

# **SATHYABAMA**

## **INSTITUTE OF SCIENCE AND TECHNOLOGY**

### **ACTION TAKEN REPORT**

### **STAKEHOLDER FEEDBACK**

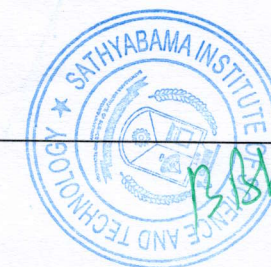
**2020-2021**



**INTERNAL QUALITY ASSURANCE CELL**

**Action Taken / Curriculum updates based on the Stakeholder Feedback  
Academic Year 2020-2021**

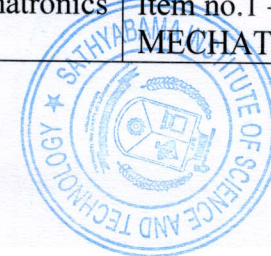
Stakeholder	Feedback	Name of the School/ Department	Action Taken/Updates	Proof of Record
Alumni, Employers, Faculty, Students	Programs on specializations would increase employability	School of Computing	<b>New Courses Introduced</b> 1. All courses for B.E. Computer Science and Engineering Specialisation in Cyber Security, Blockchain 2. Green Computing, Cyber Forensics, Virtualisation Techniques – B.Tech Information Technology 3. Design Thinking and Universal Human Values – B.E.Computer Science and Engineering	59 <sup>th</sup> BOM –Item no.59.4.1  Item no.3-IT-MoM- BOS- dated 08/05/2020  Item no.2-CSE-MoM- BOS- dated 21/05/2020
Faculty	Suggested the inclusion of subjects with hands on lab experiences		<b>Revision of courses</b> 1. AI and Robotics, Object oriented Analysis and Systems Engineering. 2. Programming in Java, Database Management System, Programming in C and C++ 3. Java Programming, Digital Image Processing for real time applications, Machine Learning Techniques were revised as 50% weightage for theory and 50% weightage for laboratory	59 <sup>th</sup> BOM – Item no.59.2  Item no.1-IT-MoM- BOS- dated 08/05/2020  Item no. 59.2 - BOM
Experts, Alumni	Suggested inclusion of Topics on core courses			



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			4. Datacommunication and Computer Networks, Design and Analysis of Algorithms – B.Tech Information Technology	Item no.3-IT-MoM- BOS- dated 14/12/2020
Employers, Faculty, Students	Introduction of Drone technologies and power systems will increase employability	School of Electrical and Electronics	<p><b>Revision of Courses</b></p> <ol style="list-style-type: none"> <li>1. SEC1631 Satellite Communications, AI and Soft Computing, Programming in HDL, Digital signal Processing, Signal and System, Integrated Services Digital Network, MEMS and its Applications, Automatic Speech Recognition – B.E. Electronics and Communication, B.E. Electrical and Electronics</li> <li>2. Antenna and Wave Propagation, Embedded Processors, High Performance Computing, Real Time Data Analytics, Electronic Circuits-I – B.E. Electronics and Communication, B.E. Electrical and Electronics</li> <li>3. Industry 4.0 - B.E. Electrical and Electronics Engineering</li> </ol> <p><b>New Courses Introduced</b></p> <ol style="list-style-type: none"> <li>1. Drone Electronics– B.E. Electronics and Communication Engineering</li> <li>2. Modern Power Converters, Distributed Generation and Microgrids - B.E. Electrical and Electronics Engineering</li> </ol>	<p>Item no.1-7 – EE-MoM- BOS-Dated 01/06/2020</p> <p>Item no.1-5 – EE-MoM- BOS-Dated 28/11/2020</p> <p>Item no.2 – EEE-MoM-BOS- Dated 03/11/2020</p> <p>Item no.7 – EE-MoM-BOS- Dated 28/11/2020</p> <p>Item no.10 – EE-MoM-BOS- Dated 28/11/2020</p>
Faculty, Employers	The students should understand the logic and control of various mechanical	School of Mechanical Engineering	<p><b>New Courses introduced</b></p> <ol style="list-style-type: none"> <li>1. Industry 4.0 – B.E.Mechatronics Engineering</li> </ol>	Item no.1 – MECHATRONICS - MoM-

