



SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution | Accredited with 'A' Grade by NAAC)

PULLOOR-626005, KARIAPATTI

DEPARTMENT OF BIOMEDICAL ENGINEERING



Stakeholder's Feedback for R2019 Curriculum & Syllabus and its Action Taken


Stakeholder	Feedback	Feedback Analysis	Action Taken
International Faculty			
Dr.Mohamed Yacin Sikkandar, Associate Professor, Department of Medical Equipment Technology, CAMS	Suggested to rename the course 15UBM304 – Biomedical Instruments as 'Biomedical Instrumentation'	Biomedical instrumentation is engineering concerned with devices and mechanics used to measure, evaluate, and treat biological systems. It focuses on using multiple sensors to monitor the physiological characteristics of a human or an animal.	The course name can be changed in R2019 Curriculum.
	Suggested to introduce an one credit course Calibration and Testing of Medical Equipments	The accuracy of the device used in medical field is of prior importance. The need for calibration and testing of medical equipments is of much importance.	A course 'Calibration of Medical Equipments' proposed as one credit course.
	Suggested to include more design platforms such as PCB design, MIMICS etc.	PCB design and other design platforms are included in regular laboratory.	Shall be included as value added course.

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Mr.J. Charles Rajesh Kumar, M.E., M.B.A, (Ph.D.), Lecturer, Dept. of Electrical and Computer Engg., College of Engineering, EFFAT University, Jeddah, S.A.	Suggested to introduce a Course Biomaterials and Artificial Organs.	Biomedical engineers should have wholesome knowledge on biomaterials and artificial organs.	Proposed as a core course in the 7 th semester.
	Suggested to include the topic 'Physiological System modeling'.	Physiological system modeling refers to the development of mathematical models that replicate the behavior of organs and systems.	An elective course 19UBM924 - Physiological Modeling is available.
	Suggested to include the topic 'Embedded systems in Medicine'.	Embedded medical systems consists of hardware and software customized for specific functions in medical devices. Embedded systems is an emerging technology which should be included in the curriculum.	An elective course - 15UBM917 Embedded Systems in Medicine is available.
	Suggested to include the topic 'Bio Fluid Dynamics'.	Biofluid dynamics is considered as the discipline of biomedical engineering in which the fundamental principles of fluid dynamics are used to explain the mechanisms of biological flows and their interrelationships with physiological processes, in health and in diseases/disorder.	An Inter disciplinary courses 19UGM952 - Biofluid Mechanics is available.

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Dr.S.P.Angeline Kirubha, Asst. Prof. (Selection Grade), Department of Biomedical Engineering, SRM Institute of Science and Technology, Kattankulathur, Kancheepuram Dist.	Suggested to introduce an one credit course 'Design of Basic Medical Equipments-Arduino base'	Courses on medical equipment are included in the curriculum.	Shall be included in the value added course.
	Suggested to introduce Biomechanics Lab./ Physiological Modeling Lab./ or any Simulink lab.	Designed to be a practical resource, the text includes guided experiments with simulation models using MATLAB and Simulink.	Simulink or software related laboratory courses are available in the one credit and value added courses.
Faculty			
Dr. K. Kanimozhi	Suggested to introduce a Course Calibration of medical equipments.	The medical equipment/instrument used in hospitals for monitoring and treatment of patients also require calibration in order to have confidence in their functioning and operation.	Shall be introduced as One Credit Course.
	Suggested to include 'Medical ethics'	Medical ethics is an applied branch of ethics which analyzes the practice of clinical medicine and related scientific research.	Medical ethics shall be included in the course Professional ethics
Mr. N. Kinks Burk Sunil	Suggested to introduce a Course Regenerative medicine	Regenerative medicine may be defined as the process of replacing or regenerating human cells, tissues or organs to restore or establish normal function.	Shall be included in the elective course.
Mr. K Kalanidhi	Suggested to introduce a Course Smart healthcare Engineering	Smart healthcare is an emerging field with much scope.	Shall be included in the elective course

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Student			
Parveen Sultanaa F	Introduce subjects such as 1. Dynamics of biofluid 2. Embedded system in medicine 3. Tissue engineering	Considering the suggestion, the subjects can be included in the curriculum	Shall be included in the elective course or core course.
M. Mohamed Razith Farik	Include LABVIEW in professional or elective course.	Labview tool is used to build automated test systems, fast. It will be considered while designing the curriculum.	It can be offered in Program Elective

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


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