

BIOMED

Newsletter of Biomedical Engineering Department (Volume 7 Issue 1)

ACADEMIC TERM: JUNE–DEC 2023

VISION: "OUR VISION IS TO NURTURE ENGINEERS WHO CAN COMPREHEND THE ETHICAL, SOCIAL, AND ECONOMIC IMPLICATIONS OF THEIR WORK BY IMPARTING QUALITY EDUCATION THROUGH INTEGRATION OF ENGINEERING AND MEDICAL SCIENCES FOR THE IMPROVEMENT OF HUMAN HEALTH CARE."

MISSION:

TO CREATE A FREE AND OPEN LEARNING ENVIRONMENT THAT FOSTERS THE INTELLECTUAL GROWTH OF STUDENTS.

TO PROVIDE SKILL BASED TECHNICAL EDUCATION.

TO ENABLE STUDENTS TO BE SENSITIVE TOWARDS THE ETHICAL ISSUES OF MEDICAL INDUSTRY

TO PREPARE STUDENTS FOR CONFRONTING MEDICAL CHALLENGES BY APPLYING ENGINEERING PRINCIPLES.

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Message from Head of the Department...

It gives me immense pleasure to present the Department Newsletter for the academic term June to December 2024 of the Department of Biomedical Engineering, Government Polytechnic for Girls, Ahmedabad.

The department has continued its sincere efforts toward academic excellence, professional development, and holistic growth of students through various curricular and co-curricular activities during this term. We strongly believe that biomedical engineering is a field that connects engineering principles with healthcare needs, and our aim is to prepare students to contribute meaningfully to society through technical knowledge, ethical values, and innovation.

During this term, the department organized an expert talk on "Introduction to Biomedical Engineering and Recent Trends", which helped students gain awareness about emerging technologies and career opportunities in the biomedical field. A motivational session under SSIP titled "Startup Story" also inspired students to think creatively and develop an entrepreneurial mindset.

One of the major highlights of this term was the industrial internship undertaken by Semester 5 students. Through these internships, students received valuable industrial exposure and practical learning experiences that enhanced their technical skills and confidence. Such opportunities play a significant role in bridging the gap between classroom learning and industry expectations.

I am also pleased to note the commendable academic performance and achievements of our students. The dedication of students and continuous guidance provided by faculty members have contributed positively toward academic progress and skill development.

The department faculty members actively participated in faculty development and industrial training programs during the term to enhance their professional competencies and remain updated with current industrial and educational practices.

I sincerely appreciate the efforts of all faculty members, students, and the editorial team for their enthusiasm and contribution toward departmental activities and the successful publication of this newsletter.

I extend my best wishes to all students for their bright future and encourage them to continue learning, innovating, and striving for excellence in the field of biomedical engineering.

Mr. Rakesh D. Motka
Head of Department
Biomedical Engineering
Government Polytechnic for Girls, Ahmedabad

Co-curricular/ Extra curricular Activity

- The students of semester 1 visited Vikram Sarabhai Community Science Centre, Navarangpura, Ahmedabad on 26/07/2023 with EC/ICT department 1st year students as a part of their induction program. Two faculty members of the Biomedical Engineering department, Ms. Neelam B. Modi and Ms. Aarti R. Dalwadi accompanied students during the visit.



The students of Biomedical Engineering Department celebrated Teacher's day on 5th September, 2023, by playing the roles of their teachers for a day. Students were given appreciation certificates for their efforts to show their gratitude towards their teachers.



