- Hypnosis based By Dr. Rakesh Jain, Gurukul Kangri, Haridwar
- Trauma Relaxation Technique By Dr. Wael Mustafa Abu-Hassan, Palestine
- Somatic Inkblot series by Prof. B.L. Dubey
- Workshop on Research Methodology by Dr. Sandeep K.

#### **Training Programmes:**

Clinical exposure and field training through below organizations:

- Government Institute of Medical Sciences (GIMS), Greater Noida, U. P.
- SHANTI HOME, Psychiatric and De-addiction Hospital, Greater Noida
- District Government Multispecialty Hospital, Noida
- District Mental Health Program, Gautam Budh Nagar World Brain Center, New Delhi
- BAKSON Homeopathy Medical College and Hospital, Greater Noida

#### **Expert Lecture/Invited Talk**

Dr. Narendra Thagunna, Nepal based on suicide prevention

Dr. Salony Priya based on counselling technique

## 7.6.16.4 Research and Development: (Papers Published In Refereed Journals)

S. No.	Title of paper	Name of the author/s	Name of journal	Year of publication
1	Computer- Assisted Cognitive Re-Training as an intervention for Children with Specific Learning Disability: A Review.	Bansal, G. & Singh, A.P	International Journal of Indian Psychology	2021
2	Psychodynamic Perspective of Sexual Obsessions in Obsessive Compulsive Disorder: A Case Report	Chaudhary, S. Singh, A.P. & Varshney, A	Annals of Neurosciences	2022
3	Effectiveness of a Computer Assisted virtual Cognitive retraining in improving the reading dictation and copying skills of school- going Children	Bansal, G. & Singh, A.P	International Journal of Studies in Psychology	2022
4	Impact of Covid-19 Pandemic on Patients with Preexisting Psychiatric Conditions: A Systematic Review	Sehrawat. K., Varshney, A.&Singh, A.P	Delhi Psychiatric Journal	2022
5	Planned Behaviour and Subjective Well-being among adults during Pandemic	Sharma.N	Indian Journal of Behavioral Researches and Therapies	2023

## 7.6.16.5 ONGOING PROJECTS:

1. In-house Projects: "Effect of alpha, beta and theta Audio-Visual Brainwave Entrainment on Mood, cognition, heart rate variability and psychological profile of healthy adult volunteers."
2. Funded Projects: "Post imprisonment psychosocial rehabilitation of Juvenile delinquents" funded by ICSSR, New Delhi.

## 7.6.16.6 Award / Recognition to Faculty Members

Award	Name	Year
Innovative Scientist Award in Health Psychology (IAHP)	Dr. Anand Pratap Singh	2021

## 7.6.16.7 Any Other Information

Days celebrated for mental health awareness

1. World Alzheimer's Day. 21 September 2021 & 2022
2. World Mental Health Day 10 Oct 2021 & 2022
3. Down Syndrome Day 21 March 2022
4. Community Mental Health Camp on World Autism Day at Dankaur Block, 2<sup>nd</sup> April 2022.



## Glimpse of few of the events:

## मनोविज्ञान से मजबूत हुईं थीं लेखिका हेलन कैलर



ग्रेटर नोएडा। गौतम बुद्ध यूनिवर्सिटी में मनोविज्ञान और मानसिक स्वास्थ्य विभाग में मंगलवार को हेलन कैलर डे मनाया गया। कुलपति प्रोफेसर आर के सिन्हा ने छात्राओं को बताया कि जन्म से ही आंखों से दिखाई न देने और मूकबधिर होने के बावजूद मनोविज्ञान की सहायता से हेलन कैलर अमेरिका की मशहूर लेखिका, प्रोफेसर और राजनीतिक कार्यकर्ता बन सकी थीं। वह कला स्नातक की उपाधि अर्जित करने वाली पहली मूकबधिर और दृष्टिहीन महिला थीं। उन पर बनी फिल्म का प्रसारण विभाग में किया गया।

विद्यार्थियों ने कुलपति को हेलन कैलर की आत्म कथा 'द स्टोरी आफ माय लाइफ' को स्मारक चिह्न के तौर पर भेंट किया। यहां विभागाध्यक्ष प्रोफेसर आनंद प्रताप सिंह, अधिष्ठाता प्रोफेसर वंदना पांडेय आदि मौजूद रहे। व्यूरो

## गौतम बुद्ध विश्वविद्यालय में प्रोजेक्टिव टेस्ट पर कार्यशाला का आयोजन



मनोविज्ञान और मानसिक स्वास्थ्य विभाग द्वारा गौतम बुद्ध यूनिवर्सिटी में प्रोजेक्टिव टेस्ट पर कार्यशाला का आयोजन कराया गया। कार्यशाला में मुख्य वक्ता के तौर पर अलास्का यूनिवर्सिटी, अमेरिका के पूर्व प्रोफेसर एवम सोमेटिक इंक्वॉलेंट सोसायटी के प्रेसिडेंट डॉ बंके लाल दुबे ने अपने विचार प्रस्तुत किए।

सोमेटिक इंक्वॉलेंट सीरीज के महत्व को समझने में हमारी मदद करते हुए उन्होंने यह भी प्रदर्शित किया कि कैसे यह परीक्षण एक चिकित्सक को रोगी के आंतरिक संघर्षों और आंतरिक दुनिया को समझने में मदद कर सकता है व कैसे इस परीक्षण की छवियां किसी व्यक्ति को चिकित्सीय रूप से मदद कर सकती हैं।

कार्यशाला में विभाग के सभी संकाय सदस्य एवम

दो सौ बच्चों ने इसमें प्रतिभाग लिया। प्रोफेसर बंदना पांडे, डीन, स्कूल ऑफ ह्यूमैनिटीज एंड सोशल साइंसेज द्वारा सभी बच्चों और संकाय सदस्य को संबोधन करते हुए अपने आशीष वचन दिए। उन्होंने छात्रों की ईमानदारी और अनुशासन के लिए उनकी प्रशंसा करते हुए उनका मनोबल बढ़ाया और विभाग को इस तरह की और कार्यशालाएं करने के लिए प्रोत्साहित किया। कार्यशाला के अंत में, डॉ आनंद प्रताप सिंह, प्रमुख, मनोविज्ञान और मानसिक स्वास्थ्य विभाग द्वारा धन्यवाद ज्ञापित किया गया।

कार्यशाला में विभाग के सभी संकाय सदस्य उपस्थित रहे। जिसमें डॉ शिवानी पांडे, डॉ अश्विनी निशत, डॉ नेहा, डॉ सुजाता, डॉ पूजा, मिस शिप्रा और मिस अदिति शामिल रहे।





## तनाव मुक्त समाज के लिए चिकित्सा मनोवैज्ञानिकों की अग्रणी भूमिका: प्रो रविन्द्र कुमार सिन्हा

भास्कर ब्यूरो

ग्रेटर नोएडा। मनोविज्ञान एवम मानसिक स्वास्थ्य विभाग, गौतम बुद्ध विश्वविद्यालय के द्वारा 27 फरवरी को एक चिकित्सा मनोविज्ञान के पासिंग आउट बैच के लिए एक सम्मान समारोह का आयोजन किया गया। समारोह के मुख्य अतिथि गौतम बुद्ध विश्वविद्यालय के कुलपति महोदय प्रो रविन्द्र कुमार सिन्हा थे तथा विशिष्ट अतिथि के तौर पर स्कूल ऑफ ह्यूमैनिटीज एंड सोशल साइंसेज की अधिष्ठाता प्रो बंदना पांडे शामिल हुई। समारोह में विभाग के सफल विद्यार्थियों को प्रशंसा पत्र एवं स्मृति चिन्ह के साथ सम्मानित किया गया। मनोविज्ञान एवम मानसिक स्वास्थ्य विभाग के विभागाध्यक्ष डॉ आनंद प्रताप सिंह ने बताया की यह हमारे लिए एक गौरव का क्षण है की पासिंग आउट बैच के 90% बच्चों का प्लेसमेंट हो चुका है। जिन बच्चों की विभिन्न अस्पतालों में चिकित्सा मनोवैज्ञानिक के तौर पर नियुक्ति हुई उनका विवरण निम्नवत है। तितिक्षा पॉल, शांति होम



हॉस्पिटल, करुणा सेहरावत, अपोलो हॉस्पिटल, अनीशा बत्रा, वर्ल्ड ब्रेन सेंटर, सोनम, मैक्स हेल्थकेयर गुरगांव, ऐश्वर्या पांडे, निर्वाण हॉस्पिटल, लखनऊ, हिमानी सिंह, कीर्ति, सौम्या सिंह, वर्णिका कोटनाला, प्राची इत्यादि बच्चों को रोजगार प्राप्त हुआ। सभी बच्चों की नियुक्ति 5-7 लाख रुपये के एनुअल पैकेज पर हुआ है। कार्यक्रम के दौरान सभी बच्चों ने गौतम बुद्ध विश्वविद्यालय द्वारा उपलब्ध कराए गए प्रशिक्षण एवम लर्निंग की प्रशंसा करी एवम सभी जूनियर बच्चों को चिकित्सा मनोविज्ञान के क्षेत्र में आगे आने के लिए प्रेरित किया। कार्यक्रम के दौरान स्कूल की

