



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi & Affiliated to Guru Gobind Singh Indraprastha University, Delhi)
(*An ISO 9001:2015 Certified Institution*)
A-4, PASCHIM VIHAR, NEW DELHI - 110063

MANDATORY DISCLOSURE

A.Y. 2023 – 2024

FOR B.TECH. PROGRAMME

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1. Name of the Institution –

- **Address including Contact No., E-mail**

Bharati Vidyapeeth's College of Engineering,
A-4, Paschim Vihar, New Delhi – 110063.

Contact No.: 011-25278443, 25278444, 25258637

E-mail: coedelhi@bharativedyapeeth.edu

2. Name and Address of the Trust / Society Trustees

- **Address including Contact No., E-mail**

Bharati Vidyapeeth,
Bharati Vidyapeeth Bhawan,
LBS Marg, Pune – 411 030.

Contact No.: 020 – 2440 7114

E-mail:

3. Name and Address of the Principal

- **Address including Contact No., E-mail**

Dr. Dharmender Saini

Principal

Bharati Vidyapeeth's College of Engineering,

A-4, Paschim Vihar, New Delhi – 110063.

Contact No.: 011-25278443, 25278444, 25258637

E-mail: dharmender.saini@bharativedyapeeth.edu

4. Name of the Affiliating University

- **Address including Contact No., E-mail**

Guru Gobind Singh Indraprastha University

Sector 16-C, Dwarka, New Delhi – 110078.

Contact No.: 011-25302170, 25302111

E-mail Id: ggsipu.pr@rediffmail.com, pro@ipu.ac.in

5. Governance –

- **Members of the Board and their brief background**

S. No.	Name with details	:	Constitutional Capacity	Designation
1.	Dr. Vishwajeet Kadam Secretary, Bharati Vidyapeeth, Pune.	:	Secretary of the Trust	Chairman
2.	Principal Dr. K. D. Jadhav Jt. Secretary, Bharati Vidyapeeth, Pune.	:	Representative of the Trust	Member

3.	Shri C. B. Sawant Regional Director, Bharati Vidyapeeth Regional Office, New Delhi.	:	Representative of the Trust	Member
4.	Prof. M. N. Hoda Director, Bharati Vidyapeeth's Institute of Computer Applications & Management, New Delhi.	:	Representative of the Trust	Member
5.	Dr. Yamini Agarwal Director, Bharati Vidyapeeth's Institute of Management and Research (BVIMR), New Delhi.	:	Representative of the Trust	Member
6.	Prof. M. N. Doja Director - IIIT Sonapat.	:	Representative of the Trust	Member
7.	Prof. Dharminder Kumar Guru Jambheshwar University, Hissar.	:	Representative of AICTE	Member
8.	Prof. R. K. Mittal Professor, USMS, GGSIPU, Sector - 16C, Dwarka, New Delhi – 78	:	Representative of GGSIP University, Delhi	Member
9.	Mr. Ajay Goel AVP, Aricent Technologies, Gurgaon.	:	Representative of the Industry	Member
10.	Mr. Aditya Jain Manager, E&Y	:	Representative of the Alumni	Member
11.	Dr. Kirti Gupta Professor and Head, ECE, Bharati Vidyapeeth's College of Engineering (BVCOE), New Delhi.	:	Representative of the Teachers	Member
12.	Dr. Prakhar Priyadarshi Professor and Head, IT, Bharati Vidyapeeth's College of Engineering (BVCOE), New Delhi.	:	Representative of the Teachers	Member
13.	Dr. Dharmender Saini Principal, Bharati Vidyapeeth's College of Engineering (BVCOE), New Delhi.	:	Principal of the College	Member Secretary

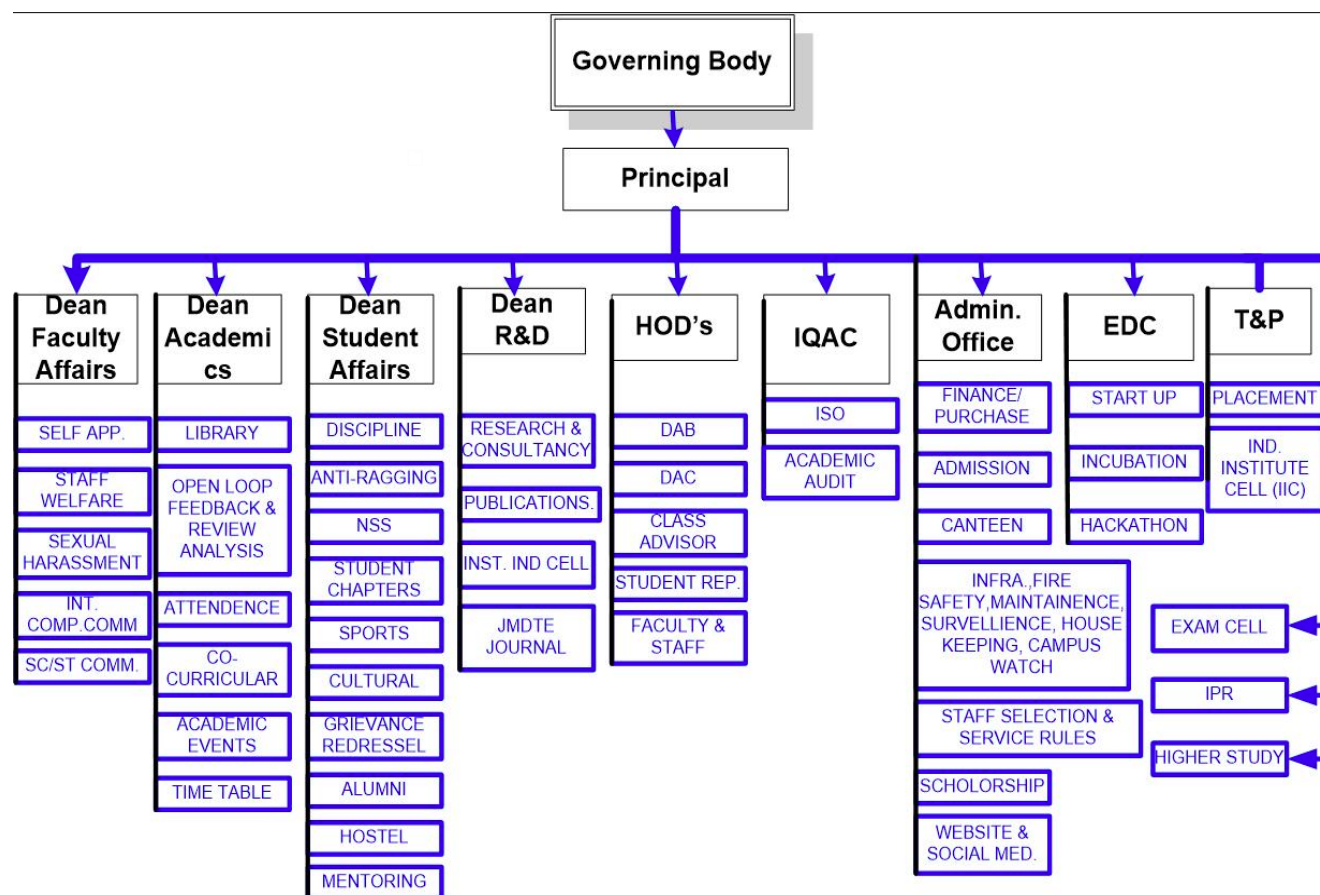
- **Members of Academic Advisory Body (Governing Council)**

S. No.	Name with details	Designation
1	Prof. Dharmender Saini	Principal
2	Prof. Kirti Gupta	HOD – ECE Department & Vice Principal – Academics
3	Prof. Prakhar Priyadarshi	HOD – IT Department & Vice Principal – Administration
4	Prof. Abhishek Gandhar	Dean – Student Welfare
5	Dr. Sushil Kumar	HOD – Applied Science & NBA Coordinator
6	Prof. Vanita Jain	Dean – Affiliation and Compliance
7	Dr. Arati Kane	HOD – ICE Department
8	Dr. Preeti Nagrath	Director – Training & Placement
9	Dr. Kusum Tharani	HOD – EEE Department
10	Dr. Deepika Kumar	HOD – CSE Department
11	Dr. Arvind Rehalia	Incharge – Incubation Cell
12	Mr. Vishal Sharma	Incharge – Exam Cell
13	Mr. Sandeep Patil	Admin. Office

Frequency of the Board Meeting and the Academic Advisory Body

Board meeting is regularly held every year and Academic Advisory Body meeting is regularly held every quarterly.

- **Organisational Chart and processes**



- **Nature and Extent of involvement of Faculty and students in academic affairs/improvements**

The college has a constituted Board of Governors having 13 members including the members of management committee, eminent educationists, industrialists, bureaucrats and Faculty members of college. The Principal of the college is the Member Secretary of the board. The board meets once in a year and reviews the progress on all fronts. All policy matters relating to additional courses, investment in additional infrastructure and other major resources, major systemic / organizational changes, perspective plan etc. are discussed and decided by the Board of Governors. The board also reviews and passes the annual budget. The Governing Council of the college is composed of the Chairman, Representatives of the Trust, AICTE, GGSIPU, Industry, Alumni & Teachers and Member Secretary. The council meets regularly to review and decide on various functional issues of importance.

- **Mechanism/ Norms and Procedure for democratic/ good Governance**

The college promotes a culture of participative management. The management of the college rests with its Governing Body, whose member, is appointed in accordance with the guidelines provided by Bharati Vidyapeeth, Pune and AICTE. The Principal is the academic and administrative head of the Institution and also the member secretary of the governing body. The Heads of Departments are responsible for the day-to-day administration of the departments and report directly to the Director. Additionally, every department has distributed various duties among faculty members which play an important role in various institutional functions. These duties have been discussed in departmental meetings conducted and the minutes of these meetings are recorded.

- **Student Feedback on Institutional Governance/ Faculty performance**

Feedback is obtained from the students in a formal manner at the end of each semester in the prescribed format. The feedback is analyzed by the examination control cell and sends it to the HoD concerned department and a summary of the same is prepared. This feedback mechanism is primarily used for identifying the weaknesses in teaching learning process. The faculty is counseled by the head of the department so as to improve the process of teaching learning. Feedback from the stakeholders such as employers, alumni, parents is obtained at regular intervals from which the adequacy of the curriculum is ascertained. Any changes/ upgradations in the curriculum are discussed by the college academic committee and the same is conveyed to the University for Necessary Action.

- **Grievance Redressal mechanism for Faculty, staff and students**

In order to redress individual as well as collective grievances of the Faculty, staff and students of the college, a grievance redressal mechanism has been devised. Any aggrieved person may make, in writing, a complaint in written along with supporting documents to any member of committee. The Committee shall discuss and decide on its jurisdiction to deal with the case.

- **Establishment of Anti Ragging Committee**

The college has Anti Ragging Committee, Anti Ragging Squad as well other Student Counseling Committee as provisioned in UGC/AICTE regulation 2009. Constitution of the committee and the progress report sent to the University.

- **Establishment of Online Grievance Redressal Mechanism**

In order to address the grievances of Faculty & Staff of College, which are not taken care of by the normal available channels, a separate “Grievance Redressal Committee (GRC)” is constituted. The concerned Faculty / Staff should contact any member of committee, preferably in writing, about their grievance so that suitable remedial action, if required, may be initiated by the committee. The grievance may also be registered online at www.bvcoend.ac.in . It may be noted that anonymous/ unnamed grievance / complaints without proper details will not be entertained. It is expected that this will help maintain a positive, harmonious and conducive atmosphere in the College.

- **Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University**

For promoting better stakeholder relationship, the institution has set up a grievance redressal cell to attend to each and every complaint. The Institution immediately addresses the problems and solves them effectively. The member of the cell includes HODs, senior faculties and staff members, under the leadership of the Director.

- **Establishment of Internal Complaint Committee (ICC)**

Under the provision of the Sexual Harassment of Women at Prevention, Prohibition and Redressal Act, 2013, the internal Complaint Committee is formed with 11 members. In event of any incident of sexual harassment, lady staff/student may contact any member of the committee.

- **Establishment of Committee for SC/ST**

The scheduled Caste (SC) and Scheduled Tribes (ST) Committee is formed to promote the special interest of students in the reserved category and to provide special inputs in areas where the students experience difficulty. According to the regulations framed by AICTE, the Committee must meet at least twice a year and the decisions arrived are mandatorily implemented. The Committee functions under the Chairmanship of the Principal.

- **Internal Quality Assurance Cell**

The IQAC for each department comprises of HOD and members. The contribution of IQAC in improving teaching –learning process is:

- ✓ To develop a system for conscious, consistent and catalytic improvement in the overall performance of institution.
- ✓ Prepare and collect right feedback form to be filled by students so that the teaching style of the teacher can be judged.
- ✓ Analyze the feedback and give advisory for calibration if required to enhance deliveries. Conduct seminar, interact with academicians and people from industry to get first-hand information on the scientific trend and market need to boost the teaching quality. Conduct periodic auditing of faculty members in terms of lecture deliveries with respect to predefined lecture-wise schedule is carried out and reviewed by HOD and department members (IQAC).
- ✓ Monitor the performance of the students.
- ✓ Arrange visiting faculty in thrust areas.
- ✓ Conduct periodical meetings fortnightly with faculty members for further improvement.

6. Programmes

Name of Programmes approved by AICTE –

Sr. No.	Programme / Branch Name	Intake in A.Y. 2022-2023
1	B.Tech. (Computer Science & Engineering)	120
2	B.Tech. (Electronics & Communication Engineering)	180
3	B.Tech. (Electrical & Electronics Engineering)	60
4	B.Tech. (Information Technology)	120
5	B.Tech. (Instrumentation & Control Engineering)	60
	Total	540

• **Status of Accreditation of the Courses:**

NBA Accreditation for B. Tech. (CSE, IT, ECE and EEE program) has been obtained from NBA from A.Y. 2022-2023 to 2024-2025 upto 30.06.2025.

For each Programme the following details are to be given (Preferably in Tabular form):

- ✓ Name
- ✓ Number of seats
- ✓ Duration
- ✓ Cut off marks/rank of admission during the last three years
- ✓ Fee (as approved by the state government)
- ✓ Placement Facilities
- ✓ Campus placement in last three years with minimum salary, maximum salary and average salary

Sr. No.	Name of Course (B.Tech.)	Intake	Duration	Entry Level	Annual Fee	Placement Facilities
1	Computer Science & Engineering	120	4 Years	10+2	Rs.1,73,900/-	Yes
2	Electronics & Communication Engineering	180	4 Years	10+2	Rs.1,73,900/-	Yes
3	Information Technology	120	4 Years	10+2	Rs.1,73,900/-	Yes
4	Electrical & Electronics Engineering	60	4 Years	10+2	Rs.1,73,900/-	Yes
5	Instrumentation & Control Engineering	60	4 Years	10+2	Rs.1,73,900/-	Yes
		540				

- **Last Rank for admission during last three years**

Name of Course (B. Tech.)	2021-2022	2022-23	2023-24
Computer Science & Engineering	69646	69440	125163
Electronics & Communication Engineering	151838	139553	241777
Information Technology	83540	84862	146895
Electrical & Electronics Engineering	237734	202029	305045
Instrumentation & Control Engineering	325875	258586	360846

- **Placement Facilities**

Bharati Vidyapeeth's College of Engineering, New Delhi believes that each student is a valuable resource. The placement cell focuses on each student to maximize his/her career prospects and assists him/her in achieving the same. Students are placed through campus recruitment programs. The Training and Placement Cell is committed to fulfilling the dreams of all those who graduate from BVCOE, New Delhi. Objective of the placement cell is to place students in good companies. This is achieved through campus selections conducted in the college for which the students are trained in aptitude, technical and soft skills, much ahead of campus selections. The Cell believes in overall development of the students' personality, which will help them to achieve a rewarding career.

