6.5.2 Additional Information

Response:

The IQAC consistently endeavours to evaluate the teaching, learning, and assessment processes, as well as the pedagogical methods and technologies used in their execution. Below are two prominent curricular and assessment projects undertaken by the IQAC:

1. Regular Evaluation of Educational Practices

A) Outcome-Based Education Curriculum:

All 30 programs (undergraduate and postgraduate) provided by the institution are consistent with its vision and mission. To ensure that each learner achieves their anticipated learning outcomes through continuous education, the Curriculum is aligned with Bloom's Taxonomy Levels, providing learners with clarity on Programme Outcomes, Programme Specific Outcomes, and Course Outcomes. Attainment calculations are conducted, with the threshold percentage for CO attainment set at 60% for undergraduate programs and postgraduate programs subjected revision by programme coordinator.

Continuous evaluation of achievement and the introduction of innovative programs/courses are implemented according to needs. The Course Coordinators construct an Action Plan for each course, so enhancing the Formative Assessment Loop to the advantage of both Learners and Lecturers.

B) **Implementation of Course Content** via a Weekly Teaching Plan and Rigorous Compliance with a 90-Day Academic Calendar: In alignment with our IQAC effort, we diligently uphold a 90-day academic calendar to guarantee prompt syllabus completion and an organised educational process.

C) **Complete Online Instruction during COVID-19:** Throughout the COVID-19 epidemic, our institution successfully shifted to online instruction to guarantee the continuity of education.

D) Pedagogical Innovations Utilising Online technologies: To align with ICT-enabled teaching and assessment that meets contemporary educational requirements, the college used numerous online technologies to enhance our instructional methodologies. The IQAC provided directives for using Power Point presentations, integrating platforms such as Google Classroom, Zoom, and interactive digital technologies to enhance student engagement and involvement.

E) Advancement of Experiential Learning: The IQAC's emphasis on experiential learning pave ways to provide students with practical experience that enhances classroom instruction. Students of undergraduate programmes have to undertake **projects throughout one semester in final year**.

F) Self Learning: The curriculum designed to accommodate NPTEL/SWAYAM Courses as a part of completing required credits. Every post graduate student has to complete one or more NPTEL courses to obtain the degree. There by the culture of self learning is improved among the students.

G) Continuous Assessment: The IQAC is crucial in creating a framework that fosters effective evaluation practices and enhances student assessment. Internal examinations are administered on certain regular days. Practical examinations are assessed on continuous mode. All daily practical experiments have weightage in assessment.

H) Institutional Academic Performance Reviews (API): The IQAC developed a mechanism to evaluate the achievement of Academic Performance Indicators of faculty. The varied parameters of this Self-Assessment, exhaustive Appraisal initiative are as follows:

- **Faculty Profile:** comprising Teaching Competency, Workload Attainment, Certificate/Online Courses Completed, MOOCs developed, Participatory Learning Methods used, ICT Technology Used, Membership in BoS and Qualification Updation.

- **Research Output:** Quality publications, Publication of Chapters in Books (ISBN), Books Edited / Authored, PhD Guidance, Research Projects undertaken/ Completed etc.
- **Additional Responsibilities at College Level:** Member of Academic Council, Training & Placement, Hostels, Internal Facilitators, IIC, etc.
- **Additional Responsibilities at Department Level**: Course Coordinator, Coordinator for Association, Events, Value-Added Courses, In-charge of Department Accounts etc.

2. Enhancement of Quality Research

A) Promoting Research Publications:

Faculty and students have been strongly encouraged to participate actively in academic publications. IQAC discuss the issue in various forms for improvement in research publications. Necessary support is provided by the management to the faculty with the initiation of IQAC. The outcome is good.

More than 200 research articles published in reputable databases for top-notch research, including UGC CARE, Scopus, Web of Science, etc., is one example of this. In order to contribute to the global academic conversation, academics are also encouraged to submit their work to foreign publications

B) Research Incentives: By promoting robust research incentives, IQAC is actively helping to create an atmosphere that is focused on research. It works with the management of the university to provide grants, prizes, and funding for creative research initiatives. Additionally, IQAC has created rules that incentivise academics and students who present papers at national and international conferences or publish in reputable publications. 26 papers were awarded with incentives so far and many more under consideration. The institution's academic standards and research output are continuously improved by IQAC, which provides funding for research operations.

C) Seed Money for Research: Providing faculty with seed money to initiate research and encouraging an atmosphere that is driven by research. The institution has

sanctioned seed money projects every year to a maximum amount of 2.0 lakhs per project.

D) **Publications by Students:** By establishing a systematic framework for student research and publishing possibilities, IQAC significantly contributed to the promotion of student publications. In order to support student research initiatives and assist in establishing student-led research publications or contributing to already-existing institutional journals, the cell intends to collaborate with departments.

To make sure students are ready for academic contributions, IQAC has arranged training courses on writing and publishing ethics. This program supports the institution's quality assurance objectives while also improving students' academic experiences. Around 250 articles are published by students in conference procedings.

E) **Authoring Books**: Faculty and students are encouraged to write or co-write books and book chapters in addition to journal articles. In addition to raising its academic standing, these initiatives help the school develop a research and knowledge-sharing culture.

F) **Innovations and Research**

Basically the Arts and Science colleges may not have the potential to do innovations and to undertake research projects or consultancy. But **Parvathaneni Siddhartha College of Arts and Science** has created an ecosystem to publish patents, undertake project and consultancy.

i) **Patents:** The faculty members published 13 patents in different disciplines and granted 2 patents.
ii) **Improvements to Consultancy:** The department of Computer science, Chemistry, Commerce, and Statistics has undertaken consultancy projects related to their domain areas.
iii) **Projects: The** department of Computer science is able complete projects sponsored by the industry.

The institution attempts are underway to enhance consultancy projects and involve students and professors in practical research for industrial cooperation.

G) **Plagiarism Checker:** By putting plagiarism check procedures in place in educational institutions, the Internal Quality Assurance Cell (IQAC) plays a critical role in fostering academic integrity. To guarantee originality, plagiarism checks are required for theses, research articles, and student projects. The cell may teach staff and students the value of academic integrity and the responsible use of sources via seminars and awareness campaigns. IQAC contributed to the preservation of the calibre and legitimacy of research results by incorporating plagiarism detection technologies into the institutional structure.

H) **Support and Development of Faculty:** IQAC consistently requires faculty members to take part in national and international conferences and seminars as well as FDPs. In order to promote professional development and support association participation, the institution also offers financial help to faculty members for attending and planning seminars and Faculty Development Programs (FDPs).

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