अधिष्ठाता प्रो बंदना पांडे जी ने सभी बच्चों का मनोबल बढ़ाया और विभाग की इस उपलब्धि के लिए भूरी भूरी प्रशंसा करी। कार्यक्रम के दौरान मुख्य अतिथि के तौर पर कुलपति महोदय प्रो रविन्द्र कुमार सिन्हा ने अपने आशीर्ष वचनों से बच्चों को अभिभूत किया। उन्होंने बताया की यह गौतम बुद्ध विश्वविद्यालय के लिए एक गर्व का क्षण है एवम सभी बच्चों को अपनी शुभकामनाएं देते हुए इस बात के लिए प्रेरित किया कि वह मानव कल्याण एवम समाज कल्याण के लिए अपना सर्वश्रेष्ठ दें एवम मानव समाज को तनाव मुक्त रखने में अपनी अग्रणी भूमिका निभाएं।



## 7.7 School of Buddhist Studies & Civilization

Buddhism is gaining popularity internationally and the numbers of people who are becoming increasingly dissatisfied with their unhappy modern lifestyles are ever on a rise. They are only beginning to reap the benefits from the wisdom of the Buddha's teachings and understand that the profound path of the Buddha Dharma can lead them to peace, liberation, ultimate happiness and enlightenment. In order to achieve this, it is necessary to receive the teachings from a perfect master under conditions which are favourable for learning and receiving these necessary teachings. The aim of the School of Buddhist Studies & Civilization is to provide a venue conducive for followers from any part of the world to gain spiritual knowledge and enhance their spiritual development along with higher learning in Buddhist Studies. The school aspires, through a contemplative path of meditation, study and community activities, to awaken to our innate goodness, our wisdom and compassion, and to express this goodness in our daily life.

### Vision

School of Buddhist Studies & Civilization envisions a world in which a wide diversity of people, interested in learning about Buddhism, has easy access to the Gospel of the Buddha's Teachings in order to foster the qualities of wisdom and compassion for the benefit of humanity.

- Provide qualified faculties to impart the authentic teachings of the Buddha to students who are interested to engage in learning Buddhist Studies and quality research.
- Provide guidance and assistance to students towards the clear, proper understanding and realization of the Teachings of the Buddha.
- Provide a conducive environment, favourable for the systematic learning of the Buddha Dharma.

### Mission Statement (The Buddhist Path)

School of Buddhist Studies & Civilization's is a centre of higher learning, working to the highest standards, to provide both traditional and modern Buddhist Education through teaching, translation, publication, research and practice. Recently, Govt of UP has declared it as the Centre of Excellence in Buddhism and Indian Tradition. Further, the School aspires to create a wakeful society of kindness, generosity and courage, within our homes, our community and in the world.

The school aspires to make our Center and activities available to all, regardless of religion, spiritual tradition or teachers, path of practice, opinions, class, nationality, culture, ethnicity,

race, political views, age, gender, sexual orientation, or physical, perceptual or mental abilities.

### 7.7.1 Establishment of School of Buddhist Studies & Civilization

Buddhist Studies & Civilization is the academic study of Buddhism which applies especially to the modern academic field and is distinct from Buddhist philosophy or Buddhist theology. Buddhism is a growing force in the world. In recent years there has been a tremendous upsurge of interest in the religious studies, particularly in America and Europe. We have also seen a worldwide increase in academic interest in the relationship between science and Buddhist teachings. As a consequence of this development, interest in and study of Buddhism is no longer restricted to believers and religious academics but has attracted wider participation by people in many other fields and religious backgrounds. This has in turn produced an even richer pool of talent and knowledge that will enrich serious Buddhist studies. In line with this trend, the School of Buddhist Studies & Civilization of Gautam Buddha University was established in 2011 to promote the study of and research into all aspects of Buddhism and its relevance to the world of today. Here, it is imperative to mention that probably this is the only University in India where this discipline is started as a Faculty/School and not as Department. It is the first of its kind to be set up in India. Since 2012-2013, the school has been offering a broad range of Buddhist studies at postgraduate (M. A.) and research (M. Phil. / Ph. D.). After the getting a good response, School has introduced under graduate programme in also during the academic session 2014-2015 i.e., Integrated [B. A. (Hons.) + M. A.] Five Years programme of Ten (10) Semesters with exit option after completion of B. A. (Hons.) or Three Years or Six (6) Semesters. Our courses covering social application, Indian Buddhism, Chinese Buddhism, Buddhist Canonical languages, Buddhist Meditation and others are taught by a team of renowned Buddhist scholars from all over India. School has also started a course on Buddhist Meditation at Jyotiba Phule Dhyana Kendra of the University under the supervision of the faculty of our School since 2012.

The School of Buddhist Studies & Civilization is a consequential nucleus for the academic research and discourses leading to the promotion of peace and harmony guided by Buddhist Ethics and human values. The very quintessence of Buddhist Ethics and its practices in global world are torn apart by conflict, hatred and violence and thus have lost its due recognition. Therefore, the research and practices carried out at School reinforces respect for the Buddhist tradition and appreciation for its benevolent values and profound spiritual emancipation. The research and other programmes offered in School intertwined together the diverse theories in Buddhism and its expressions in our day to day life, mediating a



meaningful inclusion of Buddhist values in our cultural, social and intellectual assumptions. It stands out as an effort to revitalize the Buddhist Ethics and practices which find immense significance in the modern context. The school encourages comparative study of Buddhism vis-à-vis other major world religions and their philosophies with an attempt to understand how the various Buddhist movements across the world have helped the societies in their emergence, for instance the Dalit Movement in India. It also facilitates researches aimed at finding ways of resolving national and international conflicts and disputes through the application of Buddhist principles and values. With a rich and magnificent literate collection in our library, a marvellous meditation centre and a conducive and tranquil lush green campus, the school promises a very productive academic engagement and practice of Buddhist techniques of Vipassana under qualified supervision. In addition to the above, the school provides an ideal forum for cross-cultural, interfaith and intellectual dialogues of scholars through conventions, symposia, seminars, conferences, lectures, etc. The school promotes academic collaboration, MoUs, joint research programmes and faculty and student exchange programmes with academic institutions of repute dedicated to Buddhist Studies in the World. In order to do so, last year i.e., 2013, School has signed a Memorandum of Understanding (MoU) with Dhammachai International Research Institute (DIRI) based in Bangkok, Thailand, New Zealand and Australia.



The School of Buddhist Studies & Civilization oversees a variety of research programs, scholarly events, and outreach activities, often in collaboration with units on and off campus. Activities include a colloquium series, conferences, a visiting scholar program, etc. The school is dedicated to promoting and supporting scholarship in Buddhist Studies in a spirit of non-sectarian tolerance and with scientific research and communication as preeminent

objectives. It seeks to promote the academic study, and teaching, of all aspects of Buddhist thought, practice, social, economic, human rights, animal right, global issues of concern including historical interactions with Buddhist developments in South, East, and Central Asia. The Gautam Buddha University started its academic activities in 2009 but academic activities of this School started since November 2011 with appointment of eleven faculty members. By the end of December 2011, the faculty members have prepared a course structure for M. A., M. Phil., Ph. D. along with two mandatory papers of Human Values and Buddhist Ethics for UG and PG students of the University. This is also one of the distinct features of this University. The school has been dedicated to providing Buddhist education and training in this discipline since then. The USP of this school is its international students whose number is as much as almost 90% of total enrolment.

### 7.7.2 Career Prospects After Buddhist Studies

#### Acquiring competencies and skills

The post-graduate programme in the School of Buddhist Studies, Philosophy and Comparative Religions at GBU provides students with the opportunity to engage with a range of disciplines:

- Buddhist Studies
- Buddhist Archaeology and Art
- Other Religious Traditions in the Cultural Contexts of Buddhism
- Theory and Methods of Religious Studies
- History of Religion
- Comparative Study of Religions
- Classical Languages for the Study of Buddhism and other Asian Religions
- Critical Theory of Religious Studies
- Asian Traditions of Philosophy
- Regional Focus: South Asia, South East Asia, East Asia

Other crucial competencies and skills that students will be trained to develop simultaneously are:

- Ability to frame well-structured, coherent and evidence-based arguments, both oral and written.
- Putting forward and developing research ideas in a cogent manner.
- Collecting, investigating and analyzing various kinds of material in a methodologically logical and coherent way.



- Comprehending and synthesizing facts, ideas and information retrieved from different strands of sources.
- Integrating and critically applying academic theory into research projects
- Research abilities and skills in academic interpretation of historical sources (texts, artefacts).