Number of students placed by College through its placement Cell

Year	Programme	No. of Students Placed	Minimum Salary in Lakhs per annum	Maximum Salary in Lakhs per annum	Median Salary in Lakhs per annum
2020-2021	B.Tech	642 Offers Generated	4	28	4.5
2021-2022		842 Offers Generated	3.36	45	6.0
2022-2023		521 Offers Generated	4.5	46	6.5

- **Name and duration of Programme(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval. If there is Foreign Collaboration, give the following details:** NA

✓ Details of the Foreign University

- ✓ Name of the University
- ✓ Address
- ✓ Website
- ✓ Accreditation status of the University in its Home Country
- ✓ Ranking of the University in the Home Country
- ✓ Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country
- ✓ Nature of Collaboration
- ✓ Conditions of Collaboration
- ✓ Complete details of payment a student has to make to get the full benefit of Collaboration
- **For each Programme Collaborated provide the following:** NA
 - ✓ Programme Focus
 - ✓ Number of seats
 - ✓ Admission Procedure
 - ✓ Fee (as approved by the state government)
 - ✓ Placement Facility
 - ✓ Placement Records for last three years with minimum salary, maximum salary and average salary
 - ✓ Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/

✓ Foreign University has applied to AICTE for approval

7. Faculty

- Course/Branch wise list Faculty members:
- Permanent Faculty
- Adjunct Faculty
- Permanent Faculty: Student Ratio

Name of Course (B.Tech.)	Total Sanctioned Intake for 4 Years	Total Faculty required from First to Final Years	Permanent Faculty Available				No. of Adjunct Faculty
			Professor	Asso. Professor	Asst. Professor	Total	
CSE	120	24	01	04	14	19	-
ECE	180	36	01	12	17	30	-
IT	120	24	01	06	16	23	-
EEE	60	12	02	05	03	10	-
ICE	60	12	01	01	06	08	-
App. Science (1 st Year)	-	-	01	05	23	29	01
Total	540	108	07	33	79	119	01

Please Note: Profile of Faculty is already uploaded on our college website www.bvcoend.ac.in

8. Profile of Principal

Staff			Dr. Dharmender Saini	
Designation			Principal	
Department			CSE	
Date of joining the Institution:			11/03/2013	
Date of Birth	15/07/1977		Unique ID	1-2190145949
Qualifications with Class/Grade	UG (Degree Name) B.Tech.		PG (Degree Name) M.Tech	PhD
Percentage /CGPA - I-Div			Percentage /CGPA - I-Div	
Total Experience in Years (Should not be repeated)	Teaching (Excluding Research)	Industry	Research	Others
24 Years	17 Years	7	-	
No. of Papers Published in Journals		National	International	
		NIL	22	
No. of Papers Presented in Conferences		National	International	
		NIL	05	
Area of Specialization			Information Security	
PhD Guide? Give field & University		Field	University	
N.A.			N.A.	
No. of PhDs/Projects Guided	PhDs Ongoing		PhDs Completed	Projects at Master level
N.A.			N.A.	
Research Guidance (Number of Students)	No. of Papers Published in National Journals	No. of Papers Published in National Conferences	No. of Papers Published in International Journals	No. of Papers Published in International Conferences
-	-	-	-	-
Books Published/IPRs (Books Details- Title/ISBN/Publisher/Year)			-	
Projects Carried Out			-	

Courses Taught	Diploma	Post Diploma	Under Graduate	Post Graduate	Post Graduate Diploma
B.Tech (Under Graduate)			Data Structure, Theory of Automata, FCS		
Patent (Filed/Granted):			N.A.		
Professional Memberships:			ACM, ISTE		
Grants Fetched / Awards Consultancy:			10 lakhs, Research 14.5 Lakh		
Interaction with Professional Institutions:			-		
Technology Transfer:			-		

9. Fee

- **Details of Fee, as approved by State Fee Committee, for the Institution**
 - ✓ B.Tech. Course fees Rs. 1,73,900/- per year for Admission Year 2023-2024 (Including Refundable Security Amount of Rs.10,000/-)
 - ✓ B.Tech. Course fees Rs. 1,55,200/- per year for Admission Year 2022-2023 (Including Refundable Security Amount of Rs.10,000/-)
 - ✓ B.Tech. Course fees Rs. 1,38,200/- per year for Admission Year 2020-2021 & 2021-2022 (Including Refundable Security Amount of Rs.5,000/-)
- **Time schedule for payment of Fee for the entire Programme**
Charged Annually
- **No. of Fee waivers granted with amount and name of students**
N. A.
- **Estimated cost of Boarding and Lodging in Hostels :**
Rs. 1,96,000/- per year per students (Hostel Accommodation Charges & Mess Charges)
- **Any other fee please specify:**
N. A.

10. Admission

- Number of seats sanctioned with the year of approval 2022-23

Sr. No.	Name of Course	Intake
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1	Computer Science & Engineering	120
2	Electronics & Communication Engineering	180
3	Electrical & Electronics Engineering	60
4	Information Technology	120
5	Instrumentation & Control Engineering	60
	Total	540

- **Number of Students admitted under various categories each year in the last three years**

Sr. No.	Name of Course	Intake	2023-24	2022-2023	2021-2022
1	Computer Science & Engineering	120	120+1*+10**	116+04*	111+04*
2	Electronics & Communication Engineering	180	167+2**	169	160
3	Information Technology	60	116+6**	114+02*	115+04*
4	Instrumentation & Control Engineering	120	17	37	30
5	Electrical & Electronics Engineering	60	56	54	58+01*
		540	476+1*+18**	490+06*	474+09*

- **Number of applications received during last two years for admission under Management Quota and number admitted**

Year 2023-2024

Total around **434** applications has been received for admission under management quota. **47** students were admitted under management quota.

11. Admission Procedure

Mention the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL (website)

- All admissions in B.Tech. Programme are made on the basis of JEE Rank and centralized counseling is held by affiliating Guru Gobind Singh Indraprastha University, New Delhi every year.

For further details, the following website may be visited:

Website: www.ipu.ac.in

Number of seats allotted to different Test Qualified candidate separately AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test etc.)

All Candidates are allotted seats based on JEE (Joint Entrance Examination) rank.

- **Calendar for admission against Management/vacant seats:**

Admissions under management quota for 10% seats are done as per the guidelines of the GGSIP University & Govt. of NCT of Delhi every year.

All the admissions are Management Quota are conducted on the basis of JEE Rank & 55% in PCM in 12th Class through separate Online Registration for Counselling on GGSIP University Portal. And Later, Candidates reports physically in the College for admission as per the schedule / guidelines of Guru Gobind Singh Indraprastha University, New Delhi.

- **Last date of request for applications:**

Admission are done as per GGSIP University Guidelines.

- **Release of admission list (main list and waiting list shall be announced on the same day)**

Admission are done as per GGSIP University Guidelines.

- **The policy of refund of the Fee, in case of withdrawal, shall be clearly notified:**

In case of cancellation of admission, fee will be refunded as per the GGSIP University, New Delhi Fee Refund Policy and norms.

12. Criteria and Weightages for Admission

Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.

Sr. No.	Name of Programme	Eligibility Criteria & Admission Criteria
1	B.Tech.	<p>Eligibility Criteria: Pass in 12th Class of 10+2 pattern of CBSE or equivalent with a minimum aggregate of 55% marks in Physics, Chemistry and Mathematics provided the candidate has passed in each subject separately. Candidate must additionally have passed English as a subject of study (core/ elective/ functional) in the qualifying examination.</p> <p>Admissions Criteria: All applicants are required to appear in Joint Entrance Exam (JEE) Main Paper 1 Conducted by National Testing Agency (NTA). The University shall not conduct its own CET for admissions, but shall be utilizing the merit of JEE Main Paper 1 for its admissions. The admissions would be based on the merit / rank in the JEE.</p> <p>Note: Blind (including colour blind), deaf and/or dumb candidates shall not be eligible for admission in these courses.</p>
2	Lateral Entry to B.Tech. Programmes for Diploma holders	<p>Eligibility Criteria: Three-years diploma (completed) in any of the following branches of Engg./Technology with a minimum of 60% marks in aggregate* from any recognized Diploma awarding institute/university/board recognized by AICTE:- Computer Engg; Automobile Engg; Chemical Engg, Civil Engg, Construction Engg, Electrical Engg, Electronics & Communication Engg, Electronics, Instrumentation & Control, Mechanical Engg., Maintenance Engg., Plastic Engg., Printing & Publishing, Production Engg., Public Health & Environmental Engg., Tool & Die Making.</p> <p>Admissions Criteria: Applicants must appear in the CET conducted. The admissions would be based on the merit / rank in the CET.</p> <p>Note: <i>Candidates with Diploma in Architecture are not eligible for lateral entry to Engineering/Technology degree programmes.</i></p>

- **Mention the minimum Level of acceptance, if any**
Not Applicable
- **Mention the cut-off Levels of percentage and percentile score of the candidates in the admission test for the last three years**

Department	2022-2023		2021-2022		2023-2024	
	First Rank	First Rank	First Rank	Last Rank	First Rank	Last Rank
B.Tech. (CSE)	17169	69440	26661	69646	100476	125173
B.Tech.(ECE)	83175	139553	67458	151838	129226	241777
B.Tech. (IT)	69862	82862	69819	83540	125430	146895
B.Tech. (EEE)	125820	202029	119897	237734	245514	305045
B.Tech. (ICE)	192252	258586	160858	325875	318881	360846

13. List of Applicants

- **List of candidate whose applications have been received along with percentile/percentages core for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)**

Admission are done as per GGSIP University Guidelines.

14. Results of Admission under Management seats/Vacant seats

- **Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)**

The Management Quota Admission Committee comprises following members conducted admission under Management Quota seats according to the PCM merit at 10+2 level, and JEE Main Score.

1. Dr. Dharmender Saini – Principal, BVCOE
2. Dr. M. N. Hoda – Director, BVICAM
3. Dr. Sushil Kumar – Professor, Applied Science, BVCOE
4. Dr. Prakhar Priyadarshi – Professor – IT, BVCOE

- **Score of the individual candidate admitted arranged in order or merit**

Admission are done as per GGSIP University Guidelines.

- **List of candidate who have been offered admission**

Admission are done as per GGSIP University Guidelines.

- **Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate**

Admission are done as per GGSIP University Guidelines.

- **List of the candidate who joined within the date, vacancy position in each category before operation of waiting list**

Admission are done as per GGSIP University Guidelines.

15. Information of Infrastructure and Other Resources Available

- **Number of Class Rooms and size of each**
- **Number of Tutorial rooms and size of each**
- **Number of Laboratories and size of each**
- **Number of Drawing Halls with capacity of each**
- **Number of Computer Centres with capacity of each**

Please find Area Statement of College attached as Appendix 'A'

- **Central Examination Facility, Number of rooms and capacity of each**

College has central Examination Cell which holds responsibility for the administration of examinations. Total rooms available in college for conduct of examination is around 28 with seating of 30 students each.

- **Online examination facility (Number of Nodes, Internet bandwidth, etc.)**

Number of Nodes: 402

Bandwidth: 1 GBPS Broadband +
Tata Communication Lease line Connection of 300 MBPS

- **Barrier Free Built Environment for disabled and elderly persons**

To facilitate convenient entrance of disabled and elderly persons to college building, ramps alongside stairs with steel railings have been made. Facility of special toilet for disabled persons has also been provided. The college also has the lift facility of in 3 Blocks.

- **Occupancy Certificate**

Yes (**Attached as Appendix ‘B’**)

- **Fire and Safety Certificate**

Yes (**Attached as Appendix ‘C’**)

- **Hostel Facilities**

In campus hostel facilities are provided for girls. Girls Hostel is provided with Air-conditioning facility and WI-FI connections, TV and having a capacity of 100 girls’ student. Hostels are provided with magazines and newspaper. The hostel messes are run by the active cooperation and involvement of the students. Students get high quality, well balanced and nutritious vegetarian meals. Girls residing in hostel are given various other facilities:

- ✓ 24 Hours Power backup
- ✓ 24 x 7 Security
- ✓ Canteen / Recreation Centre
- ✓ Dining Hall with Mess, Induction Cooktop
- ✓ Medical Room
- ✓ Solar panel on Hostel Rooftop for hot water
- ✓ Water cooler along with aqua guard
- ✓ Fire Extinguishers
- ✓ Gym
- ✓ Music Room
- ✓ Mosquito Repellant Machines & Mosquito Nets
- ✓ Room Cleaning Facility
- ✓ Playground for Outdoor games, viz., Basket Ball, Football, Volleyball, Badminton, Cricket Court & Indoor Games viz., Chess, Carrom, Table Tennis, etc.
- ✓ Library available uptill 09:00 pm including Saturdays & Sundays

16. Library

- **Number of Library books/ Titles/ Journals available – For B.Tech. (CSE/ECE/IT/ICE/EEE) Programme**

Sr. No.	Course	Number of title of the books	No. of Volume of the Books	National Journals	International Journals
1	B.Tech.	5969	56032	22	12

- **List of online National/ International Journals subscribed**

- ✓ 22 National & 12 International Journals are subscribed.
- ✓ In addition to above, every year the college purchases its own e-journal which are easily accessible to students, namely, IEEE POP All Online from EBSCO Information Services India Pvt. Ltd. worth Rs.7,05,615/- in 2023.
- ✓ 37 Magazines / Newspapers.

- **E- Library facilities / Library Automation / Digital Library**

Our College has full-fledged Library admeasuring area of 931.73 Sq.M. with Book Bank, Central Library & Reading Room Facility.

Recently, the College has spent more than Rs.25 Lakhs on books & journals during and increased the total no. of 56032 books and 5969 no. of titles. The database of books available in the Library is updated on day-to-day basis with details of recently acquired books.

The library is fully air-conditioned with internet connection for accessing e-journals and other sites of interest. The library catalogue is accessible on the internet to check the availability of books on shelf. A large number of books are available in the reference section covering a wide range of subjects. The section is augmented regularly with latest arrivals.

The library system is very user friendly with sufficient e-resources to meet the requirements of the users. The e-resources can be searched based on title of the book, author of the book, subject and publication or accession number of the book and the books can be booked online also.

