

भारतीय सूचना प्रौद्योगिकी संस्थान भोपाल
(शिक्षा मंत्रालय भारत सरकार के अधीन राष्ट्रीय महत्व का संस्थान)
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY BHOPAL
(An Institute of National Importance under Ministry of Education, Govt. of India)



वार्षिक प्रतिवेदन २०२३-२४
ANNUAL REPORT 2023-2024
जुलाई २०२३ से जून २०२४
(July 2023 to June 2024)

(इस वार्षिक रिपोर्ट में प्रस्तुत जानकारी शैक्षणिक वर्ष २०२३-२४ से संबंधित है, जिसमें १ जुलाई, २०२३ से ३० जून, २०२४ तक की अवधि शामिल है, जब तक कि अन्यथा निर्दिष्ट न हो)

(The information presented in this Annual Report pertains to the academic year 2023-24, covering the period from July 1, 2023, to June 30, 2024, unless otherwise specified)

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Preface

The Indian Institute of Information Technology, Bhopal (IIIT Bhopal) was established in 2017 and has accomplished seven years of progression. It is one of the 20 IIITs established under the Public Private Partnership Scheme by Ministry of Education (MoE), Government of India (GoI), IIIT Bhopal was declared as an “Institution of National Importance” under the provisions of Indian Institute of Information Technology (Public-Private Partnership) Act-2017.

Despite its relatively recent establishment, IIIT Bhopal is committed to establishing itself as a pioneer in cutting-edge technology research and education. The institute offers undergraduate programs in diverse specializations including Computer Science & Engineering, Information Technology, and Electronics and Communication Engineering. These programs are designed to provide students with a comprehensive learning experience that emphasizes academic excellence, practical skills acquisition, and overall personal development. IIIT Bhopal is supported by a distinguished faculty, supplemented by adjunct faculty from various institutes, ensuring students benefit from a broad spectrum of expertise and exposure.

IIIT Bhopal places a strong emphasis on fostering the holistic development of its students, beyond mere academic achievements. The institute actively encourages students to engage in extracurricular activities, coding and cultural clubs, and societies, thereby nurturing their overall growth. Committed to creating a conducive environment for learning and research, IIIT Bhopal continually endeavors to fulfill its mission of emerging as a premier institution in the field of information technology.

This annual report pertains to the academic session of 2023-24, offering a comprehensive overview of the institute's activities, achievements, and progress over recent years. The report provides valuable insights into the remarkable achievements and progress of our students, including notable increases in average and highest package offerings. Additionally, it explores the research endeavors of our faculty and highlights our focus on refining the curriculum to meet industry requirements. The institute expresses gratitude to all stakeholders for their unwavering support in our pursuit of academic excellence. This report underscores the collective efforts and dedication of the IIIT Bhopal community, manifesting our commitment to promoting innovation, knowledge, and metamorphic education.

Director's Message



The Indian Institute of Information Technology, Bhopal, recognized as an Institute of National Importance, was established in 2017 by the Ministry of Education (MoE), Government of India, under a not-for-profit Public-Private Partnership framework. Our institute is driven by a vision to create a robust platform for education and research, aiming to serve as a source of pioneering ideas and innovations in technology and science, supported by a distinguished faculty.

As an Institute of National Importance, we are committed to providing exceptional technical education, preparing students to become leaders in their respective fields. We believe in unlocking the vast potential within each individual, ensuring they receive the highest quality education for self-empowerment. Recognizing our role in shaping responsible citizens, we foster an environment that nurtures intellectual curiosity, critical thinking, and a lifelong passion for learning. Our mission extends beyond preparing students solely for the dynamic realm of technology; we aim to equip them with the skills and knowledge essential for excelling as leaders, innovators, and entrepreneurs.

We envision our institute as a vibrant hub of innovation and research, fostering an ecosystem that encourages interdisciplinary collaboration among students and faculty from diverse domains. This collaborative approach is designed to address complex social and research challenges. To realize this vision, we emphasize the development of an environment that encourages risk-taking, experimentation, and curiosity. Our students are trained to push boundaries and explore uncharted territories, fostering a culture that values and embraces the spirit of exploration.

Our commitment to excellence is evident in our cutting-edge academic programs, strategically crafted to stay abreast of technological advancements. To ensure ongoing relevance to industry standards, we regularly update our curriculum. We firmly believe that education transcends the confines of classrooms and institutions. Consequently, we actively forge partnerships with leading industries and research organizations to involve our students in real-world projects and internships.

These collaborative learning experiences, rooted in real-world projects, not only contribute to technological advancements but also foster societal betterment. Recognizing the significance of holistic development in the educational journey, we prioritize the personal growth of our students, emphasizing leadership abilities, ethical values, and social responsibility.

To realize our vision, we intend to enlist renowned faculty members who exhibit a deep passion for teaching, learning, and research. These faculty members will assume the role of mentors, guiding students in recognizing their potential and attaining their objectives. We are committed to providing faculty members with ample resources and opportunities for continuous professional development. Creating an atmosphere of perpetual enhancement and innovation is central to our plan. Additionally, we aspire to actively collaborate with the wider community and industry partners, acknowledging that such partnerships are crucial for advancing societal progress. Furthermore, we are dedicated to leveraging the expertise and resources of all stakeholders to enhance the quality of our educational and research programs.

In line with our commitment to technological advancement and industry relevance, we are excited to announce the launch of three new M.Tech programs in Data Science, Artificial Intelligence, and Cyber-Physical Systems. Additionally, we are introducing four new B.Tech programs under the Department of Computer Science and Engineering, all aligned with the vision of Industry 4.0. These programs are meticulously designed to equip students with cutting-edge skills and knowledge, ensuring they are well-prepared to meet the evolving demands of the technology landscape.

With regards,

Prof. Ashutosh Kumar Singh

Director, IIIT Bhopal

2. Introduction

2.1 Institute Profile

The Indian Institute of Information Technology Bhopal (IIIT Bhopal) operates as an autonomous Institute of National Importance (INI) under the Indian Institute of Information Technology University Act, 2017. Established on a not-for-profit Public-Private Partnership (N-PPP) model, IIIT Bhopal represents a collaborative effort involving the Ministry of Education (MoE), Government of India (GoI), the Government of Madhya Pradesh (GoMP), and its industry partner, Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV) Bhopal.

With a capital cost of ₹128 crores, the funding for IIIT Bhopal is distributed among the Government of India, the Government of Madhya Pradesh, and Rajiv Gandhi Proudhyogiki Vishwavidyalaya in the proportions of 50:35:15, respectively.



Institute Partners

In alignment with the Indian Institute of Information Technology (N-PPP) Act, 2017, IIIT Bhopal is dedicated to the following key objectives:

- Emerging as a prominent entity in the global landscape of information technology and its related domains.
- Establishing state-of-the-art facilities and providing conducive learning environments for advanced technical studies, fostering an innovative mindset across diverse research areas.
- Cultivating a culture of lifelong learning, ethical behavior, and human values among the youth.
- Offering cutting-edge knowledge in Computer Science, Information Technology, and Electronics & Communication to aspiring engineers.

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY BHOPAL

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Presently, IIIT Bhopal operates temporarily from the campus of its mentor institute, Maulana Azad National Institute of Technology (MANIT Bhopal), situated in the heart of the city across a sprawling 600+ acre lush-green campus. A designated 60-acre plot on the outskirts of Bhopal has been identified for the establishment of IIIT Bhopal's permanent campus.

This forward-looking institution is committed to creating a robust platform for education and research, aiming to become a source of pioneering ideas and innovations in technology and science. By nurturing intellectual curiosity, critical thinking, and a passion for learning, IIIT Bhopal strives to produce leaders, innovators, and entrepreneurs equipped with the skills and knowledge essential for excelling in their respective fields.

2.2 Vision and Mission

The institute is committed to get itself recognized as the forerunner in Information Technology related science and engineering. It aspires to establish a firm foundation for education and research under a high-quality faculty base with the objective to be the fountainhead of new ideas and innovations in technology and science. IIIT Bhopal strives to propel the nation on the growth-trajectory envisaging to achieve the aspired synergistic ends of the institution and society at large.

Mission

- ❖ To impart a high quality of innovation & research-oriented education and to provide an environment to nurture the leaders of tomorrow.
- ❖ To enable the students formidably at the forefront of solving problems at national and global level within the context of larger humanistic concerns.
- ❖ To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.

To project the spirit of involvement and inclusiveness, and showcasing the strength of mutual co-operation, thereby inspiring IIIT Bhopal to a glorious height.

2.3 Mentor Institute

Maulana Azad National Institute of Technology (MANIT) serves as the Mentor Institute for the Indian Institute of Information Technology Bhopal (IIIT). Originally established as Maulana Azad College of Technology (MACT) in 1960 at Govt. S.V. Polytechnic with an initial intake of 120 students and seven faculty members, the institute is named after the esteemed educationalist and scholar, Maulana Abul Kalam Azad, former Union Education Minister of the Government of India.

During the premiership of Shri Atal Bihari Bajpayee, the then Minister of HRD, Murli Manohar Joshi decided to elevate all "Regional Engineering Colleges" to "National Institute of Technology," with funding provided by the Central Government. MANIT received the status of a deemed university in the same year. In 2007, the Government of India passed the NIT Act, designating MANIT as an Institute of National Importance. Spanning an impressive 650 acres (260 ha), it stands as one of the largest NITs in India in terms of total campus area.

MANIT offers a diverse academic portfolio, including nine Bachelor's programs, twenty-nine Master's programs, along with Doctoral Programs and an MBA Program.

3. Administrative Organization

3.1 Board of Governors

S.No.	Name and Designation of the Nominee	Provision in the Act
1.	Shri K. Sanjay Murthy, Secretary (Higher Education), MoE-GoI	Chairman
2.	Joint Secretary (Technical Education), MoE-GoI	Member
3.	Vice Chancellor, RGPV Bhopal	Member
4.	Prof. K. K. Shukla, Director MANIT	Member
5.	Principal Secretary (Technical Education), GoMP	Member
6.	Mr. Ravi Kathuria, Senior VP, Global Marketing, HCL Noida	Member
7.	Dr. Vaishali Walke, Professor & Head, Pathology and Lab Medicine, AIIMS Bhopal	Member
8.	Mr. Rajeev Verma, Architect/Actor/Theatre Artist, Bhopal	Member
9.	Dr. Dheeraj Sangai, VC designate at J K Lakshmi Pat University Jaipur & Professor (Retd.), IIT Kanpur	Member
10.	Dr. M. S Gaur, Professor, MNIT Jaipur & Director IIT Jammu (On Deputation)	Member
11.	Dr. V. B. Borghate, Professor, VNIT Nagpur	Member
12.	Prof. Ashutosh Kumar Singh, Director, IIIT Bhopal	Member
13.	Registrar, MANIT Bhopal	Member Secretary

3.2 Finance Committee

S.No	Name and Designation of the Nominee	Provision in the Act
1.	Chairman, BoG, IIIT Bhopal	Chairman
2.	Director (Finance), GoI Ministry of Education, Shastri Bhawan, New-Delhi	Member
3.	Joint Director (Finance) Directorate of Technical Education Govt. of M.P, Bhopal	Member
4.	Vice Chancellor RGPV, Bhopal	Member
5.	Prof. Ashutosh Kumar Singh, Director, IIIT Bhopal	Member
6.	Officer-in-charge, F&A, IIIT Bhopal, (Registrar)	Secretary

4. Infrastructure and Facilities

Infrastructure

Until further instructions from the competent authorities, IIIT Bhopal classes are being held at MANIT Bhopal's New Teaching Block. IIIT Bhopal students have access to MANIT Bhopal's academic and other facilities based on availability and requirements. This includes a total of 20 allocated rooms, encompassing a Computer Lab, Electronics Lab, Sports Room, T.P.O. Room, Conference room, Faculty Staff Room, Office, Student Activity area, and eight classrooms.



Medical Facilities

The dispensary at MANIT Bhopal, the mentor institute, provides medical facilities to IIIT Bhopal students. Medical experts in Obstetrics & Gynaecology, General Medicine, Ophthalmology, Dentistry, and Dermatology visit the dispensary regularly as per the established schedule.

Hostel facilities

IIIT Bhopal offers accommodation in two hostels, one at RGPV (Rajiv Gandhi Proudyogiki Vishwavidyalaya) and the other at NITTTR (National Institute of Technical Teachers' Training and Research) Bhopal, each designed to house approximately 125 students. These hostels cater separately to both girls and boys, ensuring comfortable and secure living arrangements. With ample capacity and essential amenities, these facilities provide an environment conducive to academic and personal growth, fostering a sense of community among students



Library

The central library at the mentor institute (MANIT) serves as a shared resource for students at IIIT Bhopal. MANIT's central library comprises six distinct divisions: Acquisition, Building, Circulation, Computer Centre & Data Entry/Digital Library, Documents & Records Keeping, and Book Bank.

Sports Facility

The sports facilities of the mentor institute are utilized by IIIT Bhopal for its sporting activities. The sports complex, equipped with a fully-fledged building, provides amenities like a gymnasium and courts for basketball, handball, and volleyball. Additionally, IIIT Bhopal has set up a dedicated sports room that offers indoor games such as Table Tennis, Carom, and Chess.

5. Academic Unit

5.1 Admission Policy

Admission is based on the relative performance in the Joint Entrance Examination (Main), administered by the National Testing Agency (NTA) in accordance with guidelines from the Ministry of Education (MoE), New Delhi. Applicants must have successfully completed the 10+2 examination with the subject combination specified by the All-India Council for Technical Education (AICTE), New Delhi, for the relevant discipline.

5.2 Programs Offered

Undergraduate Programs

The institute offers a 4-year B. Tech program in the following three disciplines:

1. Electronics and Communication Engineering
2. Computer Science & Engineering
3. Information Technology

Each department is dedicated to identifying and nurturing the hidden talents of young students, helping them maximize their potential to become independent and innovative thinkers. The curriculum is designed to equip students with the skills needed to develop innovative and indigenous solutions. The department fosters an environment that promotes the academic growth of both its faculty members and students.

IIT Bhopal has introduced four new B. Tech programs under the Department of Computer Science & Engineering. The primary aim of introducing these disciplines is to address emerging technologies and meet the demands of the industry 4.0 era. Admissions for these programs will commence from the next academic session with the intake capacities specified below:

Discipline	Capacity
1. B. Tech in CSE (Artificial Intelligence)	30
2. B. Tech in CSE (Data Science)	30
3. B. Tech in CSE (Cyber Security)	30
4. B. Tech in CSE (Cyber Physical Systems)	30

Postgraduate Programs

IIT Bhopal has introduced three M. Tech programs (full time and professional) and MCA program in academic session 2023-24. The intake will be taken from CCMT and institute level counselling from next academic session. The full time M. Tech program will be for 2 years of duration and professional M. Tech and MCA course will be of 3 years. The following table mentioned the M. Tech , MCA programs and their respective departments:

1. M.Tech in Artificial Intelligence (Department of Computer Science & Engineering)
2. M.Tech in Cyber Physical System (Department of Electronics and Communication Engineering)
3. M.Tech in Data Science (Department of Information Technology)
4. Master in Computer Applications (Department of Information Technology)

The postgraduate programs are designed for students seeking advanced coursework along with a minor and a major project. Those interested in a research career have the option to undertake thesis work for a year instead of the projects. The first semester focuses on establishing the foundational knowledge essential for the computer science discipline, allowing students to acclimate to the instructional philosophy and pedagogy of the Institute. In the following semesters, students have the opportunity to specialize in one or more areas of computer science, information technology and electronics & communication.

