SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade "A" by NAAC

ACTION TAKEN REPORT
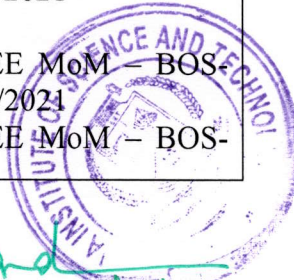# STAKEHOLDER FEEDBACK

2021- 2022

INTERNAL QUALITY ASSURANCE CELL

Action Taken / Curriculum updates based on the Stakeholder Feedback
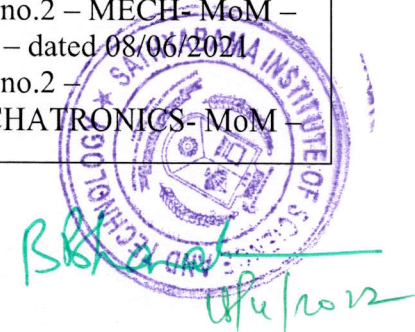**Academic Year 2021-2022**

Stakeholder	Feedback	Name of the School/ Department	Action Taken/Updates	Proof of Record
Alumni, Employers, Faculty, Students	Application based programming knowledge would improve employability	School of Computing	**Revision of courses** 1. Application based Python Programming Lab, Predictive and Advanced Analytics – B.E Computer Science and Engineering with specialization in AI and ML 2. Programming in JAVA – B.Tech Information Technology	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:03 Item no.2- IT- MoM – BOS – dated 10/05/2021
Alumni, Employer	Industries are orienting towards better customer experience. Courses related to Customer Interface Design can be introduced		**New Courses Introduced** Following courses were introduced for B.Tech Information Technology 1. SITA1502 – Customer Interface Design and Development 2. SITA2501 - Customer Interface Design and Development Lab 3. SITA4001 – User Interface Design and Implementation 4. SITA3011 – Block Chain Technologies 5. SITA1503 – Fog and Cloud Computing 6. Universal Human Values, Design Thinking and Innovations – B.E. Computer Science and Engineering	Item no.1 – IT-MoM – BOS – dated 10/05/2021 Item no.2- CSE- MoM – BOS – dated 21/05/2021
Alumni, Employers	Domain specific skills are expected from the industry		The curriculum and detailed syllabus for the following programs were introduced 1. B.E. – CSE with specialization in Artificial	

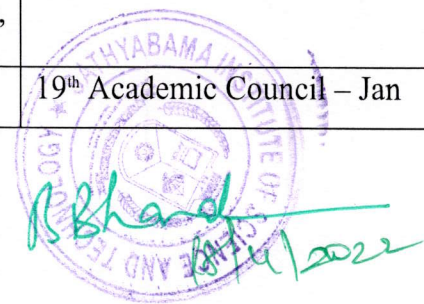|			Intelligence with Robotics 2. B.E. – CSE with specialization in Artificial Intelligence and Machine Learning 3. B.E. – CSE with specialization in Cyber Security 4. B.E. – CSE with specialization in Block Chain 5. B.Sc. – CS with Artificial Intelligence 6. M.Sc. – CS	Item no.1- CSE- MoM – BOS – dated 21/05/2021
Employers, Alumni Faculty, Students	Machine Learning and Deep learning concepts have to be embraced by electronics and electrical branch students to increase placements Courses on sustainability and System design would increase prospects as it is the future market for students	School of Electrical and Electronics	**New Courses Introduced as PBLA** 1. Machine Learning Techniques, Power Electronics, Industrial Robotics and Expert Systems, IoT for Real Time Applications – B.E. Electronics and Communication 2. Deep learning for Computer Vision, Real time system Design, Digital System Design and Verification using System Verilog, Augmented Reality and Virtual Reality, Advanced Electronic Test Engineering, - – B.E. Electronics and Communication Engineering 3. Industry 5.0 for Electronic Engineers, Green Energy Systems - B.E. Electronics and Electrical Engineering **Revision of Courses** 1. Analytical Instrumentation, Industrial Instrumentation – B.E. Electronics and Instrumentation Engineering 2. Telecommunication and Switching Systems, Programming in HDL – B.E. Electronics and Communication Engineering	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:04 Item no.1-5-EE MoM – BOS- dated 07/05/2022, dated 26/11/2021 Item no.1-5-EEE MoM – BOS- dated 03/11/2021 19th Academic Council – Jan 2022 - Item no:AC:21-22-19:04 Item no.3,5-EE MoM – BOS- dated 26/11/2021 Item no.4-EE MoM – BOS- dated 26/11/2021 Item no.4-EE MoM – BOS-