It has a reading capacity of 120 students & 30 staff at a time and is functional from 09:00 am to 09.00 pm, round the week with following facilities:

- ✓ Entire Library administration is fully computerized / automated and bar coded with EASYLIB Library Management Software System.
- ✓ DELNET Membership
- ✓ Pearson e book perpetual access

- ✓ KOHA 22.11 open source software for automation with AMC charges 49560.00
- ✓ Turnitin software for plagiarism.
- ✓ Web OPAC Facility
- ✓ Fully computerized & bar coded.
- ✓ BVP Connect Android mobile app
- ✓ BVP Connects app for I-card, A LIVE seat availability check for the reading room, e resources, question paper and other reading material
- ✓ Reading room, reprographic, photocopy and book binding facility.
- ✓ Turnitin software for plagiarism.
- ✓ Swayam & National Digital Library.
- ✓ A LIVE seat availability check for the reading room, e- resources, question paper and **other reading material**
- ✓ 37 Magazines & Newspapers.

- **National Digital Library (NDL) Subscription**

National Digital Library of India (NDLI) is a virtual repository of learning resources which is not just a repository with search/browse facilities but provides a host of services for the learner community. It is sponsored and mentored by Ministry of Education, Government of India, through its National Mission on Education through Information and Communication Technology (NMEICT). Filtered and federated searching is employed to facilitate focused searching so that learners can find the right resource with least effort and in minimum time. NDLI provides user group-specific services such as Examination Preparatory for School and College students and job aspirants. Services for Researchers and general learners are also provided. NDLI is designed to hold content of any language and provides interface support for 10 most widely used Indian languages. It is built to provide support for all academic levels including researchers and life-long learners, all disciplines, all popular forms of access devices and differently-abled learners. It is designed to enable people to learn and prepare from best practices from all over the world and to facilitate researchers to perform inter-linked exploration from multiple sources.

BVCOE Central Library has taken Institutional Member of NDL. College has set NDLI club with the help of NDLI Club Team of IIT Kharagpur.

- **Laboratory Workshop Details:**

List of Major Equipment/Facilities in each Laboratory/Workshop is mentioned below:

1	APPLIED SCIENCE	Applied Chemistry Lab	2 Dig.Bal.3rd dec.place 150g, Conductivity mtr 2, pH Mtr2, Melt.ptAppratus
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2	APPLIED SCIENCE	Applied Physics I	He Ne Laser, Plank const, Newton Ring Exp, Spectrometer, Optical Fiber exp.
3	APPLIED SCIENCE	Applied Physics II	Photo cell, E.M, RF oscillator, Stefans law setup, Four Probe Setup
4	APPLIED SCIENCE	Engineering Graphics Lab	Graphics Table Set
5	APPLIED SCIENCE	Environmental Studies Lab	BOD,COD, DO Mtr, , Magnet Stirrer
6	APPLIED SCIENCE	Workshop	Arc welding, Gas Welding, Grinding, Power Hacksaw, Vertical drilling machine, Shearing Machine, Rolling and bending machine
7	APPLIED SCIENCE	Electrical Science Lab	CRO,Function Generator,Bread Boards,AC and DC Voltmeters,AC and DC Ammeters,DC supply,Variac,Transformer,Two way switch kit,multimeters,Wattmeters,
8	APPLIED SCIENCE	Language Lab	37 Computers (I5 10th generation 8 GB ram)
9	APPLIED SCIENCE	Programming in C	60 Computers (I5 10th generation 8 GB ram)
10	CSE	Computational Methods Lab	20 PCs Configuration: Intel Core 2 Duo, 2.93 GHz, HDD-500 GB, RAM – 2 GB, 19" TFT Monitor. 03 New PCs Configuration: Intel I5, HDD-500 GB, RAM – 4GB, 19" TFT Core, Turbo CPlusPlus

11	CSE	Wireless Communication Lab	20 PCs Configuration: Intel Core 2 Duo, 2.93 GHz, HDD-500 GB, RAM – 2 GB, 19" TFT Monitor. 03 New PCs Configuration: Intel I5, HDD-500 GB, RAM – 4GB, 19" TFT Core, CISCO PACKET TRACER (opensource), 1 Printer WIRESHARK (Opensource)
12	CSE	Digital Logic and Computer Design LAB	Software- GNU simulator 8085, Windows 10/Red Hat Linux, 36 -9th Gen. PC 16 GB RAM 1 TB SDD 21 inch multimedia Monitor, Lenovo, Printer, UPS
13	CSE	Data Structures Lab	17 PCs:, Intel Core 2 Duo, 2.90 GHz, HDD-500 GB, RAM-2 GB, 19" TFT Monitor, 16 PCs 9th Gen. PC 16 GB RAM 1 TB SDD 21 inch multimedia Monitor. 01 PC: Intel i5, 1 HP Laser Jet 1022 Printer, Software Turbo C++
14	CSE	Object Oriented Programming Using C++ LAB	14 Intel Core2Duo 2.93 GHz, HDD-500 GB, RAM-2GB, 19" TFT Monitor. 6 Intel I5 PCs HDD-500, 4 GB RAM. Printer HP Laser Jet 1022,TURBO C Plus Plus
15	CSE	Probability, Statistics and Linear Programming Lab	14 Intel C2D PCs, 2.93 GHz 2 GB RAM,6 Intel Core i5, 2.90 GHz, 4 GB RAM, 19" TFT Monitor, 1 printer, MATLAB
16	CSE	Database Management System Lab	14 Intel C2D PCs, 2.93 GHz 2 GB RAM, 8 Intel Core i5, 2.90 GHz, 4 GB RAM, 19" TFT Monitor, 1 Printer, Oracle 12c, Python (Jupyter) Notebook, My SQL
17	CSE	Programming in Java Lab	20 PCs Configuration: Intel Core 2 Duo, 2.93 GHz, HDD-500 GB, RAM – 2 GB, 19" TFT Monitor. 03 New PCs Configuration: Intel I5, HDD-500 GB, RAM – 4GB, 19" TFT Core, 1 Printer,Net Bean, C C Plus Plus on Linux (Ubuntu)
18	CSE	Software Engineering Lab	17 PCs:, Intel Core 2 Duo, 2.90 GHz, HDD-500 GB, RAM-2 GB, 19" TFT Monitor, 16 PCs 9th Gen. PC 16 GB RAM 1 TB SDD 21 inch multimedia Monitor. 01 PC: Intel i5, 1 HP Laser Jet 1022 Printer, STARUML
19	CSE	Algorithms Design and Analysis Lab	14 Intel Core2Duo 2.93 GHz, HDD-500 GB, RAM-2GB, 19" TFT Monitor. 6 Intel I5 PCs HDD-500, 4 GB RAM. Printer HP Laser Jet 1022,TURBO C Plus Plus
20	CSE	Digital Communication Lab	14 Intel C2D PCs, 2.93 GHz 2 GB RAM,6 Intel Core i5, 2.90 GHz, 4 GB RAM, 19" TFT Monitor, 1 printer, MATLAB
21	CSE	Operating System Lab	20 PCs Configuration: Intel Core 2 Duo, 2.93 GHz, HDD-500 GB, RAM – 2 GB, 19" TFT Monitor. 03 New PCs Configuration: Intel I5, HDD-500 GB, RAM – 4GB, 19" TFT Core, Linux(GCC)and Windows (Turbo C Plus Plus)

22	CSE	Computer Networks Lab	10-Intel- Core i5, 2.90 GHz, 8 GB RAM, 1 TB HDD, 19" TFT Monitor,Printer HP Laser Jet 1020, HP Laser Jet ProP1108, NS-3
23	CSE	Web Engineering Lab	14 Intel Core 2 Duo PCs 2.93 GHz, HDD-500 GB, RAM-2 GB, 19" TFT Monitor. 6 New Intel Core i5: 2.90 GHz, HDD-500 GB, RAM-4 GB, 19" TFT Core, 1 Printer, Eclipse, Tomcat server, Netbeans
24	CSE	Microprocessor and Microcontroller Lab	Software-KEIL(Freeware simulator and 8051 IDE(open source simulator), Windows 10/Red Hat Linux, 36 -9th Gen. PC 16 GB RAM 1 TB SDD 21 inch multimedia Monitor, Lenovo, Printer, UPS
25	CSE	Information Security	Software- C/C++, Windows 10, 24 i7 Lenovo Systems,printer,UPS
26	CSE	Software Testing & Quality Assurance Lab	Software- C/C++, Windows 10, 24 i7 Lenovo Systems,printer,UPS, (Turbo C Plus Plus)
27	CSE	Data Mining and Business Intelligence Lab	Software WEKA (open source), 42 i7 Lenovo Systems,Printer,UPS
28	CSE	POPL (Principles of programming language) Lab	Software-C++- Hardware-24 i7 Lenovo Systems,Printer,UPS
29	CSE	WIBD (Web intelligence and big data) Lab	Software -C/C++,Ubuntu 14.04- Hardware-42PCs Lenovo,Printer,UPS
30	CSE	Machine Learning Lab	Software – Python . Hardware - UPS,25PCs i7 Lenovo Systems,Printer
31	CSE	Mobile Computing Lab	14 Intel C2D PCs, 2.93 GHz 2 GB RAM,6 Intel Core i5, 2.90 GHz, 4 GB RAM, 19" TFT Monitor, 1 Printer, WINWAP

32	CSE	Object Oriented Software Engineering Lab	24 (i7) PC , 3.19GHz, 8GB RAM, 1TB HDD, 1 Printer, STARUML
33	CSE	AI and embedded Lab	STMicroelectronics AI Lab - 10 Seats (Components & Software) a) STM32 ARM Cortex M4 Development Kit: 10 Nos b) STMicroelectronics NanoEdge AI Studio Edu Pack: 10 Users for 3 Years c) Sensors Bundle (Motion & Vibration, Audio, Light, Temperature & Humidity, Ultrasonic): 10 Nos each d) Interfaces & Accessories: (LCD Unit, Micro SD Card, Connecting Wires, USB Cables) - 10 Nos each
34	ECE	Data Communication Networks Lab	20 Computers (i5, 6th gen, 4GB RAM) : Printer HP Laser Jet P1108(1)
35	ECE	ECE-Digital Logic & Computer Design Lab	UNIVERSAL IC TESTER, Digital IC traniner kit (10), 10 Computer (i5, 6th Gen,4GB RAM), GNU software (open Source)
36	ECE	ECE-Computational Method Lab	20 Computers (i5, 6th gen, 4GB RAM) : Printer HP Laser Jet P1108(1), Software : Code Blocks (Open Source)
37	ECE	ECE-Digital Image Processing Lab	15 Computer(i5, 6th Gen, 4 GB RAM), Printer HPLaser Jet 1018, MATLAB 2022 Licensed
38	ECE	ECE-Control System Lab	DC MotorSpeedControlKit(2), PID ControllerKit(2), LinearSystemSimulator(2), Pottentiometric Error detector(2), Speed -Torque curves of AC servometer(2), 20 Computer (i5, 6th gen, 4GB RAM) ,Printer HP Laser Jet P1108(1)
39	ECE	ECE-Analog Electronics Lab -I	Function Generator, DSO, Power Supply, CRO , Multi Meter, 2 channel Digital Oscilloscope, Dual Channel Arbitrary Function Generator, 3 channel 217W Linear DC Power Supply, AFG 1022 Arbitrary Function Generator(4), 22311A-30-3 Manual Triple Channel DC Power Suply(4), Rishabh 410 Multimeter(5), TBS 1052 Digital Storage Oscilloscope(4)

40	ECE	ECE-Analog Electronics Lab -II	Function Generator, DSO, Power Supply, CRO, Multi Meter, 2 channel Digital Oscilloscope, Dual Channel Arbitrary Function Generator, 3 channel 217W Linear DC Power Supply, AFG 1022 Arbitrary Function Generator(4), 22311A-30-3 Manual Triple Channel DC Power Supply(4), Rishabh 410 Multimeter(5), TBS 1052 Digital Storage Oscilloscope(4)
41	ECE	ECE-Microwave Engineering Lab	Microwave integrated circuit kit , C-Band Source, Attenuator, Detector, Coupler, Power Supply, VSWR Meter, Frequency Meter, Microstrip Kit, Gunn diode, TBS 1052 Digital Storage Oscilloscope(5), 10 Computers (i5, 6th gen, 4GB RAM) , HP Laser Jet Printer 1022(1)
42	ECE	ECE- Digital Communication Lab	MATLAB 2022 (Licensed), 15 Computer (i5, 6th gen, 4GB RAM) Sciencetech kit for each experiment, Model 2110, model 2151, model ST 2152, model 2153, model 2154, model 2155, model 2156, model 2157, model 2113, Model 2136(5), Model 2151 (2), Model 2153 (2), Model 2154(2), Model 2156(2), Model 21517(2), Model 2155 (2), Model 2113 (2), Printer HP Laser Jet 1018(1)
43	ECE	ECE- Analog Communication Lab	MATLAB 2022 (Licensed), 15 Computer (i5, 6th gen, 4GB RAM), Sciencetech kit for each experiment ,kit Model 2201, Model 2202 Model 2203, Model 2110, Model 2201(2), Model 2202(2), Model 2203 (2), DSO TBS 1052 C 50 MHz (5)
44	ECE	ECE- Digital Signal Processing Lab	MATLAB 2022 (Licensed), 15 Computer (i5, 6th gen, 4GB RAM), Printer HP LaserJet1018(1)
45	ECE	ECE- Optical & Wireless Communication Lab	Optical fibre analog digital trainer kit ST2502(5), Software : Optisim(Licensed-5 user), 13 Computer (i5, 6th gen, 4GB RAM), HP Laser Jet Printer P1108(1)
46	ECE	ECE- Microprocessor & Microcontroller Lab	Microprocessor training cum development kit (ET-8085LCD)(10 kits) , Stepper motor controller interfacing module(4), Microprocessor training kit (ET-8086 LCD)(No of kits-10), 10 Computers (i5, 6th gen, 4GB RAM) , 8253 Study Card (04), Software: Keil(Open Source) HP Laser Jet Printer 1022(1)
47	ECE	ECE- Digital System Design Lab	FPGA kits(8), Software: MENTOR GRAPHICS (HEP1, HEP2)(Licensed-60user), Xilinx ISE (open Source) 26 Computer(i7, 10 Gen, 8 GB RAM((9), (i5,6th Gen, 4GB RAM(17))), Printer HP Laser Jet M1005MFP
48	ECE	ECE-VLSI Design Lab	Software:MENTOR GRAPHICS (HEP1, HEP2)(Licensed-60user), 26 Computer(i7, 10 Gen, 8 GB RAM((9), i5,6th Gen, 4GB RAM(17))), Printer HP Laser Jet M1005MFP
49	ECE	ECE-Signal & System Lab	MATLAB 2022 (Licensed), 15 Computer (i5, 6th gen, 4GB RAM), Printer HP LaserJet1018(1)