### Career Pathways

Training in Buddhist, Religious Studies and Philosophy imparts transferable skills enabling graduates to pursue careers in many directions:

- Archivist / Librarian
- Researcher/ Scholar (Buddhologist, Archaeologist)
- Teacher
- Religious Commentator
- Peace Activist
- International Organizations
- NGOs
- Policy maker in the field of Peace and Conflict Resolution
- News Analyst/Journalist
- Cultural Administrator
- Advice Worker
- Social Worker
- Motivational Speaker
- Meditation Expert
- Buddhists Counselor and Author

### Career Options

Depending on level of education and experience, career options in this field might include clergy member, religious worker or university instructor. Visit the links below to get information about job responsibilities and potential earnings for these positions.

- University Professor
  - Clergy Member
  - Careers for Religious Studies Majors
  - Religious Vocations
-

### 7.7.3 What School Offers

The programme is intended for students, monks, nuns, teachers, psychologists, social workers and counsellors who want to study how Buddhist teachings add a new dimension to the science of human psyche and how they are applied to their daily work. It is also for individuals who are interested in the philosophy of life and want to study Buddhism and its practice as a means for spiritual development in a comprehensive and scientific way. We believe our programmes of studies offer a new dimension on the study of Buddhism. The traditional approach of study was based on learning religious texts and commentaries and was largely conducted in monasteries and specialized institutes. Our programmes go far beyond this by offering new perspectives on many other areas not traditionally associated with the study of the religion. The programmes will offer students the opportunity to study Buddhism not only as a religion but also as a philosophy, an ethics system and in metaphysical terms. They will also be of interest to those who wish to learn more about the international academic research being carried out into the relationship between science and Buddhism. Through a fundamental understanding of Buddhist teachings, the programmes will enable students to develop better mind and life-management skills. The courses provide you with a step by step approach that gently leads students through an overview of the world of Buddhism. The program focuses on the study of canonical and post-canonical languages and literature of the Buddhist tradition. Therefore, successful completion of the program requires extensive language and textual study.

The program offers a concentration in South Asian Buddhism with the relevant languages (Sanskrit, Pāli, Gāndhāri, and Chinese). Related courses in disciplines other than language and literature, such as cultural anthropology, history, philosophy, religion, and ethnomusicology, constitute an important part of the program, and students will normally take courses in these disciplines. In particular, our Master of Buddhist Studies & Civilization Programme (M. A.) and postgraduate research programme leading to the award of M. Phil. and Ph. D. degrees provide participants with the opportunity to explore how Buddhist teachings may add a new dimension to the science of the human psyche and how their application may enhance effectiveness in their personal and professional lives. We believe that India uniquely combines an Eastern culture and tradition with all the dynamism of an ultra-modern and cosmopolitan society and therefore provides the perfect setting for an academic centre that offers Buddhist studies set firmly in an international context.

The specific program of courses will be worked out on an individual basis between the student and faculty. Prospective students should consult with the Dean/Head of Department of the School (Foreign nationals are advised to consult Director, International Affairs).



#### 7.7.4 The School offers following programmes

Level	Programmes
At Graduate Level:	B. A. (Hons.)
At Post Graduate Level:	M. A. (Master of Arts)
At Pre-Doctoral Level:	M. Phil. (Master of Philosophy)
At Doctoral/Research Level:	Ph. D. (Doctoral of Philosophy)
Diploma/Certificate:	Certificate Course in Pâli Language and Literature (Part-Time)
	PG Diploma in Pâli Language and Literature (Part-Time)
	PG Diploma in Buddhist Tourism and Heritage (Part-Time)

#### 7.7.5 Mindfulness and Vipassana Meditation Course

In addition to curricular inputs, the University has Meditation and Vipassana facilities at its Mahatma Jyotiba Phule Dhyana Kendra, promoted as learning and retreat centre to give an experience of the power of peace and inner silence. At this Centre, University use to organize weekly course, seminars, lectures, and experiential workshops in Mindfulness Vipassana Meditation, Yoga, stress free living and self-management, which aims to help the participants in recognizing their own inherent qualities and recollect their inner most potential. The Centre and its programme focus to develop the meditational skills. The Centre's activities designed to explore different Buddhist Meditational methods such as mindfulness of breathing (anapana-sati), loving kindness(metta-bhavana), Just Sitting (Zazen), Compassion(karuna-bhavana), Vipassana meditation (sati-patthana) and mindful yoga and who we can practically apply them in daily life to solve our problems. We have courses on Meditation and Vipassana are structured especially for beginners but can also be suitable for intermediate meditators to continue developing their understanding and experience in this meditation technique. We offer online and off line (in house) courses which are:

1. One Week Course
2. 10 Days Course
3. 15 Days Course

#### 7.7.6 Working and Official Association with Foreign Countries

Since then, inflow of foreign nationals started in GBU in various programmes of university but in the first academic session 2012-2013, students admitted only in MA, M. Phil. and PhD programmes of Buddhist Studies. The International Students registered in this University

since its inception, belong to following countries (Working Relationship of GBU):

S. No.	Countries	S. No.	Countries
1	Vietnam	10	Canada
2	Myanmar	11	Mangolia
3	Thailand	12	Yemen
4	Lao PDR	13	Afghanistan
5	South Korea	14	Sri Lanka*
6	China	15	Fiji
7	Cambodia	16	Suriname
8	Nepal	17	Bangladesh
9	USA	*Foreign Student passed out from Sri Lanka but not Sri Lankan Citizen	

#### 7.7.7 MOUs with Foreign University/Institutions

We have initiated the process of tie up with Indian Council for Cultural Relations which resulted into getting ICCR sponsored foreign students to GBU. This has started with 1 and 4 ICCR sponsored students in 2016-2017 and 2017-2018 respectively. We are also instrumental in tie-up of University through MOUs with International institutions.

Till now School of Buddhist Studies & Civilization has signed MOUs with

- Dhammachai International Research Institute, Australia and New Zealand with headquarter in Thailand.
- Mahabodhi International Meditation Centre, Leh Ladakh.
- Membership of International Association of Buddhist Universities (IABU).

Four more MOUs are in pipeline and hope to get it done in coming future which is

- Sanchi University of Buddhist-Indic Studies (In progress)
- Dongguk University, South Korea (In progress)
- Sejong University, South Korea (In progress)
- Nanhua University, Taiwan (In progress)

Gradually we are going to expand its outreach to other countries and getting overwhelming



response from international students. In the coming academic sessions, International Affairs Office has already started receiving applications for upcoming academic session 2021-2022.

#### 7.7.8 Branding and Visibility of GBU Abroad

1. Detailed News about Gautam Buddha University and its programs got published every year since 2012 till 2017 around Admission Process in Vietnam and one in one of the most prestigious newspapers of South East Asia countries named Bangkok Post on October 5, 2017.
2. News about SOBSC, GBU published in one of the major news magazines named 'Bangkok Post' widely circulated magazine in South East Asian countries.
3. Regular publication of news related to activities of Buddhist Studies in News and electronic media in national and state level newspapers and also online news portal from time to time.

#### 7.7.9 Association with Government Agencies and Universities

##### Abroad:

- International Association of Buddhist Universities (IABU)
- Dhammakaya Education Foundation, Thailand (through DIRI)
- Vietnam Buddhist University, Vietnam
- Sitagu International Buddhist Academy, Mandalay, Sagaing Hills, Myanmar
- International Theravada Buddhist Missionary University, Yangon, Myanmar
- Dhammaduta University, Yangon, Myanmar
- Mahaculalongkornrajavidyalay University, Wang Noi, Ayutthya, Thailand (through IABU)

##### India:

- Ministry of Culture, Government of India through Membership of International Buddhist Confederation (a sister concern of Ministry of Culture).
- Ministry of External Affairs, Govt of India through Indian Council for Cultural Relations (ICCR).
- Indian Council for Historical Research (ICHR), New Delhi
- Indian Council for Social Science Research (ICSSR), New Delhi
- Indian Council for Philosophical Research (ICPR), New Delhi
- University of Delhi
- Banaras Hindu University, Varanasi
- Punjab University, Chandigarh, Punjab
- Punjabi University, Patiala
- Nava Nalanda Mahavihara, Nalanda, Bihar

- University of Calcutta, Kolkata, West Bengal
- Lucknow University
- Magadh University, Bodh Gaya, Bihar



#### 7.7.10 Academic Programmes Admissions (Program wise)

Programmes Name	Number of Students
B. A. (Hons.)	08
M. A. (Master of Arts)	17
M. Phil. (Master of Philosophy)	18
Ph. D. (Doctoral of Philosophy)	05
Certificate Course in Pâli Language and Literature (Part-Time)	Nil
PG Diploma in Pâli Language and Literature (Part-Time)	Nil
PG Diploma in Buddhist Tourism and Heritage (Part-Time)	04