5.3 Admission Data

Intake Capacity Year-wise

I. In-take capacity: Admission year 2019		
1.	B.Tech. (Electronics and Communication Engineering)	66 seats
2.	B.Tech. (Computer Science Engineering)	66 seats
3.	B.Tech. (Information Technology)	66 seats

II. In-take capacity: Admission year 2020, 2021, and 2022		
1.	B.Tech. (Electronics and Communication Engineering)	75 seats
2.	B.Tech. (Computer Science Engineering)	75 seats
3.	B.Tech. (Information Technology)	75 seats

III. In-take capacity: Admission year 2023		
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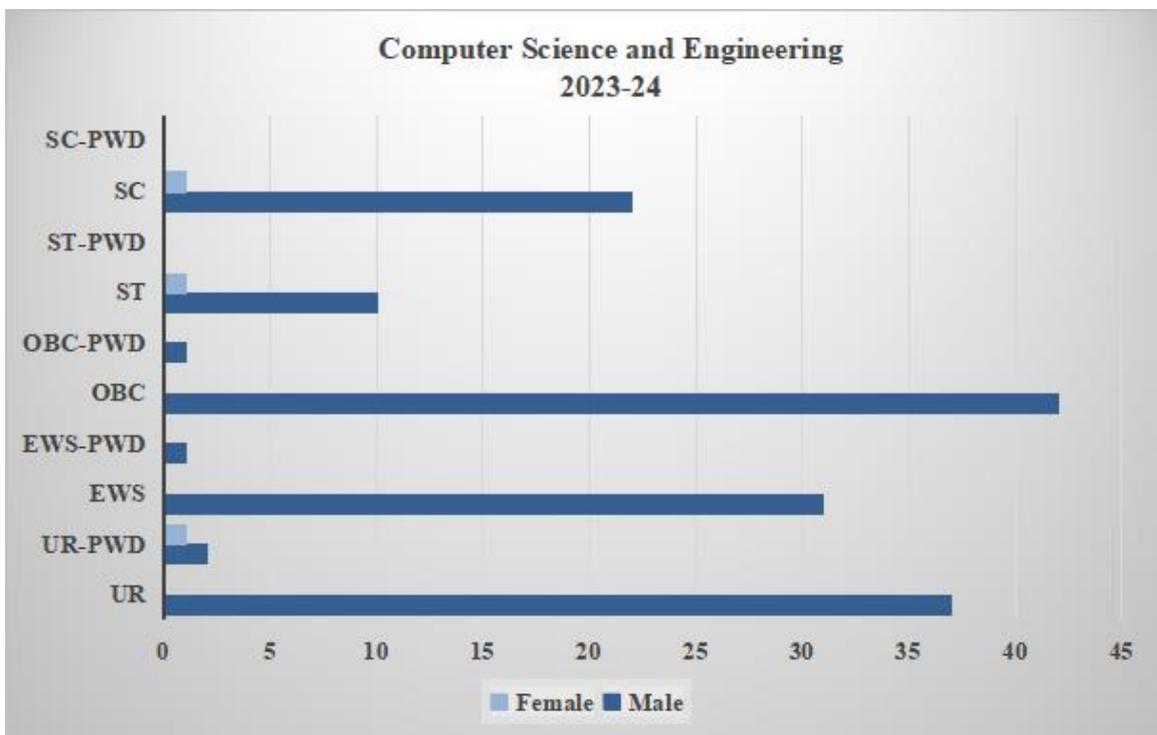
4.	B.Tech. (Electronics and Communication Engineering)	90 seats
5.	B.Tech. (Computer Science Engineering)	180 seats
6.	B.Tech. (Information Technology)	120 seats

In the academic year 2022-2023, a total of 225 students enrolled in the B. Tech program at IIT Bhopal. The comprehensive breakdown, inclusive of admission data from the previous year, is presented in the table below.

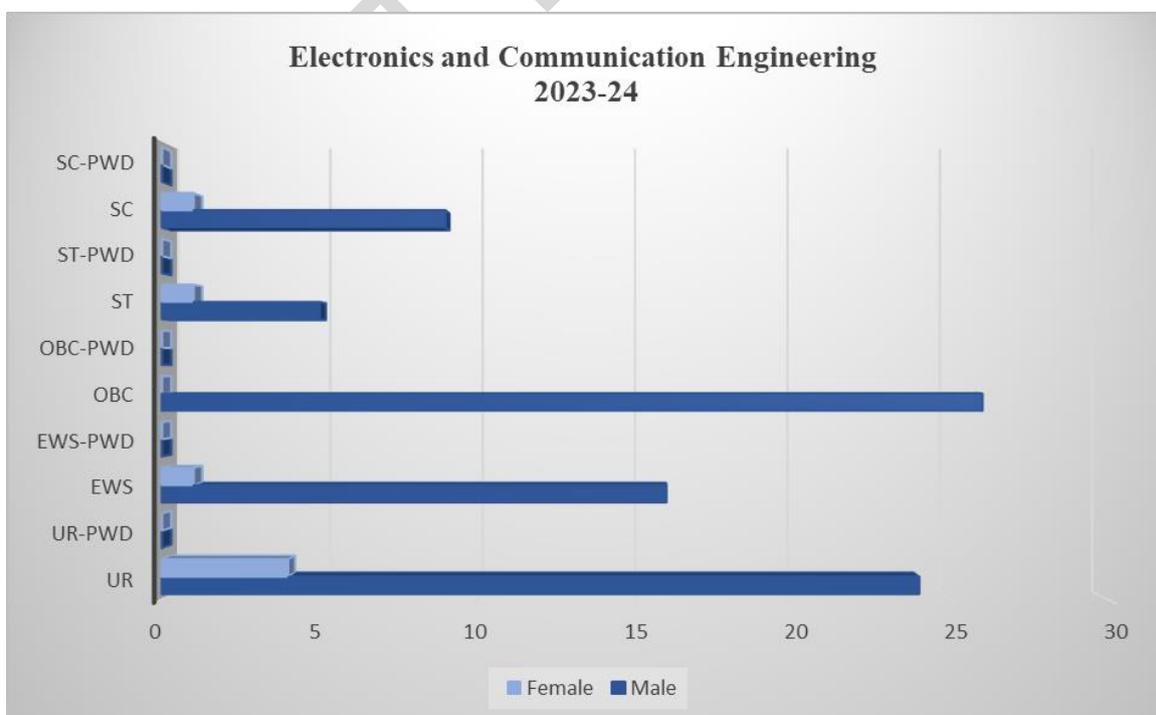
Year	B. Tech	Gen		Gen-EWS		OBC		SC		ST		Total
		M	F	M	F	M	F	M	F	M	F	
2023	CSE	39	1	32	0	43	0	22	1	10	1	149
	ECE	24	4	16	1	26	0	9	1	5	1	87
	IT	38	3	22	0	32	2	17	1	6	1	122
2022	CSE	29	0	8	0	18	2	11	0	4	0	72
	ECE	28	2	7	1	19	0	10	1	4	0	72
	IT	29	1	7	0	20	1	10	1	6	0	75
2021	CSE	26	1	7	1	21	0	10	1	5	1	73
	ECE	17	5	8	0	17	3	8	0	5	0	63
	IT	22	3	5	2	20	0	9	1	3	3	68
2020	CSE	27	2	7	0	19	0	10	0	3	1	69
	ECE	18	1	4	1	16	0	9	0	4	0	53
	IT	27	2	6	1	20	0	9	1	4	0	70
2019	CSE	24	5	3	0	17	1	7	1	4	0	62
	ECE	25	0	2	0	17	0	6	0	4	0	54
	IT	21	6	3	0	15	1	5	2	1	0	54

Current Academic year Enrolled Data (Category-Wise)

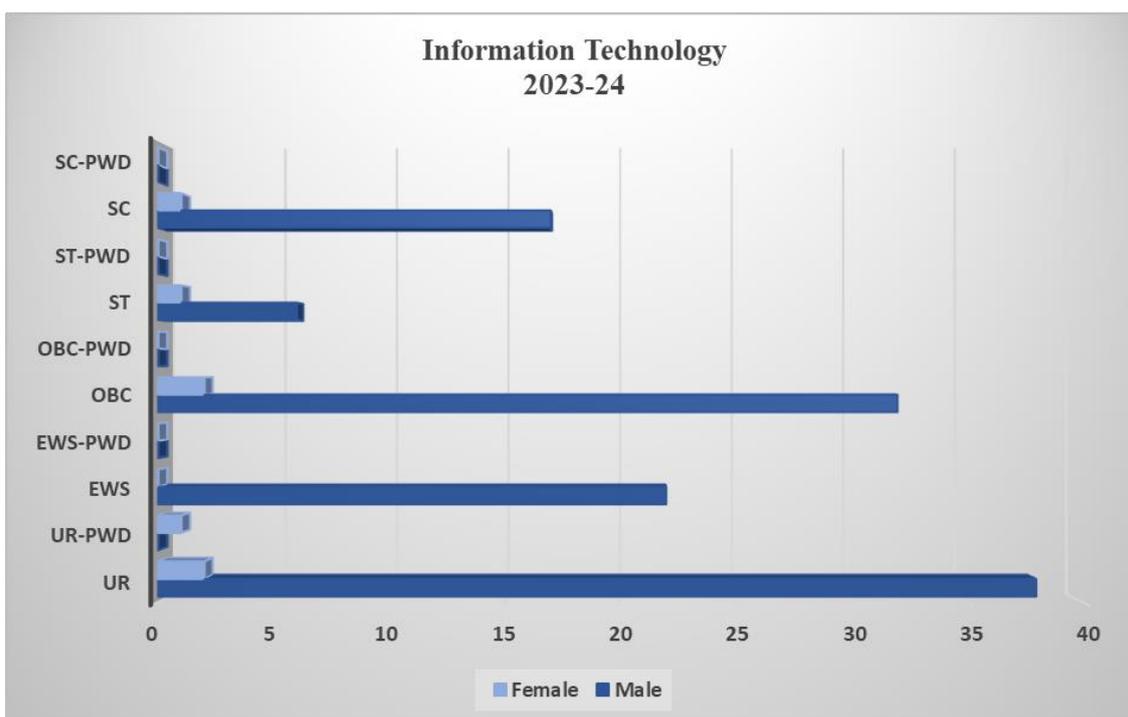
B. Tech (CSE): Total Students: 149 (Males: 146, Females: 03)



B. Tech (ECE): Total Students: 87 (Males: 80, Females: 07)



B. Tech (IT): Total Students: 122 (Males: 115, Females: 07)



5.4 Academic Calendar

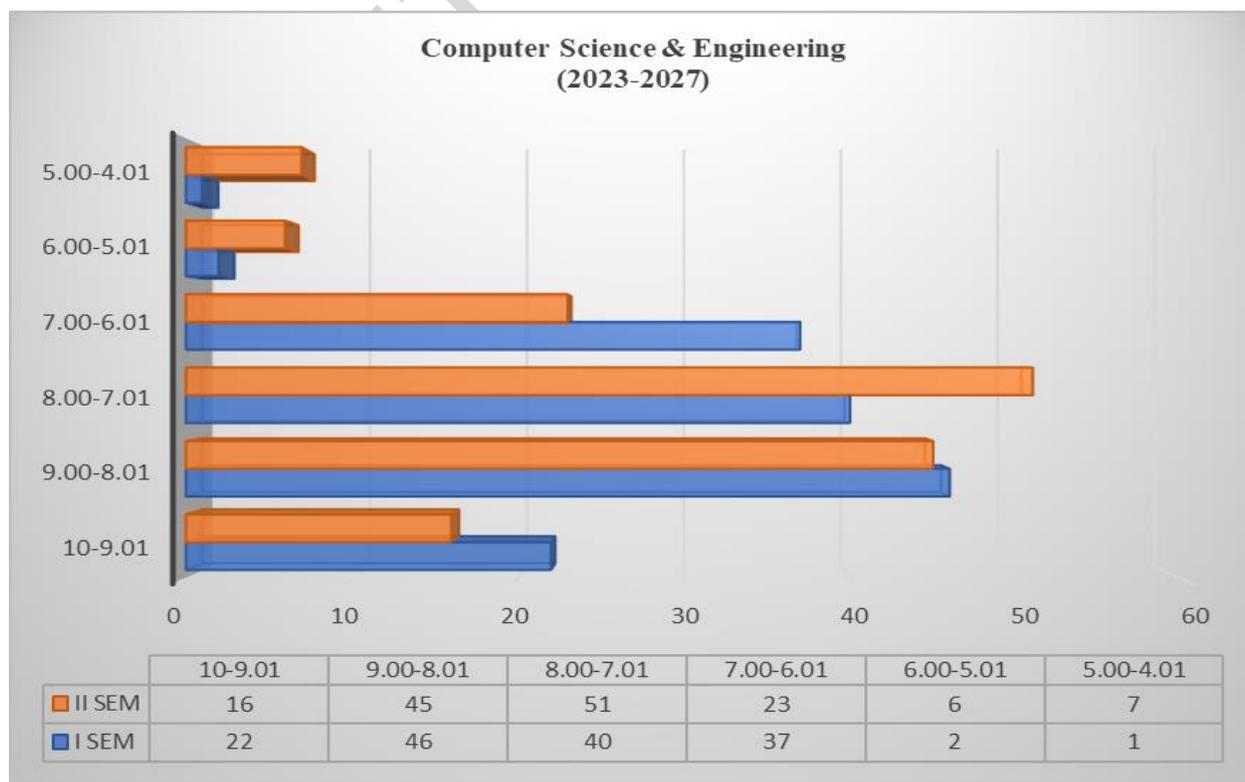
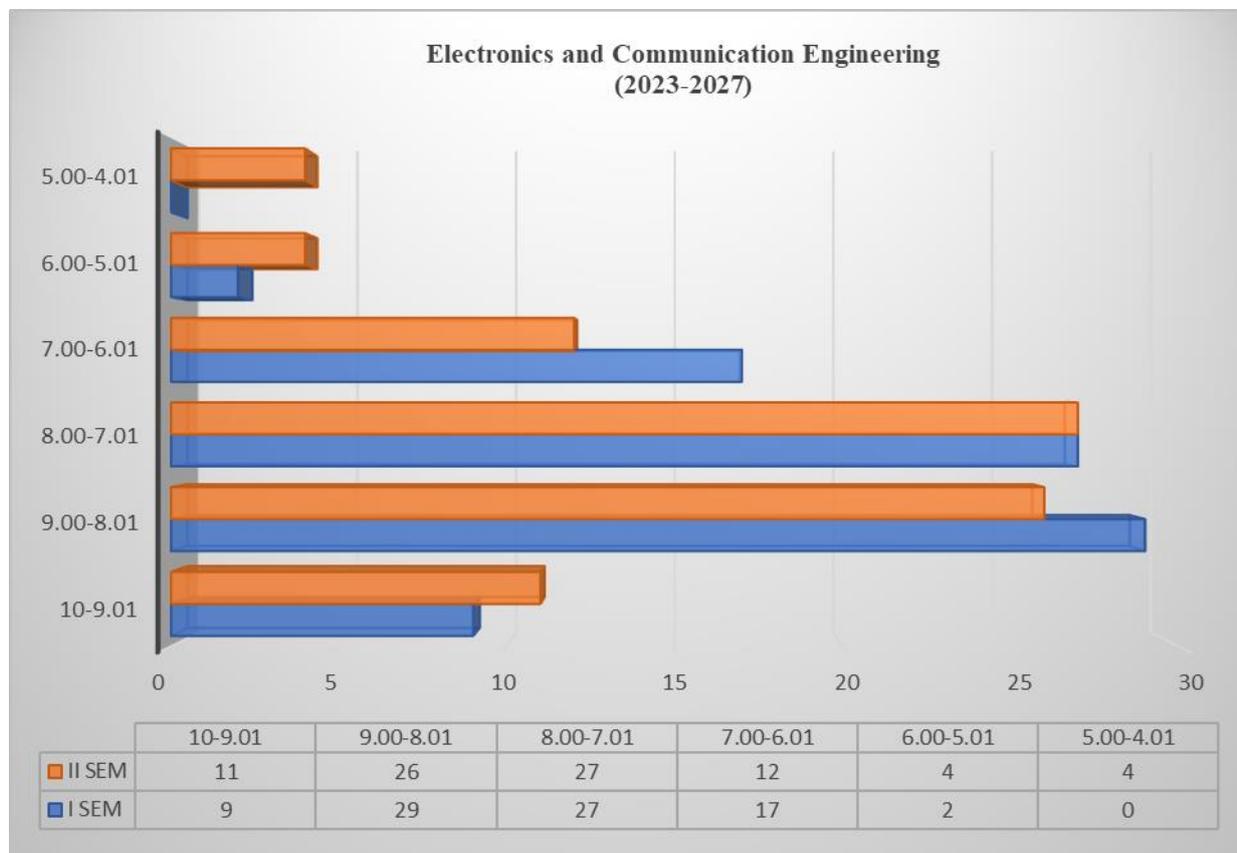
The academic calendar is proposed and designed by a specially formed committee and approved by the Senate. The IIIT Bhopal academic calendar is crafted by incorporating inputs from the mentor institute's academic calendar and adhering to the Ministry of Education guidelines. It also allocates time for various technical and cultural events. For accurate information, the academic calendar is published on the website and regularly updated.

