BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY,

NAVI MUMBAI

ELECTROLINK

DEPARTMENTAL NEWSLETTER

2022-23

ELECTRONICS AND TELECOMMUNICATION DEPARTMENT

About Department:

Since its establishment in 1983, the Department of Electronics and Telecommunication Engineering is constantly engaged in the pursuit of providing quality education to aspiring engineers. With a sanctioned intake of 60 students, this department has always been the favourite choice among the students seeking admission to diploma course. Fully equipped and well maintained labs are instrumental in acquainting the students with various practical aspects of the technologies. A range of instruments available in Labs give students the opportunity to hone their practical skills. The instruments available in these labs encompass Colour TV trainer kit, Satellite receivers, Mobile communication Kits, DTH, Microprocessor & Microcontroller trainer kits. The Computers Lab. has sufficient number of PCs having internet facility on every single of them with a ratio of two students per PC Besides the programming languages, the PCs are loaded with educational software like PCB making software, Microprocessor & Microcontroller simulators, brain teasers etc. Well qualified and highly devoted staff is committed for imparting the best knowledge to the students. Proper guidance of staff along with sincere efforts of students' produces simulators, brain teasers etc. Well qualified and highly devoted staff is committed for imparting the best knowledge to the students. Proper guidance of staff along with sincere efforts of students' produces excellent results every year. Here we equip our students with essential knowledge and skills which help them to excel in this highly competitive & demanding world.

Department Vision:

To impart quality education through exploration and experimentation and generate socially conscious engineers with embedded ethics and values

Department Mission:

- **M1.** To produce competent Electronics and Telecommunication engineers through quality education by imparting knowledge, skill and project based learning.

- **M2.** To educates students with practical approach to dovetail them to various industries' needs.

- **M3.** To train students to be hard core professionals and entrepreneurs and also virtuous, ethical patriotic human beings concerned about society and the nation.

Program Educational Objectives (PEOs)

- **PEO 1**. Provide socially responsible, environment friendly solutions to Electronics and Telecommunication engineering related broad-based problems adapting professional ethics.

- **PEO 2.** Adapt state-of-the-art Electronics and Telecommunication engineering broad-based technologies to work in multi-disciplinary work environments.

- **PEO 3.** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes (PO)

- **PO 1. Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, sciences and engineering fundamentals and engineering specialization to solve the engineering problems.

- **PO 2. Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.

- **PO 3. Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of system components or processes to meet specified needs.

- **PO 4. Engineering tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

- **PO 5. Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

- **PO 6. Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

- **PO 7. Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes (PSO)

- **PSO 1. Electronics and Telecommunication Systems:** Maintain various types of Electronics and Telecommunication systems.

- **PSO 2. EDA Tools Usage:** Use EDA tools to develop simple Electronics and Telecommunication engineering related circuits.

FROM THE PRINCIPAL'S DESK

Mr. P. N. Tandon
Principal, BVIT

I feel extremely proud of this initiative to publish the Newsletter "ElectroLink" of Electronics and Telecommunication Department. I take this opportunity to offer sincere thanks to all who have taken efforts to publish this Newsletter. The Mission of BVIT is to nurture the students with Outcome based and value based education and inculcate leadership qualities to make competent engineers. The students are kept abreast with the latest technological advancements through Industrial visits, Industrial trainings, Expert lectures and other Industry Institute Interactions. These interactions update and groom the students with all latest innovations and motivate them to bridge the gap between their knowledge and skills and Industry expectations.

Editorial board

STAFF EDITORIAL COMMITTEE

1. Mrs.Ukil M
2. Mr.Suryasevak Singh
3. Ms.Aphasana Mulla

STUDENT EDITORIAL COMMITTEE

1. Vaibhavi Shelake
2. Omkar Srivastava

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STATE LEVEL ELOCUTION COMPETITION

ENUNCIA–22

A State Level Elocution Competition - ENUNCIA 22 was organized by Bharati Vidyapeeth Institute of Technology, Navi Mumbai on Thursday, December 8, 2022. Thirty one contestants from various Institutes from Mumbai, Ratnagiri and Nashik participated with zeal and fervor. Dr. Priyeta Priyadarshini, Human Resource Management, Bharati Vidyapeeth's Institute of

Management Studies and Research, Navi Mumbai and Gunjan Behl, Assistant Professor, Institute of Management and Information Technology, Bharati Vidyapeeth, Belapur, Navi Mumbai were the prestigious Judges for the occasion.