#### 7.7.11 Research Advisory Committee Conducted

Roll No. of Student	Name of Ph.D. Student	Name of Supervisor
212/DBS/001	Mr. Kovida	Dr. Manish T. Meshram
212/DBS/002	Ms. Nguyen Thi Bich Thi	Dr. Gyanaditya Shakya
212/DBS/003	Ms. Nguyen Thi Le Hang	Dr. Chandrashekhar Paswan
212/DBS/004	Mr. Luong Dinh Tin	Dr. Priyadarsini Mitra
212/DBS/005	Ms. Duong Thi Kim Uyen	Dr. Priyadarsini Mitra



### 7.7.12 Conferences, Seminars, Workshops, Training Programmes, Invited talk, Expert lecture conducted

#### Dr. Chandrashekhar Paswan

- Online Workshop on 'Brahmi Script 17th to 27th July 2021, SIDDHAM, Institute of India & Intercultural Studies, Sarnath, Varanasi
- Invited Lecture -1 'Role of Diverse Cultural Expression in India on the Topic-Salhes Ammorth Sanskritik Virasat, Two days National Intangible Cultural Heritage Festival in India, Sangeet Natak Academy, Organized by Govt. of India, New Delhi, 28 August, 2021.
- Paper Presented on title 'Smrat Ashok ke Abhilekhon mein Varnit Baudh Vicharon ka Adhunik Bharity Samaj or Sanskriti par prabhav, 21th Annual Conference, Indian Society for Buddhist Studies University of Jammu-J. Organized by Nav Nalanda Mahavihar, Nalanda, Bihar, 3rd-oct-5th 2021,
- Certificate of Participation as a part of team for academic discussion organized by ITIHASA division of Eternal Hindu in association with Indian Knowledge System „Ministry of Education, Government of India on 'Chronological History of India' on 24 July 2021, New Delhi.

#### Dr. Chintala Venkata Sivasai

- **Orientation Programme:** Successfully completed Orientation Programme for Faculty in Universities/Colleges from 19<sup>th</sup> November to 18<sup>th</sup> December, 2021 at University of Delhi (Teaching Learning Centre, Ramanujan College, Delhi) **(28 Days)**
- **Faculty Development Programme:** Successfully Participated in Faculty Development Programme on **Research Methodology** from 23<sup>rd</sup> October to 06<sup>th</sup> November, 2021 **(14 Days)** at University of Delhi, (Teaching Learning Centre, Ramanujan College, Delhi).

#### Dr. Priyadarsini Mitra

- Presented paper on “**Buddhism: A Synonym of Humanism**” as a Resource Person in the one-day National Level Webinar on “**Humanism and Religious Pluralism**” organized by the Department of Philosophy in Coordination with Internal Quality Assurance Cell (IQAC) of Gobinda Prasad Mahavidyalaya, Amarkanan, Bankura, held on 23rd June, 2021.
- Deliver lecture on “**Lokiya and Lokuttara Cittas in Abhidhamma Pitaka: Paths to attain Nibbana**” as a Resource Person in a 7-days Short Term Course/ Workshop on “**Buddhist Doctrine Perspective, their Meditational Roots, Ethics and Stereological Results**” organized by Department of International Buddhist Center, Siddharth

university, Kapilvastu, Siddharth Nagar, UP held from 8<sup>th</sup> October 2021 to 14<sup>th</sup> October, 2021

- Presented paper on **“Importance of Panadura Debate on the Resurgence of Buddhism”** in the three-day International Webinar held on **“Pananura Debate 1873” in the promotion of Pali Language and Literature** under the programme series of Second Pali fortnight (17 September 2021 to 01 Oct 2021) which is being organised by Bhadantacharya Buddhaddatta Pali Promotion Foundation, on 25-26 September, 2021.
- Presented paper on "Philosophical Psychology of Abhidhamma Pitaka for Betterment of Individual Life" in the Weekly International Meeting on Dhamma English and the Tenets of Buddhist Traditions organized by Nguyen Thieu Dhamma English Club, Dinh Dinh School of Buddhist Studies, Binh Dinh Province, Vietnam on 27th April, 2022.

### **Dr. Manish T. Meshram**

#### **Conference participations (Speaker/Resource Person/Organizer)**

- The paper presented title on “Trirant ki Bouddh Samaj main Bhumika” at Two days online national webinar, organized by Nagpur University, Nagpur, on 26-27<sup>th</sup>, Feb 2021.
- The paper presented title on “Relevance of dhammkranti and Democracy in modern era” at Two days international conference on Nov.25-26<sup>th</sup>, 2021, at Ludhiana, Punjab.
- The paper presented title on “Adhunikyug main Dr. Ambedkar ka manovigyaniksamajikdarshan.” Two days webinar organized by Subharati University, Meerut, U.P. on 14<sup>th</sup> April 2021.

#### **Organized workshop/courses on Vipassana Meditation**

- **3 Days residential course on “Mindfulness Vipassana Based Stress Reduction”** during 24<sup>th</sup> to 26<sup>th</sup> December 2021. In this course were 22 participants from various professionals from Delhi, Noida, and Ghaziabad. They would learn practice of mindfulness and vipassana meditation for reducing stress in their daily lives.
- Weekly regular Meditation Class on “Mindfulness Based Reducing Stress (MBRS), at Meditation Centre, GBU.

#### **7.7.13 Research and development: (Papers published in refereed journals,**

##### **Dr. Chandrashekhar Paswan**

- Paper Publication--Bauddha Dharma mein Dana: ek samikshatmak Awalokan, Bodhi Path online journal, Mumbai -Issue-19 -Page no-79-90(2021)

##### **Dr. Arvind Kumar Singh**

- Singh, Arvind Kumar, 2022. *“A Historical Study of Advent and Growth of Buddhism in*



*Russia with Focus on Golden Triangle* in **History: Past and Present**, ed. Manish Sinha, Vol. 8 (2021), (published in Oct. 2022), University Department of History, Magadh University, Bodh Gaya, Bihar, India: 1-14. ISSN: 2231-3893.

- Singh, Arvind Kumar, 2022. *"Buddhism: A Tool to Lead a Happy Life"* in **ANC Journal of Discourses in Humanities and Social Sciences**, ed. Prof. (Dr.) Abha Singh, Vol. 1, Issue 1, 2020 (published in Oct. 2022), Patna, India: 122-134. ISSN: 2582-9122.
- Singh, Arvind Kumar, 2022. *"Revival of the Bhikkhuni Samgha: Factors and Ways"* in **The Maha Bodhi**, ed. Prof. (Dr.) Bimalendra Kumar, 2566 BE, Vol. 130, May 2022, Mahabodhi Society of India, Sri Dharmarajika Chetiya Vihara, Kolkata, India: 56-65. ISSN: 0025-0406.
- Singh, Arvind Kumar, 2021. *"Etymology and Significance of Dhammacakka in Early Buddhism"* in **Dharmadoot**, Vol. 87, ed. Bimalendra Kumar, Mahabodhi Society of India (International Pali Institute), Sarnath, Varanasi, UP, India, November 2021: 84-92. ISSN: 2347-3428.

#### **Dr. Gyanaditya Shakya**

##### **Publication of Book: 01**

- ***Dasabodhisattuppattakathā*** (Ed. & Tr.) Gyanaditya Shakya, Varanasi: Pāli Society of India, 2022, pp.1-200. (ISBN No.: 978-81-956605-1-3)

##### **Publication of Chapters in Book: 01**

- Shakya, Gyanaditya, 2022, ***Professor Bhikshu Dr. Satyapala Mahasthavir: ek Kushal Shodha-Nirdeshak***, Aggamahapandita Dr. Satyapala Mahasthabir *The Fourth Sangharaja Commemoration Volume* (Chief Editor) Ananda Bhikshu & (Editor) Asis Barua, Gaya: Ven. Ananda Bhikshu, President, International Meditation Centre, Buddhagaya, 2022, pp.164-168.

#### **Dr. Priyadarsini Mitra**

##### **Publication of Books**

- 'Key to Happiness' published by 48 Quotebook Publishing Doorpix, 17/678 Chopasani Housing Board, Jodhpur, Rajasthan, 342008, India 6<sup>th</sup> June 2021\_

#### **Dr. Manish T. Meshram**

### Research Contributions: Publications (Proceeding book)

- Published title on "Vipassana and Mindfulness meditation for wellbeing" in proceeding book at 4<sup>th</sup> International Conference, Shravasti, U.P. during 26-27<sup>th</sup> November 2022, Buddhism: Its relevance & Reflections in Modern India, Edited by Ven. Dr. Chandrakirti, Lotus & Cobra Publications House and Mahila Sashaktikaran Sangh, Nagpur, ISBN: 978-93-92693-24-3, P.20.

### Research Article

- Published title on "Triratna ki Bouddh samaj main Bhumika" Journal Name: Perspectives (A National Interdisciplinary Annual Research Journal), Issue: I, Vol. X, Published by Principal, Dr. Madhukarrao Wasnik, P.W.S. Arts, Commerce & Science College, Nagpur, M.S. ISSN:2249-5134, 2021, P.60.