50	ECE	ECE-DBMS Lab	26 Computer(i7, 10 Gen, 8 GB RAM((9), i5,6th Gen, 4GB RAM(17)), Printer HPLaser Jet M1005MFP, Software: MySQL(Open Source)
51		ECE-Satellite & Antenna Lab	ST 2272A SATELLITE COMM. TRAINER KIT, Scintech 2261 Antenna Base Unite S.No. C3201908(1)
52	ECE	ECE-Embedded Systems Lab	UNIVERSAL EMBEDDED TRAINER BOARD ON89C51RD2(08) 10 Computer (i5, 6th gen, 4GB RAM), Software: Keil(Open Source), HP Laser Jet 1022(1)
53	ECE	ECE-Mobile Computing	Software:QUALNET 5.1(Licensed-5user), 13 Computer (i5, 6th gen, 4GB RAM), HP Laser Jet Printer P1108(1)
54	ECE	ECE- Project Lab	ZYBO BOARD(1) ZYBO, 2 Zed Board((410-248) &(410-479)), GPU System Dell Precision 5820 Workstation(Intel xeon W-2245/32GB RAM/2TB HDD+256GB SSD/12GB RTX GPU with 3584 cuda cores/21.5" monitor/DVD writer/Keyboard & Mouse/3 year Warranty), AFG 1022 Arbitrary Function Generator(1), 22311A-30-3 Manual Triple Channel DC Power Suply(1), Rishabh 410 Multimeter(1), TBS 1052 Digital Storage Oscilloscope(1) , SENSENUTS KIT,16 Computer (i5, 10 Gen, 8GB RAM), HP Laser Jet Pro Printer P1108(1), Viewsonic Projector (1), Software: Python 3(open source), Matlab 2022(Licensed), GNU 8085 (open source), Keil (open source), LT Spice(open source), Virtual Lab (open source), Google Colab(open source)
55	ECE	ECE-Probability, Statistcs and Linear programming lab	20 Computers (i5, 6th gen, 4GB RAM) : Printer HP Laser Jet P1108(1), Software : Code Blocks (Open Source)
56	EEE	Electronics-I Lab	Diodes, Transistors,thyristors lcs etcPower supply, Function Generator, DSO
57	EEE	Electrical Engineering Workshop Lab	Electrical Hand Tools, DSO, Bread Board Illumination Panel Kits
58	EEE	Computational Methods Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
59	EEE	Electrical Machines-1	3-phase & 1-phase Induction Motor, Synchronous Motor, Alternator, Direct online starter, DC Shunt Motor, Transformer,3-Point starter, Mechanical Load Set up, DC generator, 2Computer(TFT Monitor, I5 processor, 2.7Ghz,SYNCROSCOPE, 8GB/4GB RAM,MATLAB

60	EEE	Power System Lab 1	Panel for calculation of ABCD Parameters for a Transmission Line, Ferranti Effect For Transmission Line, Apparatus for calculation of Resistance of Earth Using Earth Electrodes and Megger, Panel For calculating Dielectric Strength of The Transformer Oil
61	EEE	Network Analysis & Synthesis lab (Circuits & System Lab)	Experimental kits to calculate two port network parameter-Z,Y,H & Transmission parameter, interconnection of two 2-port network, MATLAB installed 1 computer
62	EEE	Electronics-II Lab	Diodes, Transistors, thyristors Ics etc Power supply, Function Generator, DSO
63	EEE	Probability & Linear Programming Lab	14 Computer, TFT Monitor, I-5 processor, HDD - 500GB, RAM -4 GB, MATLAB 2022R, 1 Printer
64	EEE	Electrical Machines-II	3-phase & 1-phase Induction Motor, Synchronous Motor, Alternator, Direct online starter, DC Shunt Motor, Transformer, 3-Point starter, Mechanical Load Set up, DC generator, 2 Computer (TFT Monitor, I5 processor, 2.7Ghz, SYNCROSCOPE, 8GB/4GB RAM, MATLAB
65	EEE	Power Electronics Lab	SCR & TRIAC, MOSFET, UJT, Single phase HWR, Single phase fully controlled, AC phase control, Cycloconverter, Buck and Boost converter, TYPE-C Chopper and SPWM Inverter kit
66	EEE	Sensors and Transducers Lab	Three Phase Power measurement kit by two wattmeter kit, 3 Phase autotransformer, testing of single phase and three phase electromechanical energy meter, measurement of power line parameters using series RLC load, Calibration of ammeter and voltmeter using potentiometer kit, function generator
67	EEE	Switching Theory & Logic Design Lab	Logic Gates ICs, Flip Flops Ics, MUX and D-MUX ICS, Digital Trainer Kits
68	EEE	Utilisation of Electrical Lab	1 Phase Energy meter kits, polar curve & inverse low kits, Iron losses kits, power factor meter kits, Transformer turns Ratio kits, Phantom Loading kits and Silsbee kits
69	EEE	EEE- Microprocessor and Microcontroller	Microprocessor Kit 8086 (Advanced Version)- 16, Interfacing Modules (8255, 8253, Stepper Module) 3 computers (I-5 processor, 4 GB RAM, 500GB Hard Disk)

70	EEE	Digital Signal Processing Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
71	EEE	EEE-Electric Drives Lab	AC Drives, Single and three-phase Microcontroller, DC series Motor, DC shunt Motor, 3 phase & 1 Phase Induction Motor,Experimental set up for study the closed loop control of BLDC Motor.MATLAB
72	EEE	Advanced Control System Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
73	EEE	Database Management System Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
74	EEE	Neuro Fuzzy System Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
75	EEE	Application of Power Electronics in Power Systems Lab	14 Computer, TFT Monitor, I -5 processor, HDD - 500GB, RAM -4 GB,MATLAB 2022R, 1 Printer
76	EEE	EEE-Research Lab	100 W Solar Panel, Boost Converter, Resistive Load
77	ICE	Modern Control System Lab	Computer Desktop PC-11,Printer 1, MATLAB Software, 10 User License
78	ICE	Digital Control System Lab	Computer Desktop PC-11,Printer 1, MATLAB Software, 10 User License
79	ICE	Intelligent System Control Lab	Computer Desktop PC-11,Printer 1, MATLAB Software, 10 User License
80	ICE	Bio-Medical Instrumentation Lab	PacemakerTrainerkit,RespirationRateMonitorTrainer,EMGTrainer,ECGmachine,PulseOximter,BloodPressureInstru ment,Biofeedback machine,Spirometer,12 Channel ECG machine
81	ICE	Control Systems	DC MotorSpeedControlKit, DCPositionControlKit,ACposition Control Kit Synchro-transmitter/receiverKit,PID ControllerKit,LinearSystemSimulator, Lead Lag Compensator, Computer Desktop PC-11,Printer 1, MATLAB Software, 10 User License

82	ICE	Sensors and Transducers Lab	RTD,Thermocouple,StrainGauge,UltrasonicDistance,PressureMeasurement,Optical,LoadCell,SpeedMeasurement IR,MagneticPickup,Thermistor, 30MHz CRO, OP-Instrumentation amplifier kit, Desktop PC 2
83	ICE	Electrical & Electronics Measurements Lab	KelvinBridge,HayBridge,MaxwellBridge,AndrsonBridge,OwenBridge,ScheringBridge,CT,PT,TrainerkitofLVDT, LCR Meter, Digital Frequency Meter, Three Phase Power measurement kit by two wattmeter kit, 3 Phase autotransformer, testing of single phase and three phase electromechanical energy meter, measurement of power line parameters using series RLC load, Calibration of ammeter and voltmeter using potentiometer kit, function generator, 2 Computer Desktop
84	ICE	Digital Signal Processing Lab	Computer Desktop PC-11,Printer, MATLAB Software, 10 User License
85	ICE	Digital Control System Lab	Computer Desktop PC-11,Printer, MATLAB Software, 10 User License
86	ICE	Digital System Design Lab	Computer Desktop PC-11,Printer, EDA Playground software
87	ICE	Microprocessors & Microcontrollers Lab	89C51RD2 development board-10nos, Desktop PC- 9 , EMU8086 - MICROPROCESSOR EMULATOR
88	ICE	Pneumatics & Hydraulics Lab	PneumaticElectroPneumatic,Hydraulics,ElectroHydraulicsPackage,SoftwareSimulatorPLCforElectroPneumaticTrainer,AirCompressor,SiemensPLC, EasyPortH/WS/Winterface,DesktopPC9, Festo Fulidsim Software
89	ICE	Robotics Lab	ModularProductionSystemFestosiemensPLCProgramming, Robot crane, X-Y Plotter 2 Elevator system for smart communication,Balloon Bursting Robot,Line Follower , Encoder kit,Desktop PC9
90	ICE	Process Control Lab	Cascade control kit, Control valve characteristic kit, Ratio control Kit, PID kit, Adam view Kit, NEPI software, D71Compressor, Desktop PC -9
91	ICE	Industrial Instrumentation Lab	PH measurement, conductivity measurement, Flow measurement, Temperature measurement, strain measurement, pressure measurement, speed measurement kit
92	ICE	Virtual Instrumentation Lab	NI data acquisition cards (NI-9472, 9477,9425,9219,9265), PC-9nos,
93	IT	Digital Logic	16 PC (Intel Xeon, 500 GB SSD, 1TB HARDDISK, I-5 12 th Generation, RAM 16 GB ,Window 10,Logisim,

		Computer Design Lab	
94	IT	Computational Methods Lab	23 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10), HP Laserjet 1020 Printer, Code Blocks
95	IT	Data Structure Lab	25 PC(Processor: - I5 Generation: - 12th gen RAM - 16 GB Operating system: - Window 10), Code Blocks,1 HP Laser 1000A Printer
96	IT	Object Oriented Programming Lab	35 PC(Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10), Code Blocks,1 HP Laser 1000A Printer
97	IT	Database Management system lab	23 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10),SOFTWARE-MySQL
98	IT	Probability Statistics and Linear Programming Lab	12 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10)MATLAB (R2022b), 1 HP Laser 1000A Printer ,
99	IT	Circuit and systems lab	16 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10)MATLAB (R2022b) , I HP Laser Printer
100	IT	Programming in java lab	25 PC(Processor: - I5 Generation: - 12th gen RAM - 16 GB Operating system: - Window 10),1 HP Laser 1000A Printer, JDK -open source, Anaconda and Jupyter Notebook -open source , Eclipse 4.23 -open Source
101	IT	Communication System Lab	12 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10)AM Tranmitter and Receiver (ST2202) ,FM Tran. & Rec.(ST2203),MATLAB (R2022b), Digital Storage Oscilloscope , I HP Laser Printer
102	IT	Algorithm Design and Analysis lab	35 PC(Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10), Code Blocks
103	IT	Software Engineering Lab	23 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10), Code Blocks, Star UML

104	IT	Microprocessor and Microcontroller Lab	12 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10),Microprocessor Kit 8086 (Advanced Version)- 16, Microprocessor Kit8085, Interfacing Modules (8255, 8253, Stepper Module)-05, Time Division, EMU 8086 - open Source Jubin's 8085 - Open Source
105	IT	Operating system(linux programming And administration) Lab	35 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10), Code Blocks 1 HP Laser 1000A Printer, Ubuntu 15 - Open Source
106	IT	Data communication and networks Labs	25 PC(Processor: - I5 Generation: - 12th gen RAM - 16 GB Operating system: - Window 10),1 HP Laser 1000A Printer,NS2 (Open Source),NS-2 and NS-3 - Open Source
107	IT	Web Engineering Lab	25 PC(Processor: - I5 Generation: - 12th gen RAM - 16 GB Operating system: - Window 10),Eclipse, Tomcat server, Netbeans
108	IT	Dot Net and C# Programming Lab	16 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10)Visual Studio 2012 - Open Source, I HP Laser Printer
109	IT	System and Network Administration Lab	16 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10),Ubuntu 15 - Open Source
110	IT	Cryptography& Network Security Lab	25 PC(Processor: - I5 Generation: - 12th gen RAM - 16 GB Operating system: - Window 10),1 HP Laser 1000A Printer, Codeblocks - Open Source
111	IT	Advanced Computer Network Lab	12 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10), Cisco Packet Tracer,NS-2,NS-3,1 HP Laser 1000A Printer

11 2	IT	Wireless Communicat ion Lab	23 PC (Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10),1 HP Laserjet 1020 Printer,Wireshark -open source, Cisco Packet Tracer
11 3	IT	Mobile Computing Lab	23 PC (Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10),WinWap, GPS Development-1 Kit, BluetoothTrainer-1Kit,CDMA-2Kit, SpectrumAnalyser-1,GSMTrainerKit-2, MobileTrainer-1Kit, 1 HP Laserjet 1020 Printer
11 4	IT	Adoc and Sensor Networks Lab	35 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10), Code Blocks , NS-2, NS-3 ,1 HP Laser 1000A Printer, Ubuntu 15 - Open Source, Code Block open source
11 5	IT	Information Theory & Coding Lab	16 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10)MATLAB (R2022b)
11 6	IT	Soft commputing Lab	12 PC(Processor: - I5 Generation: - 6th gen RAM - 8 GB Operating system: - Window 10)MATLAB (R2022b),1 HP Laser 1000A Printer , Python 3.11.0 - Open Source
11 7	IT	E-Commerce & M- Commerce Lab	16 PC (Processor: - Intel(R) Xeon (R) E-2224G CPU 3.50 GHz RAM - 1TB Operating system: - Window 10),Apac TomCat server
11 8	IT	Project and Research Lab	11 PC, 2 GPU Dell Server Xeon 2125 CPU 4.00Ghz,32 GB RAM, 2TB HDD,1 cloud server (Processor: - I5 Generation: - 6th gen , , Operating system: - Window 10), MySQL 8.0 - Open Source, .MATLAB(R2022 b) - Licensed, Python 3.11.0 - Open Source, R version 4.2.2 - Open Source, Ubuntu 15 - Open Source

- List of Experimental Setup in each Laboratory/Workshop**

All experiments are conducted as per the syllabus prescribed by University.