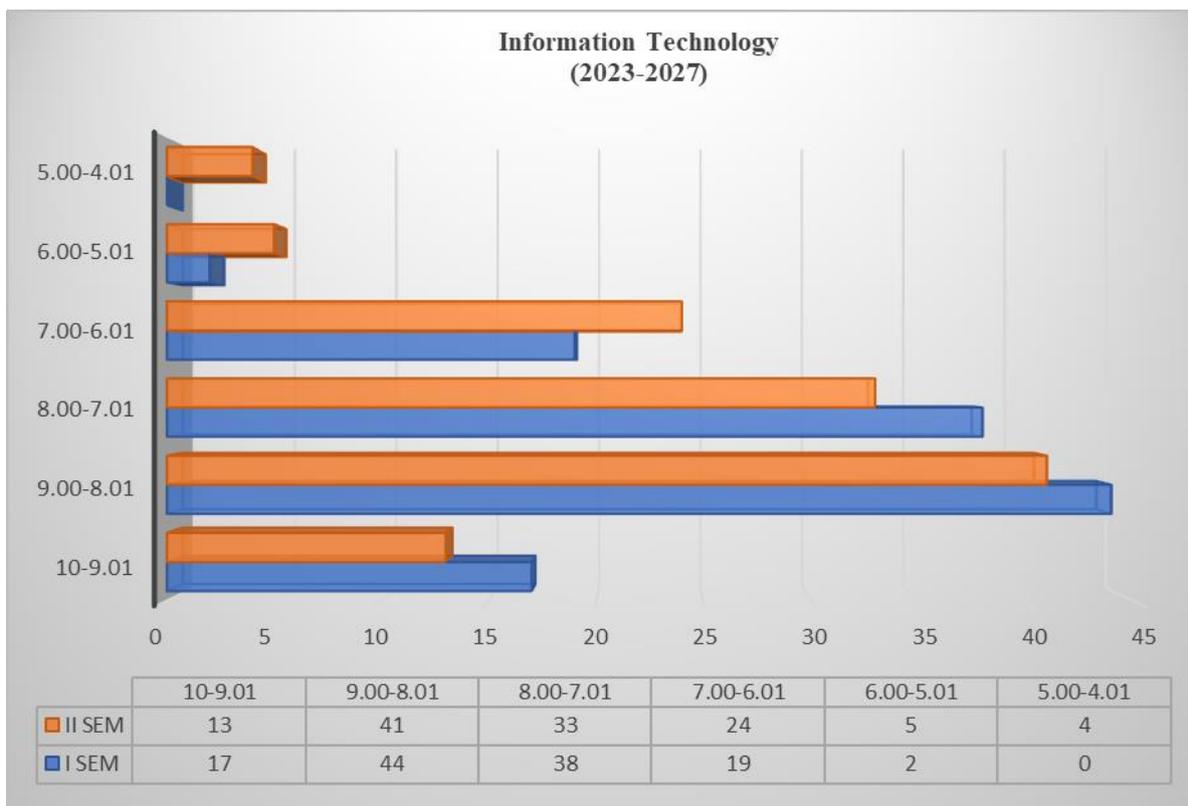
Link for institute's academic calendar: <https://iiitbhopal.ac.in/#!/M0002/SM0030/>

6. Results Analysis

Students admitted in 2023

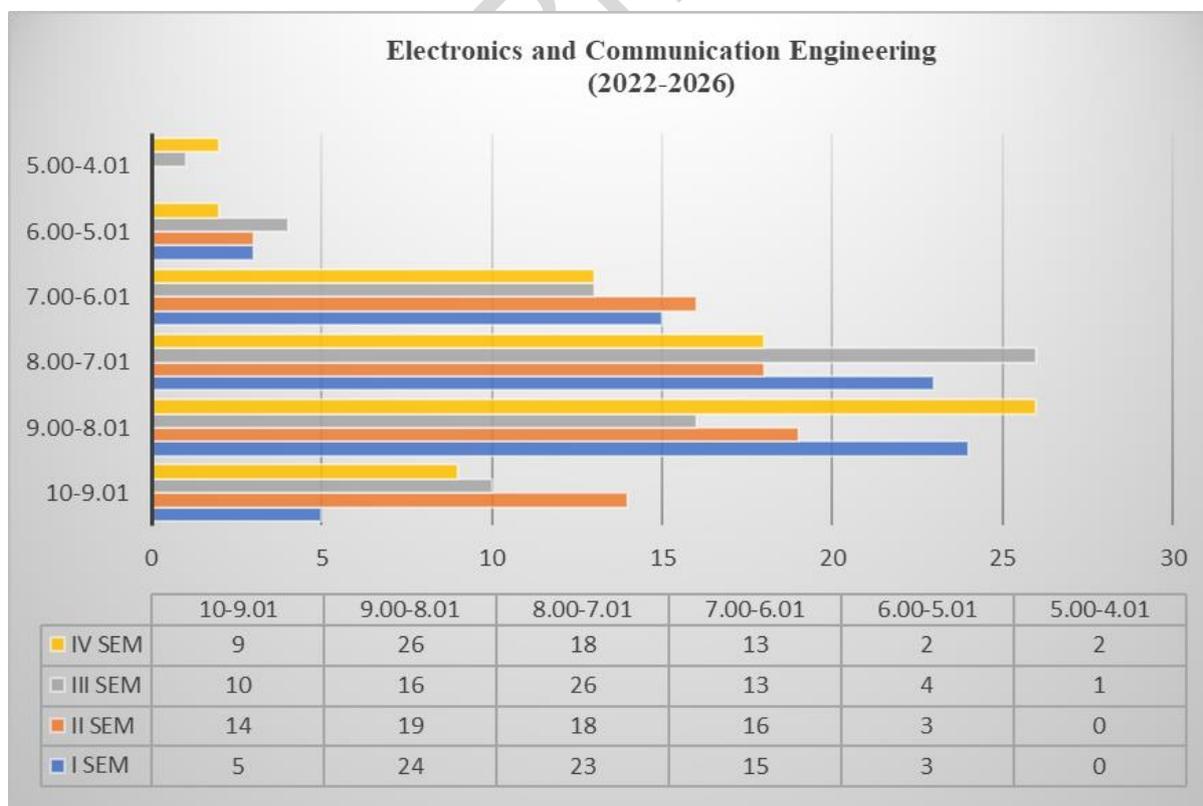
Batch 2023-2027

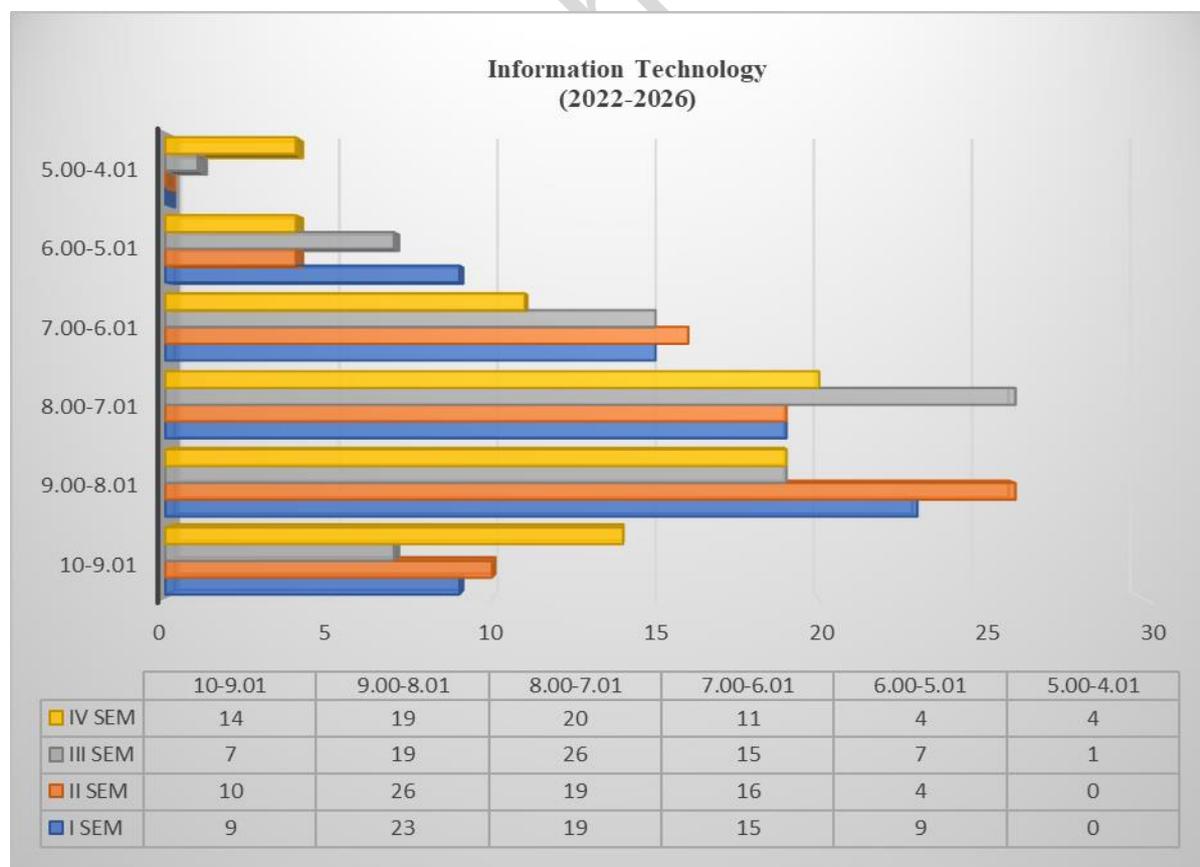
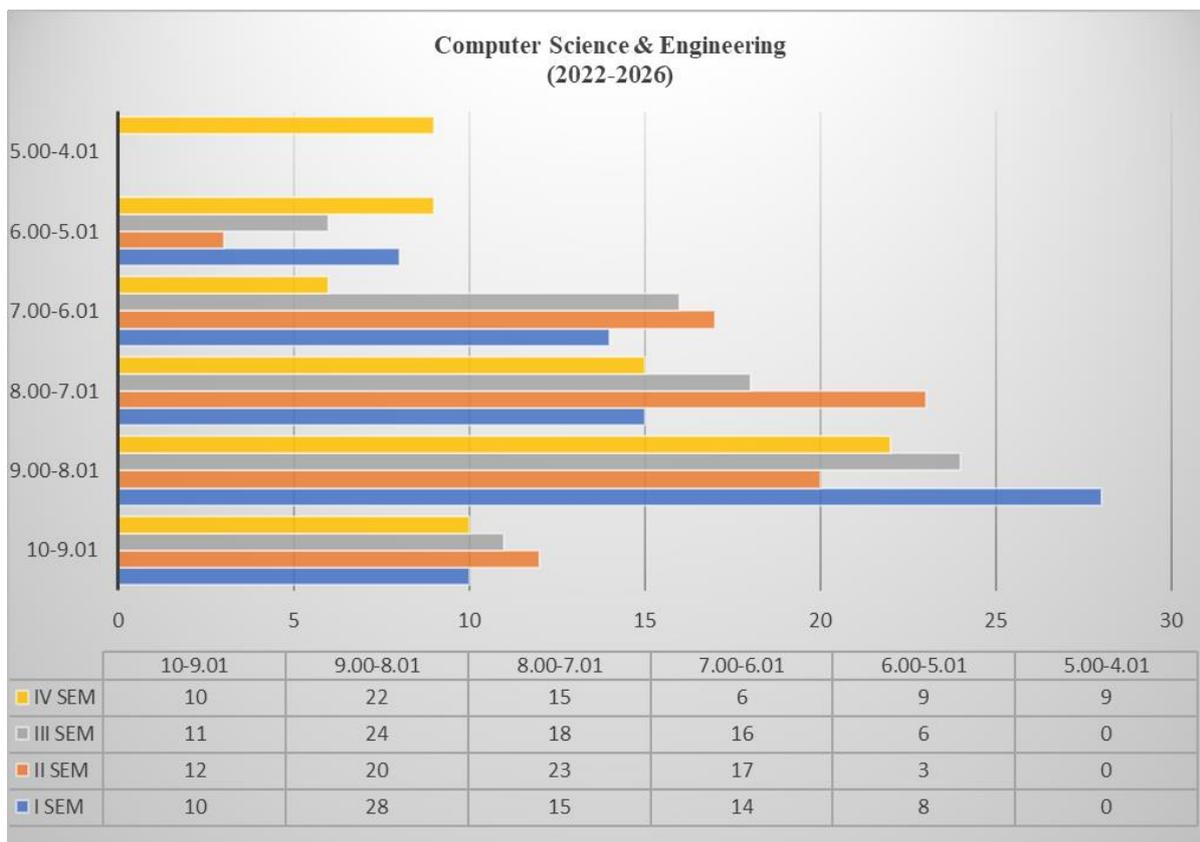




Students admitted in 2022

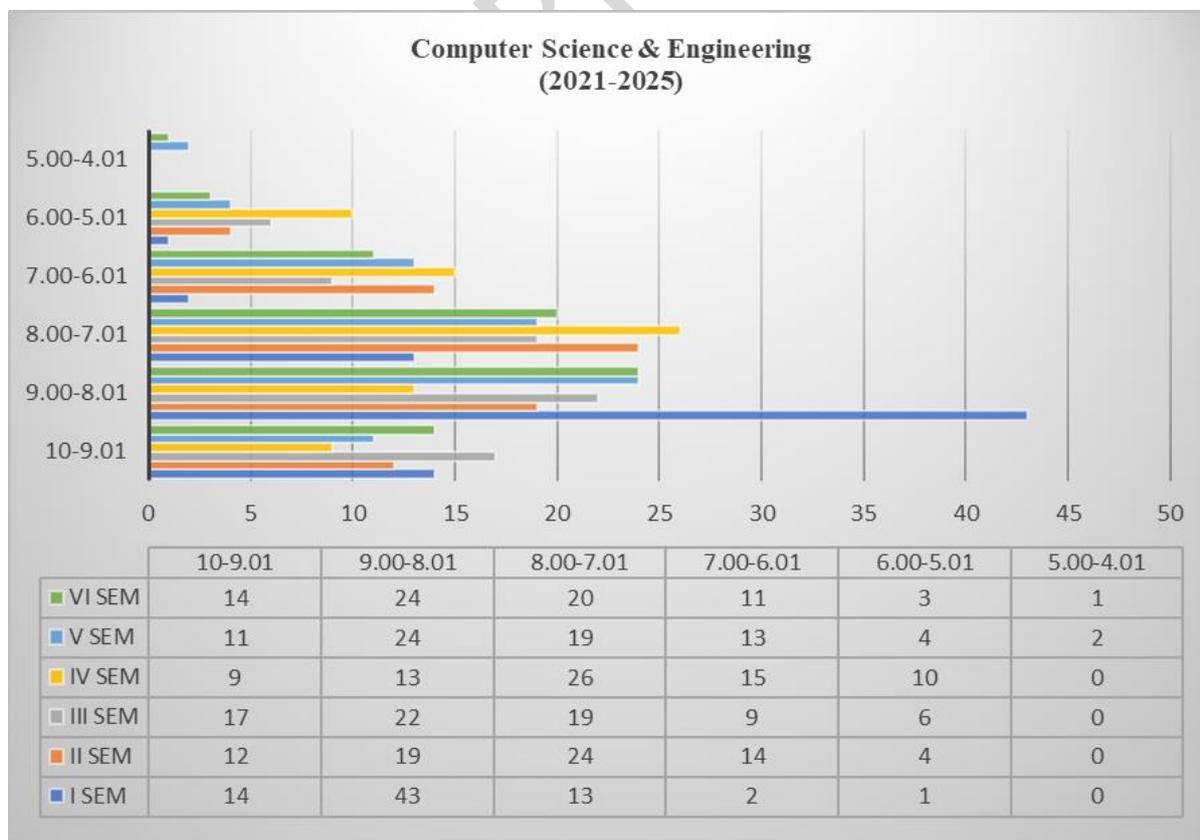
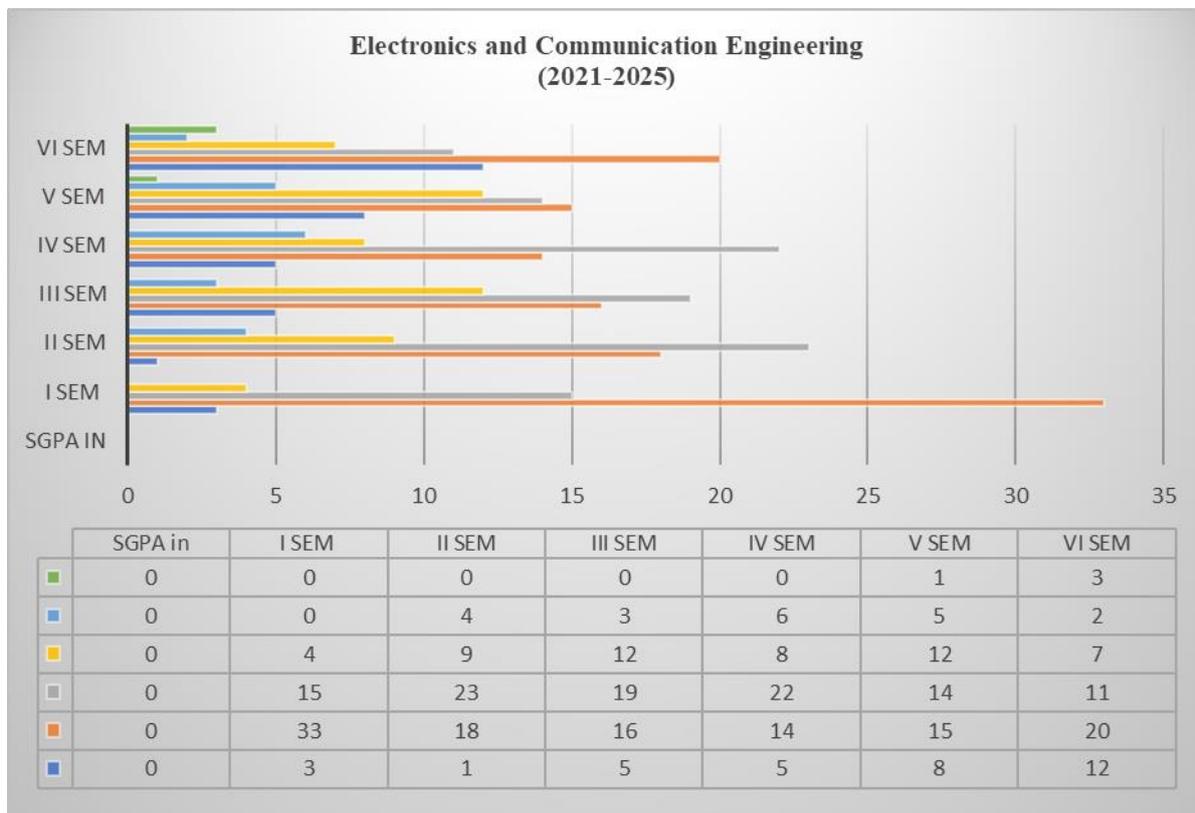
Batch 2022-2026