### Mr. Vikram Singh Yadav

- Yadav, Vikram Singh, 2022 presented a paper entitled "*Gandhi: The Pioneer of Social Politics in India*" in one day National Seminar on 'Gandhi in the Context of Literature, Society and Politics: A Retrospection' organized by Km. Mayawati Girls Government Post Graduate College, Badalpur, Gautam Buddha Nagar on March 25<sup>th</sup>, 2022 at Km. Mayawati Girls Government Post Graduate College, Badalpur, Gautam Buddha Nagar, Uttar Pradesh (India).
- Yadav, Vikram Singh, 2022 presented a paper entitled "*Media and Women Empowerment*" in one day National Seminar on 'The Role of Media in Transforming India: The Journey so Far' organized by Manyavar Kanshiram Government Degree College, Ghaziabad on March 29<sup>th</sup>, 2022 at Manyavar Kanshiram Government Degree College, Ghaziabad, Uttar Pradesh (India).
- Yadav, Vikram Singh, 2022 presented a paper entitled "*Buddha's Dasa Rajdhamma: Tool to a Public Welfare State*" in two days Thirty First session of Uttar Pradesh History Congress organized by Department of Ancient History and Culture of Mahatma Jyotiba Phule Rohilkhand University, Bareilly on November 8<sup>th</sup>, 2022 at Mahatma Jyotiba Phule Rohilkhand University, Bareilly, Uttar Pradesh (India).

### 7.7.14 Award / recognition to faculty members

#### Dr. Arvind Kumar Singh

- Global Buddhist Teachers Award – 2021 by Mahila Sashaktikaran Sangha, Maharashtra, India on the occasion of World's Teacher Day on October 5, 2021 in an online ceremony.

#### Dr. Gyanaditya Shakya



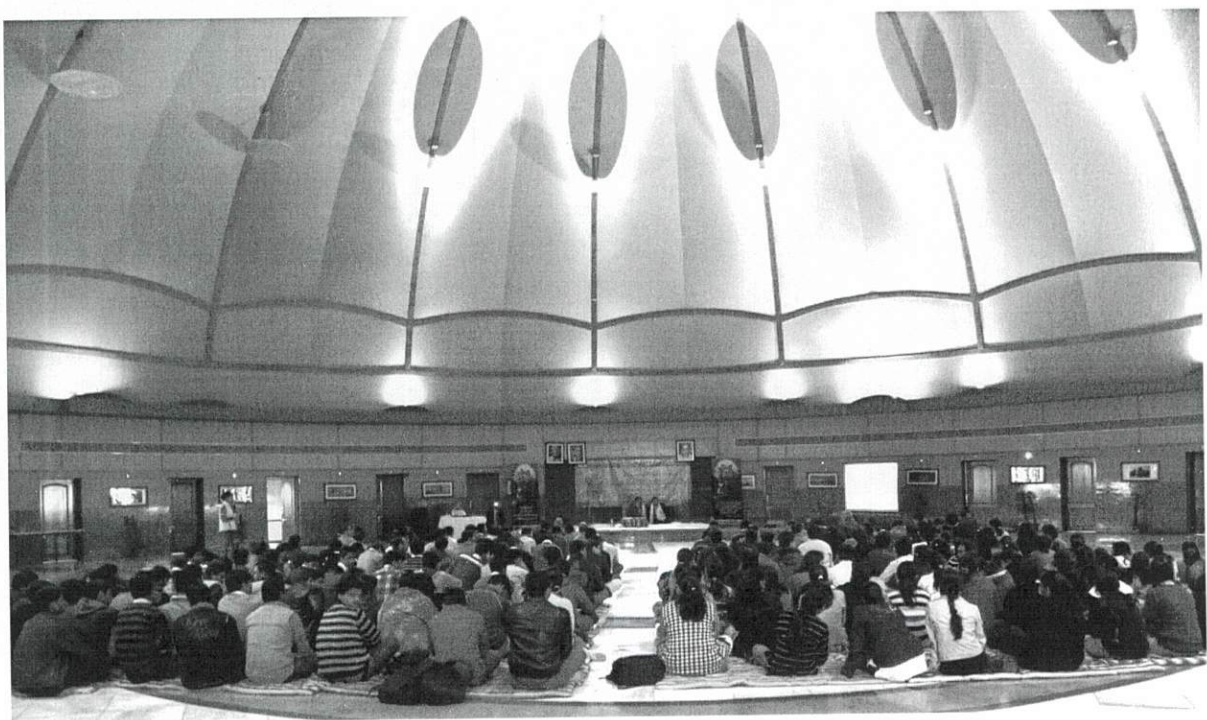
- The award entitled '**Vividh (Shraman) Puraskar 2020**' is conferred by Uttar Pradesh Sanskrit Sansthan, Lucknow to me for my written book entitled *Bauddha Dharma ke Punaruddharaka: Tripitakacharya Dr. Bhikshu Dharmarakshit* on December 31, 2021.

**Dr. Manish T. Meshram**

- Global Anagarik Dharmapala Award-2021, for his devotion, dedication, and commitment towards the development of Buddhism, Presented by Mahila Empowerment Sangha, Nagpur, India.
- Savitribai Phule Shikshak Samman Patr:2021, for his excellent work for education and social transformation. Presented by Gautam Buddha Cultural and Welfare Trust, Greater Noida, G.N. U.P.
- Award of Honors, for Special Guest on Two days 3<sup>rd</sup> International Buddhist Conference on Dr. Ambedkar's Dhamma revolution and democracy in the modern era on 25-26<sup>th</sup> November 2021. Presented by Women empowerment Shang and Buddhist mission charitable trust, Jalandhar, Punjab.

#### 7.8.14 Events Held at the School

- **3 Days residential course on "Mindfulness Vipassana Based Stress Reduction"** during 24<sup>th</sup> to 26<sup>th</sup> December 2021. In this course were 22 participants from various professionals from Delhi, Noida, and Ghaziabad. They would learn practice of mindfulness and vipassana meditation for reducing stress in their daily lives.
- Weekly regular Meditation Class on "Mindfulness Based Reducing Stress (MBRS), at Meditation Centre, GBU.









## 7.8 School of Law, Justice & Governance

School of Law Justice and Governance, Gautam Buddha University-which has been legislatively conceived as "a center of excellence"-has started its ambitious multidisciplinary academic programme with the establishment of its School of Law, Justice & Governance in 2011. It is a university for people who have the ideas that make a difference in the world and who love to bring change. The school envisions to foster advancement of learning, teaching and research in the fields of law, justice and governance.

### 7.8.1 Academic Programme

The school has started five-year integrated BA LLB programme from July 2012. To nurture the spirit of innovation and research the university started its Ph.D. in Law programme in 2016 and LL.M program in 2017 and LLM One Year in 2019. The School has taken new initiative to start LLM Two Year (Weekend Programme) from academic session 2023.

### 7.8.2 Admissions (Program wise number)

B.A. L.L.B. - 120

LL.M One Year Programme - 30

LL.M Two Year Weekend Programme -30

### 7.8.3 Laboratories functional

Legal aid Clinic and Moot Court Cell

### 7.8.3 Research Advisory Committee Conducted

Dean- Dr. K.K. Dwivedi

Head- Dr. Rama Sharma

Concerned Supervisor-

External Member- Prof. (Dr.) Anil Kumar Rai

### 7.8.4 Conferences, Seminars, Workshops, Training Programmes, Invited talk, Expert lecture conducted

S.No	Description of Activity/Programme	Date
1.	Regular Village Visit at Jaganpur & Murshadpur	Every Saturdays evening
2.	Moot Court Workshop	11 <sup>th</sup> October, 2022
3.	C.V. Enhancement Workshop (Part-1)	9 <sup>th</sup> November, 2022
4.	C.V. Enhancement Workshop (Part-2)	10 <sup>th</sup> November, 2022

5.	Legal Aid Camp at Jaganpur Village, Greater Noida, G.B.Nagar	12 <sup>th</sup> November,2022
6.	Extemporal Event	18 <sup>th</sup> November,2022
7.	Intra Moot Court Competition	22-23 <sup>rd</sup> November, 2022
8.	Constitution Day week	20-26 <sup>th</sup> November,2022
9.	ADR Workshop	13 <sup>th</sup> January,2023
10.	Legal Aid Camp at Nearby Village at GBU, Greater Noida, G.B. Nagar	14 <sup>th</sup> January,2023
11.	Court Visit and training programme at District & Session Court, G.B. Nagar	27 <sup>th</sup> January,2023
12.	Training Programme of PLVs by Police officers and Advocates	11 <sup>th</sup> February,2023
13.	Legal Aid Camp at Nearby Village at GBU, Greater Noida, G.B. Nagar	11 <sup>th</sup> March,2023
14.	Court Visit (District Court/High Court/Supreme Court)	21 <sup>st</sup> April,2023
15.	2 <sup>nd</sup> P. N. Mathur Memorial National Moot Court Competition	29-30 April,2023





## Chapter- 08

### Extra-Curricular Activities

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Sports provides youth with many opportunities to grow physically and socially, as well as emotionally. Moreover, physical activities with teammates and competitors allow them to build social skills through peer interaction. To make the utmost usage of our sports facilities various sports activities of the available sports facilities are carried out in the presence of certified and efficient Sports officer and Physical trainer instructor. These activities are carried out on daily basis to keep the students mentally and physically fit.