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	systems		<p>2. SMRA1201 Fundamentals of Automation and Control, SMRA1401 Automation and Programmable Logic Controller, SMRA1402 Signal and Control system- B.E.Mechatronics Engineering</p> <p>3. Design of Heat Exchangers, Universal Human Values - B.E. Mechanical Engineering</p> <p>4. Industry 4.0 Design and Manufacturing, Quality Control and Reliability Engineering - B.E. Mechanical Engineering</p> <p>5. Certification course on Patent filing and Non Destructive Testing - B.E. Mechanical Engineering</p> <p>6. Aircraft Design Project Lab - - B.E. Aeronautical Engineering</p> <p><b>Revision of Courses</b></p> <p>1. SMR1301-Micro Electro Mechanical Systems, SMR1302- Sensors and Instrumentation, SMR1303 PLC and automation - B.E.Mechatronics Engineering</p> <p>2. SMEA1402 - Mechanics of Machines- B.E. Mechanical Engineering</p> <p>3. SAEA1502 Aerospace Propulsion, SAEA1504 Finite Element methods for Aircraft Systems - B.E. Aeronautical Engineering</p> <p>4. Vehicle Body Engineering - B.E. Automobile Engineering</p>	<p>BOS-Dated 27/06/2020 Item no.1 - MECHATRONICS - MoM- BOS-Dated 21/12/2020</p> <p>Item no.1 - MECH - MoM- BOS-Dated 21/12/2020</p> <p>Item no.1 - MECH - MoM- BOS-Dated 16/04/2021</p> <p>Item no.1 - MECH - MoM- BOS-Dated 16/04/2021</p> <p>Item no.1 - AERO - MoM- BOS-Dated 27/06/2020</p> <p>Item no.1,2 - MECHATRONICS - MoM- BOS-Dated 21/12/2020</p> <p>Item no.1 - MECH - MoM- BOS-Dated 21/12/2020</p> <p>Item no.1,2 - AERO - MoM- BOS-Dated 27/06/2020</p> <p>Item no.1 - AUTO - MoM- BOS-Dated 21/12/2020</p>
Employers,	Courses on sensors and	School of	<b>Revision of Courses</b>	

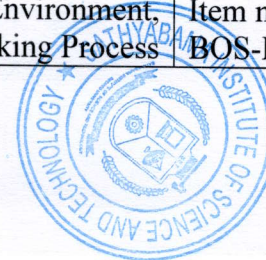
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Alumni	computational methods are the future in the field of Biotechnology and Bioinformatics	Bio and Chemical Engineering	<p>1.Cell Biology and Biochemistry – BSC Bioinformatics</p> <p>2.SCHA1102 Material Sciences – B.Tech Chemical Engineering</p> <p>3.SBTA7006 Advanced Bioinstrumentation – B.Tech Biotechnology</p> <p>4.SBM1301 Biosensors and Measurements, SBMA1404 Radioimaging and Therapeutics, SBMA3004 Analytical Instrumentation – BTech. Biomedical Engineering</p> <p><b>New Courses Introduced</b></p> <p>1. Green Technology, Smart Materials for Industries, Computational and Fluid Dynamics, Industry 4.0, Computational Methods in Chemical Engineering Sciences – B.Tech Chemical Engineering</p> <p>2. SBMA1102 Principles of Biomedical engineering, SBMA3001 Medical Equipment Maintenance and Trouble shooting, SBMA3010 Telehealth Technology, SBMA4009 Human factors in Engineering and Design, SBMA4005 Virtual and Augmented Reality – BTech. Biomedical Engineering</p>	<p>Item no.1 – BIOINFO - MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – CHEM - MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – BIOTECH - MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – BIOMED - MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – CHEM - MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – CHEM - MoM-BOS-Dated 06/01/2021</p> <p>Item no.2 – BIOMED - MoM-BOS-Dated 23/11/2020</p>
Alumni, Faculty	More design oriented courses than architectural courses to be included	School of Building and Environment	<p><b>Revision of Courses</b></p> <p>1. Society, Culture and Environment. SDEA1301 Creative Thinking Process</p>	Item no.2 – ARCH- MoM-BOS-Dated 21/12/2020

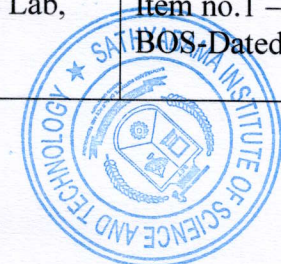
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			<p>ad Methods, Computer Applications I, Materials and Construction I, Interior Services I – B.Architecture</p> <p>2. SMTA5241 Quantitative Techniques, SARA7333 Sustainable Building Practices, Research Methodologies and Building Environment, Climatology and Building Physics, Prethesis, Professional Training – B.Architecture</p> <p>3. Building Services, construction Project Management, Financial Management, Building Management StudioI Training – M.Architecture</p> <p><b>New Courses Introduced</b></p> <p>1. Public Health Engineering – B.E.Civil Engineering</p> <p>2. Industry 4.0 – B.E.Civil Engineering</p> <p>3. SARA5132 Building Energy and Environmental Codes and Standard, SARA6131 Building Performance and Analysis StudioI – B.ARch</p>	<p>Item no.2 – ARCH- MoM-BOS-Dated 01/07/2020</p> <p>Item no.2 – ARCH- MoM-BOS-Dated 01/07/2020</p> <p>Item no.2 – CIVIL- MoM-BOS-Dated 01/02/2021</p> <p>Item no.1 – CIVIL- MoM-BOS-Dated 30/06/2020</p> <p>Item no.2 – ARCH- MoM-BOS-Dated 01/07/2020</p>
Employers, Alumni	More concentration towards communication technologies and languages would improve employability	School of Science and Humanities	<p><b>Revision of Courses</b></p> <p>1. Advanced Photography, Indian Arts, Television Production – B.Sc Visual Communication</p> <p>2. SPSY1405 Effective Leadership – B.Sc Psychology</p> <p>3. DataAnalytics, Data Analytics Lab, Cryptography, Mathematical Modeling, Professional</p>	<p>Item no.1 -VISCOM- MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 -PSYCH- MoM-BOS-Dated 12/06/2020</p> <p>Item no.1 – MATHS- MoM-BOS-Dated 26/06/2020</p>
Faculty	Teaching animation and virtual reality is mandatory			