The topics were as follows:

1.   Suggestions to reduce Global Warming.

2.   How India can be made self - sufficient in water requirement ?

3.   How technology such as AI can be used for the betterment of humanity?

The Judges were highly impressed by the performance of the contestants- their ideas, perspectives, expression, fluency and cohesion and made a mention in their address. They were also all praises for the program in entirety, the arrangement and hospitality of the Institute.

The Winners of ENUNCIA 22 were as follows:

Maithili Khamkar
(1st prize)
Shri Bhagubhai Mafatlal
Polytechnic , Vile Parle

Dev Rai
(2nd prize)
B. V. I. T. Navi Mumbai

GENERAL QUIZ COMPETITION – "ELECQUIZ –2022" – UNDER ISTE STUDENT CHAPTER

An Interdepartmental General Quiz Competition was organized by Electrical Engineering Department of Bharati Vidyapeeth Institute of Technology, Navi Mumbai under ISTE Students Chapter [MH 149], on 21 October 2022 as a part of co-curricular activities. The programme started with the lighting of lamp and Saraswati Vandana. The Quiz began with the introduction of the quizmaster, Soham Kadam, member, ISTE student Chapter of the department and contestants from each team. The rules of the competition were announced. There were a total of 9 teams, one representing each department and two from first year. Every team consisted of 2 members. There were three preliminary rounds and final round. The competition was held in the VLC hall of the Institute from 10.00am to 4.00pm.

The event witnessed enthusiastic preparation and participation of students. It was an interesting five round of questions competition, which covered the areas of Science, History, Sports, Cinema, General Knowledge and current affairs and divided into MCQs, Pass on, audio & visuals and rapid rounds. Students were allotted 30 seconds to answer each question in four rounds. The Rapid-Fire round was of one minute. The teams were awarded 10 points for every correct answer. The students showcased their brilliance by rapidly answering the questions.

Mechanical Engineering Department from first preliminary round, Chemical Engineering Department from second preliminary round and Electronics & Telecommunication Department from third preliminary round succeeded for the Final.

Participants List from EJ department

EJ	SYEJ	Ahmed Nakhwa
	SYEJ	Vaibhavi Shelke

Winners

Vaibhavi Shelke   Ahmed Nakhwa

INTERDEPARTMENTAL ELOCUTION COMPETITION

Organised by Department of Civil Engineering in association with ISTE Students Chapter

An elocution competition event for students of Bharati Vidyapeeth Institute of Technology was organised on 2nd November, 2022, in association with ISTE Students Chapter. Principal of BVIT, Mr. P. N. Tandon sir, granted permission for organising the event. HoD of Civil and Chemical Engg departments, Mrs. Cissy Shaji ma'am, was the program coordinator. Heads of various departments of BVIT were assigned the responsibility for judging the performance of the contestants.

Some of the participants delivering their speech

The competition was open for students of all classes and departments of Bharati Vidyapeeth Institute. 21 students of different classes participated in the event.
The topics for the elocution competition were:
1. What are the climate change related challenges India is facing?
2. How technology such as AI can be used for the betterment of humanity?
3. How India can be made self-sufficient in water requirement?

At the start, Program Coordinator, Mrs. Cissy Shaji ma'am gave a welcome address to the students. The participants were reminded of the rules and regulations for the event. Prior to the competition, participants drew lots to determine their contestant number, in sequential order of which, the participants got chance to speak. All students were given participation certificates in appreciation of their performance.

After all participants had spoken, the judges shared their feedback and suggested areas for improvement.

Each judge individually gave marks to the contestants based on different parameters. The marks accorded by each judge were added to get total marks, and the contestants with the highest total marks were declared winners.
Participants really showed impressive public speaking skills, and many innovative ideas and solutions relating to the topics were raised. After speeches of all contestants were over, the judges gave their valuable feedback, and suggested areas for improvement.

Dev Rai of Computer Technology Department and Soham Kadam of Electrical Engineering Department wonthe first and second prizes respectively.

The winners of the elocution competition were Dev Rai of Computer Technology Department (First Prize) and Soham Kadam of Electrical Engineering Department (Runner-up). Winners were awarded cash prizes along with certificate of appreciation. First Prize winner received prize of Rs 2,000 whereas second prize winner received Rs 1,000.

All participants were given certificate of appreciation.

The event concluded with a vote of thanks given by Vipul Ranjane sir of Civil Engineering Department, and singing of the national anthem.