- Computing Facilities**

Internet Bandwidth

1 GBPS Broadband Connection ACT Fibres + Tata Lease line Connection of 300 MBPS with free access to Staff & Students

Number and configuration of System

Sr. No.	Configuration	Quantity
1	Intel i7, 9 th Gen PC 16 GB RAM 1 TB HDD	100
2	Intel i5, 10 th Gen PC 8 GB RAM 500 HDD	200
3	Intel i5, 6 th Gen PC 4 GB RAM 500 GB HDD	297
4	Intel Xenon PC 8 GB RAM 500 GB HDD	50
5	Servers	03
Total		650
GPU		03
Laptop		9

- **Total number of system connected by LAN / WAN**

650

- **Major software packages available**

Following is the list of all the software of different nature being used by the Institute:

Name of Laboratory	Configuration
DBMS,ADA LAB A-102	25
OOSE,WEB ENGG LAB A-103	25
COMPILER CONSTRUCTION LAB A-104	25
RESEARCH LAB A-106	02
LEARNING RESOURCE CENTER/CCNA LAB A-107	28
ADA LAB C-103	40
CSE STAFF	08
VLSI LAB A-202	26
MICROWAVE,OC,MOBILE COMPUTING LAB A-203	13
MPMC LAB A-204	10
COMMUNICATION LAB A-206	15
CONTROL SYSTEM LAB A-207 A	18
ANALOG ELECTRONICS LAB A-207 B	10

ECE (Staff Room)	02
CONTROL SYSTEM LAB A-301	04
A-303 (Staff Room)	02
A-304 (Staff Room)	02
IC & IP LAB A-306	18
ACS POWER SYSTEM LAB A-308	14
ICE (Staff Room)	03
NETWORKING SYSTEM PROGRAMMING LAB C-302	12
DIGITAL SIGNAL PROCESSING LAB C-303	14
PROGRAMMING LAB C-304	23
APPLICATION PROGRAMMING LAB C-305	25
MACHINE LAB B-004	02
LANGUAGE PROGRAMING LAB A-404	97
PROJECT LAB A-405	13
SYSTEM & NETWORK ADMINISTRATOR LAB C-102	16
DATA COMMUNICATION AND NETWORK LAB C-105	35
COMMUNICATION SYSTEM LAB C-302	12
PROJECT & RESEARCH LAB C-303	10
DATA STRUCTURE LAB C-304	25
SOFTWARE ENGINEERING LAB C-305	23
APPLIED SCIENCE	09
AS STAFF ROOM	07
EXAM CELL	04
ADMIN OFFICE	10
PLACEMENT CELL	03
DIGITAL LIBRARY	15
SERVER ROOM	02
CLASS ROOM B-302	01

LIST OF LICENSED / OPEN SOURCE SOFTWARE

Sr. No.	Software Name	No. of User	Status
1.	WINDOWS 10	Unlimited	Licensed
2.	MS-office 2019	Unlimited	Licensed
3.	Visual Studio	Unlimited	Licensed
4.	Matlab Software R2022B	Unlimited	Licensed
5.	Code Blocks		Open source
6.	GNU Sim8085 simulator		Open source

7.	Python		Open source
8.	Code Blocks		Open source
9.	QUALNET 5.1	05	Licensed
10.	Virtual Lab		Open source
11.	Xilinx ISE		Open source
12.	Orell Digital Language Lab	30	Licensed
13.	MENTOR GRAPHICS (HEP1, HEP2)	60	Licensed
14.	Google CO Lab		Open source
15.	Keil		Open source
16.	Optsim	05	Licensed
17.	MySQL 8.0		Open source
18.	LT Spice		Open source
19.	ETAP	10	Licensed
20.	Logisim		Open source
21.	JDK		Open source
22.	Anaconda and Jupyter Notebook		Open source
23.	Cisco Packet Tracer		Open source
24.	Star UML		Open source
25.	EMU 8086 - open Source		Open source
26.	Jubin's 8085 - Open Source		Open source
27.	Ubuntu 15 - Open Source		Open source
28.	Ns-2		Open source
29.	Ns-3		Open source
30.	Visual Studio 2012		Open source
31.	Visual C++	Unlimited	Licensed
32.	Eclipse		Open source
33.	Tomcat server		Open source
34.	Netbean		Open source
35.	Ubuntu 15		Open source
36.	Wireshark		Open source
37.	WinWap		Open source
38.	Libre/ Open Office		Open source
39.	Linux		Open source
40.	Apache TomCat server		Open source
41.	Python 3.11.0		Open source
42.	Ubuntu 15		Open source
43.	R tool version 4.2.2		Open source

44.	Blender2.75		Open source
45.	WEKA 3.6.6		Open source
46.	Oracle 12C	20	Licensed
47.	Python (Jupiter) Notebook		Open source
48.	Code Blocks on LINUX(UBUNTU)		Open source
49.	8051IDE		Open source
50.	EMU8086		Open source
51.	EDA Playground		Open source
52.	Festo Fluidsim, FST4		Open source
53.	MyOpenLa		Open source
54.	Ad NEPI		Open source

- **Special purpose facilities available (Conduct of online Meetings / Webinars/ Workshops, etc.)**

Dedicated special purpose facilities are available in the College for conduct of Online meetings, Webinars, Workshops, viz,

- Conferencing facility
- Video multimedia
- LCD Projectors
- Interactive boards
- Wi-Fi connectivity
- Internet facilities

- **Facilities for conduct of classes/courses in online mode (Theory & Practical)**

All classrooms are equipped with Smart-class Systems along with Internet for conducting Hybrid / Online Classes. Theory / Practicals in Language Laboratory are conducted in Hybrid / Online Mode.

- **Innovation Cell**

BVCOE, New Delhi's "INCUBATION CENTRE" for Innovation, Incubation and Entrepreneurship is dedicated to promote innovation and Entrepreneurship. It is a pedestal to help knowledge driven enterprises to establish and prosper under organized scientific guidance. It also facilitates swift commercialization of a product based on sophisticated technology.

The main objective of this centre to produce successful firms that will leave the program financially viable and free-standing. These incubators "graduates" create job, commercialize new technologies, and strengthen national economies. Incubator tenants not only benefit from business and technical assistance, they also benefit from official affiliation with the incubator, a supportive community with an entrepreneurial environment, direct link to entrepreneurs, and immediate networking and commercial opportunities with other tenant firms.

- **Institute Industry Cell**

The Institute Industry Cell of the College is constituted as under:

- | | |
|---|--------------------------|
| 1. Dr. Dharmender Saini
Principal | - Director |
| 2. Dr. Preeti Nagrath
T&P Director & Asso. Professor – CSE Dept. | - Incharge |
| 3. Dr. Arati Kane
HOD, ICE & Asso. Professor | - Member |
| 4. Dr. Manoj Sharma
ECE & Asso. Professor | - Member |
| 5. Ms. Rachna Narula
Asst. Professor – CSE Dept. | - Member |
| 6. Ms. Sarita
Training & Placement Officer | - Member |
| 7. Mr. Tanmay Wadhera
EEE – 4 th Year Student) | - Student Representative |
| 8. Mr. Ravdeep Singh
(CSE – 3 rd Year Student) | - Student Representative |
| 9. Mr. Devansh Verma
(IT – 4 th Year Student) | - Student Representative |
| 10. Mr. Neeraj Kumar Mishra
(ECE – 4 th Year Student) | - Student Representative |

- **Social Media Cell**

College has Facebook, Twitter, Instagram, LinkedIn etc. account. Information related to various events are posted on social media regularly.

- **Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments**

Not Applicable

- **List of facilities available**

Games and Sports Facilities

Sports & Gym facility

The college has always created a niche for itself in the field of sports. The college has since long times, been participating in various inter institution, state level tournaments. In sports, our college provides well-furnished facilities for both indoor and outdoor games to the students like, Volley Ball, Cricket, Basket Ball, Table Tennis, Chess, Carrom, etc.

A large number of sports activities are organized in the college aiding the students to display their talent in sports activities. One of the major sports event is the **Abhijeet Kadam Cricket Memorial Cup Tournament** is organized in the campus of Bharati Vidyapeeth Educational Complex, New Delhi on a very large scale every year. Various teams of other colleges various colleges of GGSIPU and Other University Colleges participate in this tournament.

The gym runs at separate timings for boys and girls.

Extra-Curricular Activities

The institution is committed to attract students for participating in various extracurricular activities by ensuring consistent encouragement and motivation. The necessary facilities are provided and adequate funds are allotted. The sports and cultural committees supervise the extracurricular activities. The students who participate in the sports activities or other extracurricular activities are provided with extra classes so that the time they have given in for the various activities can be compensated for.

- **Soft Skill Development Facilities**

Academic excellence alone is not enough and cannot guarantee a good career. Certain personality attributes and soft skills are essential not only to get a good job placement but also to be able to contribute and grow in an organization. Taking cognizance of this, the college emphasizes all round development through a range of extracurricular activities as well as organizing and conducting formal Personality Development Program.

Various Personality Development Activities are organized for students for training in communication skills, group discussion, interpersonal skills and interviews, via Guest Lecture, Seminar / Webinars, Workshops, etc.

The whole exercise is intended to increase the employability of students. Amidst an inspiring and invigorating environment, students undergo training that turns them into top notch professionals.

- **Teaching Learning Process**

Curriculum and syllabus for each of the Programmes as approved by the University.

Curriculum is available at GGSIP University website www.ipu.ac.in

- **Academic Calendar of the University**



GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

Sector 16 C, Dwarka, Delhi- 110078 (website: www.ipu.ac.in)

OFFICE OF THE DIRECTOR (ACADEMIC AFFAIRS)

Academic Calendar for Academic Session: 2023-24

For all programmes covered by Ordinance 11

(University Schools of Studies & Affiliated Colleges/Institutions)

S. No.	ODD SEMESTER 2023-24	DURATION	
		From	To
1	Imparting of instruction and / or laboratory work including continuous evaluation by teachers, semester end Lab/Practical/ term paper evaluation/ NUES etc. For Odd Semesters (First, Third, Fifth, Seventh & Ninth Semesters) (18 weeks duration, with 5 days' of weekly working)	21.08.2023 (Monday)	22.12.2023 (Friday)
2	Sports Meet	19.10.2023 (Thursday)	21.10.2023 (Saturday)
3	Preparatory Leave	23.12.2023 (Saturday)	29.12.2023 (Friday)
4	Term End Examinations	30.12.2023 (Saturday)	17.01.2024 (Wednesday)
5	Winter Vacation	18.01.2024 (Thursday)	24.01.2024 (Wednesday)

S. No.	EVEN SEMESTER 2023-24	DURATION	
		From	To
1	Imparting of instruction and / or laboratory work including continuous evaluation by teachers, semester end Lab/Practical/ term paper evaluation/ NUES etc. For Even Semesters (Second, Fourth, Sixth, Eighth & Tenth Semester) (18 weeks duration, with 5 days working)	25.01.2024 (Thursday)	29.05.2024 (Wednesday)
2	Anugoonj	08.02.2024 (Thursday)	10.02.2024 (Saturday)
3	Preparatory Leave	30.05.2024 (Thursday)	05.06.2024 (Wednesday)
4	Term End Examination	06.06.2024 (Thursday)	26.06.2024 (Wednesday)
5	Summer Vacation	27.06.2024 (Thursday)	31.07.2024 (Wednesday)

Important Notes:

- Term End Semester Examination schedules for various programmes shall be notified by the Office of the Controller of Examinations (I).
- The concerned Deans/Directors are advised to conduct continuous evaluation as per provision under Clause

- **Academic Time Table with the name of the Faculty members handling the Course**

The classes, labs, seminars and project work, as specified in the evaluation scheme and syllabus published by the University on its website (www.ipu.ac.in), are conducted in accordance with the time table issued by each department.

- **Teaching Load of each Faculty**

Teaching load of faculty is distributed as per AICTE norms.

- **Internal Continuous Evaluation System and place**

INTERNAL ASSESSMENT SCHEME

(New B.Tech Course Curriculum scheme; A.Y. 2021-2022 and onwards)

All the students admitted in A.Y. 2021-2022 and onwards, are hereby informed that the internal evaluation of theory and practical subjects will be done as per new B.Tech Course Curriculum scheme. The details of the assessment scheme are as under:

I) Theory (25 marks)

- a) **Mid Term Examination: (15 Marks)** Based on performance in Mid Term and Supplementary Examinations
- b) **Teacher Assessment :- (10 Marks)***

* Teacher Assessment is bifurcated as follow:

- 1. **Two Quizzes (Each quiz carries a weightage of 1 marks)**
 - One quizzes to be taken before mid term and one quiz after the mid-term examination. The teacher can take more quizzes if required (Best of 2 will be counted)
 - Quiz 1 will be based on Course Outcome (CO) CO1, CO2
 - Quiz 2 will be based on CO3, CO4
- 2. **One Case study (3 Marks)**
 - To be taken after mid term examination
 - Should cover all COs of a course
- 3. **Attendance in Theory class: (3 marks)**

Marks will be awarded to the student on the basis of following criteria

 - (i) Percentage attendance $\geq 75\%$: 3 Marks
 - (ii) Percentage attendance between 60% - 75 %: 2 Marks
 - (iii) Percentage attendance between 50%- 60%: 1 Marks
 - (iv) Percentage attendance below 50%: 0 Marks
- 4. **Innovation Summary/Assignment: (2 Marks)**
 - A student has to submit a report on the allotted research paper/patent/product/services at 2nd/3rd/4th year respectively.
 - The topics will be decided at the Department discretion.
 - A single submitted report will be considered in all theory subjects of a particular semester.
 - For first year subjects, the evaluation of one assignment in each theory subject will be considered.

For Reappear students, Internal assessment (Theory) of 25 Marks will be based on performance in Mid Term Examination (15 Marks); Teacher Assessment (10 Marks)

Kuldeep

(1/2)

Dr. Suman

II) Lab internal assessment (40 marks)

There will be two components of lab internal assessment:

- Internal lab Examination and Viva-voce: (20 marks)
- Continuous Lab Assessment: (20 Marks)

a) **Internal lab Examination & Viva: - 20 marks.** An internal Lab examination for each lab course in a semester will be conducted for 20 marks. The bifurcation of the marks is as follows:

- Answer sheet evaluation of the experiment: 5 marks
- Performance & Execution: 10 Marks
- Viva-voce: 5 Marks

b) **Continuous Lab Assessment :- 20 Marks**

- Each experiment will be evaluated out of 20 Marks as per following criteria

- a) Lab File :- 10 Marks
- b) Attendance :- 5 marks
- c) Experiment Performance:- 5 marks

- In all 11 Experiments as mentioned in Syllabus are to be performed including the Content beyond Syllabus and cocurricular lab based activity. Different cocurricular lab based activity defined for all years are identified as LCD/GD/Mini project/Viva for 3rd/4th/(5th,6th)/(1st, 2nd, 7th & 8th) semesters.

For Reappear students, Internal assessment (Practical) of 40 Marks will be done as per following:-

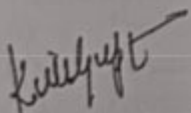
1. Internal lab Examination & Viva voce: (20 marks)

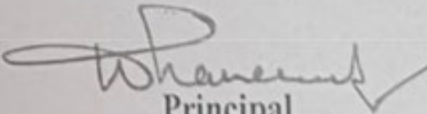
The bifurcation of the marks is as follows:

- Answer sheet evaluation of the experiment:- 5 marks
- Performance & Execution :- 10 Marks
- Viva-voce:- 5 Marks

2. Continuous Lab Assessment: (20 Marks)

As per previous semester record


Dean (Academics)


Principal

16. Enrolment and placement details of students in the last 3 years

<https://bvcoend.ac.in/index.php/placement-records/>

17. List of Research Projects/ Consultancy Works

Number of Projects carried out, funding agency, Grant received is mentioned as under:

1. Dr. Vanita Jain (Principal Investigator) and Ms. Alka Leekha (Co- Principal Investigator) has successfully completed project titled “Crop Yield Prediction” The project duration was from September, 2018 to January, 2019. (Imago AI Technologies Private limited) Received Amount: Rs. 25000/-.
2. DST Interdisciplinary Cyber Physical Systems (**ICPS**) DST, Government of India has sanctioned Rs. 14. 98 Lakhs, for “Design and Autonomous Intelligent Drone for City Surveillance” research Project. Dr. Dharmender and Dr. Narina Thakur are serve as Principal Investigator, Dr. Rachna Jain, Dr. Preeti Nagrath and Dr. Jude Hemanth serve as Co- Principal Investigator. The duration of the project is two years, with a start date of 1st April 2019, Project status: Ongoing Project.
3. A grant of 10 lakh for project “A Robotic Arm System that Converts Speech to Sign Language in Real Time” by MIC, AICTE in Smart India Hackathon 2018 (Hardware Edition) at IIT Kanpur.
4. Ministry of Civil Aviation, Airport authority of India has sanctioned 3 Lakhs fund to the project entitled “Incident Report Submission”, Mr. Vishal Sharma served as Principal Investigator, Project status: Project Completed, Project Duration : One year.
5. Indian Council of Medical Research – Funding Rs. 3 Lakhs, Project entitled “ Creating a repository of equipments under ICMR Intramural program”, Dr. Lalit Mohan served as Principal Investigator , Project status: Project Completed, Project Duration : One year.

