



**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

**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.



# Vel Tech

Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

**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.

  
Faculty In-charge/BME

  
HoD/BME  
Dr. D. Balasubramaniam  
Head of the Department  
Biomedical Engineering  
Vel Tech  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

  
DEAN/SoEC  
Dr. R.S. Valarmathi  
Dean - School of Electrical and Communication  
Vel Tech  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)





**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

**SCHOOL OF ELECTRICAL AND COMMUNICATION**

**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        |



# Vel Tech

Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

|            |   |                         |     |    |    |
|------------|---|-------------------------|-----|----|----|
| 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 |

*[Signature]*  
22/11/25  
Faculty In-charge/BME

*[Signature]*  
22/11/25  
HoD/BME  
Dr. D. Balasubramaniam  
Head of the Department  
Biomedical Engineering

**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

*[Signature]*  
22/11/25  
DEAN/SoEC  
Dr. R.S. Valarmathi  
Dean - School of Electrical and Communication

**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)