Participants List from EJ department

	SYEJ	Khushi Shaw
EJ	FYEJ	Yash Rajput

SUPERANNUATION

Mrs. Madhumita Ukil, HOD , EJ dept had joined the institute in August 1987 and after serving a tenure of 35 years and 8 months, she retired on 30th April 2023.

STAFF TRAINING

2022-23

SR. No	Name	Topic	Duration		no of days	Venue
1	Suryasevak Singh Ramdhani	Advancement in Robotics	20/6/2022	24/6/2022	5	VESP,Chembur
		Design of high frequency antennas for real time applications	14/3/2023	18/3/2023	5	GMR Institute of technology
2	Deshmukh Shital Shashikant	Amazon Web Services	22/08/2022	27/08/2022	5	AISSMS Institute Of Information Technology, Pune
		Trends and challenges in the development of Electric vehicles and hybrid Electric Vehicles	14/11/2022	18/11/2022	5	Lendi Institute of Engineering and Technology
		Research writing & Methodology	12/7/2022	19/07/2022	7	Patrician College Of Arts & Science, Chennai
3	Aphasana Mulla	Trends and challenges in the development of Electric vehicles and hybrid Electric Vehicles	14/11/2022	18/11/2022	5	Lendi Institute of Engineering and Technology
		Machine Learning	7/12/2022	11/12/2022	5	Sinhgad Institute of Technology,Lonavala
		AWS (Amazon Web Services)	27/02/2023	3/3/2023	5	AVS Engineering College in Collaboration with ExcelR.
		Deep learning Application Development,Tools and Research	28/02/2023	4/3/2023	5	VIIT Pune
		Internet Of Things-Industry 5.0	20/02/2023	24/02/2023	5	SIT,Lonavala

4	Tabhane Sukeshini S	Trends and challenges in the development of Electric vehicles and hybrid Electric Vehicles	14/11/2022	18/11/2022	5	Lendi Institute of Engineering and Technology
		Machine Learning	7/12/2022	11/12/2022	5	Sinhgad Institute of Technology,Lonavala
		Data Science using Machine Learning	2/1/2023	6/1/2023	5	EXCELR
5	Deshmukh Wrushall	Internet Of Things-Industry 5.0	20/02/2023	24/02/2023	5	SIT,Lonavala
		Trends and challenges in the development of Electric vehicles and hybrid Electric Vehicles	14/11/2022	18/11/2022	5	Lendi Institute of Engineering and Technology
		Machine Learning	7/12/2022	11/12/2022	5	Sinhgad Institute of Technology,Lonavala
		AWS (Amazon Web Services)	27/02/2023	3/3/2023	5	AVS Engineering College in Collaboration with ExcelR.
		Data Science using Machine Learning	2/1/2023	6/1/2023	5	EXCELR

STAFF PAPER PUBLICATION

2022-23

SR. No	Name	Number of Paper publication	Publication	Journal Name	Date	Impact Factor
1	Sutar Shahaji	1	Smart Door Lock System by using Mobile via SMS	IJARSCT	May_23	7.301
2	Suryasevak Singh Ramdhani	4	Evaluation of transient response specifications of second order control system using Scilab	IJIREEICE	Oct_22	7.23
			Effect Of Change In Microstrip Patch Antenna	GIS SCIENCE JOURNAL	Nov_22	6.1
			Evaluation of Wave Propagation Parameters using MATLAB Simulation Software	IJARSCT	May-23	7.301
			OTP based Door lock system	IJARSCT	May-23	7.301
3	Deshmukh Shital Shashikant	4	Evaluation of transient response specifications of second order control system using Scilab	IJIREEICE	Oct_22	7.23
			Effect Of Change In Microstrip Patch Antenna	GIS SCIENCE JOURNAL	Nov_22	6.1
			Evaluation of Wave Propagation Parameters using MATLAB Simulation Software	IJARSCT	May-23	7.301
			OTP based Door lock system	IJARSCT	May-23	7.301
4	Aphasana Mulla	3	A Review on Generation of CRC Error Detection Code Using C Programming in Computer Network	IJIREEICE	Mar_23	8.021
			A Review on Development of Project using Keil Software	IJARSCT	Apr_23	7.301
			Using SciLab Improvement of Channel Capacity with Cell Splitting	IJARSCT	May_23	7.301