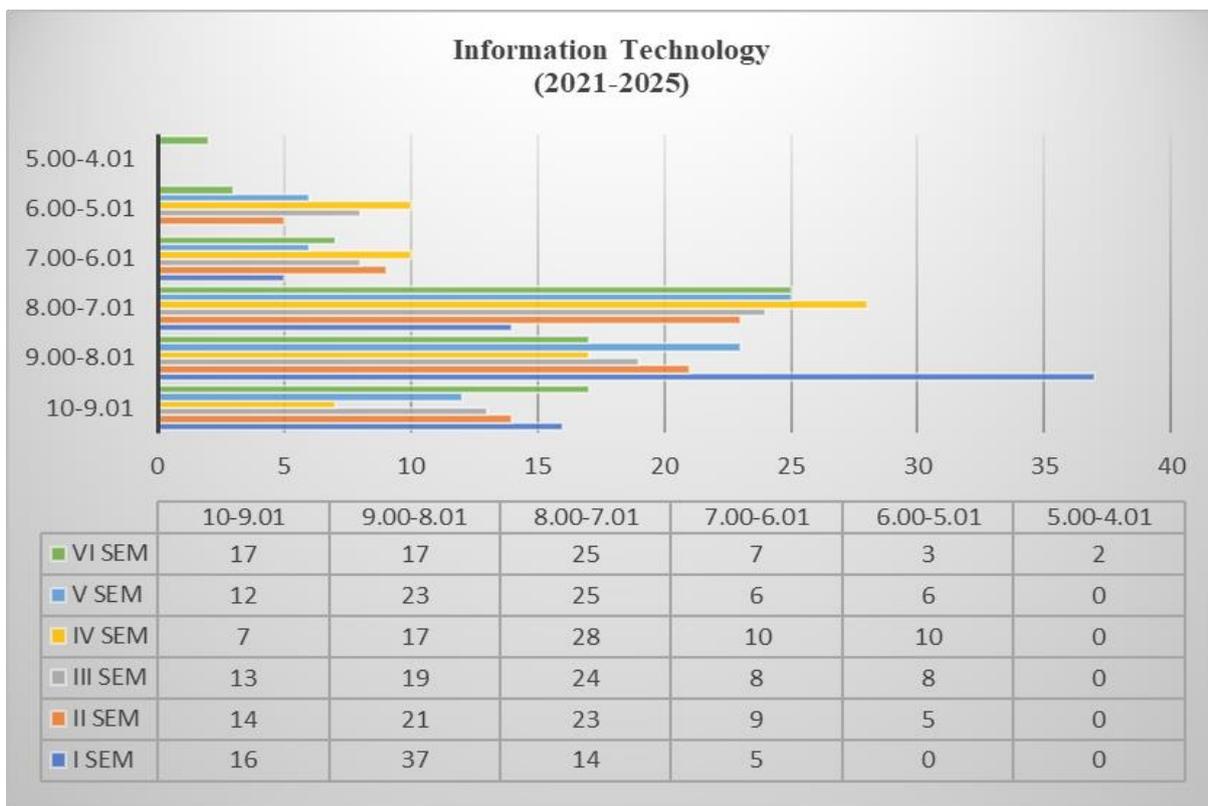




Students admitted in 2021

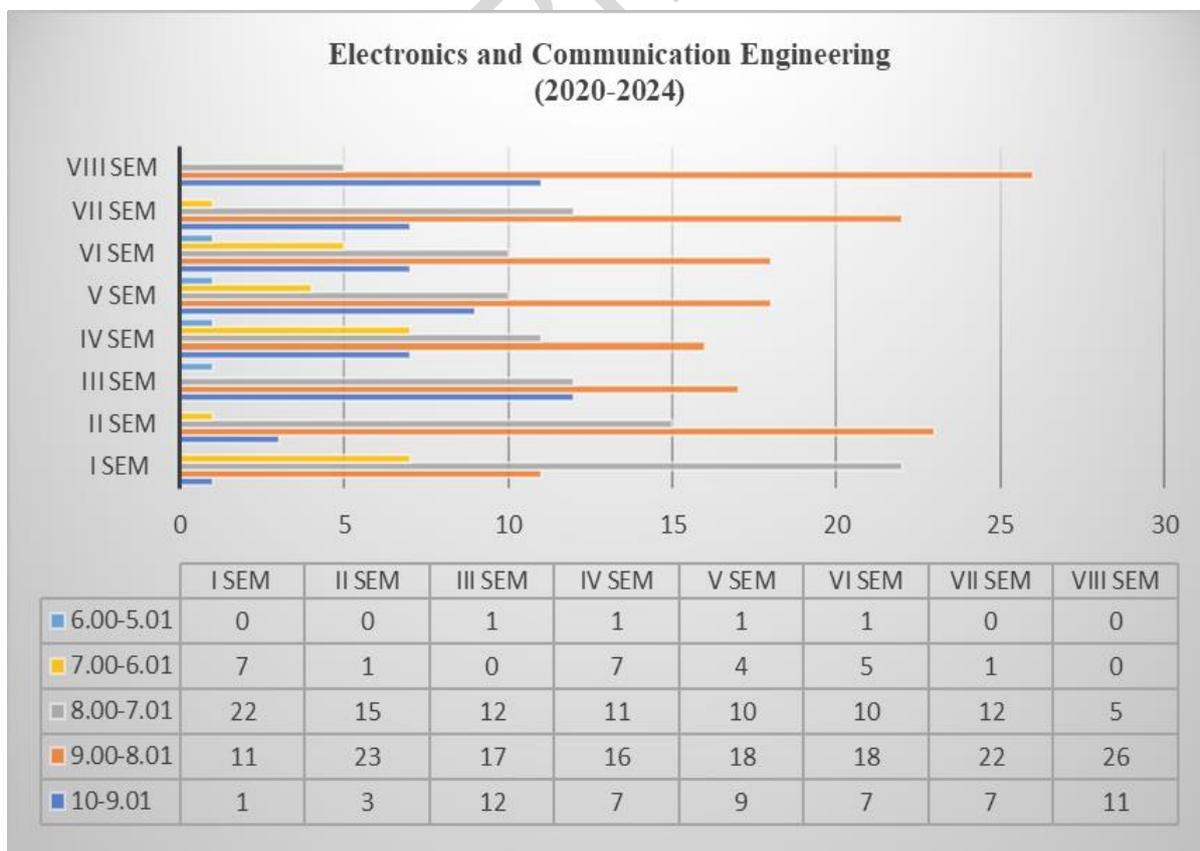
Batch 2021-2025

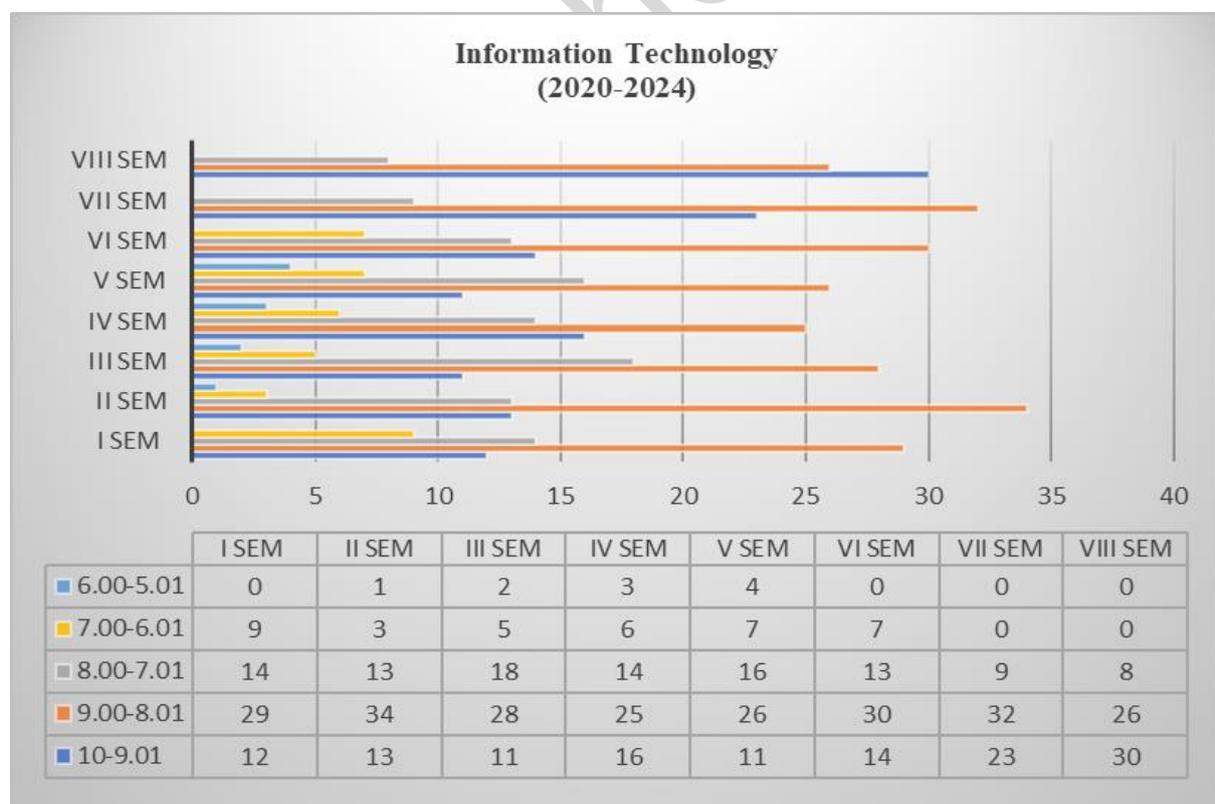
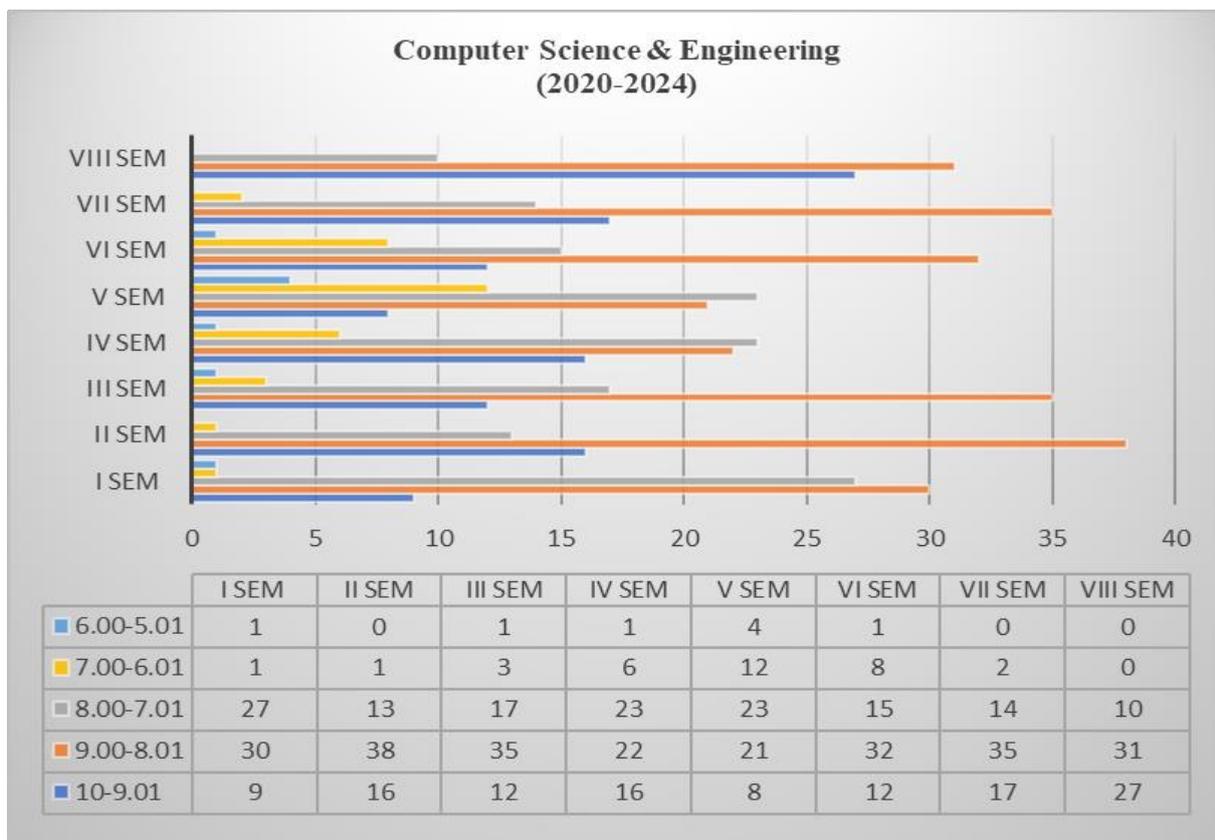




Students admitted in 2020

Batch 2020-2024





7. Second Convocation (24th January 2024)

The Second convocation of IIIT Bhopal was held on January 24, 2024. Degrees were conferred upon the 2019-2023 batch to 155 Students. The Chief Guest for the occasion was Prof. Anand Mohan. He is highly accomplished academician marked by expertise in teaching, research, administration and leadership in higher educational institutes. Prof. Mohan has provided national-level leadership in defence related R&D activities chairing the Armament Sensors and Electronics Panel under ARMREB, DRDO, Ministry of Defence, Government of India. His doctoral research resulted in a technology for the “Neutron Detection Reader” system for defence applications. The chairperson for the occasion was Prof. K. Sanjay Murthy, Chairperson Board of Governors and Secretary Ministry of Education, Government of India.