• Industry Linkage

The college has interface with industries at various levels. The areas of industry interface/ interaction include:

(a) Industrial/Summer Training of students.

- (b) Student projects sponsored by the industry.
- (c) Introduction of extra teaching modules proposed by the industry in the college.
- (d) Industrial visits
- (e) Campus placements.
- (f) Incubator facility

For the Industrial training of all B.Tech. Students after Third Year, the college has linkages with a large number of PSUs and Private sector industry in concerned disciplines. The exposure and association with the industry after the pre-final year provides the student with the requisite orientation for the specialized course and project work which are part of the final year curriculum. A number of students are involved in doing projects with the industry and the college encourages students to undertake industry relevant project work.

With the varied needs of each type of industry, it will never be possible for any curriculum to meet the exact requirement of all industry. There will inevitably be a gap between the training imparted at any academic institution and the job requirements. This gap is filled by providing in-house training to the fresh entrants by the industry.

- **MoUs with Industries (minimum 3 (10))**

List of Companies with which we have functional relationships are mentioned below:

1. Vision Automation Ltd
2. Coding Ninja
3. Veeyo Tech Ltd
4. NASSCOM Foundation
5. Bhartiya Yuva Shakti Trust
6. AKGEC Skills Foundation
7. Institute for Industrial Development (IID)
8. JTP Co. Ltd.

9. Sunrise Mentors Pvt. Ltd.

10. Decide Precise Technologies

11. Brain Mentors Pvt. Ltd.

College has a dedicated Incubator Cell. The main objective of this Cell is to produce successful firms that will leave the program financially viable and free-standing. These incubators “graduates” create job, commercialize new technologies, and strengthen national economies. Incubator tenants not only benefit from business and technical assistance, they also benefit from official affiliation with the incubator, a supportive community with an entrepreneurial environment, direct link to entrepreneurs, and immediate networking and commercial opportunities with other tenant firms.

Passout Companies

- Advanced Hydrau Components
- Live Smart
- Sweet Jar
- Vox Ignite
- Edux
- Scribbler notebooks
- Garniche
- What After College
- Next Edge Retails
- PrimoIntel Tech

Running Companies

- Mr. Whitehat
- Trade Pro
- Devorbs
- Banquet Booking

- **Research Paper Publications in National / International Journals:**

Research Papers Published in International Journals**Research Papers Published in International Journals**

Sr. No.	Author(s)	Title of the Article	Title of the Journal	Volume & Issue No.	Page Numbers	Month & Year of Publication	ISSN No.
1.	Damyanti Singh Neeta Pandey Kirti Gupta	Schmitt Trigger 12T1M Non-volatile SRAM cell with improved process variation tolerance	AEU	Vol. 162,	-	April 2023	https://doi.org/10.1016/j.aeu.e.2023.154573
2.	Damyanti Singh Neeta Pandey Kirti Gupta	A novel read decoupled 8T1M nvSRAM cell with improved read/write margin	Analog Integrated Circuits and Signal Processing	114	89-101	Dec 2022	https://doi.org/10.1007/s10470-022-02121-z

3.	Damyanti Singh Neeta Pandey Kirti Gupta	Process invariant Schmitt Trigger non-volatile 13T1M SRAM cell	Microelectronics Journal	135	-	May 2023	https://doi.org/10.1016/j.mejo.2023.105773
4.	Shikha Neeta pandey Kirti Gupta	Memristor-Based Architectures for PFSCl Circuit Realizations	CSSP			25 March 2023	https://doi.org/10.1007/s00034-023-02346-x
5.	Damyanti Singh Kirti Gupta Neeta Pandey	A novel read decoupled 8T1M nvSRAM cell for near threshold operation	Microelectronics Journal	Vol. 126	1-16	1 August 2022	0026-2692
6.	Chauhan A Chopra D Tayal L Singal U Gupta K Gupta M	Design of an Efficient Memristor-based Dynamic Exclusive-OR gate	International Journal of Computer and Communication Technology	Vol. 8, Issue 3	76-83	October, 2022	DOI: 10.47893/IJCCT.2022.1428
7.	Sushil Kumar et al.	The Third Hermitian-Toeplitz and Hankel Determinants for Parabolic Starlike Functions	Bull. Korean Math. Soc.	Vol. 60, Issue 2	281-291	2023	
8.	Sushil Kumar et al.	Starlike functions associated with $\tanh z$ and Bernardi integral operator	Mathematical Foundations of Computing	Vol. 6 Issue 3	573-585	2023	
9.	Sushil Kumar et al.	Bound on Hankel determinants $H(2)^4(f)$ and $H(3)^4(f)$ for Lemniscate starlike functions	Honam Math. J.	Vol. 45, Issue 1	92-108	2023	
10.	Sushil Kumar et al.	Coefficient inequalities for a subfamily of Sakaguchi functions	Asian Eur. J. Math.	Vol. 16, Issue 5,	Paper No. 2350084, 15 pp	2023	
11.	Sushil Kumar et al.	Sharp estimates on Hermitian–Toeplitz	Commun. Korean Math. Soc.	Vol. 37, Issue 4	1041-1053	2022	

		Determinant for Sakaguchi classes					
12.	Sushil Kumar et al.	Hermitian-Toeplitz and Hankel determinants for starlike functions associated with a rational function	J. Nonlinear Convex Anal.	Vol. 23, Issue 12	2815-2833.	2022	
13.	Sushil Kumar et al.	Normalized analytic functions with fixed second coefficient	J Anal	-		2023	https://doi.org/10.1007/s41478-022-00544-5 .
14.	Sushil Kumar et al.	Certain estimates of normalized analytic functions	Math. Slovaca	Vol. 72 Issue 1	85–102	2022	
15.	Sushil Kumar et al.	Coefficient inequalities for certain starlike and convex functions	Hacet. J. Math. Stat.	Vol. 51 Issue 1	156-171	2022	
16.	Manoj Sharma Shivam Kumar Prakhar Priyadarshi Vishal Goyal	Efficient pipelined FFT hardware design for IEEE 754 single precision computing	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	629-634	June, 2022	0252-2667
17.	Kusum Tharani Raghav Kumar Pradeep Kumar	Simulation of Hybrid On-grid and Off-grid System Using Homer Pro	Journal of Control and Instrumentation Engineering	Vol.8, Issue 2	9-17	July 2022	2582-3000
18.	Aayush Khurana Sweta Mittal Deepika Kumar Sonali Gupta Ayushi Gupta	Tri-integrated convolutional neural network for audio image classification using Mel-frequency spectrograms	Multimedia Tools & Applications	Vol 82, Issue 4	-	June, 2022	5521-5546
19.	Deepika Kumar Varun Srivastava Daniela Elena Popescu Jude D Hemanth	Dual-Modal Transformer with Enhanced Inter- and Intra-Modality Interactions for Image Captioning	Applied Sciences	Vol. 12, Issue 13	6733	July 2022	2076-3417

20.	Chetan Madan Harshita Diddee Deepika Kumar Mamta Mittal	CodeFed: Federated Speech Recognition for Low-Resource Code-Switching Detection	ACM Transactions on Asian and Low-Resource Language Information Processing	-	-	17.11.22	ISSN:2375-4699 EISSN:2375-4702
21.	Varun Srivastava Deepika Kumar Sudipta Roy	A median based quadrilateral local quantized ternary pattern technique for the classification of dermoscopic images of skin cancer	Computers and Electrical Engineering	Vol. 102	108259	1/9/2022	Online ISSN: 1879-0755 Print ISSN: 0045-7906
22.	Nishant Rai Naman Kaushik Deepika Kumar Chandan Raj Ahad Ali	Mortality prediction of COVID-19 patients using soft voting classifier	International Journal of Cognitive Computing n Engineering	Vol. 3	172-179	11.9.2022	Online ISSN: 2666-3074
23.	Vaibhav Gulati Deepika Kumar Daniela Elena Popescu Jude D. Hemanth	Extractive Article Summarization Using Integrated TextRank and BM25+ Algorithm	Electronics	Vol 12, Issue 2	1-17	11.1.2023	ISSN: 2079-9292
24.	Surjeet Nishu Gupta Ahmad Alkhyat Isha Bharti Rami Q. Malik Sarmad Nozad Mehmood Firas Abedi	A survey on deep reinforcement learning architectures, application and emerging trends	IET Communications	-	1-16	July, 2022	ISSN 1350-2425

25.	Sarthak Aggarwal Saksham Sharma Surjeet Balhara	A block-chain Based Security Model for IOT Ecosystem	IERJ	Vol. 8, Issue 6	52-54	June, 2022	ISSN 2454-9916
26.	Mukul Rustagi Surjeet	Effective Usage of Hello Packet and Time Stamp to Improve the End-to-End Delay	Special Issue on Recent Research on Management, Applied Sciences and Technology, Stochastic Modelling & Application	Vol. 26, Issue 3	716-723	June, 2022	ISSN 0972-3641
27.	Surjeet	Data Security of IoT devices using Block Chain	Special Issue on Recent Research on Management, Applied Sciences and Technology, Stochastic Modelling & Application	Vol. 26, Issue 3	724-728	June, 2022	ISSN 0972-3641
28.	Prakhar Sharma Surjeet	Modified Expanding Ring Search Based on TTL Optimization for MANETS	Special Issue on Recent Research on Management, Applied Sciences and Technology, Stochastic Modelling & Application	Vol. 26, Issue 3	816-824	June, 2022	ISSN 0972-3641
29.	Surjeet Nishu Gupta Ahmad Alkhyat Isha Bharti Rami Q. Malik Sarmad Nozad Mehmood Firas Abedi	A survey on deep reinforcement learning architectures, application and emerging trends	IET Communications		1-16	July 2022	https://doi.org/10.1049/cmu2.12447

30.	Achyut Krishna Parag Kumar Yash Varshney Piyush Anand Saji M Antony	Textual and Visual Communication Using Cryptographic Algorithms	International Journal of Innovative Research in Engineering	Vol 3, Issue 3	94-100	June 2022	ISSN No: 2582-8746
31.	Sourabh Rana Priyanka Jain	Design of Low Profile high gain wideband circularly polarized low RCS single layer metasurface antenna using Characterstics mode Analysis	International Journal of Microwave and Wireless Technologies	-	1-12	Feb 2023	https://doi.org/10.1017/S1759078723000144
32.	N. Gupta Sandeep Banerjee	Rooftop-based magnetically levitated VAWT with specially designed guide vanes for enhanced efficiency in distributed generation	International Journal of Power Electronics	Vol. 15, Issue 3/4	522–547	June, 2022	1756-6398
33.	Saksham Kumar Bharat Singh Sandeep Banerjee Ajay Raj Devansh Aakash Gupta	Performance comparison between Arduino based dual axis solar tracker and fixed module	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	475-480	Jul-Sep., 2022	ISSN: 2169-0103
34.	Hena Varma Sandeep Banerjee Kusum Tharani Sourav Rawat Vansh Panwar Piyush Pant	Investigation on Modelling and Control of Induction Machine	Journal of Climate Change	Vol. 9, Issue 1	61-65	Jan-March, 2023	ISSN: 2395-7697
35.	Bharat Singh Ankur Chowdhury Akash Kumar	Investigation on electric vehicle motor challenges, solutions and control strategies	Journal of Information and Optimization Sciences	Vol 43, Issue 1	185-191	Jul-Sep., 2022	ISSN: 2169-0103

	Dixit Vishal Mishra Ankur Jain Neeraj Kumar						
36.	Diksha Chopade R. M. Holmukhe Abhishek Gandhar	Energy audit and conservation of Dental college – A case study	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	461-474	June, 2022	2169-0103 DOI: 10.1080/02522667.2022. 2073821
37.	Rajesh M. Holmukhe Hitesh Raut Abhishek Gandhar Drishti Hans T. S. Hasarmani	Automated load shedding period control system for distribution utility	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	587-600	June, 2022	2169-0103
38.	R. M. Holmukhe Abhishek Gandhar Drishti Hans Pranav V. Paithankar	A simulation study of solar wind hybrid power system	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	601-606	June, 2022	2169-0103
39.	Saket Tirpude Sachin Sawant R. M. Holmukhe Abhishek Gandhar Drishti Hans T. S. Hasarmani	Execution of a 15-level multilevel inverter for hybrid energy storage system (HESS)-based Electric Vehicles	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	1-14	June, 2022	2169-0103

40.	Rahul S. Desai R. M Holmukhe, Abhishek Gandhar Kusum Tharani Shashi Gandhar	An enhanced mathematical modeling structure of electric machine considering the effect of gravitational field	Journal of Interdisciplinary Mathematics			July, 2022	DOI: 10.1080/09720502.2022.2060912
41.	R. M. Holmukhe Sachin S. Sawant Abhishek Gandhar T. S. Hasarmani	Practical implementation of 15 level inverter for THD reduction	Journal of Information and Optimization Sciences	Vol. 43, Issue 3	437-445	June, 2022	2169-0103 DOI: 10.1080/02522667.2022.2083684
42.	Abhishek Gandhar Mohit Tiwari Tripti Tiwari Sunil Gupta Arvind Rehalia	Internet of Things Based Pestand Growth Management System Using Natural Pesticides & Fertilizers For Small Scale Organic Farming	Neuro Quantology	Vol. 20 , Issue 15	5777-5785	November, 2022	eISSN 1303-5150 DOI: 10.14704/NQ.2022.20.15.NQ88581
43.	Anil Kumar Bhardwaj Amit Kant Pandit Arvind Rehalia Vikram Singh Ruchi Sharma	A review on nanomaterials for drug delivery systems and application of carbon based nanomaterials	ES Materials & Manufacturing			Feb 2023	ISSN: 2578-062X (Online Version). DOI:10.30919/esmm5f824
44.	Yogita Arora Bhawna Aggarwal Jasdeep kaur	Analysis of Self-Bias Current Reference with BJT and its Application in Flipped Voltage Follower	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	-	-	March 2023 (online)	https://doi.org/10.1007/s40998-023-00590-0
45.	Mohammad Hussain Abbas	Low-profile high gain circularly polarized CRLH transmission line	International Journal of Microwave and Wireless Technologies	-	1-10	Nov 2022	1759-0787

	Shamsher Singh Ankit Sharma Deepak Gangwar	inspired antenna with artificial magnetic conductor for wearable applications					
46.	Nallagundla Suresh Babu Abdul Quaiyum Ansari Deepak Gangwar Binod Kumar Kanaujia Sachin Kumar Surendra Kumar Gupta	Dual-band circularly-polarized EBG-based antenna for Wi-MAX/WLAN/ISM band applications	Wireless Personal Communications	Vol 128 Issue 1	231-248	Jan 2023	0929-6212
47.	Deepti Ahlawat Shamsher Singh Ankit Sharma Deepak Gangwar Satya P Singh	Design of low RCS high gain CP slot antenna using polarization conversion metasurface	International Journal of Electronics	Vol. 110, Issue 4	648-669	Mar 2023	0020-7217
48.	Mohit Tiwari Shashi Gandhar S. B. Kumar Arvind Rehalia Sunil Gupta	A Comparative Approach On Enhancing Lifetime Of Wireless Sensor Networks	Journal of Pharmaceutical Negative Results	Vol. 13, Special Issue 7	1291-1299	December, 2022	ISSN: Print -0976-9234, Online - 2229-7723 DOI: 10.47750/pnr.2022.13.S07
49.	Preeti Nagrath	Toward design and implementation of self-balancing robot Using deep learning	Journal of Circuits, Systems and Computers	-	-	06-03-2023	SSN (print): 0218-1266 ISSN (online): 1793-6454
50.	Mohit Tiwari et. Al	A Review of Artificial Intelligence Applications in Supply Chain Management	A Journal for New Zealand Herpetology	12	612-619	March, 2023	ISSN / eISSN 2230-5807
51.	Mohit Tiwari et. Al	A Comprehensive Review of Artificial Intelligence Applications in Investment Management	A Journal for New Zealand Herpetology	12	620-628	March, 2023	ISSN / eISSN 2230-5807