5	Tabhane Sukeshini S	4	Evaluation of transient response specifications of second order control system using Scilab	IJIREEICE	Oct_22	7.23
			Effect Of Change In Microstrip Patch Antenna	GIS SCIENCE JOURNAL	Nov_22	6.1
			Evaluation of Wave Propagation Parameters using MATLAB Simulation Software	IJARSCT	May-23	7.301
			OTP based Door lock system	IJARSCT	May-23	7.301
6	Deshmukh Wrushali	3	Improvement Of Channel Capacity with Cell Splitting using Scilab	IJIREEICE	Oct_22	7.12
			A Review on Generation of CRC Error Detection Code Using C Programming in Computer Network	IJIREEICE	May_23	8.021
			Using SciLab Improvement of Channel Capacity with Cell Splitting	IJARSCT	May_23	7.301

CO-CURRICULAR ACTIVITIES

2022-23

Sr. No.	Date	Event(National/ International/ Department)	Venue	Participants	Achievement
1	17_April_2023	Intercollegiate Quiz Competition	VES Polytechnic, Chembur	AHMED NAKHWA	Participation
2	31_March_2023	State Level Project Competition	B.V.I.T , Navi Mumbai	ATHARVA SHIMPI	Participation
3	31_March_2023	State Level Project Competition	B.V.I.T , Navi Mumbai	OMKAR SRIVASTAV	Participation
4	31_March_2023	State Level Project Competition	B.V.I.T , Navi Mumbai	AAKASH JAMNIK	Participation
5	31_March_2023	State Level Project Competition	B.V.I.T , Navi Mumbai	SHUBHAM DABHOLKAR	Participation
6	16_March_2023	TORQUE -23 Nitro RC Competition	Fr.C.Rodrigues Institute of Technology , Vashi	AAKASH JAMNIK	Participation
7	18_Nov_2022 to 22_Nov_2022	State Level Quiz Competition - TECHNOCRATZ - 2022-23	Fr. AGNEL POLYTECHNIC,Vashi	AHMED NAKHWA	Participation
8	18_Nov_2022 to 22_Nov_2022	State Level Quiz Competition - TECHNOCRATZ - 2022-23	Fr. AGNEL POLYTECHNIC,Vashi	VAIBHAVI SHELKE	Participation
9	2_Nov_2022	State Level Elocution Competition - ELOQUENCE-22	B.V.I.T , Navi Mumbai	VAIBHAVI SHELKE	Participation
10	2_Nov_2022	State Level Elocution Competition - ELOQUENCE-22	B.V.I.T , Navi Mumbai	KHUSHI SHAW	Participation

EXTRA-CURRICULAR ACTIVITIES

2022-23

Sr. No.	Date	Event	Venue	Participants	Achievement
1	23,24,25_Mar_2023	Interdepartmental Sports 2022-23 (Kho-Kho)	BVIT, Navi Mumbai	ATHARVA SHIMPI	Second
2	23,24,25_Mar_2023	Interdepartmental Sports 2022-23 (Kho-Kho)	BVIT, Navi Mumbai	AKASH GITE	Second
3	16,17,18,19_Nov_2022	36th FIG Trampoline Gymnastics World Championships	Sofia, Bulgaria	ATHARVA SHIMPI	Participation
4	5_Nov_2022	Mens A-1 Zonal Sports Meet (Volley ball)	Government polytechnic, Pune	MAHESH DIGHE	Participation
5	21_Oct_2022	Interdepartmental General Quiz Competition	BVIT, Navi Mumbai	VAIBHAVI SHELAKE	First
6	21_Oct_2022	Interdepartmental General Quiz Competition	BVIT, Navi Mumbai	AHMED NAKHWA	First

INDUSTRIAL TRAINING (STUDENTS)

2022-23

Sr. No.	Date	Industry	Participants
1	14/07/2022 to 14/8/2022	Selec Control,Navi Mumbai	SYEJ (30)
		Autodata,Navi Mumbai	SYEJ (1)
		JNPT, Navi Mumbai	SYEJ (2)
		Shivshakti Networks,Navi Mumbai	SYEJ (2)
		MS Vital Electronics & Manufacturing, Navi Mumbai	SYEJ (2)

INDUSTRIAL VISIT (STUDENTS)

2022–23

Sr. No.	Date	Industry
1	22/3/2023	Saitronics , Kamothe , Navi Mumbai
2	16/12/2022	Go Cheese Govardhan Manchar, Ambegaon, Pune

MERITORIOUS STUDENTS

ELECTRONICS AND TELECOMMUNICATION

Toppers (Academic Year 2022-2023)

First Year	Second Year	Third Year
Mali Vaishnavi Sunil	**Nakhwa Ahmed Asif**	**Mengade Manasvi**
83.60%	**83.29%**	**83.11%**

THANK YOU