SETHU INSTITUTE OF TECHNOLOGY

PULLOOR, KARIAPATTI – 626115

(An Autonomous Institution affiliated to Anna University, Chennai)

DEPARTMENT OF BIOMEDICAL ENGINEERING

Stakeholder's Feedback for R2021 Curriculum & Syllabus and its Action Taken

Stakeholder	Feedback	Feedback Analysis	Action Taken
External Faculty			
Dr.S.P.Angeline Kirubha, Associate Professor, Biomedical Engineering, SRM Institute of Science and Technology.	Suggested to add the courses related to practice Design of basic medical equipment (eg. Arduino based)	Basic biomedical equipment design (both theory and Practical) is very essential for Biomedical Engineering Students. It is very helpful for their career and also can fulfill the societal needs in the medical context.	• Embedded Systems and IoMT (both theory and Practical) course is introduced in the 5th semester. Arduino and Raspberry pi based projects included. • One Vertical "Medical Device Innovation and Development" (Contain 6 courses) is introduced in the Professional Elective.
Employer/ Industry Person			
Er. Vinothkumar Kannan Biomedical Engineer, KAV hospital Biomedical Equipment & Education, Madurai.	Suggested to provide based equipment trainings.	Hospital based equipment training is essential for Biomedical Engineering Students. After the successive completion of the training the students can able to handle or troubleshoot the medical equipment very well.	Value added courses are added based on hospital based equipment training.
Faculty			
Dr. N. Kins Burk Sunil Associate Professor	Suggested to include 'Communication Systems' as a core	For better understanding of healthcare communication like wearable devices, Telehealth technology and Body area	A core course 'Communication Systems' is introduces in the semester IV.

Name / Designation	Suggestion	Justification	Resolution
		networks, the knowledge of the course in the basic fundamentals of communication system is necessary.	
Dr. M. Rajalakshmi, Associate Professor	Suggested to include Virtual Instrumentation course as in core.	Virtual instrumentation is an interdisciplinary field that merges sensing, hardware, and software technologies in order to create flexible and sophisticated instruments for control and monitoring applications. Hence the knowledge of virtual instrumentation is very useful to design the medical measuring equipment.	A course 'Virtual Instrumentation' is shifted from elective to Core course in semester V.
Alumni			
R. Poorna Priya, Programmer Analyst, Zifo RnD Solutions (2016-2020 Batch)	Suggested to introduce a course 'Wearable Devices'	Acquired knowledge in the advancements in sensor technology and the ability to make sensors very small, the students can make healthcare wearable devices effectively.	Offered as Core Elective in Vertical - VI
A. Senthil Kumar, Engineer – Regulatory Analyst, TATA ELXSI (2016-2020 Batch)	Suggested to introduce IoT and Cloud based courses	Internet of Things and cloud computing are the emerging concepts in today's scenario. IoT and cloud concepts are very useful for patient monitoring and healthcare delivery system.	• Offered as Core Courses Embedded Systems and IoMT (both Theory and Lab.) • Offered 'Cloud Computing for Biomedical Applications' as industry designed one credit Course.
Student			
S. Harshini (2019-2023 Batch)	Suggested to include Virtual Reality and Augmented Reality	AR/VR applications help the students to enhance their medical training before actual surgeries. These also are a great tool for practitioners to experiment with complicated procedures on virtual human bodies.	Offered as Core Elective in Vertical - VI

G. N. Eeswar (2020-2024 Batch)	Suggested to include Bio Robotics	Using robots in the medical field helps improve patient care, AI-assisted surgery, automation, and real-time patient data analytics. Hence the knowledge of Robotics in healthcare is essential for Biomedical students.	Offered as Core Elective in Vertical - VII

The above feedback is analyzed in the Program Assessment Committee and Department Advisory Board and suitable actions are initiated.

Board Chairperson
Chairperson
Board of Studies
Bio Medical Engineering
Sethu Institute of Technology
Kariapatti - 626 115.