The summary of graduates conferred with Degrees on this occasion is as under

Batch 2019-2023	
Branch	Number of Graduates
Electronics and Communication Engineering	43
Computer Science & Engineering	58
Information Technology	54

Overall Institute Topper



ISHIKA SINHA
GGPA: 9.82
Computer Science & Engineering

Gold Medal Recipients



ISHIKA SINHA
GGPA: 9.82
Computer Science &
Engineering



ARJUN SHARMA
GGPA: 9.67
Information Technology



**THIRUNAHARI SRIRAM
SUDHARSHAN**
GGPA 9.06
Electronics & Communication
Engineering

Silver Medal Recipients



TANMAY CHAUHAN
GGPA: 9.71
Computer Science &
Engineering



PRAJJWAL CHAUBEY
GGPA: 9.49
Information Technology



ADITYA PALIWAL
GGPA: 8.98
Electronics & Communication
Engineering

8. Human Resources

8.1 Faculty Details

Department of Computer Science and Engineering



Dr. Arpita Bhargava

Assistant professor
Ph.D. (IIIT Allahabad)

arpitabhargava@iiitbhopal.ac.in

Research Interest:

Trust and Recommendation System, Vehicular Ad-hoc Networks, IoT, Deep Learning, Computer Vision



Dr. Gagan Vishwakarma

Assistant professor
Ph.D. (MANIT, Bhopal)

gagan@iiitbhopal.ac.in

Research Interest:

Computer vision, deep learning, and content-based video classification



Dr. Saurabh Jain

Assistant professor
Ph.D. (NIT, Raipur)

saurabhjain@iiitbhopal.ac.in

Research Interest:

Robotics, Cloud Robotics, Cloud Computing, Information Security



Dr. Sonal Telang Chandel

Assistant professor
Ph.D. (MANIT, Bhopal)

sonalchandel@iiitbhopal.ac.in

Research Interest:

Wireless Sensor Networks, Internet of Things, and Computer Networks



Dr. Yatendra Sahu

Assistant professor
Ph.D. (MANIT, Bhopal)

yatendra.sahu@iiitbhopal.ac.in

Research Interest:

Natural Language Processing, Machine Learning, Web Technology and Cloud Computing.

Department of Information Technology



Dr. Dharmendra Dangi

Assistant professor
Ph.D. (MANIT, Bhopal)

dharmendradangi@iiitbhopal.ac.in

Research Interest:

Natural Language Processing,
Machine Learning, Web
Technology and Cloud
Computing



Dr. Rekha Kaushik

Assistant professor
Ph.D. (MANIT, Bhopal)
Post Doc (MANIT), PDFWM,
UGC

rekhakaushik@iiitbhopal.ac.in

Research Interest:

Mobile Ad-hoc Networks,
Machine Learning, IoT



Dr. Shalini Stalin

Assistant professor
Ph.D. (AISECT, Bhopal)

shalini.stalin@iiitbhopal.co.in

Research Interest:

Image processing, Image
Compression and Data
Mining.



Dr. Vishakha Chaurasia

Assistant professor
Ph.D. (NIT, Raipur)

vishakhachourasia@iiitbhopal.co.in

Research Interest:

Opportunistic Networks, Delay
Tolerant Networks, Artificial
Intelligence, Machine
Learning, Wireless Sensor
Networks

Department of Electronics and Communication Engineering



Dr. Afreen Khurshed

Assistant professor
Ph.D. (MANIT, Bhopal)
afreenkhurshed@iiitbhopal.ac.in

Research Interest:

Nanoelectronics and
Nanomaterials, Low power
VLSI device modelling



Dr. Bhupendra Singh Kirar

Assistant professor
Ph.D. (MANIT, Bhopal)
bhupendrasinghkirar@iiitbhopal.ac.in

Research Interest:

Signal and Image Processing,
Signal Decomposition
Techniques, Computer Aided
Medical Diagnosis, Machine
Learning



Dr. Deepa Sharma

Assistant professor
Ph.D. (MANIT, Bhopal)
sharma.deepa@iiitbhopal.ac.in

Research Interest:

Image Processing



Dr. Gaurav Kumar Bharti

Assistant professor
Ph.D. (NIT, Tripura)
Post Doc (IIT Guwahati)
gkbharti@iiitbhopal.ac.in

Research Interest:

Cyber Physical System,
Quantum Computing, Photonics,
Nonlinear Optics, Optical
Sensors.



Dr. Neeraj Kumar

Assistant professor
Ph.D. (IIT Dhanbad)
kumarneeraj@iiitbhopal.ac.in

Research Interest:

Signal Processing, Music Signal
Processing, Biomedical Signal
Processing, Wavelet Transform
and Machine learning



Dr. Prince Kumar Singh

Assistant professor
Ph.D. (IIT BHU)
psingh@iiitbhopal.ac.in

Research Interest:

Modelling, Simulation, and
Fabrication of advanced
CMOS device

Department of Physics



Dr. Nikita Acharya
Assistant professor
Ph.D. (Barkatullah University, Bhopal)
nikita@iiitbhopal.ac.in

Research Interest:
Condensed Matter Physics



Dr. Anjani Kumar
Assistant professor
HBTI Kanpur
anjanikumar@iiitbhopal.ac.in

Research area:
Experimental Condensed Matter Physics, Materials Science, Technologically important Engineering materials, Nano Materials, Thin Films and Nanotechnology, Defects & light induced defects, Material Characterization

Department of Mathematics



Dr. Nisha Singhal
Assistant Professor
Assistant professor
nisha@iiitbhopal.ac.in

Research Interest:
Applied Mathematics (Soft Set Theory, Hybrid Structures of Soft Sets, MCDM), Fuzzy Algorithms and Fuzzy Modelling, Applications of AI



Dr. Indira Mishra
Assistant Professor
Assistant professor
indira@iiitbhopal.ac.in

Research Interest:
Homogenization Optimal Controls, Elliptic Partial Differential Equations, almost periodic solutions, almost automorphic solutions

Adjunct Faculty Members



Prof. XIAOQING WEN

Department of Computer Science and Networks, Kyushu Institute of Technology, Japan

wen@csn.kyutech.ac.jp



Dr. Gurdeep S. Hura

Professor, University of Maryland Eastern Shore (UMES), Princess Anne, USA



Prof. ATHANASIOS VASILAKOS

Distinguished Professor at University of Agder (UiA), Center for AI Research, Norway

athanasios.vasilakos@ltu.se,
th.vasilakos@gmail.com



Prof. Chung-Nan Lee

Department of Computer Science & Engineering, National Sun-Yat-Sen University, Kaohsiung, Taiwan

cnlee@mail.cse.nsysu.edu.tw



Dr. Sie Teng Soh

Associate Professor, Discipline of Computing, School of EECMS, Curtin University, Bentley, Western Australia

S.Soh@curtin.edu.au



Prof. Dr. Volker Lindenstruth

Professor, Goethe University, Frankfurt

Visiting Faculty Members at IIIT Bhopal

1. **Dr. Pushendra Kumar**, Dept. of Applied Mathematics, MANIT Bhopal
2. **Dr. Dheerendra Mishra**, Dept. of Applied Mathematics, MANIT Bhopal
3. **Dr. Jaytrilok Chaudhary**, Dept. of CSE, MANIT Bhopal
4. **Dr. Ashish Kumar Sahu**, Dept. of CSE, MANIT Bhopal
5. **Dr. Vijay Bhaskar Semwal**, Dept. of CSE, MANIT Bhopal
6. **Dr. Manish Kashyup**, Dept. of ECE, MANIT Bhopal

7. **Dr. Amit Bhagat**, Dept. of Mathematics & Computer Applications, MANIT Bhopal
8. **Dr. Pushpender Yadav**, Dept. of Humanities & Social, MANIT Bhopal
9. **Dr. Amit Telang**, Dept. of ME, MANIT Bhopal
10. **Dr. Emon Barua**, Dept. of ME, MANIT Bhopal
11. **Dr. Deepak Kumar**, Dept. of ME, MANIT Bhopal
12. **Dr. Deepak Kumar**, Dept. of Humanities & Social, MANIT Bhopal
13. **Dr. Anjali Dhengle**, Dept. of Humanities & Social, MANIT Bhopal

8.2 Non-Teaching Staff

1. **Mr. Abhijeet Sharma**, Assistant Registrar (Academics)
2. **CS Arun Thapar**, Assistant Registrar (Finance & Accounts)
3. **Mr. Varun Yadav**, Assistant Registrar (Student Welfare)
4. **Mr. Abhishek Goel**, Assistant Registrar (Establishment)
5. **Ms. Monika Patidar**, Superintendent (Academics)
6. **Mrs. Aayushi Vijayvargia**, Superintendent (Administration)
7. **Mrs. Shreeya Bhatt**, Superintendent (Finance & Accounts)
8. **Mr. Haridas Suresh Rao Susane**, Lab Assistant (ECE)
9. **Mr. Ashok Gugulothu**, Lab Assistant (CSE)
10. **Mr. Shambhu Singh Tanwar**, Accounts Assistant
11. **Mr. Manmohan Rajak**, Stores & Purchase Assistant
12. **Ms. Hiteshree Katdare**, Computer Operator

9. Training and Placement

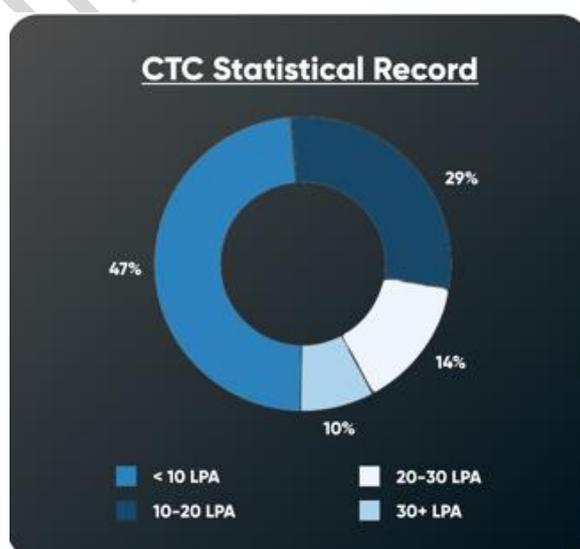
IIIT Bhopal boasts a dynamic Training and Placement Cell, dedicated to fostering training and placement opportunities for its students. This vibrant cell comprises committed training and placement officers, faculty coordinators, and student coordinators.

IIIT Bhopal is dedicated to preparing students for leading companies and organizations. Various activities are conducted to enhance the skills of IIIT students, aiding in their confidence building and skill improvement.

The placement process for the graduating batch of 2024 (B.Tech) at IIIT Bhopal concluded successfully in June 2024, achieving an 60% placement rate. Conducted online, the process attracted companies from across India. Out of 161 eligible and registered students, the highest on-campus package reached 34.4 LPA and an average package of 12.23 LPA .

Highlights :

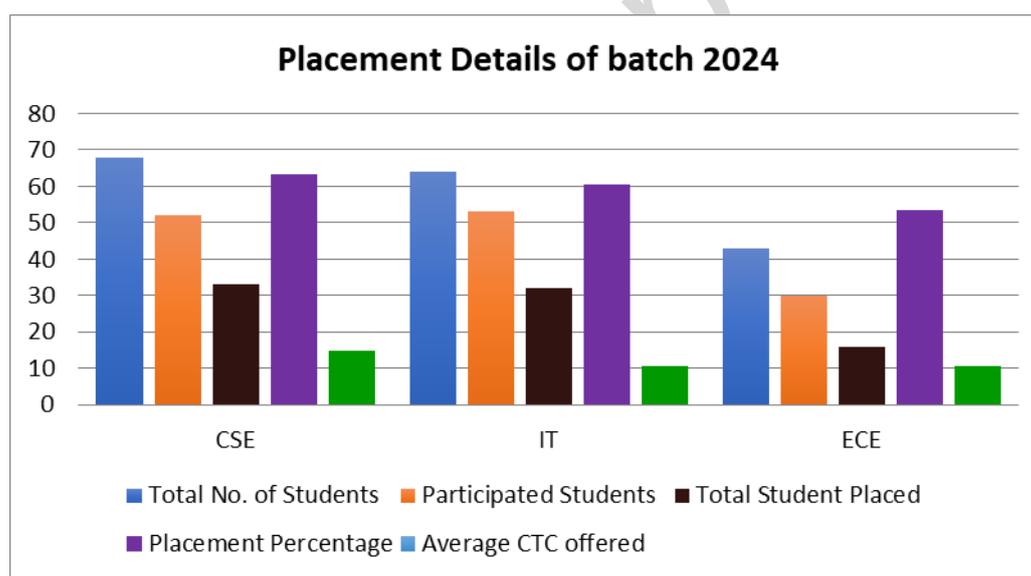
- Highest package offered by Paypal (34.4lpa) to 4 students.
- Highest package in IT offered is 27lpa by Juspay.
- Highest package in ECE offered is 28lpa by Nvidia.
- Average Package offered to students 12.23LPA.
- 13 students got summer internships in companies like Microsoft, Amazon, paypal , coinbase , Atassian, Appointy.



Batch- 2024 Placement Summary

Branch	Total Students Registered	Total Students Participated (Approx.)	Total Student Placed	% Placement	Average CTC (LPA)	Male	Female
Electronics & Communication Engineering	0F +40M = 40	30	16	53.33%	10.53	16	00
Computer Science & Engineering	4F+60M = 64	53	33	63.46%	14.70	29	04
Information Technology	0F+55M = 55	52	32	60.37%	10.53	32	00
Total	163	135	81	60.0%	12.23	77	04

The graph given below shows the placement details of Batch 2024.

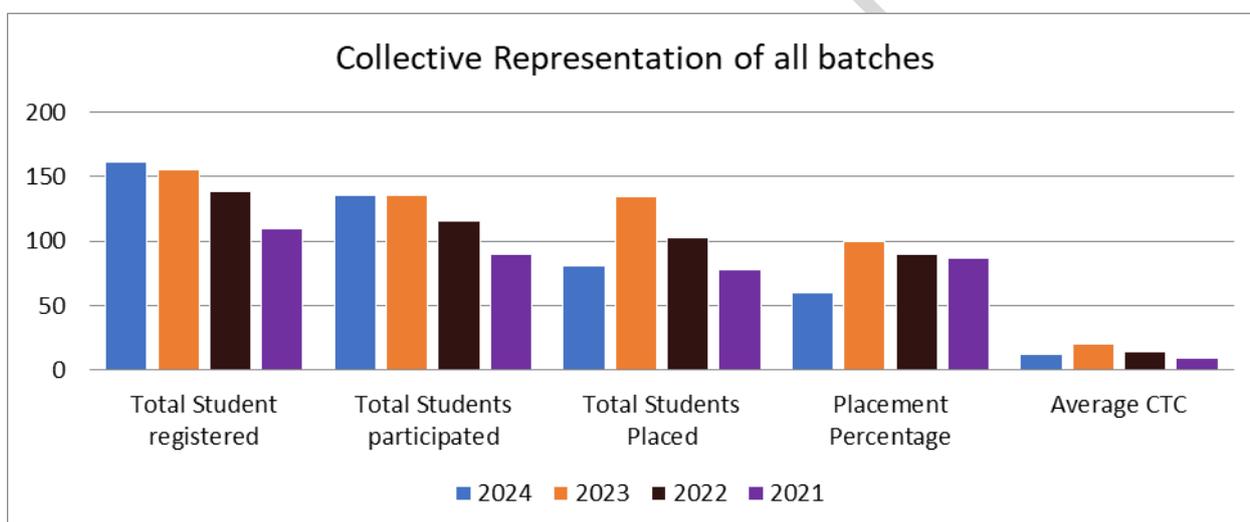


Internship Details:

Branch	Total Internship offered
ECE	23
CSE	43
IT	39
Total	105

Batch- Wise Placement Summary

Batch	Total Registered Students	Total Students Participated	Total Students Placed	% Placement	Av. CTC in (LPA)
2024(Current)	161	135	81	60.0	12.23
2023	155	135	134	99.2	20.51
2022	138	115	103	89.5	14.5
2021	110	90	78	86.6	9.26



10. Research Outcome

Publication:

