



# ST. JOSEPH'S DEGREE & PG COLLEGE

(Autonomous), Affiliated to Osmania University

Re-accredited by NAAC (3<sup>rd</sup> Cycle)

King Koti Road, Hyderabad

## Action Taken Report on Curriculum

**Course: B.Sc Mathematics**

**Academic Year: 2023-24**

### Action Taken Report on Curriculum Feedback from Stakeholders

**Department: Department of Mathematics & Statistics**

**Programme: BSC(MPCs/MECs/MSCs)**

**Academic Year: 2023-24**

**Course: Mathematics**

The feedback on curriculum from different stakeholders was collected and analyzed. Followings are the actions taken on the feedback

S. No	Stakeholder	Structured Feedback	Action taken
1	Students	<ol style="list-style-type: none"><li>1. Create online feedback forms or platforms where students can easily provide input on the mathematics curriculum.</li><li>2. Incorporate questions about the curriculum into course evaluations.</li><li>3. Allow students to express their opinions, ask questions, and suggest improvements.</li><li>4. Inquire about how students perceive the practical applicability of what they are learning in mathematics.</li><li>5. Seek input from students on textbooks, online resources, and materials used in the curriculum.</li></ol>	<ol style="list-style-type: none"><li>1. Two years ago, online feedback forms were implemented and have been administered once per semester for each course.</li><li>2. Questions about the curriculum have been included in course evaluations to gather detailed feedback.</li><li>3. A platform was established for students to express their opinions, ask questions, and suggest improvements.</li><li>4. Surveys were conducted to assess students' perceptions of the practical applicability of their learning in mathematics.</li><li>5. Students' feedback on textbooks, online resources, and materials used in the curriculum was actively sought and</li></ol>

			<p>considered.</p> <p>Additional steps taken:</p> <ul style="list-style-type: none"> <li>- Peer-peer learning groups, flipped classrooms, and activity-based learning were incorporated.</li> <li>- Problem-solving sessions using MATLAB and MATHEMATICA were introduced for practical sessions.</li> <li>- MOOCs and web resources were provided.</li> </ul>
2	Faculty	<p>1. Presenting the course structure and simplification of course codes and Syllabus of B. Sc (MSCs/MPCs/MECs) Mathematics course of First Year Semester - I &amp; II w. e. f. academic year 2023-24.</p> <p>2. Presenting the Evaluation will be based on Blooms Taxonomy changed Internal and External model papers theory pattern w. e. f 2022-23 AY batch</p> <p>3. Presenting list of examiners for discussion and approval.</p> <p>4. More time you compilation of the syllabus</p> <p>5. Need to improve software based practical, Practical component can be done using technical tools</p>	<p>1. It was resolved to approve the B.Sc (MPCs/MECs/MSCs) Mathematics course structures and course codes, and to simplify the syllabus for First Year Semester I &amp; II, effective from the academic year 2023-24.</p> <p>2. It was resolved to approve the evaluation based on Bloom's Taxonomy and the new internal and external model papers theory pattern, effective from the 2023-24 academic year batch.</p> <p>3. It was resolved to approve the panel of examiners for theory and practical examinations.</p> <p>4. A semester-wise almanac was initiated to allow more time for syllabus compilation.</p> <p>5. Problem-solving sessions using MATLAB, MATHEMATICA, and Geogebra were introduced for practical sessions to improve software-based practical components.</p>
3	Alumni	<p>1. Pay particular attention to feedback related to the outcomes of the mathematics program, such as the effectiveness of mathematical concepts learned, problem-solving skills acquired, and preparation for further education or careers in mathematics-related fields.</p> <p>2. Highlight and analyze success stories from alumni who have excelled in their careers or further</p>	<p>1. Internships, value-added certificate courses, and skill enhancement courses are facilitated for interested students.</p> <p>2. Career counseling is conducted through workshops and CRT programs.</p> <p>3. Guest lectures, student workshops, and exhibits are arranged.</p> <p>4. Departmental "Number Nerd's" club activities are organized.</p>

		<p>studies due to their mathematics education. These stories can provide valuable insights into the program strengths.</p> <p>3. Assess feedback regarding the teaching faculty, including their expertise, accessibility, and their ability to inspire a passion for mathematics among students.</p> <p>4. Analyze feedback regarding extracurricular activities related to mathematics, such as math clubs, competitions, or research opportunities. Evaluate whether these activities added value to the program.</p> <p>5. Encourage ongoing engagement with alumni, not just for feedback collection but also for mentoring, guest lectures, and participation in program development.</p>	<p>5. Alumni engagement initiatives have been implemented and are administered once per semester.</p>
4	Employer/ Industry Expert	<p>1. Syllabus is sufficiently relevant to the industry needs, but need to introduce more technical oriented papers</p> <p>2. Focus on problems in each and every course included and make a component in evaluation process also</p> <p>3. Practical work needs to be given greater importance, which enables the students to get acquainted with market needs</p> <p>4. Include certification course in finance as subject in curriculum</p>	<p>1. Conducted industrial visits to align the syllabus with industry needs.</p> <p>2. Collaborated with industry experts to ensure the curriculum is industry-friendly and aligned with the New Education Policy (NEP), focusing on enhancing students' employability and skills.</p> <p>3. Enhanced the importance of practical work by conducting sessions using mathematics software and technical tools.</p> <p>4. Introduced a generic elective course, "Mathematics for Economics and Finance," to provide certification in finance as part of the curriculum.</p>
5	Parent	<p>1. Establish a parent advisory committee specifically for mathematics education</p> <p>2. Share examples of mathematics homework and assignments with parents.</p> <p>3. Include information on areas of</p>	<p>1. Established a digital library with 10 systems available for student use.</p> <p>2. Provided skill-based assignments for individual students.</p> <p>3. Encouraged student participation in</p>

	<p>strength and areas that may need improvement.</p> <p>4. Engage with PTAs to facilitate discussions about curriculum-related matters.</p> <p>5. Act upon the feedback received and communicate the actions taken to address concerns or make improvements. Maintain transparency throughout the process.</p>	<p>various co-curricular activities.</p> <p>4. Conducted parent-teacher meetings once per semester.</p> <p>5. Incorporated mentorship for students and parents.</p>
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