#### 8.1 Team Building & Morale Boost Activities

- Cross Country Race organized once in a year on every 26-January helps students enhance their enthusiasm and motivation.
- Daily exercises and games practices helped students to be fit always for taking any challenges in both sports and academics.

#### 8.2 Sports Facilities and Activities

The sports and games facilities in the university includes:

- Synthetic Lawn-Tennis courts with floodlight- 04 nos.
- Synthetic Volleyball courts with floodlight- 04 nos.
- Synthetic Basketball courts with floodlight- 03 nos.
- Gym Facility in Girls Hostel-04 nos.
- **GBU Club:** Gym Facility -01 nos., Wooden Badminton Courts- 02 nos., Squash Court- 01 no., Billiard Table- 01 no., ITTF approved Table-Tennis Table- 01 no.
- **Cricket Stadium-** National Level Cricket Stadium with pavilion of sitting approx. 650 persons- 01
- Cricket Practices pitch- 07 Nos.
- **Sports Centre:** ITTF approved Table-Tennis Table in Sports Centre 06 Nos., 10 m. Air Pistol Shooting Range- 5 targets, Boys Gym Facility – 01 no.
- Practice Soccer cum track and field- 01 no.
- **Indore Stadium:** Centre Playing Area approx. – 38.50 x 59.60 m. with PVC approved Sports Flooring, Seating Capacity- approx. 5000 persons with the facilities of Badminton Courts- 08 nos., Basketball Court- 01 no. & Wooden Squash Courts – 02 nos.

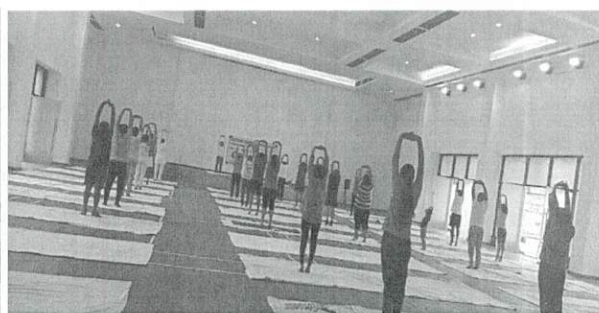
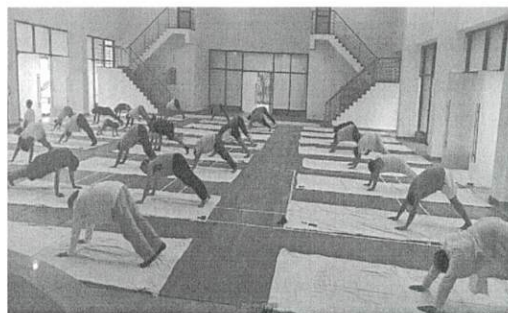
#### 8.3 Proposed sports facilities

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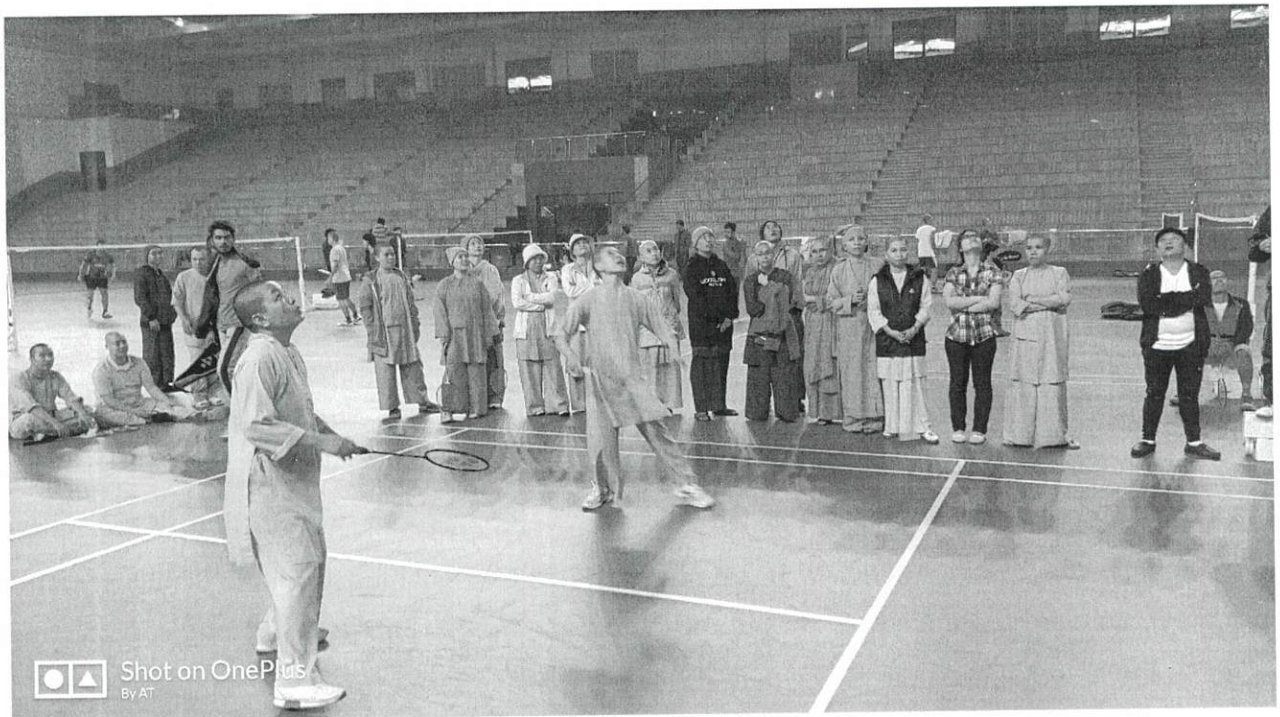
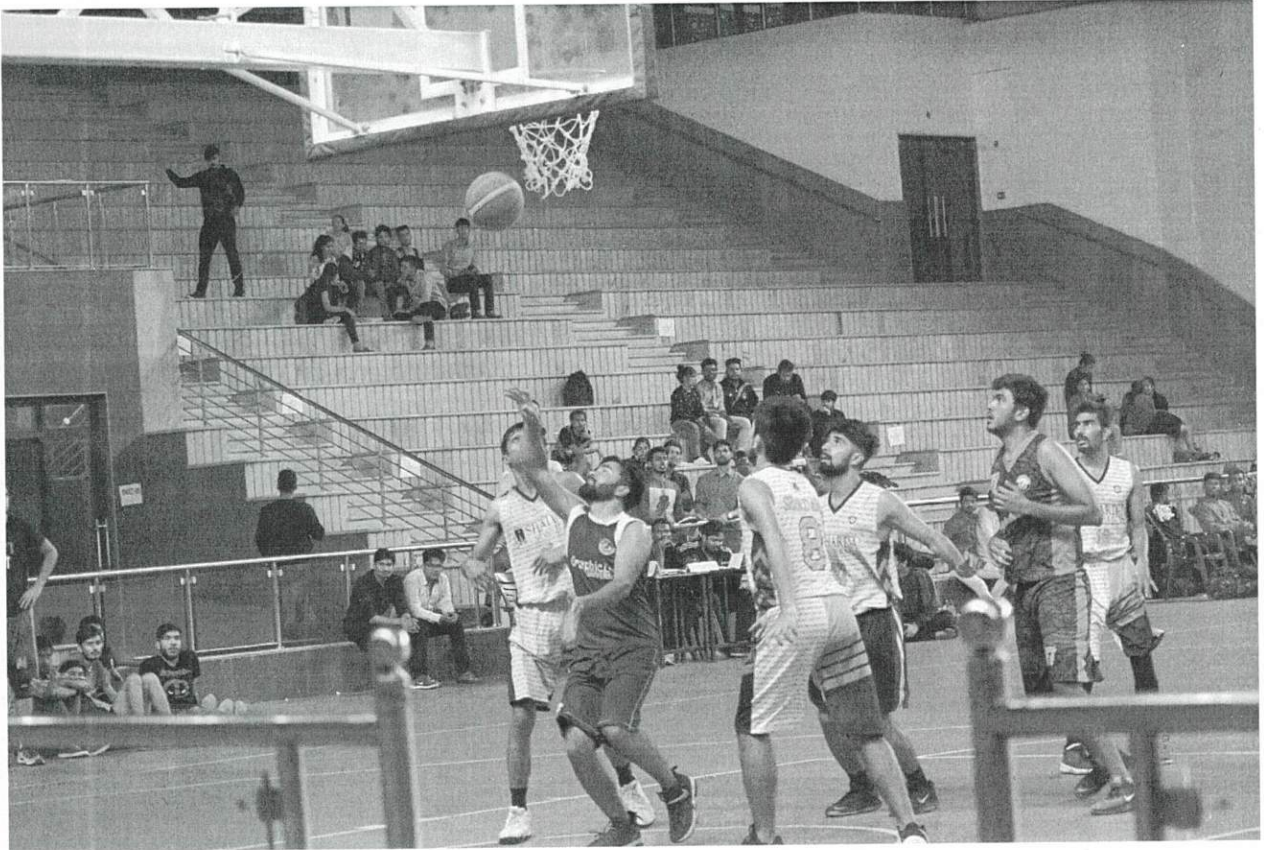
- Hockey Astro-turf Stadium with pavilion of sitting approx. 650 persons.
- Synthetic Athletic Cum Soccer Stadium with pavilion of sitting approx. 650 persons.
- Olympic size Swimming Pool cum Diving Pool with sitting approx. 600 persons.