			3. Measurements and Instrument – B.E. Electrical and Electronics Engineering	dated 07/05/2022
			4. Digital Image Processing – B.E. Electronics and Communication Engineering	
Alumni, Students	Exposure to Robotics and its allied instrumentation would improve the employability of the Students.	School of Mechanical Engineering	**New Courses introduced** 1. Design of Heat Exchanges, Universal Human Values - B.E. Mechanical Engineering 2. Lean Enterprises and Advanced Manufacturing Technology - B.E. Mechanical Engineering 3. Micro and Nano Machining - - B.E. Mechanical Engineering, M.E. Computer Aided Engineering 4. SPR1403 Modern Manufacturing Processes, SMR1401 5. Robotics and Machine Vision System, SMR4052 Robotics Lab– B.E. Mechatronics Engineering **Revision of Courses** 1. Industry 4.0, Design and Manufacturing, Mechanics of Machines – B.E. Mechanical Engineering 2. SAEA3001 Theory of Elasticity, SAEA3003 Airframe Maintenance and Repair Practices – B.E. Aeronautical Engineering 3. SME1205 – CAD/CAM – B.E Mechanical Engineering 4. SMR1302 Sensors and Instrumentation, SMRA2601 Sensors and Instrumentation	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:05 Item no.1 – MECH- MoM – BOS – dated 08/06/2021 Item no.1 – MECH- MoM – BOS – dated 18/11/2021 Item no.1,3 – MECHATRONICS- MoM – BOS – dated 18/11/2021 Item no.1 – MECHATRONICS- MoM – BOS – dated 12/06/2021 19th Academic Council – Jan 2022 - Item no:AC:21-22-19:05 Item no.1 – AERO- MoM – BOS – dated 17/12/2021 Item no.2 – MECH- MoM – BOS – dated 08/06/2021 Item no.2 – MECHATRONICS- MoM –

			Lab – B.E. Mechatronics Engineering 5. SMRA2501 Mechatronics and Simulation Lab – B.E. Mechatronics Engineering	BOS – dated 18/11/2021 Item no.2 – MECHATRONICS- MoM – BOS – dated 18/11/2021
Employers, Alumni	Genomic studies and Datascience are predicted as the future in the field of Bioinformatics and Biotechnology	School of Bio and Chemical Engineering	**Revision of Courses** 1. Industry 4.0 as PBLA – B.Tech Chemical Engineering, BioTechnology Engineering, Biomedical Engineering, M.Tech Medical Instrumentation, BioTechnology 2. SBIA1401 Structural Biology – B.Sc BioInformatics and DataScience 3. SBIA1709 Health Informatics – M.SC. Bioinformatics and Datascience 4. SBIA1501 – Modeling of Molecules, SBIA3004 Next Generation Sequencing – B.Sc BioInformatics and DataScience 5. SBIA5101 Structural and Functional Genomics, SBIA7408 Next Generation Sequence Data Analysis – M.SC. Bioinformatics and Datascience	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:06 Item no.2 –BIOINFO- MoM – BOS – dated 29/11/2021 Item no.2 –BIOINFO- MoM – BOS – dated 29/11/2021 Item no.1 –BIOINFO- MoM – BOS – dated 03/07/2021 Item no.2 –BIOINFO- MoM – BOS – dated 03/07/2021
Alumni, Faculty	Planning and Design papers can be given more emphasis on design elements	School of Building and Environment	**Revision of Courses** 1. Industry 4.0 as PBLA– B.E. Civil Engineering, M.E. Structural Engineering 2. History Culture and Built Environment –III, Building Services-I, Climatology, Principles of Site Planning, Computer Aided Architectural Graphics-I, Design Studio III, History Culture and Built Environment –IV, Building Services-II, Design Studio IV, Vernacular Architecture, Computer Aided Architectural Graphics-II	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:07 Item no. –ARCH- MoM – BOS – dated 30/06/2021
Employers,	Digitalization content can be	School of	**Revision of Courses**	19th Academic Council – Jan

Alumni	introduced wherever necessary in science and humanities courses	Science and Humanities	1. SHSA1105- Technical English	2022 - Item no:AC:21-22-19:08
			2. Social Media Creatives, Smartphone and Digital Media Productions, Theatre Arts - B.Sc Visual Communication	Item no.2 –Viscom - MoM – BOS – dated 03/06/2021
Faculty	Customized delivery of basic sciences to engineering students would improve the learning curve		**New Courses Introduced**	
			1. Skill oriented courses based on LOCF – Visual Communication	19th Academic Council – Jan 2022 - Item no:AC:21-22-19:08
			2. SPHA1202 Physics for Information Sciences – all programs from School of Computing except Robotics	Item no.1 –PHY- MoM – BOS – dated 12/06/2021
			3. SPHA1203 Physics for Robotics and Automation – B.E Computer Science and Engineering with specialization in Robotics	Item no.2 –PHY- MoM – BOS – dated 12/06/2021
Alumni, Students	Courses emphasizing real time photography and videography experiences would add value to students learning		4. SPHA1201 Physics for Engineers – All Engineering Departments except CSE, IT	Item no.3 –PHY- MoM – BOS – dated 12/06/2021
			5. Basics of Photography (as a pre-requisite to Elements of Film) – B.Sc Visual Communication	Item no.2 –Viscom - MoM – BOS – dated 03/06/2021
			6. Documentary Film Making, Digital Journalism and Digital Media Productions - – B.Sc Visual Communication	Item no.7 –Viscom - MoM – BOS – dated 03/06/2021
Employers, Alumni	Semester Abroad Programmes provide good exposure and learning experiences to students	School of Management Studies	Semester Abroad Programmes for 42 MBA students in University of Brazil, 2 faculty to Indonesia	60th BOM – Jan 2022 - Item no:60.2