



SCHOOL OF ELECTRICAL AND COMMUNICATION

Department of Biomedical Engineering

Inferential Statistics of Interim Feedback Report

Summer Semester

Academic Year 2025-26

This report summarizes the interim student feedback for courses offered in the Biomedical Engineering department during the 2025-26 Summer Semester. The data is derived from the provided feedback forms, covering a total of 33 courses. Courses are categorized into Programme Core, which includes theory, integrated and laboratory courses, Programme Elective, Open Elective, and Foundation courses. Feedback scores were analyzed to investigate whether significant performance differences exist among course types and faculty groups. Comparative analysis across course types is given below:

S. No.	Category	Total Number of Courses	Mean Score
1	Program Core Theory	10	4.36
2	Program Core Laboratory	12	4.54
3	Program Core Integrated	1	4.6
4	Program Elective Theory	6	4.5
5	Program Elective Integrated	1	4.3
6	Open elective	1	3.8
7	Reregistration	2	4.75

Overall, there is strong appreciation for most Programme Core and Programme Elective courses, indicating positive student satisfaction and effective teaching practices in many areas.

Programme Core courses show a wide range (3.0 to 5.0), with lower scores in larger classes (e.g., Biomaterials Applications at 3.0), highlighting the need for better audibility, materials, and evaluation transparency. Programme Electives are consistently high (4.1 to 4.7), suggesting strong faculty engagement in specialized topics.

However, students highlighted a few key improvement opportunities:

- Audibility and clarity need enhancement
- More learning materials and resources requested
- Greater encouragement of interaction and discussion
- Need for better structured and well-organized lecture delivery

These points suggest a focus on improving communication quality, resource accessibility, and pedagogical engagement to further elevate the learning experience.



Open Elective feedback indicates significantly lower scores, suggesting the need for improvement in instructional delivery, resource support, or course relevance to diverse student groups.

Measures to Improve the Feedback Score

- Focus improvement on low-scoring areas by enhancing materials access and explanations.
- Prepare and share weekly lesson plans and learning outcomes so students know expectations, assessment patterns, and progress tracking.
- Include industry examples, hospital case studies, and research insights to help students understand practical relevance and increase interest.
- Introduce short quizzes, polls and real-time feedback tools to maintain attention and check understanding.
- Conduct sessions on study skills, exam anxiety reduction, communication skills, and peer mentoring to support academic performance.
- Organize guest lectures, industrial visits, expert talks, and clinical demonstrations to increase course value perception.
- Take feedback monthly and share feedback outcomes and action plans with students to build trust and show commitment to improvement.

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DEPARTMENT OF BIOMEDICAL ENGINEERING

Summary of Students Feedback Score

(2025-2026 Summer Semester)

Course Code	Course Name	Faculty Name	Score	Registered	Responded
10212BM120	Medical Device Regulatory Affairs	Dr. Balasubramaniam. D	4.7	18	16
10212BM206	Deep Learning Fundamentals	Dr. Masoodhu Banu. N.	4.3	18	12
10211BM305	Digital Signal Processing Laboratory	Dr. Masoodhu Banu. N. M	4.4	24	17
10211BM305	Digital Signal Processing Laboratory	Dr. Masoodhu Banu. N. M	5	2	1
10212BM109	Introduction to Machine Learning	Dr. Saranya	4.5	17	12
10211BM306	Biomedical Instrumentation Laboratory	Dr. Saranya. G	4.5	24	17
10211BM306	Biomedical Instrumentation Laboratory	Dr. Saranya. G	5	2	1
10211BM306	Biomedical Instrumentation Laboratory	Dr. Thiyam Deepa Beeta	4.5	30	21
10211BM101	Anatomy And Human Physiology	Dr. Thiyam Deepa Beeta (RR)	4.9	5	3
10211BM101	Anatomy And Human Physiology	Dr. Thiyam Deepa Beeta	4.1	53	44
10211BM306	Biomedical Instrumentation Laboratory	Dr. Thiyam Deepa Beeta	5	2	1
10212BM107	Robotics in Medicine	Dr. Paramasivam. A	4.6	17	10
10212BM207	Programming Essentials in Python	Dr. Paramasivam. A	4.1	31	28
10211BM203	Biomechanics	Dr. Padmanabha Sarma. A.B.S.K	4.6	50	31
10211BM108	Digital Signal Processing	Dr. Muthalakshmi. M	4.4	52	38
10211BM305	Digital Signal Processing Laboratory	Dr. Muthalakshmi	4.6	28	21



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10211BM108	Digital Signal Processing	Dr. Muthalakshmi. M	5	4	2
10211BM305	Digital Signal Processing Laboratory	Dr. Muthalakshmi. M	5	2	1
10211BM103	Electric Circuit Theory	Dr. Hema. S	4.2	55	45
10211BM302	Analog and Digital Integrated Circuits Laboratory	Dr. Hema. S	4.4	26	21
10211BM110	Biomedical Instrumentation	Dr. Arunachalam. P	4.3	52	38
10211BM302	Analog And Digital Integrated Circuits Laboratory	Dr. Arunachalam. P	3.5	26	23
10210BM101	Biology for Engineers	Dr. Arunachalam. P (RR)	5	1	1
10211BM110	Biomedical Instrumentation	Dr. Arunachalam. P	5	4	2
10212BM105	Introduction to Nanotechnology	Dr. Madeshwari. E	4.5	16	9
10211BM301	Biochemistry and Physiology Laboratory	Dr. Madeshwari. E	4.5	27	21
10211BM301	Biochemistry and Physiology Laboratory	Dr. Madeshwari. E	4.1	27	23
10211BM112	Radiological Equipments	Dr. Kishore Kanna.R	4.6	47	35
10211BM112	Radiological Equipments	Dr. Kishore Kanna.R	5	4	2
10212BM103	Medical Ethics	Dr. Indumathi.R	4.6	19	17
10211BM102	Analog and Digital Integrated Circuits	Dr. Indumathi.R	4	50	44
10213BM104	Medical Instrumentation	Dr. Suresh Kumar.M	3.8	67	47
10211BM113	Biomaterials Applications	Dr. Suresh Kumar.M	3	50	44

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22/11/25

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