#### 8.4 Events organized/held by Sports committee GBU at GBU level

S.N.	Name of Event	Venue of Tournament	Date of Tournament
1	Gautam Buddha University Cricket League 2021-22 (GBUCL)	GBU Cricket Stadium	06-17th April 2022
2	RUN FOR HEALTH	GBU Campus	26-May-22
3	INTERNATIONAL YOGA DAY	GBU Club	21-Jun-22











## 8.5 Cultural Council Activities

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of its people, culture and achievements. This Mahotsav is dedicated to the people of India who have not only been instrumental in bringing India thus far in its evolutionary journey but also hold within them the power and potential to enable Prime Minister Narendra Modi's vision of activating India 2.0, fueled by the spirit of Aatmanirbhar Bharat. The official journey of Azadi Ka Amrit Mahotsav commenced on 12th March 2021 which started a 75-week countdown to our 75th anniversary of independence and will end post a year on 15th August 2023. Gautam Buddha University joined '**Azadi ka Amrit Mahotsav**' to commemorate 75 years of Independence and an extraordinary journey to arrive at the world stage in new global order. A series of events are being organized in the University by the Cultural Council. In this series four events were organized during the reported period participating in this ongoing celebration in India and abroad.

### 1. 10th June 2022

The Cultural Council organized Azadi ka Amrit Mahotsav on 10 June 2022. The celebrations witnessed inauguration of two Centres of Excellence, which are

- a. Inauguration of Centre of Excellence for Learning/Intellectual Disabilities;
- b. Inauguration of University Counselling Centre;
- c. followed by an elaborate cultural Programme.





## Chapter-09

### Finance Reports

#### 9.0 Academic Year 2021-22

<b>BUDGET VS ACTUALS 2020-21 (Upto 31.01.2022) &amp; 2021-22 &amp; BUDGET 2022-23</b>					
<b>ACTUAL RECEIPT &amp; PAYMENT</b>					
<b>A-Receipts</b>	<b>Rs. in lacs</b>				
<b>Head of Accounts</b>	<b>Actuals 2020-21</b>	<b>2021-22</b>		<b>Budget 2022-23</b>	<b>No. of Students</b>
		<b>Budget</b>	<b>Actuals (upto 31.01.2022)</b>		
<b>01-INCOME</b>					
101 REGISTRATION FEE	29.71		47.34	200.00	2000
		200.00			
102 ACADEMIC FEE	3937.28	3,800.00	2,855.64	3,800.00	
103 HOSTEL FEE	316.38	2,000.00	120.71	2,000.00	
104 MESS RECEIPT	226.33	1,500.00	50.14	1,500.00	
105 SALE OF PROSPECTUS	54.20	50.00	1.13	50.00	
106 CAUTION MONEY	24.30	200.00	47.19	200.00	
107 EARNEST MONEY DEPOSIT	294.34	100.00	115.01	100.00	
108 INTEREST FROM BANKS	175.22	100.00	44.96	100.00	
109 RESEARCH PROJECTS	139.40	100.00	62.68	100.00	
110 OTHERS (Rental from Infrastructure)	95.45	400.00	135.47	400.00	
<b>SUB TOTAL (A)</b>	<b>5,292.61</b>	<b>8,450.00</b>	<b>3,480.27</b>	<b>8,450.00</b>	
<b>02-GRANT</b>					
201 NOIDA & GREATER NOIDA	400.00	3,265.00	0.00	3,664.00	
202 INDUSTRIAL DEVE. DEPT. / AUTHORITY	0.00	0.00	0.00	-	
203 CORPORATE SOCIAL RESPONSIBILITY	0.00	100.00	0.00	120.00	
Rashtriya Uchchatar Shiksha Abhiyan (RUSA)	600.00	0.00	0.00	-	
<b>SUBTOTAL (B)</b>	<b>1,000.00</b>	<b>3,365.00</b>	<b>0.00</b>	<b>3,784.00</b>	
<b>GROSS TOTAL (A+B)</b>	<b>6,292.61</b>	<b>11,815.00</b>	<b>3,480.27</b>	<b>12,234.00</b>	
<b>B-Payments</b>	<b>Rs in lac</b>				
<b>Head of Accounts</b>	<b>Actuals 2020-21</b>	<b>2021-22</b>		<b>Budget 2022-23</b>	<b>No. of Students</b>
		<b>Budget</b>	<b>Actuals (upto 31.01.2022)</b>		
<b>03-PAY &amp; ALLOWANCES</b>					



301 SALARY	2282.34	2,700.00	2126.37	3,000.00	
302 E.P.F.	236.41	300.00	234.11	300.00	
303 HONORARIUM	0.38	5.00	0.50	5.00	
304 MEDICAL REIMBURSEMENT	30.19	50.00	17.82	50.00	
305 CHILD EDUCATION REIMB.	0.00	10.00	0.00	10.00	
306 OTHER	0.00	5.00	0.60	5.00	
<b>SUB TOTAL (C)</b>	<b>2,549.32</b>	<b>3,070.00</b>	<b>2,379.40</b>	<b>3,370.00</b>	

\*6 \*

Head of Accounts	Actuals 2020-21	2021-22		Budget 2022-23	No. of Students
		Budget	Actuals (upto 31.01.2022)		
<b>04-STUDENTS WELFARE</b>					
401 CULTURAL ACTIVITIES	6.00	25.00	0.57	30.00	
402 BADGES & KITS	0.00	10.00	0.00	10.00	
403 STUDENTS HEALTH CARE	0.00	10.00	0.00	10.00	
404 OTHERS	0.00	10.00	0.00	10.00	
405 SPORTS & ADVENTURE ACT.	0.00	15.00	0.00	15.00	
406 SEMESTER TOPPER AWARD	0.00	10.00	0.00	10.00	
407 GOLD MEDAL	0.00	10.00	0.00	10.00	
408 G.B.U. SCHOLARSHIP	0.00	25.00	0.00	25.00	
<b>SUB TOTAL (D)</b>	<b>6.00</b>	<b>115.00</b>	<b>0.57</b>	<b>120.00</b>	
<b>05- ESTATE MAINTENANCE</b>					
501 HOUSE KEEPING	51.53	60.00	11.54	72.00	
502 ELECTRICITY	676.56	900.00	520.48	900.00	
503 OTHER (ESTATE MAINT.)	493.79	900.00	245.74	900.00	
504 D G SET FUEL & MAINTENANCE	0.00	50.00	0.00	50.00	
505 WATCH & WARD	182.62	600.00	317.68	600.00	
506 OUTSOURCE STAFF	565.07	700.00	438.45	700.00	
<b>SUB TOTAL (E)</b>	<b>1,969.57</b>	<b>3,210.00</b>	<b>1,533.89</b>	<b>3,222.00</b>	
<b>06-ADMINISTRATIVE</b>					
601 COMPUTER MAINTENANCE	13.52	31.00	0.44	31.00	
602 TRAVELING ALLOWANCE	6.27	50.00	1.73	50.00	
603 INTERNET & WEBSITE	0.14	10.00	0.08	10.00	
604 TELEPHONE	13.98	20.00	11.54	20.00	
605 REFRESHMENT	5.45	25.00	4.06	25.00	
606 ADVERTISEMENT	4.33	75.00	7.67	75.00	
607 PRINTING & STATIONERY	4.84	40.00	7.75	40.00	