1. Singh, Nikhil Kumar, Deepak Singh Tomar, Mohammad Shabaz, Ismail Keshta, Mukesh Soni, Divya Rishi Sahu, Manisha Bhende, Amit Kumar Nandanwar, and Gagan Vishwakarma. "Self- Attention Mechanism Based Federated Learning Model for Cross Context Recommendation System." *IEEE Transactions on Consumer Electronics* (2023)
2. K Bansal, R K Chaurasiya, V Chourasia (2023, June). "Solving the Trade-off between Power and Delay in High Speed Circuits using Multi Objective PSO". 2023 Int. Conf. On Sustainable Computing and Smart Systems (ICSCSS), pp. 1139-1144. IEEE, 2023.
3. Kumar, Anjani, S. Shukla, S. Kumar, and Rajeev Gupta. "Estimation of linear optical parameters in Ge₂₅S_{75-x}Sb_x (x= 0, 10) chalcogenides for recent optical applications." In *AIP Conference Proceedings*, vol. 2995, no. 1. AIP Publishing, 2024.
4. Bharti, Gaurav Kumar. "Modelling and Numerical Investigation of Graphene Assisted SIW Patch Antenna for Different Applications in X-band." In *2023 3rd Asian Conference on Innovation in Technology (ASIANCON)*, pp. 1-3. IEEE, 2023.
5. Rathore, Devansh, and Nisha Singhal. "Web Design Dilemma: A Comprehensive Guide to Adaptive and Responsive Design." In *2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp. 1-5. IEEE, 2024.
6. Chourasia, Vishakha, Satvik Tejas, and Vishal Khekade. "Road Flaw Detection using CNN and Transfer Learning Techniques." In *2023 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI)*, pp. 1-7. IEEE, 2023.
7. Verma, Ajay, and Nisha Singhal. "Integrating Artificial Intelligence for Adaptive Decision- Making in Complex System." In *International Conference on Advances in Data-driven Computing and Intelligent Systems*, pp. 95-105. Singapore: Springer Nature Singapore, 2023.
8. Rawlley, Oshin, Yatendra Sahu, Rajeev Kumar Gupta, Amit Kumar Mishra, Ramakant Bhardwaj, and Satyendra Narayan. "A Computational Approach for Regulation of Biomedical Waste Expulsion in a Novel Coronavirus Pandemic." In *Mathematical and Computational Modelling of Covid-19 Transmission*, pp. 65-81. River Publishers, 2023.
9. Kunhare, Nilesh, Rajeev Kumar Gupta, and Yatendra Sahu. "Role of Artificial Intelligence in the Agricultural System." *Innovative Engineering with AI Applications* (2023): 227-241.
10. Khursheed, Afreen, and Kavita Khare. "Designing of Energy-Efficient XOR Gate Implementing DWM Spintronics." In *Emerging Electronic Devices, Circuits and Systems: Select Proceedings of EEDCS Workshop Held in Conjunction with ISDCS 2022*, pp. 61-73. Singapore: Springer Nature Singapore, 2023.

11. Vishwakarma, Gagan, Amit Kumar Nandanwar, and Ghanshyam Singh Thakur. "Optimized vision transformer encoder with cnn for automatic psoriasis disease detection." *Multimedia Tools and Applications* 83, no. 21 (2024): 59597-59616.
12. Vishwakarma, Gagan, Amit Kumar Nandanwar, and Ghanshyam Singh Thakur. "Parkinson's disease Severity Detection Based on Fused features with tuned Residual Deep Convolutional Neural Network." *Multimedia Tools and Applications* (2024): 1-21.
13. Khursheed, Afreen, Kavita Khare, and Fozia Z. Haque. "Automation of optimal metal density filling for deep sub micron technology designs." *Materials Today: Proceedings* 74 (2023): 207-212.
13. Khursheed, Afreen, and Kavita Khare. "Optimized buffer insertion using PSO technique for efficient interconnect designs." In *AIP Conference Proceedings*, vol. 2745, no. 1. AIP Publishing, 2023.
14. Pawar, Harsha, Nikita Acharya, Mani Shugani, Mahendra Aynyas, and Sankar P. Sanyal. "Thermoelectric response of CsGeCl₃ perovskite halide compound: A potential material for device application." In *AIP Conference Proceedings*, vol. 2800, no. 1. AIP Publishing, 2023.
15. Kumar, Bittu, Neeraj Kumar, Manoj Kumar, S. V. S. Prasad, Ashwini Kumar Varma, and Banoth Ravi. "Comparative Studies of Single-Channel Speech Enhancement Techniques." *IETE Journal of Research* (2023): 1-17.
16. Yadav, Jay Kumar, S. K. Tripathy, Gaurav Kumar Bharti, and Neeraj Kumar. "Numerical investigation of novel 2D photonic structure for cancerous cell detection." *The European Physical Journal Plus* 139, no. 4 (2024): 308.
17. Sahu, Yatendra, Rajeev Kumar Gupta, and Santosh Bharti. "Combating Hate Speech on Q&A Forums with Machine Learning." In *2023 World Conference on Communication & Computing (WCONF)*, pp. 1-6. IEEE, 2023.
18. Brajvasi, Abhishek, and Bhupendra Singh Kirar. "Android Based Real-Time Picture-to-Audio Converter for the Visually Impaired." In *2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp. 1-6. IEEE, 2024.
19. Alamuri, Dheeraj, Bhupendra Singh Kirar, and Dheraj Kumar Agrawal. "Cardiovascular Health Prognosis: Machine Learning Approaches for Precise Heart Disease Prediction." In *2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp. 1-5. IEEE, 2024.
20. Dixit, Sambhav, Bhupendra Singh Kirar, and Dheraj Kumar Agrawal. "Performance Analysis of Deep Learning Models for Accurate Glaucoma Detection." In *2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp. 1-6. IEEE, 2024.
21. Sah, Parimal, Dheeraj Kumar, Yashaswini Pura Rangegowda, Animesh Srivastava, Bittu Kumar, Angela Amphawan, and Gaurav Kumar Bharti. "Integrated optical ring resonator based comb filter in silicon-on-

- insulator with through-to-add port feedback path showing larger free spectral range." *Journal of Nanophotonics* 18, no. 2 (2024): 026005-026005.
22. Kumar, Anjani, S. Shukla, R. K. Shukla, and Rajeev Gupta. "Evaluation of nonlinear optical parameters of Se₄₀As_{60-x}S_x (x= 10, 20) chalcogenide thin films for photonic applications." *Indian Journal of Physics* 97, no. 4 (2023): 1093-1099.
23. A. Rahangdale, V. Singh, H. Kumawat, Y. V. Gwaley, G. N. Nirala, G. K. Bharti, "Design and Modelling of Machine Learning Based Photonic Sensor For Different Disease Detection" 9th International Conference on Integrated Circuits, Design, and Verification (ICDV 2024), Hanoi,
24. A. Shankarpurkar, M. Meet, V. Chatterjee, M. Khairnar, G. K. Bharti, "Programmable Quantum Gates for Classical Computing Applications" 9th IEEE International Conference on Automatic Control and Intelligent Systems, Hotel & Suites,
25. P. Sah, Pushpalata, P. Mirajkar, M. Kumar, B. Neole, A. Srivastav, G. K. Bharti, "Compact Broadband Optical Filter with Perturbed Bragg Gratings in SOI Waveguide", *Optical Engineering* 2024
26. P. Sah, Pushpalata, P. Mirajkar, M. Kumar, B. Neole, A. Srivastav, G. K. Bharti, "Numerical Investigation and Analysis of a Compact Photonic Crystal Fiber with Negative Dispersion", *IEEE Transactions on Plasma Science* 2024.6.26
27. Prachi Singh, Nishita Singh, Rashi Kulshreshtha, Rekha Kaushik "Contamination Detection In Post Harvest Stored Grain Using Sensors: A Review", 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science
28. A Lidhoria, V Chourasia, "Automatic Email Spam Detection using Ensemble- based ML and Deep Learning Techniques", *IEEE 4th Int. Conf. on Data Engg. and Comm. systems -ICDECS-2024*, 23- 24 March, Bangalore, India.

Patent

1. **Patent granted at:** Controller General of Patents, Designs & Trade Marks, Govt. of India.
Patent application number: 406372-001
Title of invention: CHEWING ACTIVITY DETECTION BAND
Name of inventors: Aman Sharma, Rahul Kumar Chaurasiya, **Vishakha Chourasia**
2. **Patent granted at:** Designs & Trade Marks, Govt. of India.
Patent application number: 391531-001
Title of invention: Design Patent on "Cloth Dryer"
Name of inventors: Dr. Ajay Verma, Aditya Singh, **Dr. Nisha Singhal**, Viket Sourabh.

3. **Patent granted at:** REPUBLIC OF SOUTH AFRICA PATENTS ACT, No 57
- Patent application number:** 2022/03710
- Title of invention:** A PORTABLE CROP DISEASE DETECTION DEVICE.
- Name of inventors:** Priyank Jain, Afreen Khursheed, Hema Dubey

Consultancy:

1. **Title of project:** Design and development of a different smart sensor modules
- Author:** Dr. Gaurav Kumar Bharti
- Agency:** Robotronix India Pvt. Ltd

Sponsored Project:

1. **Title of Project:** Theoretical Investigation and Analysis of Different Architectures of Quantum Computing for Cyber Physical Systems
- Author (s):** Prof. Ashutosh Kumar Singh (PI), Dr. Gaurav Kumar Bharti (Co-PI)
- Agency:** M.P. Council of Science and Technology
- Duration:** 2023 two year
2. **Title of Project:** Design of FBG Assisted AI Based Planter Pressure Measuring Device for Clinical Applications.
- Author (s):** Dr. Gaurav Kumar Bharti, Dt. Ibrar Jahan MA
- Agency:** Lab2Market Scheme of IITI DRISHTI Cyber Physical System Foundation (under National Mission on Interdisciplinary Cyber Physical System, Department of Science and Technology, Government of India)
- Duration:** 2 years

11. Activities Organized

Institutional Activities

Partition Horrors Remembrance Day

Date: 14 August 2023

Activities- Slide show, Presentations, Speeches, Poetry Competition

On Partition Horrors Remembrance Day, an event at the New Teaching Block commemorated the tragic events of the 1947 partition of the Indian subcontinent. The gathering, marked by a welcome address from Dr. Ajay Shrivastava and Dr. Nisha Singhal, emphasized the importance of remembering this painful history to build a more inclusive future. A poetry competition highlighted participants' reflections on the suffering and resilience of that era, while thought-provoking speeches and documentaries provided historical context and stressed the need for unity and tolerance. The event featured musical performances resonating with the day's theme, and concluded with the national anthem, encouraging attendees to engage in discussions and promote a harmonious society.



77th Independence Day

Date: 15/08/2023

The 77th Independence Day celebration was filled with patriotic fervor and excitement as the nation united in pride. The event began with a powerful performance by IIIT's choir, whose classical melodies resonated through the amphitheater, fostering a sense of unity. A captivating dance performance showcased the nation's cultural diversity, blending traditional and contemporary styles. A thought-provoking drama highlighted key moments in the struggle for independence, evoking empathy and admiration. The celebration concluded with a poignant, self-composed poem that captured the essence of the day, leaving attendees inspired to contribute to the nation's growth and prosperity.



National Sports day

Date: 28 August 2023

On the occasion of National Sports Day, held annually on the birth anniversary of legendary field hockey player Major Dhyan Chand, a spirited football match took place between the teams of IIIT Bhopal and MANIT Bhopal. The match aimed to honour the remarkable sportsman while promoting sportsmanship and unity. Held at the MANIT Sports Complex, the event attracted enthusiastic students and sports fans from both colleges. The stadium buzzed with excitement as the teams showcased their skills, teamwork, and competitive spirit. The closely contested match was a display of impressive footwork, strategic play, and admirable sportsmanship, capturing the true essence of the game.

As the final whistle blew, the match stood as a tribute to Major Dhyan Chand and a celebration of sportsmanship and camaraderie. It brought together athletes and students, fostering a sense of pride and unity, and kept the spirit of Major Dhyan Chand's dedication to sports alive, inspiring future generations.



Industrial Meet

The Industrial Meet on September 5, 2023, at Hotel Palaash, was a distinguished event graced by prominent figures such as Shri Omprakash Sakhlecha, Minister of Science and Technology and Minister of Micro, Small, and Medium Enterprises of Madhya Pradesh (2020-2023), along with Dr. Ashutosh Kumar Singh, Director of IIIT Bhopal, Dr. Sunil Kumar, Vice Chancellor of RGPV, and Dr. K K Shukla, Director of MANIT. The gathering attracted CEOs, industrialists, and experts who engaged in insightful discussions on the impact of new technologies on youth, positioning the event as a pivotal forum for delving into the latest advancements in the industrial landscape.



Orientation Program

Date: 05 September 2023

The Institute Orientation Program welcomed new students with a series of informative and engaging activities. The program commenced with an inaugural address by the Director, highlighting the institute's vision and values. Faculty members introduced academic programs and campus facilities, ensuring students are well-informed about their new environment. Interactive sessions, including ice-breakers and team-building exercises, helped students forge connections with peers and faculty. Workshops on academic skills, time management, and mental health support equipped students for a successful academic journey. The program concluded with a campus tour, giving students a comprehensive overview of their new home. Overall, the orientation fostered a sense of community and prepared students for their academic and personal growth at the institute.





भारतीय सूचना प्रौद्योगिकी संस्थान भोपाल
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY BHOPAL
 (An Autonomous Institute Of National Importance under act of Parliament)

ORIENTATION PROGRAMME 2023
अभिमखी करण समारोह 2023
 Newly Admitted B.Tech Students
 are Cordially Invited
05th September 2023


Shri Omprakash Sakhlecha
 Hon'ble Minister
 MSME & Science & Technology
 Govt. of M.P.
 Chief Guest

 Prof. Ashulosh Kumar Singh Director IIIT Bhopal	 Prof. Sunil Kumar Vice Chancellor RGPV
 Prof. K K Shukla Director-MANIT	 Prof. C. C. Tripathi Director - NITTR, Bhopal



Inauguration of IEEE Student Branch by Padma-Shri Dr. Ajay Ray

Date: 06 October 2023

IEEE IIIT Bhopal Student Branch was formed on 6 Oct 2023 under the guidance of founder branch counsellor Dr. Gaurav Kumar Bharti after getting approval from IEEE and the Honorable director IIIT Bhopal.

It is a matter of pride to be associated with IEEE, institute IEEE student branch serves as a vibrant hub of creativity and cultivate technological innovation, also foster the culture of knowledge sharing among dedicated student members. The branch was inaugurated by Padma-Shri awarded Dr. Ajay ray, and guided the path of students by delivering a expert lecture on Artificial Intelligence and Machine Learning.

