



BIOMED

Newsletter of Biomedical Engineering Department

Volume 8 Issue 1

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- Academic Term: June–Dec 2024
 - **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.
 - **Inside This Issue:**
 - Message from HOD
 - Co-curricular Activity
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Message from Head of the Department...

- It gives me immense pleasure to present the Department Newsletter for the term June to December 2024 of the Department of Biomedical Engineering, Government Polytechnic for Girls, Ahmedabad.
- This term has been marked by a series of enriching academic and co-curricular activities aimed at enhancing the knowledge, skills, and overall development of our students. The department successfully organized an expert talk on *"Introduction to Biomedical Engineering and Recent Trends"*, which provided valuable insights into emerging technologies and the vital role of biomedical engineers in modern healthcare systems.
- We also conducted a motivational session under SSIP titled *"Startup Story"*, where students were inspired by real-life entrepreneurial experiences. Such initiatives play a crucial role in nurturing innovation, critical thinking, and an entrepreneurial mindset among our students.
- In addition, our Semester 5 students actively participated in internships as part of their curriculum, gaining practical exposure and hands-on experience in real-world environments. These opportunities bridge the gap between theoretical knowledge and industry requirements, preparing students for future challenges.
- The department remains committed to fostering academic excellence, innovation, and professional growth. I appreciate the dedicated efforts of our faculty members and the enthusiastic participation of our students in making these activities successful.
- I am confident that such continuous efforts will empower our students to contribute effectively to the field of biomedical engineering and to society at large.

Mr. Rakesh D. Motka

Head of Department
Biomedical Engineering
Government Polytechnic for Girls, Ahmedabad

Co-curricular Activity

- Expert Talk on “Introduction to biomedical Engineering and recent trends” by Ms. Pooja Gohel, Assistant Professor in Biomedical Engineering Department at L.D.College of Engineering. Expert talk was focussed on first year students to make them aware of the field of Biomedical Engineering. Total 30 students of semester 1 attended the talk. The event was co-ordinated by Ms. Meghna M. Patel and Ms. Neelam B. Modi.



- Motivational Talk on Start-up was delivered by Mr. Shubham Shah, under SSIP. The convener of SSIP committee of the institute, Mr. Rakesh D. Motka and the departmental faculty members Ms. Meghna M. Patel and Ms. Jimisha H. Suthar co-ordinated the event. Total 90 students benefitted from the event.



Industrial Internships



- As part of the curriculum, Semester 5 students of the Department of Biomedical Engineering successfully completed industrial internships at various hospitals, healthcare organizations, and biomedical industries. The internship program provided students with practical exposure, technical skill development, and understanding of real-world biomedical engineering applications.
- Students received valuable learning experiences in areas such as biomedical equipment handling, hospital engineering services, healthcare technology management, medical device maintenance, and industrial workflow practices. The internships were carried out at organizations including **Proactive Health Inc., Marengo CIMS Hospital, Cherry Technologies, HG Wellness, Hi-Tech Medical Unit, Honmed Hospital Solution, Mastron Technology, Trisha Multi-speciality Hospital**, and others.
- The internship experience helped students bridge the gap between theoretical knowledge and practical implementation, while also improving their professional communication, teamwork, and problem-solving skills. The department continuously encourages industrial exposure to prepare students for future professional opportunities in the healthcare and biomedical sector.

Result Analysis

SEMESTER	NO OF STUDENTS APPEARED	NO OF STUDENTS PASSED	NO OF STUDENTS FAILED	PERCENTAGE RESULT
1	33	9	24	27.27%
3	45	23	22	51.11%
5	24	20	4	83.33%

SEMESTER	RANK	ENROLLMENT NO.	NAME OF STUDENT	SPI	CPI	CGPA
1	1	246140303006	CHURAKKAT VANSHIKA SUBHASH	8.76	8.76	0
	2	246140303024	PANCHAL PRIYANKA DINESHKUMAR	8.62	8.62	0
	3	246140303001	ANUSHKA ATANU GHOSH	7.43	7.43	0
3	1	236140303040	PATEL MAHEFUJA MUSTAKBHAI	8.71	7.74	8.71
	2	236140303003	CHAUDHARI MAHEK	8.19	7.76	8.19
	3	236140303060	SHAH KHUSHALI AJAYKUMAR	8.05	7.98	8.05
5	1	226140303004	DESAI AASIYA MAKSUDBHAI	9.45	8.33	8.58
	2	226140303006	DOHARE PARMITA HARISH	8.68	8.56	8.52
	3	226140303012	LAHERU HIR ANAND	9.18	8.62	8.46

Faculty Training

Name Of Faculty	Name of Training	Organising Insitute	Duration		No. of weeks	Mode of Trainibng Online/ Off line
			From	To		
RAKESH D. MOTKA	Industrial training	Sigma Surgicals Pvt. Ltd. Ahmedabad	1/7/2024	21/7/2024	3 week	Offline
JIMISHA H. SUTHAR						
AARTI R. DALWADI						
MEGHNA M. PATEL						
NEELAM B. MODI	“Stress Management and Work Life Balance”	Knowledge Consortium of Gujarat, Education Dept., Gandhinagar	18/12/2024	18/12/2024	1 Day	Online
NEELAM B. MODI						

During the academic term June–December 2024, faculty members of the Department of Biomedical Engineering successfully completed industrial training at **Sorath Ortho**, Kathwada GIDC, Ahmedabad. The training provided valuable exposure to the manufacturing processes, design concepts, quality control practices, and applications of orthopedic and rehabilitation products used in healthcare services.

Faculty members gained practical insights into the production and functioning of products such as orthopedic implants, prosthetic and orthotic components, rehabilitation aids, and other medical support devices. The training also helped in understanding industrial standards, workflow management, and real-time applications of biomedical engineering concepts in the medical device industry.

Such industrial exposure enhances the professional knowledge and technical competencies of faculty members, enabling them to incorporate practical and industry-oriented learning experiences into classroom teaching and laboratory practices. The department remains committed to continuous faculty development and strengthening industry–institute interaction for quality technical education.

Editorial board

Faculty Editor:

Ms. Jimisha H. Suthar

Student editors:

Ms. Hir Lehru (semester 5)

Ms. Parmita Dohare (semester 5)

Ms. Rutva Maniyar (semester 3)

Ms. Diya Thakor (semester 3)

- **From the Editorial Desk**

- The Department Newsletter is a reflection of the academic, technical, and co-curricular activities conducted during the term. It showcases the collective efforts, achievements, and learning experiences of students and faculty members of the department.
- Through this newsletter, we aim to encourage creativity, participation, technical awareness, and continuous learning among students. We hope that this edition provides valuable insights into the departmental activities and accomplishments during the academic term June–December 2024.
- We sincerely thank all the contributors, faculty members, students, and coordinators who supported us in making this publication successful.

Quote of the day:

“Biomedical engineering is not only about technology; it is about improving and saving human lives through innovation and compassion.”