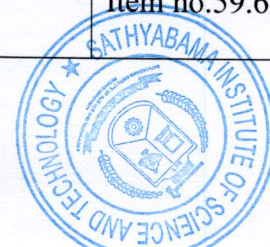
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Alumni, Students			<p>Communication – Mathematics</p> <p>4. American Literature, Indian Writing in English, New Literatures in English - English</p> <p><b>New Courses Introduced</b></p> <p>1. Matrices and Linear Algebra, Applied Statistics, Operations Research – Mathematics</p> <p>2. Body Language and Communication– B.SC. English</p> <p>3. SHSA7002 Research Writing, ICT in Language Teaching , Employability Skills – M.SC. English</p>	<p>Item no.1 – ENGLISH- MoM-BOS-Dated 20/04/2021</p> <p>Item no.1 – MATHS- MoM-BOS-Dated 26/06/2020</p> <p>Item no.1 – ENGLISH- MoM-BOS-Dated 20/04/2021</p> <p>Item no.2 – ENGLISH- MoM-BOS-Dated 20/04/2021</p>
Alumni, Experts	Online degree courses can help learners to upskill	School of Management Studies	<p><b>New course introduced</b></p> <p>All courses for MBA, BBA, BCOM for Online Degree Programmes were introduced</p> <p>10 UGC NSQF skill based programs were imparted through blended learning</p>	<p>Item no.1 – MBA- MoM-BOS-Dated 20/06/2020</p> <p>59<sup>th</sup> BOM- Item no.59.2</p>
Employers, Faculty	Multidisciplinary programs to reach to larger learners in the society	School of Law School of Pharmacy	<p><b>New Courses Introduced</b></p> <p>All courses in B.Com LLB, BBA LLB and LLB Programs</p> <p>All courses under B.Pharm were introduced</p>	<p>58<sup>th</sup> BOM- Item no.58.2</p> <p>59<sup>th</sup> BOM</p>
Faculty	More of Preclinical practice courses to be revised	School of Dental Sciences	<p><b>Revision of Courses</b></p> <p>1. Conservative Dentistry and Endodontics, Orthodontics, Microbiology in Orthodontics - MDS</p>	<p>Item no.1-4 – DENTAL- MoM-BOS-Dated 29/04/2021</p>
Alumni, Faculty and Experts	Experts suggested that the institution to transit towards usage of renewable energy	Others	<p>Courses on Green Technology, Smart materials for Industries are introduced.</p>	<p>Item no. AC:21-22 - 18:06</p> <p>Item no.59.6- BOM</p>

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<p>sources to become more energy sustainable.</p> <p>Experts suggested the inclusion of Universal Human Values as per AICTE requirements.</p> <p>Experts suggested start of online degree courses as per AICTE norms, as the institution has secured top 50 ATAL ranking consecutively for the last 3 years</p> <p>The alumni appreciated the Semester Abroad Programmes(SAP) adding value to student learning experiences. They raised concern on the continuation of SAP due to the travel restrictions in the coming years</p>		<p>Course contents on Medical Robotics and wearable systems for healthcare were modified</p> <p>Online Degree programs were started B.Com., B.Sc., M.B.A., M.A. English, M.Sc. Mathematics</p> <p>SAP programmes and internships were carried out through virtual mode.</p> <ul style="list-style-type: none"> <li>• Department of Mechatronics – 28 Inbound students from Ethiopia</li> <li>• Department of Mathematics – 28 outbound students to University of Malaysia, 2 inbound students from Daffodils university of Bangladesh</li> </ul> <p>Department of MBA – 42 outbound students to University of Brazil</p>	<p>Item no.59.5.10-BOM</p> <p>Item no. 59.4.1 - BOM</p> <p>Item no. 59.5 - BOM</p>
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