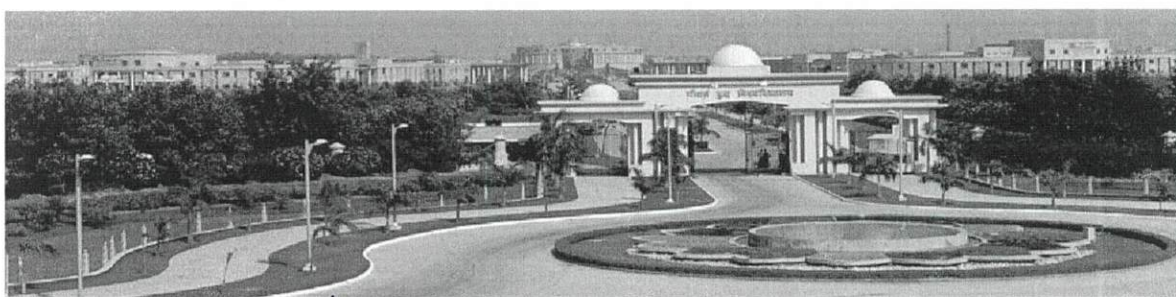
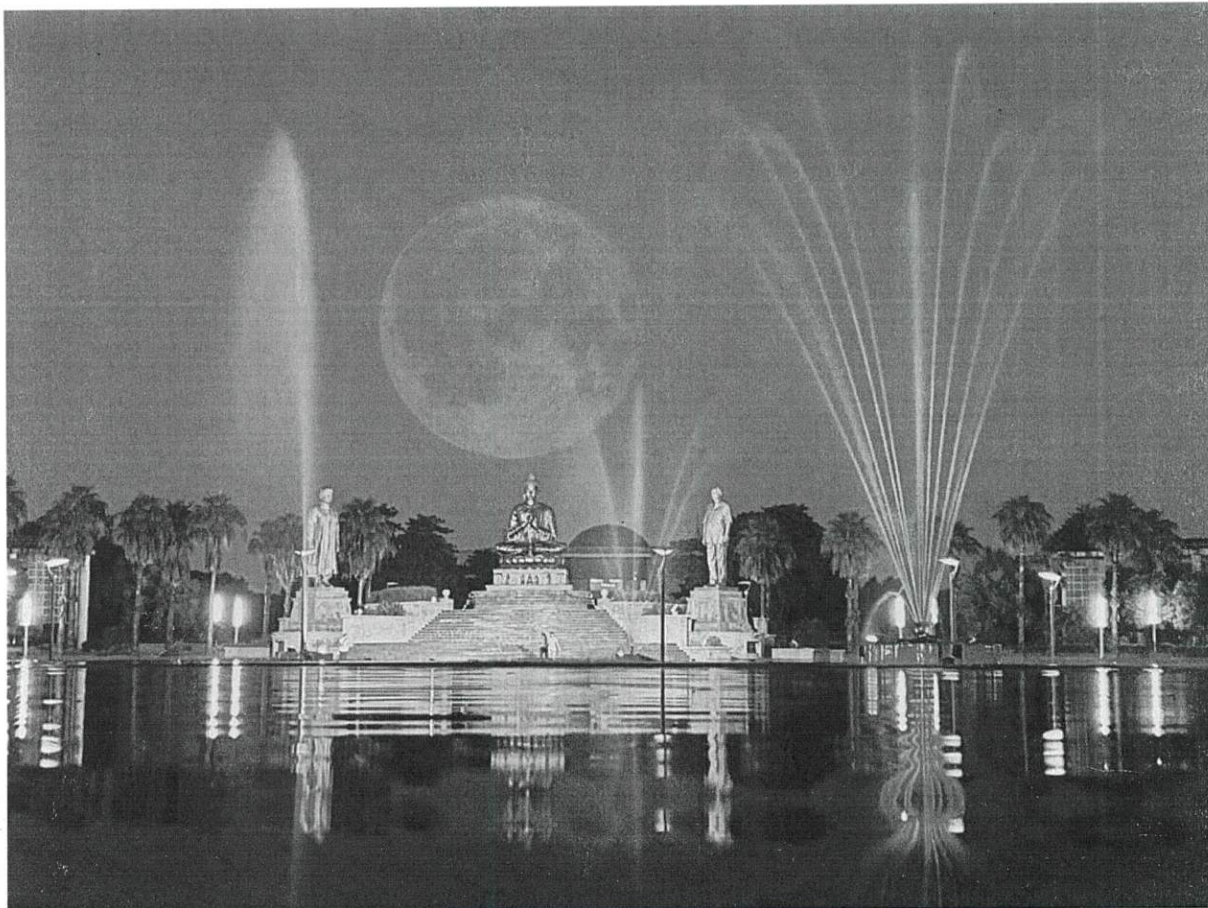
608 PROFESSIONAL FEE	6.54	30.00	5.60	30.00	
609 REPAIR & MAINTENANCE	52.34	50.00	24.43	50.00	
610 SITTING FEE	0.05	15.00	0.05	15.00	
611 DISPENSARY	0.10	10.00	0.80	10.00	
612 POSTAGE	0.07	10.00	0.30	10.00	
613 NEWSPAPER & JOURNALS	0.93	5.00	0.29	5.00	
614 BANK CHARGES	0.14	2.00	0.03	2.00	
615 LEGAL	5.27	20.00	12.30	20.00	
616 AUDIT	0.00	10.00	0.00	10.00	
617 OTHERS ADMIN.	6.52	10.00	9.36	10.00	
<b>SUB TOTAL (F)</b>	<b>120.49</b>	<b>413.00</b>	<b>86.43</b>	<b>413.00</b>	

\* 7 \*

Head of Accounts	Actuals 2020-21	2021-22		Budget 2022-23	No. of Students
		Budget	Actuals (upto 31.01.2022)		
<b>07- VEHICLE RUNNING EXPENSES</b>					
701 VEHICLE MAINTENANCE	5.52	10.00	4.13	10.00	
702 VEHICLE FUEL	8.32	40.00	10.03	40.00	
703 VEHICLE INSURANCE	0.89	2.00	0.00	2.00	
<b>SUB TOTAL (G)</b>	<b>14.73</b>	<b>52.00</b>	<b>14.16</b>	<b>52.00</b>	
<b>08- ACADEMIC</b>					
802 PROFESSIONAL DEVELOPMENT	0.00	10.00	0.00	10.00	
803 CONFERENCE & SEMINAR	0.00	40.00	0.00	40.00	
804 VISITING FACULTY	428.51	400.00	414.14	480.00	
805 MEMBERSHIP FEE	11.04	15.00	0.12	15.00	
806 LAB CONSUMABLES	0.55	85.00	11.66	85.00	
807 EXAMINATION	9.37	35.00	5.21	35.00	
808 RESEARCH PROJECT	69.91	100.00	132.61	100.00	
809 SOFTWARE & LICENCES	12.06	50.00	1.49	50.00	
810 PLACEMENT	0.00	30.00	0.00	30.00	
811 FOREIGN VISIT	0.00	10.00	0.00	10.00	
812 CONFIDENTIAL	0.66	25.00	0.00	25.00	
813 MESS	136.92	1,500.00	97.13	1,500.00	
814 CAUTION MONEY REFUND	59.99	80.00	47.70	80.00	



815 OTHER (ACADEMIC)	4.55	20.00	2.91	20.00	
816 FIELD STUDY EXP.	0.00	15.00	0.00	15.00	
817 CENTER OF EXCELLENCE (CYBER SECURITY, ARTIFICIAL INTELLIGENCE (AI), RAPID & ALTERNATIVE ENERGY MOBILITY & GENOME EDITING	0.00	800.00	0.00	800.00	
818 CENTRE OF EXCELLANCE ON Biotechnology	0.00	200.00	0.00	200.00	
<b>SUB TOTAL (H)</b>	<b>733.56</b>	<b>3,415.00</b>	<b>712.97</b>	<b>3,495.00</b>	
<b>09-FIXED ASSETS</b>					
901 FURNITURE & FIXTURES	2.83	200.00	0.00	200.00	
902 COMPUTER	0.00	150.00	142.29	150.00	
903 LIBRARY	44.41	150.00	2.31	150.00	
904 OFFICE EQUIPMENTS	1.12	60.00	1.05	60.00	
905 LAB EQUIPMENTS	14.66	100.00	10.40	120.00	
906 SPORTS ITEMS	0.00	10.00	16.24	12.00	
907 VEHICLES ( 2 Buses & 4 Staff Car)	0.00	100.00	10.40	100.00	
908 OTHERS	0.00	30.00	0.00	30.00	
909 MEDICAL EQUIPMENT	0.00	15.00	0.00	15.00	
910 MUSEUM AN ANCIENT INDIAN HERITAGE	0.00	600.00	0.00	600.00	
911 DEVELOPMENT OF CLASS ROOMS AT SPORTS CENTRE	0.00	100.00	0.00	100.00	
912 RUSA FUND UTILIZATION	0.00	0.00	13.71	0.00	
<b>SUB TOTAL (I)</b>	<b>63.02</b>	<b>1,515.00</b>	<b>196.40</b>	<b>1,537.00</b>	
<b>10-VC'S FUND</b>					
1001 CONFIDENTIAL FUND	0.00	15.00	0.00	15.00	
1002 DISCRETIONARY FUND	0.00	10.00	0.00	10.00	
<b>SUB TOTAL (J)</b>	<b>0.00</b>	<b>25.00</b>	<b>0.00</b>	<b>25.00</b>	
<b>GROSS TOTAL (C+D+E+F+G+H+I+J)</b>	<b>5,456.69</b>	<b>11,815.00</b>	<b>4,923.82</b>	<b>12,234.00</b>	



## GAUTAM BUDDHA UNIVERSITY

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