52.	Mohit Tiwari et. Al	Machine Learning Applications in Education: Trends and Future Directions	A Journal for New Zealand Herpetology	12	629-638	March, 2023	ISSN / eISSN 2230-5807
53.	Mohit Tiwari et. al	Investigating The Role of Blockchain Technology in Health Care System	A Journal for New Zealand Herpetology	12	647-657	March, 2023	ISSN / eISSN 2230-5807
54.	Mohit Tiwari et. al	Agile Technology and Artificial Intelligent Systems in Human Resource Management Development	A Journal for New Zealand Herpetology	12	667-675	March, 2023	ISSN / eISSN 2230-5807
55.	Mohit Tiwari et. al	Detailed Investigation of Influence of Machine Learning and Big Data on Digital Transformation in Marketing	A Journal for New Zealand Herpetology	12	676-685	March, 2023	ISSN / eISSN 2230-5807
56.	Mohit Tiwari et. al	Role of Block Chain Technology and Internet of Things (IoT) to Protect Financials Transactions in Crypto Currency Market	A Journal for New Zealand Herpetology	12	686-694	March, 2023	ISSN / eISSN 2230-5807
57.	Mohit Tiwari et.al	Eco-friendly green cloud structure with internet of things for astute agriculture	Journal of Pharmaceutical Negative Results	Vol. 14, Issue 2	2973-2986	February, 2023	ISSN: Print -0976-9234, Online - 2229-7723
58.	Mohit Tiwari et.al	Detailed Investigation Of Cybersecurity In Governance	Shu Ju Cai Ji Yu Chu Li/Journal of Data Acquisition and Processing	Vol. 38 Issue 1	Page 142-150	09 th February, 2023	E-ISSN:1998-1392 (online)
59.	Mohit Tiwari et.al	Wireless communication based heart rate detection using wearable device	Journal of Pharmaceutical Negative Results	Vol. 14, Issue 2	3376-3382	February, 2023	ISSN: Print -0976-9234, Online - 2229-7723
60.	Mohit Tiwari et.al	A Detection of Intrusions Based on Deep Learning	Cybernetics and Systems	-	-	February, 2023	Print ISSN: 0196-9722 Online ISSN: 1087-6553

61.	Mohit Tiwari et.al	IOT based healthcare monitoring systems in electronic health record (ehr)	Lin chuang er bi yan hou tou jing wai ke za zhi = Journal of clinical otorhinolaryngology, head, and neck surgery	Vol. 27, Issue 1	1733-1743	February, 2023	ISSN : 1001-1781
62.	Mohit Tiwari Amrita Ticku et al	Detailed investigation about cyber security in recent times on Artificial Intelligence	Journal of Data Acquisition and Processing V	Vol. 38, Issue 1	Page no 17-23	March 2023	ISSN: 1004-9037
63.	Muskan Jain Dipit Vasdev Kunal Pal Vishal Sharma	Systematic literature review on predictive maintenance of vehicles and diagnosis of vehicle's health using machine learning techniques	Computational Intelligence	Vol. 38 Issue 6		25 th October, 2022	Online ISSN:1467-8640
64.	Sanjay Saxena Biswas Jena Bibhabas Mohapatra Neha Gupta Manudeep Kair Mario Scartozzi Luca Saba Jasjit S. Suri	Fused deep learning paradigm for the prediction of 6-methylguanine-DNA methyltransferase genotype in glioblastoma patients: A neuro-oncological investigation	Computers in Biology and Medicine	Vol. 153	106492	February, 2023	SCI https://doi.org/10.1016/j.combiomed.2022.106492
65.	Gopal S. Tandel Ashish Tiwari Omprakash G. Kakde Neha Gupta Luca Saba Jasjit S. Suri	Role of Ensemble Deep Learning for Brain Tumor Classification in Multiple Magnetic Resonance imaging sequence data	Diagnostics	Vol. 13, Issue 3	-	January, 2023	SCI https://doi.org/10.3390/diagnostics13030481
66.	Biswajit Jena Sanjay Saxena Gopal Krishna Nayak	Machine Learning in Healthcare Cybersecurity Role of Human Activity	Cancers	Vol. 14, Issue 16	-	August, 2022	https://www.mdpi.com/2072-6694/14/16/4052

	Antonella Balestrieri Neha Gupta Narender N.	Recognition and impact of 6G in Smart Healthcare					
67.	Ashutosh Dubey Chirag Keshri Divya Arora Poornima Suryvanshi Monica Bhutani	Optimization of Traffic Lights Using Open CV	Research and Applications: Emerging Technologies , HBRP Publications	Vol. 5, Issue 1	1-10	January, 2023	https://doi.org/10.5281/zenodo.7546260
68.	Monica Bhutani Brejesh Lall Monika Agrawal	Optical Wireless Communications: Research Challenges for MAC Layer	IEEE Access	Vol.10	126969 - 126989	01 st December, 2022	10.1109/ACCESS.2022.3225913
69.	V. Jain Ap. Jain V. Garg Achin Jain M. Demirci M.C. Taplamacioglu	Siamese neural networks for pandemic detection using chest radiographs	Technical and Physical Problems of Engineering (IJTPE)	Vol 14, Issue 51	104-110	June, 2022	ISSN 2077-3528
70.	V. Jain Y. Jain H. Dhingra Achin Jain M. Demirci M.C. Taplamacioglu	Dynamic visualization of an image for interactive actions	Technical and Physical Problems of Engineering (IJTPE)	Vol 14, Issue 53	363-369	December, 2022	ISSN 2077-3528
71.	Surinder Kaur Javalkar Dinesh Kumar Gopal Chaudhary Manju Khari	Breast Cancer Detection Using Deep Learning and Feature Decision Level Fusion	Fusion: Practice and Applications (FPA)	Vol. 08, Issue 1	50-59	2022	2692-4048

72.	Rajiv Kumar Nehra N S Raghava	Compact Dual-Band Zig Zag Shaped Implantable Antenna for Biomedical Devices	Indian Journal of Pure & Applied Physics	Vol. 60,	841-848	October 2022,	0975-1041
73.	Rajiv Kumar Nehra N S Raghava	Improved performance of highly compact CP implantable antenna using slots	International journal of electronics	https://doi.org/10.1080/00207217.2023.2173809	1-17	13 th February, 2023	207217
74.	Avinash Kumar Nisha Gupta	Screen-Printed Wideband Absorber for the and Ku Bands	IEEE Transactions on Electromagnetic Compatibility	64 & 5	1321-1329	October, 2022	https://ieeexplore.ieee.org/document/9807430?source=authoralert
75.	Avinash Kumar Nisha Gupta	Low Cost Electromagnetic Absorber for Shield Packaging	IEEE Transactions on Components, Packaging and Manufacturing Technology	13 & 3	374-381	March, 2023	https://ieeexplore.ieee.org/document/10098193?source=authoralert
76.	Tavleen K. Nagi Abhishek Tomar Deepanshi Jain Surinder Kaur	Identification of Cardiovascular Disease Patients	Fusion: Practice and Applications (FPA)	Vol. 10 , Issue 1	08-19	October 14, 2022	2692-4048

77.	V. Jain B. Jha S. Joshi S. Miglani A. Singal S. Babbar M. Demirci M. C. Taplamacioglu	Human disease detection using Artificial Intelligence	International journal on technical and physical problems of Engineering	Vol. 15, Issue 55	1-7		2077-3528
78.	Rishit Jain Revant Singh Rai Sajal Jain Ruchir Ahluwalia Jyoti Gupta	Real time sentiment analysis of natural language using multimedia input	Multimedia Tools and Applications	-	-	14 th April, 2023	https://doi.org/10.1007/s11042-023-15213-3

79.	Aahn Deshpande Shubham Kumar Kalash Butola Harshit Pandey Jyoti Gupta	Automated Eye Diseases Recognition Web-Application Using Convolutional Neural Networks	Advancement in Image Processing and Pattern Recognition, HBRP Publications	Vol. 06 Issue 02	PP13-24	01 st April, 2023	https://doi.org/10.5281/zenodo.7845022
80.	Aryan Raj Tiwary Aditya Kumar Gupta Preetish Niket Tapas Khanijo Jyoti Gupta	Determination of Metallicity of different Galaxies using Image Processing and Deep Learning Algorithms	International Journal of Innovative Research in Engineering	Vol. 3, Issue 4	194-199	July – Aug, 2022	ISSN No: 2582-8746
81.	Gopal Chaudhary Manju Khari Mohamed Elhoseny	<u>Multimodal Human Eye Blink Recognition Using Z-score Based Thresholding and Weighted Features</u>	International Journal of Interactive Multimedia & Artificial Intelligence	Vol.7, Issue 4	100-111	June, 2022	ISSN 1989 - 1660
82.	Rubeena Vohra K. C. Tiwari	Land cover classification using multi-fusion based dense transpose convolution in fully convolutional network with feature alignment for remote sensing images.	Earth Science Informatics	Vol 16, Issue 7	1-21	November, 2022	EISSN: 1865-0481
83.	Rubeena Vohra K. C. Tiwari	Analysis of land use and land cover changes and their impact on temperature using landsat satellite imageries	Environment, Development and Sustainability	-	1-28	August, 2022	EISSN: 1573-2975 DOI:10.1007/s10668-022-02416-1
84.	Annu Dabas Shweta Kumari Maneesha Gupta Richa Yadav	Design and analysis of DTMOS based RFC with controlled positive feedback OTA using HSCCM and Adaptive biasing Technique	Integration the VLSI Journal	90	90-103	May, 2023	DOI: 10.1016/j.vlsi.2023.01.012
85.	Annu Dabas Richa Yadav Maneesha Gupta	Improved performance recycling folded cascode OTA using multipath positive	Sadhana	47	162	August 2022	DOI: https://doi.org/10.1007/s12046-022-01907-1

		feedback and pseudo differential pair for biasing					
86.	Priyanka Gupta Rajeshwari Pandey	Low Power Squaring Circuit using Single Voltage Differencing Buffered Amplifier	Journal of Circuits, Systems and Computers	Vol. 31, No. 14	2250253 (22 pages)	June, 2022	1793-6454 (online) 0218-1266 (print) https://doi.org/10.1142/S021812662250253X
87.	Puneet Singh Lamba Deepali Virmani Manu S Pillai Gopal Chaudhary	Multimodal Human Eye Blink Recognition Using Z-score Based Thresholding and Weighted Features	International Journal of Interactive Multimedia & Artificial Intelligence	Vol.7, Issue 4	100-111	June, 2022	ISSN 1989 - 1660
88.	Arun Kumar Dubey H. Alaskar A. Hussain B. Almaslukh T. Vaiyapuri Z. Sbai	Deep Learning Approaches for Automatic Localization in Medical Imagestelligence and Neuroscience	Computational Intelligence and Neuroscience	Vol. 2022, Article ID 6347307	17 pages	2022	ISSN: 1687-5265 (Print)
89.	Arun Kumar Dubey Gautam Gupta Prachi Aggarwal Achin Jain Puneet Singh Lamba Gopal Chaudhary	Crime Anomaly Detection using CNN and Ensemble Model	Fusion: Practice and Applications (FPA)	Vol. 11, Issue 01	89-99	2023	ISSN: 2692-4048 https://doi.org/10.54216/FPA.110107
90.	Shashi Gandhar	A mathematical framework of ANFIS tuned UPQC controlled RES based isolated microgrid system	Journal of Interdisciplinary Mathematics	-	-	July, 2022	ISSN / EISSN : 0972-0502
91.	Shashi Gandhar	Wireless Power Transmission by Resonant Power Converters for Charging of Evs	Journal of Instrumentation and Innovation Sciences	Vol.7, Issue 2	5-16	May-August, 2022	e-ISSN: 2456-9860
92.	Amit Sharma	Performance and stability enhancement of mixed dimensional bilayer inverted	Sustainable Chemistry and Pharmacy	Vol. 29	100807	Oct. 2022	2352-5541

		perovskite (BA2PbI4/MAPbI3) solar cell using drift-diffusion model					
93.	Amit Sharma	Efficient and stable perovskite solar cells by interface engineering at the interface of electron transport layer/perovskite	Optical Materials	Vol. 132	112846	Oct 2022	0925-3467,
94.	Amit Sharma	Cetrimonium bromide and potassium thiocyanate assisted post-vapor treatment approach to enhance power conversion efficiency and stability of FAPbI3 perovskite solar cells	RSC Advances	Vol. 13	1402-1411	Jan. 2023	2046-2069
95.	Amit Sharma	Additive engineering with sodium azide material for efficient carbon-based perovskite solar cells	New J. Chem	-	7765-7773	March 2023	1144-0546
96.	Anil Kumar	A descriptive analysis of the shadows cast by black holes	International Journal of Science, Mathematics and Technology Learning	-	-	-	ISSN: 2327-915X Scopus, Web of Science
97.	Anil Kumar	Analyses of the dielectric and physical characteristics of amide medicinal compounds	International Journal of Science, Mathematics and Technology Learning	-	-	-	ISSN: 2327-915X Scopus, Web of Science
98.	Anil Kumar et. al.	Zn-Cr-LDH"-based Nano-Hybrids assembling at the presence of anions to Sense gas	Eur. Chem. Bull. 2023	12 (Special Issue 4)	233-243	-	-
99.	Ritika Chauhan	Eco-friendly extraction of Mosambi (Citrus limetta) essential oil from waste fruit peels and its potential use as a larvicidal, insecticidal and antimicrobial agent	International Journal of Environment and Waste Management	29,	360-375	June 2022	1478-9868