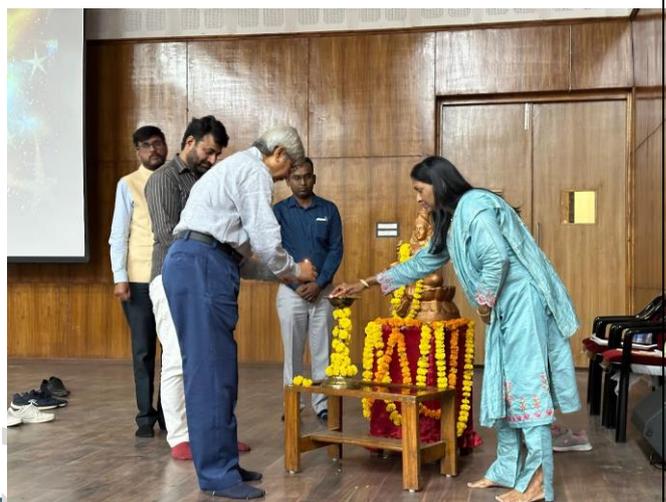
पद्मश्री प्रो. अजय कुमार रे आज (6-10-23) आईआईआईटी (ट्रिपल आई टी) भोपाल में

दैनिक कारखाने का सफर। भोपाल

अर्टिफिशियल इंटेलिजेंस और मशीन लर्निंग के विकास पर देंगे विशेषज्ञ व्याख्यान। विज्ञान और प्रौद्योगिकी में पद्मश्री से सम्मानित प्रोफेसर अजय कुमार रे आज भारतीय सूचना प्रौद्योगिकी संस्थान भोपाल में अर्टिफिशियल इंटेलिजेंस और मशीन लर्निंग के विकास पर व्याख्यान देंगे। प्रोफेसर रे भारतीय अभियांत्रिकी विज्ञान और प्रौद्योगिकी संस्थान शिवपुर के पूर्व



निदेशक रह चुके हैं। वे संस्थान में आंतरिक स्मार्ट इंडिया हैकैथॉन के प्रतिभागियों और विजेताओं को पुरस्कृत करने के अवसर पर IEEE आईआईआईटी भोपाल के छात्र शाखा के उद्घाटन हेतु आज संस्थान में मुख्य अतिथि के रूप में अर्पित किये गये हैं। इस अवसर पर आईआईआईटी भोपाल के निदेशक प्रोफेसर आशुतोष कुमार सिंह, IEEE के छात्र शाखा के परामर्शदाता डॉ गौरव कुमार भारती और प्राध्यापकगण एवं छात्रोंर छात्राएँ उपस्थित रहेंगे।





Executive Committee 2023-24

IEEE IIIT Bhopal Student Branch



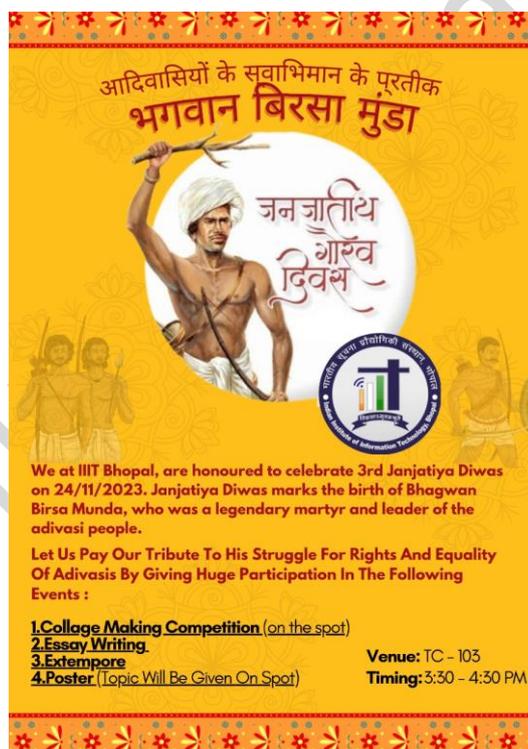
 Rivansh Chouhan SECRETARY	 Sanskarkumar P. VICE-CHAIRPERSON	 Sannidhya Awasthi CHAIRPERSON	 Dr. Gaurav Kr. Bharti BRANCH COUNSELOR	 Dr. Nisha Singhal FACULTY ADVISOR	 Dr. Jay Kr. Jain FACULTY ADVISOR	 Dr. Aftreen Khurshid FACULTY ADVISOR
 Shouvik Sutar WEBMASTER - I	 Rahul Singh WEBMASTER - II	 Arpit Raj TREASURER	 Satwik Singh DESIGN COORDINATOR	 Pareeshi Poharia PUBLICITY COORDINATOR	 Arpit Chauthan SOCIAL MEDIA COORDINATOR	

Birsa Munda Jayanti

Date: 24 November 2023

Activities: Speeches, Essay Writing (Hindi and English), Extempore (English and Hindi), Poster making, Collage making. Topic- Birsa Munde - Adivasiyon ke swabhiman ka prateek.

The Birsa Munda Jayanti celebration at our institute was a vibrant tribute to the legendary freedom fighter. The event featured a variety of activities, beginning with a keynote speech highlighting Birsa Munda's contributions to India's struggle for independence and his enduring legacy. A painting competition followed, where students artistically expressed their interpretations of Birsa Munda's life and impact. The day also included a spirited debate on tribal rights and social justice, reflecting the values Birsa Munda championed. The celebrations fostered a deep appreciation for his legacy and inspired participants to uphold his ideals.



Fit India Week

Date: 5 December to 8 December 2023

In alignment with the Fit India Movement launched by the Government of India, the Indian Institute of Information Technology Bhopal observed Fit India Week from December 5th to 8th. The event was inaugurated by Dr. Ashutosh Singh, Director of IIIT Bhopal, who emphasized the importance of

fitness and starting the day early for maximum productivity. The week aimed to promote both mental and physical fitness among students and faculty.

The first day featured yoga asanas taught by the Brahmakumari group, followed by a meditation session. On the second day, December 6th, various student activities, including a quiz, poster-making, and essay-writing competitions, were organized to foster creativity and cognitive development. The third day, December 10th, included a free health check-up for students, with Dr. A.K. Goyal overseeing the camp and highlighting the importance of regular health checks.

Fit India Week concluded with a pledge on the final day, where around 40 staff members and 100 students committed to dedicating half an hour daily to fitness activities and promoting fitness within their communities.



IIIT में सेहत से जुड़े पोस्टर मेकिंग, निबंध और प्रश्नोत्तरी प्रतियोगिता में छात्रों ने लिया भाग

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Mobile no. 9827080406

फिटनेस का डोज कार्यक्रम का आयोजन

भारतीय सूचना प्रौद्योगिकी संस्थान (आईआईटी) में फिटनेस का डोज, आधा घंटा रोज कार्यक्रम के अंतर्गत छात्रों के लिए प्रश्नोत्तरी, पोस्टर मेकिंग और निबंध लेखन प्रतियोगिता का आयोजन बुधवार को किया गया। प्रतियोगिता में आयोजन संचालक अजय कुमार श्रीवास्तव, डॉ. अर्पिता भार्गव और डॉ. नीरज कुमार ने अनुभवी शिक्षकों को आमंत्रित किया।

इन प्रतियोगिताओं का मूल्यांकन एक विशेषज्ञ पैनल द्वारा किया गया। पैनल में डॉ. सोरभ जैन, डॉ. रेखा कौरिक और डॉ. अंजनी कुमार



शामिल रहें। प्रतियोगिता में प्रश्नोत्तरी प्रतियोगिता में मृत्युंजय पांडे ने प्रथम स्थान प्राप्त किया, जबकि आदर्श सिंह और जतिन खडौड़ ने पोस्टर मेकिंग प्रतियोगिता में प्रथम और द्वितीय स्थान प्राप्त किया। निबंध लेखन प्रतियोगिता

में प्रतिभागियों को कड़ी प्रशंसा का स्वागत करना पड़ा, जिसमें आदित्य नारायण, हर्ष गोयल और सलिल कुमाराह ने क्रमशः पहला, दूसरा और तीसरा स्थान प्राप्त किया। संस्थान ने फिटनेस प्रोग्राम शुरू किया है।

Viksit Bharat@2047-Voice of Youth

Date: 11 December 2023

The "Viksit Bharat@2047-Voice of Youth" program held at the Kushabhu Thakre Convention Hall (Minto Hall) in Bhopal was a momentous event, graced by the esteemed presence of the Honorable Governor of Madhya Pradesh. This initiative provided a platform for youth voices to articulate their visions and aspirations for India's future as it approaches 2047. The event featured impassioned speeches, insightful discussions, and interactive sessions where young participants shared innovative ideas on sustainable development, technological advancements, and social progress. The Governor's presence underscored the significance of harnessing youthful energy and ideas to shape a progressive and inclusive India in the coming decades.



Visit of IIIT Bhopal Faculties in Government School

Date: 12-14 December

IIIT Bhopal conducted an impactful awareness program on December 12-14, 2023, aimed at guiding government school students aspiring to study in Japan or abroad. The event featured a keynote address by Dr. Ashutosh Kumar Singh, Director of IIIT Bhopal, and included sessions by experts and alumni who shared insights into application procedures, scholarship opportunities, and entrance examination requirements. Workshops were held on effective study strategies and time management, addressing the challenges students face in accessing reliable information and affording test preparation resources. Interactive Q&A sessions provided personalized guidance, highlighting financial aid options and free or low-cost study materials.

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The program also included a panel discussion with IIIT Bhopal alumni who shared their experiences studying abroad, offering practical advice and motivation. The event concluded with a campus tour, inspiring visiting students to pursue higher education and aspire to global standards. Overall, the program successfully provided essential information and support, empowering government school students to overcome challenges and aim for international education opportunities, reflecting IIIT Bhopal's commitment to educational equity and student empowerment



National Voters Day

Date: 25 January 2024

On the occasion of the establishment day of the Election Commission of India on January 25th, National Voters' Day was celebrated at the Indian Institute of Information Technology, Bhopal. The program was attended by the institute's director, Prof. Ashutosh Kumar, Special Duty Officer Dr. Govind Bhargav, Training and Placement Officer Dr. Ajay Shrivastava, and cultural and Ek Bharat Shreshth Bharat head Professor Dr. Nisha Singhal, along with other dignitaries. All present in the gathering pledged to uphold the dignity of democratic traditions and collectively support efforts to strengthen a robust and healthy democracy.



National Republic Day

Date: 26/01/24

Activities: Speech, Dances, Nukkad Natak (Based on Patriotism) & Distribution Of Sweets

On the occasion of National Republic Day on January 26th, 2024, the Director of IIIT delivered an inspiring speech reflecting on the significance of the day and the importance of upholding democratic values. The event was marked by vibrant cultural activities including traditional dances that celebrated India's rich heritage, a compelling street play highlighting themes of patriotism and national unity, and the distribution of sweets symbolizing shared joy and camaraderie. The festivities not only honored the spirit of our Republic but also encouraged reflection on our collective journey towards progress and unity as a nation.



Pariksha Pe Charcha 2024 for Exam Warriors

Date: 29/01/2024

Activity: Online Programme by Ministry of Education

Pariksha Pe Charcha 2024, aimed at Exam Warriors, was a momentous event where students engaged in insightful discussions with Prime Minister Narendra Modi. Held to alleviate exam stress and boost morale, the program featured the Prime Minister sharing practical tips on handling exams and managing stress effectively. Participants from diverse backgrounds had the opportunity to seek guidance directly from the Prime Minister, who emphasized the importance of a balanced approach to studies and life. The event not only provided valuable strategies for academic success but also encouraged students to cultivate resilience and confidence in facing challenges.

Road Safety Month 2024 declared by Ministry of Road Transport and Highway, Govt. Of India

Date: 15 January 2024 to 14 February 2024

In January 2024, the Ministry of Road Transport and Highways, Government of India, declared Road Safety Month with the aim of raising awareness and promoting safe driving practices across the nation. This initiative underscores the government's commitment to reducing road accidents and fatalities through education and enforcement of traffic rules. Throughout the month, various activities such as awareness campaigns, workshops on road safety measures, and interactive sessions with stakeholders were conducted to engage the public and encourage responsible behavior on the roads. The Road Safety Month serves as a pivotal period for fostering a culture of safety and vigilance among all road users, contributing towards a safer and more secure transportation environment in India.

Blood Donation Champ

Date: 19 February 2024

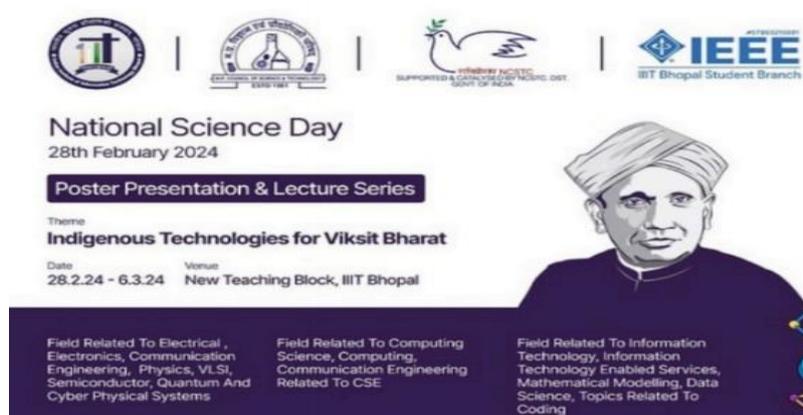
The Arunodaya Club of IIIT Bhopal organized its inaugural event in celebration of Chhatrapati Shivaji Maharaj Jayanti at the NTB, MANIT campus, in collaboration with Gandhi Medical College. The event featured a ten-member team, including two doctors, who were present with their advanced vehicle from 10 AM to 4 PM. Following this, a blood donation camp was held on February 21 from 11 AM to 4 PM at NTB, MANIT. IIIT Bhopal Director, Mr. Ashutosh Kumar Singh, emphasized the importance of such national activities and noted that a single blood donation can save three lives. Over 100 students actively participated in the campaign. Dr. Amit Ojha, Professor In-Charge of

Academics, faculty member, also donated blood alongside the students. The event, meticulously planned by club president Mr. Harshvardhan Singh (a fourth-year student), involved coordinating with medical professionals from Hamidia Hospital and arranging a blood donation bus. IIIT Bhopal expressed heartfelt gratitude to all participants and medical professionals for their valuable time and contributions. The club's mission is to promote social activities and contribute to society, stressing the importance of blood donation in emergency situations to help those in need.

National Science Day

Date: 28 February 2024

IIIT Bhopal celebrated National Science Day with great enthusiasm, organizing a vibrant poster-making competition that attracted a multitude of participants from various academic backgrounds. The event, aimed at fostering creativity and scientific temper among students, saw innovative and thought-provoking posters on themes related to scientific innovations and discoveries. The competition provided a platform for students to showcase their artistic skills and deep understanding of scientific concepts, culminating in a display of colorful and informative posters that adorned the campus. Judges, comprising esteemed faculty members and experts in the field, evaluated the entries based on creativity, scientific accuracy, and overall impact. The celebration not only highlighted the importance of science in everyday life but also encouraged young minds to engage more deeply with scientific inquiry and exploration.



Technical Activities

The student activities at IIIT Bhopal are organized under the aegis of the Student Coordinators. These activities are primarily managed by three committees: Technical, Cultural and, Sports. Each committee comprises student representatives and coordinators. Institute comprise of various student clubs, including the Coding Club (CODAME & GDSC), Sports Club, Picasso (Photography Club), Aarzo (Music, Dance, and Art Club).

In the academic year 2023-24, these committees facilitated several student events, such as NIIMACK (Annual Techno-Cultural Festival), Ek Bharat Shrestha Bharat Days, Constitutional Day, and International Day of Yoga. The following are the details of the events organized during this year:

CodeClash:

Date: 20 August 2023

A 3-hours long coding duel was organized between IIIT Bhopal's veteran seniors and aspiring juniors on Codeforces platform. This brought the juniors to go head-to-head to showcase their skills, quick thinking and problem-solving abilities. The problems in the event ranges from low to high complexity.



Engineers Day

Date: 14 September 2023

On the occasion of Engineers Day, IEEE IIIT student branch hosted a session on "Recent Trends in Cyber Forensics" Prof. P S Advani, a distinguished professional, led a virtual talk, sharing insights inot emerging techniques and methodologies in Cyber forensics.



Drone Workshop

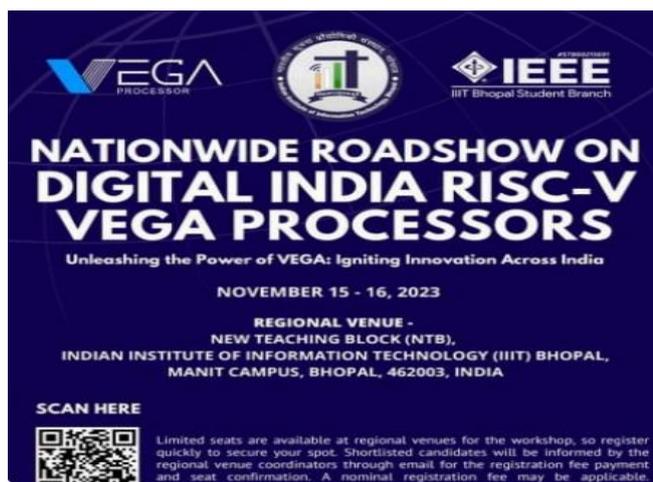
Date: 21 September 2023

The IEEE IIIT Bhopal Student Branch organized a specialized drone workshop led by Er. Abhinav Singh Thakur, Founder and CEO of ORC Electronics India Pvt. Ltd., Jabalpur, M.P. This event significantly fostered enthusiasm for drones and robotics among the participants.



Vega workshop

Date: 15-16 November 2023



On 15 November 2023, the bustling campus of IIIT Bhopal played host to a dynamic nationwide roadshow showcasing the revolutionary DIR-V VEGA processors. Excitement filled the air as students, faculty and industry professionals gathered to witness the cutting edge advancements in computing technology

Bootcamp

Date: 08 January-28 January 2024

IIIT Bhopal's IEEE Student Branch orchestrated an immersive bootcamp, sparking a passion for technological expertise. Aspiring minds gathered to explore the intricacies of competitive programming, web development, and app development under the guidance of seasoned experts. Each day was a journey of discovery, with participants unraveling the mysteries of algorithms, mastering the art of crafting dynamic web interfaces, and delving deep into the realm of mobile application creation.