Summer Internships



AMT



- ▶ As a part of experiential learning and industry exposure, students of the Department of Biomedical Engineering successfully completed summer internships at various biomedical industries, hospitals, healthcare organizations, and medical device companies during the academic term June–December 2023. The internship program provided students with practical knowledge, technical skill enhancement, and exposure to real-world applications of biomedical engineering.
- ▶ Students gained hands-on experience in areas such as biomedical equipment maintenance, hospital engineering services, manufacturing of medical devices, orthopedic implants, laparoscopic instruments, tourniquet systems, disposable medical devices, vein finder systems, CSSD instruments, and healthcare technology support services. The internships were carried out at reputed organizations including **Adventus Meditech Pvt. Ltd., HG Wellness, Marengo CIMS Hospital, J K Medirise, Mastron Technology, Point of Care Biomedical Pvt. Ltd., Spectrum Medtech Pvt. Ltd., Radiance Hospital, MY VISION Medical Pvt. Ltd., Aussin Intensive Care Unit**, and others.
- ▶ The internship experience helped students understand industrial workflow, professional ethics, teamwork, troubleshooting practices, and the practical implementation of biomedical engineering concepts in healthcare and medical industries. Such initiatives play an important role in bridging the gap between academic learning and industry requirements while preparing students for future career opportunities in the biomedical field.

Result Analysis

SEMESTER	NO OF STUDENTS APPEARED	NO OF STUDENTS PASSED	NO OF STUDENTS FAILED	PERCENTAGE RESULT
1	53	8	45	15.09%
3	31	15	16	48.39%
5	30	25	05	83.33%

SEMESTER	RANK	ENROLLMENT NO.	NAME OF STUDENT	SPI	CPI	CGPA
1	1	236140303060	SHAH KHUSHALI AJAYKUMAR	8.19	8.19	0
	2	236140303033	PARMAR SHIYABEN VIJAYBHAI	7.29	7.29	0
	3	236140303008 236140303040	DABHI URVASHI NITINBHAI PATEL MEHFUJA MUSTAKBHAI	7.14 7.14	7.14 7.14	0
3	1	226140303004 226140303006	DESAI AASIYA MAKSUDBHAIDOHARE PARMITA HARISH	8.43 8.43	8.1 8.55	8.43 8.43
	2	226140303012	LAHERU HIR ANAND	8	8.58	8
	3	226140303011 226140303025	KANAN ASHISHKUMAR CHAUHAN PANDEY AAKANSHAKUMARI VIJAYKUMAR	7.9 7.9	7.45 6.95	7.9 7.9
5	1	216140303010	PANCHAL HELI BHAVESHKUMAR	8.41	7.5	8.18
	2	216140303016	SUKHADIYA CHARMI KIRITKUMAR	8.32	7.63	7.92
	3	216140303011	PANDYA DHRUVI SHAILESHKUMAR	8.18	7.01	7.66

Faculty Training

Name Of Faculty	Name of Training	Organising Institute	Duration	
			From	To
RAKESH S. MOTKA	STTP on Biomedical Advancements in Engineering	NITTTR Ext center Ahmedabad	25/9/2023	29/9/2023
	Course on public speaking	NPTEL-MOOC	01/07/2023	01/10/2023
JIMISHA H. SUTHAR	Course on public speaking	NPTEL-MOOC	01/07/2023	01/10/2023
AARTI R. DALWADI	Stress Management	NPTEL-MOOC	21/8/2023	15/9/2023
	Empowering Educators in VLSI Technology	NITTTR,Ahmedabad	18/12/2023	22/12/2023
MEGHNA M. PATEL	Stress Management	NPTEL-MOOC	21/8/2023	15/9/2023
	The Science of Happiness and Wellbeing	NPTEL-MOOC	21/8/2023	13/10/2023
NEELAM B. MODI	Stress Management	NPTEL-MOOC	21/8/2023	15/9/2023
	The Science of Happiness and Wellbeing	NPTEL-MOOC	21/8/2023	13/10/2023

Editorial board

▶ **Faculty Editor: Ms. Jimisha H. Suthar**

▶ **Student editors:**

- ▶ Ms. Charmi Sukhadiya
- ▶ Ms. Dhruvi Pandya
- ▶ Ms. Hir Lehu (semester 3)
- ▶ Ms. Parmita Dohare (semester 3)
- ▶ Ms. Diya Thakor (semester 1)

▶ **Vision for Upcoming Term**

- ▶ To strengthen industry-institute interaction through more expert sessions and industrial visits.
- ▶ To encourage student participation in technical competitions, projects, and innovation activities.
- ▶ To enhance practical learning through advanced laboratory exposure.
- ▶ To motivate students toward higher studies, entrepreneurship, and research activities.
- ▶ To continue faculty development initiatives for quality technical education.