100.	Ritika Chauhan	Investigatory studies on pattern enhancement in fine particulate matter in Delhi during winters	International Journal of Pharmaceutical and Bio-Medical Science	Vol. 03, Issue 0	98-101	March, 2023	2767-827X
101.	Charu	Mathematical Modelling to Predict the Effect of Vaccination on Delay and Rise of COVID-19 Cases Management	Mathematics Journal SCI indexed	11(4)	821	February, 2023	ISSN: 2227-7390
102.	Mahesh Kumar Devender Kumar	An Efficient Gravitational Search Decision Forest Approach for Fingerprint Recognition	Kuwait Journal of Science	Vol. 50 No. 2A	1-15	10 th March, 2023	ISSN:2307-4108 https://doi.org/10.48129/kjs.20635
103.	Mahesh Kumar Devender Kumar	A hybrid approach of gravitational search algorithm and ant miner plus for Fingerprint recognition	International Journal of Modern Physics C	Vol. 34, No. 04	-	September 2022	ISSN: 0129-1831 DOI: 10.1142/S0129183123500444
104.	Saurabh Singh et. al.	Investigation of Dielectric and Electrical Behaviour of Y ₂ Ti ₂ O ₇ Pyrochlore	Springer Nature	Accepted	Accepted	2023	Accepted
105.	Saurabh Singh et. al.	Tribology of Spray Formed Aluminium-Based Materials	Springer Nature	Accepted	Accepted	2023	Accepted
106.	N. Verma, N. Kumar, Saket Gupta Hasmat Malik Fausto Pedro García Márquez	Review of sub-synchronous interaction in wind integrated power systems: classification, challenges, and mitigation techniques	Prot Control Mod Power Syst	Vol.8, Issue 17	01-26	19 April 2023	ISSN : 23670983 / 23672617.
107.	Charu Arora Poras Khetarpal Saket Gupta Nuzhat Fatema Hasmat Malik Asyraf Afthanorhan	Mathematical Modelling to Predict the Effect of Vaccination on Delay and Rise of COVID-19 Cases Management	Mathematics	Vol.11, Issue 4	821	6 February 2023	ISSN 1350-2425

108.	Ajay Dureja Aman Dureja Suman Payal Pahwa	Real-time load balancing and dynamic profile management in mobile data networks	International Journal of Vehicle Information and Communication Systems	-	Accepted	-	-
109.	Payal Malik Ankit Vidyarthi	A deep learning assisted image-guided framework for differentiation among tumors and hemorrhages in head imaging	Computers and Electrical Engineering	Vol. 103	-	October 2022	
110.	Srishti Vashishtha et al.	A fuzzy rule-based system with decision tree for breast cancer detection	IET Image Processing	-	-	MAR 2023	Online ISSN 1751-9667 Print ISSN 1751-9659
111.	Amrita Ticku	Analysis of new differential evolution variants to solve multi-modal problems	IAES INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE	Vol 12, Issue 3	1352-1359	01-09-2023	ISSN 2089-4872
112.	Amrita Ticku	Detailed investigation of cybersecurity in governance	Shu Ju Cai Ji Yu Chu Li/Journal of Data Acquisition and Processing	Vol. 38, Issue 1	Page 142-150	02-09-2023	E-ISSN:1998-1392 (online)
113.	Aarti	Security issues and optimal approaches for mobile ad hoc	Journal of Aeronautical Materials	Vol. 43	144-150	02-03-2023	ISSN:1005-5053
114.	Kaushal Sharma	Developing English communication skills in a different cultural Context.	International Journal of Interdisciplinary Organizational Studies	Vol 16, Issue 4	283-293	2022	23247657, UGC care, SCOPUS
115.	Kaushal Sharma	Detailed Examination of How Technology can Help in Meeting Standards in English Language Learning and Learning	International Journal of Interdisciplinary Organizational Studies	Vol 17, Issue 4	212-222	2023	23247657, UGC care, SCOPUS, Science

Research Papers Published in National Journals

Sr. No.	Author(s)	Complete Title of the Article or Chapter in Book	Title of the Journal/ Book	Volume & Issue Number	Page Numbers/ Number of Pages in the Book	Month & Year of Publication	ISSN No.
1.	Abhinav Raj Sandeep Banerjee Pranav Grover Yuvraj Rathore Tapash Nayak	Affordable Water Quality Monitoring System Using IOT RC Boat	Journal of Instrumentation and Innovation Sciences	Vol. 7, Issue 2	17-21	July, 2022	2456-9860
2.	Kaushal Sharma	Contribution of Kamla Das to Indian English Literature	75 Years of Women's Literary Contribution and Achievements	-	-	February, 2023	-
3.	Sumit Chawla	Dispatching Rule-Based Single Machine Static Scheduling of Crankcase Covers	In book: Advanced Production and Industrial Engineering	Vol. 27	371 - 378	November, 2022	DOI:10.3233/ATDE220768

18. LOA and subsequent EOA till the Current Academic Year

The copy of LOA and subsequent EOAs from A.Y. 1999 – 2000 to till date are uploaded on our College Website
<https://bvcoend.ac.in/index.php/aicte-eoa/>


19. Accounted audited statement for the last year

Audited Statement for last Financial Year 2022-2023 is attached as **Appendix “D”**

20. Best Practices adopted, if any

- (i) Preparation of good quality video lectures for both theory and practical for students benefits.
- (ii) Preparation of Soft copy of handwritten lecture notes of the corresponding video lectures.
- (iii) Promoting the faculty members for undergoing the faculty development programs at various levels.

Appendix – A



BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING (BVCOE)
 (Affiliated to Guru Gobind Singh Indraprastha University, Approved by AICTE, New Delhi)
 A-4, Paschim Vihar, Rohtak Road, New Delhi-110063

Ref. No.: BV/COE/ND / / 2023-2024
Dated: 02-01-2024

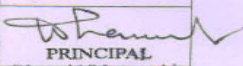
Total Land: 5.00 Acre (20,234.28 Sq. Mt.)
 (Institutional Land, allotted by DDA)

Details of Total Built-up Area available with the College
 (All figures are in Sq. Mt.)

Table 1.0: Abstract of the Area Details:

Sr. No.	Area Details	Required	Available	Remarks
1.	Total Administrative Area	1065	1321.74	
2.	Total Instructional Area	5,906	6,329.32	
3.	Total Amenities Area	670	3,957.16	
4.	Total Circulation Area	1910.25	2902.055	
5.	Grand Total Built-up Area	9551.25	14510.275	

Table 2.0: Summary of the Area Details:

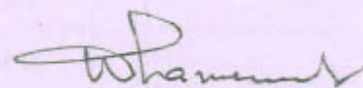
Particulars	Total Carpet Area for 04 Years B. Tech. Programme with 750 intake i.e. 750(1 st Year) + 540*3 (2 nd year onward)= 2370 Students		Remarks
	AICTE Requirements	Available with the College	
Administrative Area	1065	1321.74	
Common - Instructional Area	5906	6329.32	
Programme Specific Instructional Area			
Total Academic Area	6,971	7651.06	 PRINCIPAL Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar New Delhi-110063
Amenities	670	3,957.16	

1

Particulars	Total Carpet Area for 04 Years B. Tech. Programme with 750 intake i.e. $750(1^{st} \text{ Year}) + 540 \times 3$ (2 nd year onward)= 2370 Students		Remarks
	AICTE Requirements	Available with the College	
Total Carpet Area	7641	11,608.22	
Circulation and Other Areas)	1910.25 (25% of total carpet area)	2902.055	
Grand Total Built-up Area	9551.25	14510.275	

Note:

1. A total of **4,824.00 sq. mt.** area (which comprises of Auditorium, Guest House, Students' Common Rooms, Amphitheatre, Girls' Hostel, Staff Quarter, Cafeteria, Bank & ATM, Gymnasium, Medical Room, etc.) are available in sharing for all the 03 Institutions in the campus, as centralized facilities.
2. Additionally, **Play Ground of 4.2 acres for Outdoor Sports** facilities, in the campus, in sharing for all the 03 Institutions, is also available.



PRINCIPAL
Bharati Vidyapeeth's
College of Engineering
A-4, Paschim Vihar,
New Delhi-63

मु. प्र. सं.—जाय 614—5 किताबें प्रत्येक में 100 × 4—14-9-95



परिशिष्ट 'अ'

पश्चिमी क्षेत्र

प्रपत्र—1

(संपादन सं. 7, 6)

दिल्ली नगर निगम

D-255/EE(B)/W2/09

पत्र संख्या सं. 12/EE(B)/W2/09 डी. 8.5.09

कमांक 1375

नक्शा सं. 5764/12/14/1005/77/EE(B)/W2/09 डी. 10.11.06

दिनांक 10/5/2009

संस्थापक/कमिशनर

Director, Bhanu Vidya Beeth, College of Engineering,
A-4 Paschim Vihar Roh'ak Road New Delhi

अधिभोग प्रमाण-पत्र

आवृत्ति समाप्त सूचना दिनांक 8.5.2009

कारण कि...

A-4 Paschim Vihar Roh'ak Road, New Delhi

कमांक सं.

5764/12/14/1005/77/EE(B)/W2/09 डी. 10.11.06

विबरण...

...

के संदर्भ में मैं एतद्वारा प्रमाणित करता हूँ कि...

निर्माण का विवरण

पहली मंजिल

1. Boys Hostel Room — 1 No.
2. Dining Room — 1 No.
3. Kitchen — 1 No.
4. Pantry — 1 No.
5. Washing — 1 No.
6. W.C. — 2 Nos.
7. Bath — 2 Nos.
8. Passage — 1 No.
9. Porch — 1 No.
10. Stair Case — 1 No.

दूसरी मंजिल

1. Boys Hostel — 4 Nos.
2. Lobby — 1 No.
3. W.C. — 2 Nos.
4. Bath — 2 Nos.

संलग्न: प्रमाणित समाप्त स्थान की प्रतिलिपि

5. Passage — 1 No.
6. Stair Case — 1 No.

पहली मंजिल

1. Boys Hostel — 4 Nos.
2. Lobby — 1 No.
3. W.C. — 2 Nos.
4. Bath — 1 No.
5. Passage — 1 No.
6. Stair Case — 1 No.

THIRD FLOOR

9. 1. Boys Hostel — 4 Nos.
10. 2. Lobby — 1 No.
3. W.C. — 2 Nos.
4. Bath — 1 No.
5. Passage — 1 No.
6. Stair Case with ramp — 1 No.

कुले बाबुल

पश्चिमी नगर निगम

Executive Engineer (Building)

West Zone

Municipal Corporation of Delhi

10/5/2009

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Appendix – C

FIRE FIGHTING CERTIFICATE

FORM 'H'
FORM FOR ISSUING FIRE SAFETY CERTIFICATE
[Refer sub - rule (1) of rule 35]
GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEAD QUARTERS: DELHI FIRE SERVICE, CONNAUGHT PLACE
NEW DELHI

No: 22/DFS/MS/2016/WZ/1667 Dated: 24/01/2020
FIRE SAFETY CERTIFICATE

Certified that the building of Bharati Vidyapeeth's College of Engineering located at A - 4, Paschim Vihar, Rohtak Road, New Delhi - 110063 comprised of Ground Plus Three Upper floors has already been issued fire safety certificate vide letter no. F6/DFS/MS/2016/WZ/1667 dated 11/11/2016. The premises was re - inspected by the officer from this department on dated 09-01-2020 in the presence of Sh. Pramod Patil (Estate Manager) and observed that all the fire prevention & fire safety arrangements as provided in the premises found in good working condition. The premises have therefore deemed complied with rule 33 of the Delhi Fire Service Rule, 2010 and that the building/premises is fit for occupancy class Educational Building Group B Sub Division B - 2, with effect from 24/01/2020 in accordance with rule 36 unless renewed under rule 37, or sooner cancelled under rule 40 and subject to compliance of the conditions under rule 38 of the Delhi Fire Service Rules, 2010.

Issued on 24/01/2020 at New Delhi.

(DHARAMPAL BHARDWAJ)
DY.CHIEF FIRE OFFICER

Copy to:-
1. The Principal,
Bharati Vidyapeeth's College Of Engineering,
A - 4, Paschim Vihar, New Delhi - 110063

Conditions for the validity of Fire Safety Certificate:

1. All the fire safety arrangement provided their in shall be maintained in good working conditions at all times.
2. Loss of life or property due to non functional fire safety measure shall be at the responsibility of the management.
3. The trained fire fighting staff should be available round the clock.
4. Any deviation with regard to the construction etc shall be verified by the concerned building sanctioning agency.
5. This certificate cannot be treated in any case for regularizations of unauthorized construction.
6. "The owner / Occupier shall apply for renewal of this Fire Safety Certificate to the Director in Form 'J' [sub rule (1) of rule 37] along with a copy of this Certificate, six months prior to its expiry".
7. There shall not be more than 45 students in class rooms in any case.

Appendix – D

AUDITED STATEMENT FOR THE F. Y. 2022 – 2023

**BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NEW DELHI
BALANCE SHEET AS AT 31ST MARCH 2023**

LABILITIES	SCHEDULE	CURRENT YEAR 2022-2023
CORPUS FUND (Bharati Vidyapeeth)	V	28,23,93,533.42
RESERVES & SURPLUS		
I) RESERVE		-
II) Income & Expenditure as per last year surplus.		-
LOAN		
Secured		-
Unsecured from:		-
Person having substantial interest other		-
Current Liabilities & Provisions.	VI	64,83,68,155.00
AICTE GRANT		140.00
NATIONAL ARCHIVERS OF INDIA		7,840.00
TOTAL		93,07,69,668.42
ASSETS.		
FIXED ASSETS.	VII	6,49,60,976.00
INVESTMENTS.		
Against fund & Other		
Current Assets, Loans & Advances.	VIII	10,31,42,747.83
Current assets.		
Loan & Advances.		
INCOME & EXPENDITURE ACCOUNT		
Balance as per last B/s	64,22,70,751.60	
Add: During the year	<u>12,03,95,192.99</u>	76,26,65,944.59
TOTAL		93,07,69,668.42

Signed in terms of our report of even date

For C S Vaidya & Co.
Chartered Accountants

For Bharati Vidyapeeth College of Engineering

Chandhu Shekhar Vaidya
(C S VAIDYA)
Prop
M No. 88920
UDIN- 24088920RKGZRE9261
Date : 06.12.2023
Place : New Delhi

[Signature]
ACCOUNTANT

[Signature]
PRINCIPAL

[Signature]
REGIONAL DIRECTOR

Regional Director
Bharati Vidyapeeth
Educational Complex
A-4, Paschim Vihar
New Delhi-110063



BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NEW DELHI

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31ST MARCH 2023

DETAILS	SCHEDULE	CURRENT YEAR 2022-2023
<u>INCOME</u>		
Fees.	I	24,71,11,111.00
Interest		33,11,844.00
Consultancy Fees.		1,30,560.00
Other Income (Give detail for major head)		
TOTAL		25,05,53,515.00
<u>EXPENCES</u>		
Employees Cost.	II	24,66,14,469.00
Operating Expenses.	III	7,93,89,029.99
Administration & General Expenses.	IV	3,04,90,337.00
		35,64,93,835.99
<u>Surplus/Deficit before Depreciation & Interest</u>		(10,59,40,320.99)
Depreciation/Amortisation	VII	1,44,64,872.00
Interest		
<u>Surplus/(Deficit)</u>		(12,03,95,192.99)
<u>(for the year before Exceptional Item.)</u>		
Exceptional Item		-
Surplus / Deficit for the year		(12,03,95,192.99)

Signed in terms of our report of even date

For C S Vaidya & Co.
Chartered Accountants

For Bharati Vidyapeeth College of Engineering

(Signature)

(C S VAIDYA)
Prop
M No. 88920
UDIN- 22088920ANAPST3327
Date : 06.12.2023
Place : New Delhi



(Signature)
ACCOUNTANT



(Signature)
PRINCIPAL

(Signature)
REGIONAL DIRECTOR

**Regional Director
Bharati Vidyapeeth
Educational Complex
A-4, Paschim Vihar
New Delhi-110063**