Samwaad

Date: 14 February 2024

On February 14, 2024, a special event was organized at IIIT Bhopal to honor all the teaching assistants. The MSME Minister, Mr. Sakhlecha, was present to felicitate them. During the event, Mr. Sakhlecha also shared his insights on how IIIT Bhopal can explore opportunities in the entrepreneurial landscape, encouraging innovation and business ventures within the institution.

Mr and Ms Coder 2024

Date: 28 March 2024

Mr and Ms Coder 2024, organized by CODAME, the coding club of IIIT Bhopal, was an exciting coding contest aimed at discovering the best male and female coders from the first-year batch. This highly anticipated event challenged participants with a series of innovative and complex problems designed to test their coding skills, logical thinking, and problem-solving abilities.

OPTIGO 2024

Date: 21 April 2024

OPTIGO 2024 was a highly anticipated Inter IIIT coding contest organized by CODAME, the coding club of IIIT Bhopal. The event took place on April 21, 2024, and was powered by Unstop, a well-known platform for competitive programming. This event aimed to identify and celebrate the

coding talent present in IITs across the country. The event garnered significant attention, with hundreds of students registering to compete.



WebDev Week

Date: 30 October 2023 to 3 November 2023

WebDev Week was an interesting and intriguing event organised by GDSC IIT Bhopal and conducted for an entire week. The WebDev Week was organised for students in their first year and they were given an introduction to frontend stacks like HTML, CSS and JavaScript and also web 3.0 frameworks like Blockchain and Solidity.

The highlight of this lecture series was the hands-on project that the students could prepare through the guidance of GDSC leads. This lecture series was organised in both online and offline manner, taking place in TC-104 from 30th October to 3 November. The web dev week proved to be a success and was instrumental in paving the way for the beginning of the development track.

TechSprint

Date: 13 October 2023

TechSprint Quiz was a questionnaire on fascinating and talk-of-the-town topics like machine learning, web development, cloud and general coding. It was organized under



NIIMACK'23 by GDSC IIIT Bhopal. This event was held in two parts. The first part was an individual round and the second round was a team round. After these two rounds, the teams that emerged as the top three were rewarded with GDSC goodies including T-shirts, Keychains, Coffee Mugs etc. This event took place in the Civil Auditorium in Moulana Azad National Institute of Technology, Bhopal on 13th October. This event was not only fun but also a great tool in assisting learning as the audience was able to increase the levels of their knowledge.

Hacktober Fest 1.0

Date: October 1st 2023

Hacktoberfest 1.0 was an introductory session to divulge the enigmatic world of open-source contribution and version control. This intro session was digitally conducted by GDSC IIIT Bhopal and topics like Git, GitHub and Open Source was covered in this session. In this session, we touched on ideas like git commands and the purpose they are used for. Further information about Hacktoberfest was shared with the students and they were told about how they can contribute to projects. This online meeting happened on the 1st of October. For a software developer, the importance of open-source contribution and version control is extreme.

DevInsights

Date: October 13th 2023

DevInsights was a technical talk session chaired by Mr. Aditya Shah, a member of GDG Cloud Bhopal and the organizer of WordPress Bhopal. This talk session was hosted by GDSC under the banner of NIIMACK'23.

The agenda of this talk session was to develop a thorough understanding of WordPress technology and the functionality of this technology. WordPress is the most popular platform among developers for building a website from scratch.

This event took place in the Civil Auditorium in MANIT Bhopal on 13th October. The event marked the attendance of more than 250 students and was an engaging and fruitful technical session. The students were then able to receive personal guidance from Mr Shah himself.



Hack-0-Sprint

Date: 21 September 2023

On September 21, 2023, IIIT Bhopal's New Teaching Block buzzed with innovation as the Department of Electrical and Communication Engineering (ECE) hosted Hack-O-Sprint 1.0. Organized in alignment with the Smart India Hackathon 2023, the event underscored the institution's dedication to fostering creativity and problem-solving skills. The hackathon unfolded through various phases, including idea submission, selection announcements, the intense hackathon itself, and a concluding recognition session. With a robust participation of 200 individuals, Hack-O-Sprint 1.0 was a testament to the students' enthusiasm and commitment to technological advancement.



VS Code Day

Date: 30 September 2023

Visual Studio Code or VS Code is a code editor and integrated development environment for stimulating and debugging code snippets. VS code happens to be a very integral and necessary software for students learning development and trying to become proficient in competitive coding. We at GDSC, took this responsibility on our shoulders to introduce VS Code to students of the first year.

VS Code Day was organized by team GDSC on the 30th of September. This was an online event in which hands-on guidance was provided on how to set up VS Code properly and what useful extensions needed to be downloaded.

Google Cloud Study Jam

Date: 1 September to 1 October 2023

Students at IIIT Bhopal celebrated month-long Cloud Study Jams from the 1st of September to the 1st of October. Cloud study jams are community-run study groups for developers. It was facilitated by team GDSC IIIT Bhopal.

In Cloud Study Jam, there were two learning quests that students had to complete. First, there was the Gen AI, arcade game and the second was the Google Cloud Computing Platform (GCCP). It was one of its kind as those who were successfully able to enrol for this event got access to hands-on virtual labs which proved to be a great learning experience for all our students.

It proved to be an enriching experience for all those who participated in this study jam as we came to know about Cloud Clusters, the Kubernetes engine and many other things.



Ideathon 2.0

Ideathon 2.0 was a solution challenge organized by GDSC IIIT Bhopal to bring forward unique and innovative solutions to problem statements mentioned in the 17 major sustainable goals of UNDP.

It was a challenge to build together through a series of content on various technologies and dynamic training sessions covering the given cutting-edge technologies. This challenge was a team event and registered teams first had to submit a presentation of their problem statement and then build a tech framework based on their presentation. The deadline of the idea submission was the 9th of January.

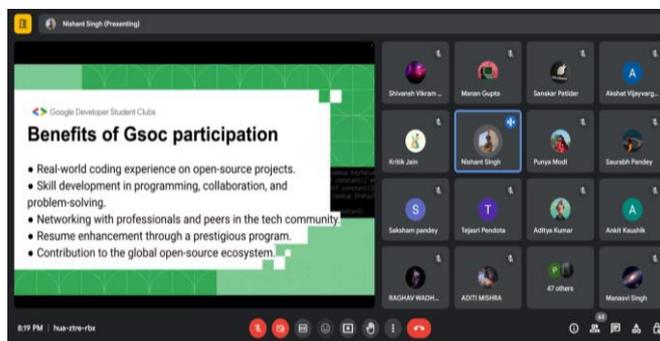
Fork Fiesta- GSOC 2024 Insights

Date: 8 January 2024

Fork Fiesta was an introductory session on Google Summer Of Code(GSOC) 2024. GSOC is an online program focused on bringing new contributors to the world of open-source software

development. GSOC contributors work with an open-source organization on a 12+ week programming project under the guidance of mentors, hence gaining practical exposure.

This was an online event organized by team GDSC on 8th January at 8 PM. This event was helpful in clearing confusions related to open-sou contributions and version control.



AppDev Week

Date: 30 January to 3 February 2024

App development is a much sought after domain of software development and GDSC IIIT Bhopal made sure that it did not remain untouched. For an entire week, we made students familiar with the introductory concepts of App Development. On day 1, we provided guidance on the installation of Android Studio and Flutter SDK, the prerequisites to App Dev. Later on, we covered topics like containers and images in Flutter. The latter part of this event involved the creation of a full-fledged to-do list app with working features, which students were able to comprehend in a very precise manner.

This event was conducted in a hybrid mode from 30th Jan to 3rd feb in both online and offline manner. Through this event, we were able to lay a foundation stone of learning in app development.



DSAI/ML Week

Date: 6 March to 15 March 2024

GDSC IIIT Bhopal organized Data Science Artificial Intelligence and Machine Learning Week, keeping in tandem with the latest in-demand topics of the software industry. To build a solid foundation, our opening session was based on programming concepts of Python, the foundational language of all AI & ML. After that, we delivered lectures on Exploratory Data Analysis, Data PreProcessing and libraries like Pandas, Numpy and Matplotlib in Data Science. This was for two days. For the next three days, we touched on the subject of Machine Learning in which we covered topics like the Neural Net project and Overview of Generative AI and Language Learning Models.



This event was conducted from the 6th of March to the 15th of March, in both online and offline fashion. This event was designated for students of first year and through this lecture series, we empowered our students to understand that much Data Science & Machine Learning that they

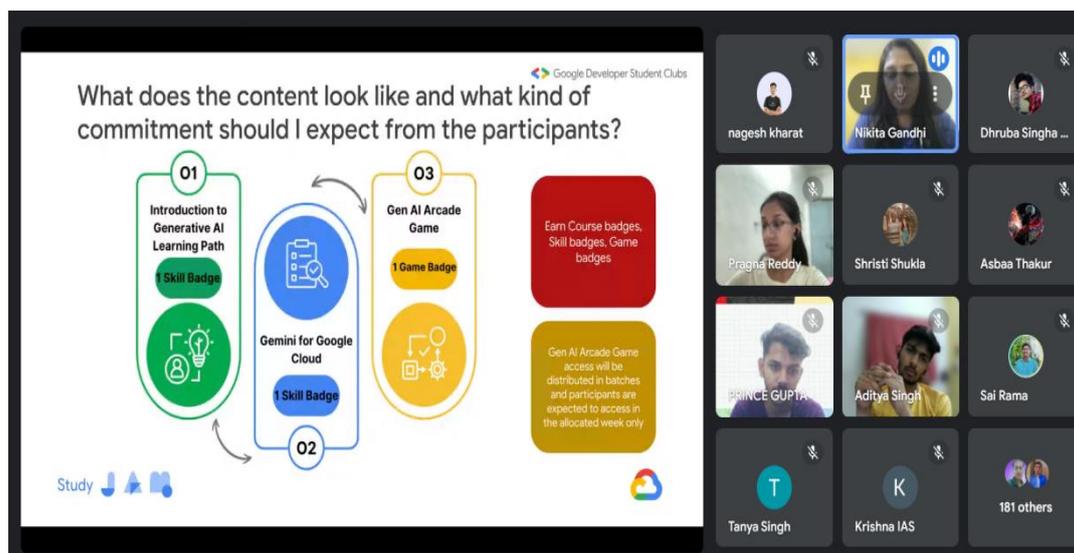
were capable of building their own prediction models and compete in Kaggle contests.

Gen AI Study Jams

Date: 1 May to 28 May 2024

Much like Cloud Study Jams, Gen AI study jams facilitated by GDSC IIIT Bhopal, was a marquee event of Google, in which students had access to hands-on labs and virtual lectures on Generative AI. The labs empowered the students to create and deploy streamlit apps by making use of Gemini and Vertex AI. They were also introduced to the idea of Neural Networks and how Gen AI works.

We witnessed the participation of students from first year to pre-final year. This event is being held from May 1 to 28 and is proving to be a great learning opportunity for all those who have registered.



Campus Webinar

Date: 21 May 2024

In collaboration with Code Studios (Coding Ninjas), we at GDSC IIIT Bhopal organized an engaging webinar on the topic of 'How to crack a product-based Company'. The guest lecturer was Mr. Kunal Jindal from Disney Hotstar, working at the position of SDE-2. The webinar was a much-needed guidance that was required by students whose goal is to get into a product-based company. The lecturer covered topics like How to build a comprehensive resume how to approach DSA questions and CS fundamental concepts systematically.

The session was received by the audience with much aplomb, as they raised their technical doubts to the speaker and he addressed them in a fervent manner, solving all the queries. This engaging one-



on-one session was really necessary to make our students ready for placements and internships. This session was conducted on the 21st of May from 4:00 pm to 5:00 pm in a pure online manner and had a very positive impact upon all the attendees.

Students' Achievement

Smart India Hackathon 2023 (SIH-2023)

IIIT Bhopal celebrated a proud moment as its students triumphed at the Smart India Hackathon (SIH) 2023, a national event organized by the Ministry of Education's Innovation Cell to address critical issues posed by government and industry. Competing against over 12,000 participants and addressing 231 problem statements from 51 departments, IIIT Bhopal's "Breaking Prod" team emerged victorious in the final round held on December 19-20. Guided by Dr. Sonal Chandel, the team developed "AyurMitrum," an AI-based chatbot for personalized well-being, which won them a ₹1 lakh cash prize and certificates. This was IIIT Bhopal's debut in SIH, and Director Prof. Ashutosh Kumar Singh commended the team's achievement and encouraged further participation in such competitions.



Google Summer of Code (GSoC)

IIIT Bhopal student Sambhav Dixit achieved a remarkable milestone by winning the prestigious Google Summer of Code (GSoC) 2023. Demonstrating exceptional coding skills and innovation,

Sambhav collaborated on an open-source project that significantly impressed the global tech community. His success in this highly competitive program not only highlights his individual talent and dedication but also brings great honor to IIIT Bhopal. The accomplishment underscores the institution's commitment to fostering technical excellence and encouraging students to engage in trans-formative technological initiatives.



Cultural Activities

The official inauguration of Niimack took place on the evening of the 12th of October, a significant and eagerly awaited event. Our Honourable Director Sir presided over the ceremony, which was attended by the beloved family members of IIIT Bhopal. This momentous occasion marked the beginning of a series of exciting and culturally rich events.

The inauguration ceremony was graced by esteemed guests, distinguished faculty members, and enthusiastic students. The atmosphere on campus was electric, filled with excitement and anticipation. As the cultural fest was declared open, there was a palpable sense of joy and celebration in the air. The ceremony promised a lineup of memorable experiences and spectacular performances, setting the stage for a vibrant and unforgettable festival.

Ninaad:

Ninaad, the singing competition, unfolded as a musical extravaganza that featured melodious and soulful performances by exceptionally talented singers from across Bhopal. This highly anticipated event brought together a diverse group of vocalists, each eager to showcase their vocal prowess and passion for music.



The participants captivated the audience with their stunning musical renditions, covering a wide spectrum of genres. From the timeless beauty of classical melodies to the energetic beats of modern hits, the performances were a testament to the rich and varied tradition of music.

Ninaad was more than just a competition; it was a celebration of music in all its forms. It provided a valuable platform for budding singers to shine, allowing them to share their love for music with a receptive and appreciative audience. The event highlighted the immense talent within Bhopal and underscored the importance of nurturing and promoting the arts. Overall, Ninaad was a harmonious blend of talent, tradition, and artistic expression, making it a memorable highlight of the cultural fest.

Vaag-Vesh:

Vaag Vesh, the poetry competition, united poets and poetry enthusiasts in a celebration of the beauty of words and expressions. Participants took the stage to recite their original poems, exploring a wide array of themes including love, nature, society, and personal experiences. The event showcased the remarkable power of poetry to capture emotions and tell compelling stories.

Each poet's performance was a testament to their creativity and ability to convey deep feelings through their words. The audience was deeply moved and inspired by the profound and imaginative expressions, which resonated on a personal and universal level. Vaag Vesh highlighted the enduring impact of poetry, leaving a lasting impression on all who attended and affirming the art form's ability to connect and inspire.



Rangratri:

As the sun set, the campus came alive with the vibrant colors and rhythms of Rang Ratri, a Garba night that brought students together to celebrate in traditional style. Clad in colorful attire, participants danced to the energetic beats of Garba music, infusing the atmosphere with joy and festivity. The event was a spectacular display of cultural heritage, fostering a sense of community and togetherness among everyone involved.



Dance Encore:

On the 14th of October, Dance Encore captivated the Civil Auditorium, bringing together the finest dancers from various colleges across Bhopal for an intense and thrilling dance competition. This highly anticipated event showcased the incredible talent and creativity of the participants, who performed a diverse array of dance forms, ranging from classical and contemporary to hip-hop.

The stage was set for a dazzling display of choreography, coordination, and sheer passion. Each performance was meticulously crafted, reflecting the dedication and hard work of the dancers. The audience was treated to a mesmerizing spectacle, as the dancers moved with grace and energy, leaving everyone in awe. Dance Encore proved to be a standout highlight of Niimack, with its vibrant and dynamic performances. The competition not only celebrated the art of dance but also fostered a spirit of camaraderie and healthy competition among the participants. The event left an indelible mark on all who attended, making it a memorable evening of artistic excellence and entertainment.