



## Report on

### “Strengthening Institutional R&D Through NIRF-Oriented Academic and Research Best Practices: A Strategic Action Plan”

#### Introduction:

In the context of increasing emphasis on institutional quality, research output, and national rankings, higher education institutions are required to align their academic and research practices with national quality frameworks such as NIRF, NAAC, and NBA. Recognizing this need, the **Internal Quality Assurance Cell (IQAC) of Aditya College of Engineering, Madanapalle**, organized a **one-day Faculty Development Program (FDP)** titled “Strengthening Institutional R&D Through NIRF-Oriented Academic and Research Best Practices: A Strategic Action Plan” on **13 January 2026**, from **10:00 AM to 5:00 PM**, at the **Seminar Hall, Room No. 114**. The program aimed to sensitize faculty members to NIRF-oriented academic planning and research best practices, while fostering a strong culture of research, innovation, and continuous quality improvement. Faculty members from various departments actively participated in the program.

#### Objectives of the Program:

The primary objectives of the FDP were to strengthen institutional research and development activities, enhance faculty awareness of **NIRF metrics and ranking methodology**, and align faculty academic and research practices with **NAAC and NBA quality benchmarks**. The program also aimed to motivate faculty members to improve research productivity through quality publications, patents, and funded projects, to encourage effective mentoring of student projects for conversion into journal publications, and to promote innovation-driven student participation in research and intellectual property creation. Additionally, the FDP sought to build faculty competency in understanding NIRF data requirements and application procedures, thereby contributing to institutional preparedness for national rankings and accreditation processes.

#### Program Proceedings:

The inaugural session set the tone for the FDP by emphasizing the critical role of faculty participation in research, innovation, and institutional ranking processes. **Dr. P. Rayudu, Principal**, served as the first resource person and delivered an insightful session on **faculty profile upgradation through research productivity**. He highlighted the importance of consistent publication of quality research papers in reputed and indexed journals, filing of patents, and presentation of papers at national and international conferences. He proposed a structured **three-month action plan** for publishing research papers, wherein the first month is dedicated to literature survey and problem identification, the second month to code development, experimentation, and result generation, and the third month to research paper writing and submission. He further encouraged faculty members to guide student projects effectively, convert them into journal publications, involve students in



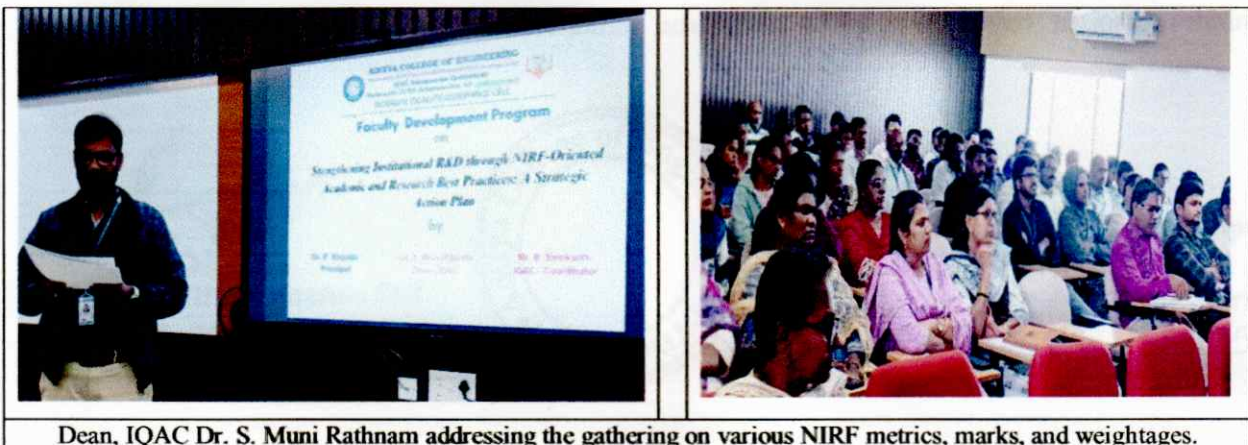


innovation-oriented projects, and promote student participation in research publications and patent filing, thereby strengthening the institutional R&D ecosystem.



Address by Principal Dr. P. Rayudu on improving faculty profiles through research productivity and systematic planning

In the second session, **Dr. S. Muni Rathnam, Dean IQAC**, provided a comprehensive overview of the **NIRF framework**, explaining the five key metrics and their respective weightages, namely **Teaching, Learning and Resources (TLR)**, **Research and Professional Practice (RP)**, **Graduation Outcomes (GO)**, **Outreach and Inclusivity (OI)**, and **Perception (PR)**. He clearly articulated how faculty contributions in teaching, research, student mentoring, outreach activities, and professional practices directly influence institutional NIRF scores and accreditation outcomes. This session enabled faculty members to understand the alignment between individual academic activities and institutional performance indicators as required by **NAAC and NBA**.



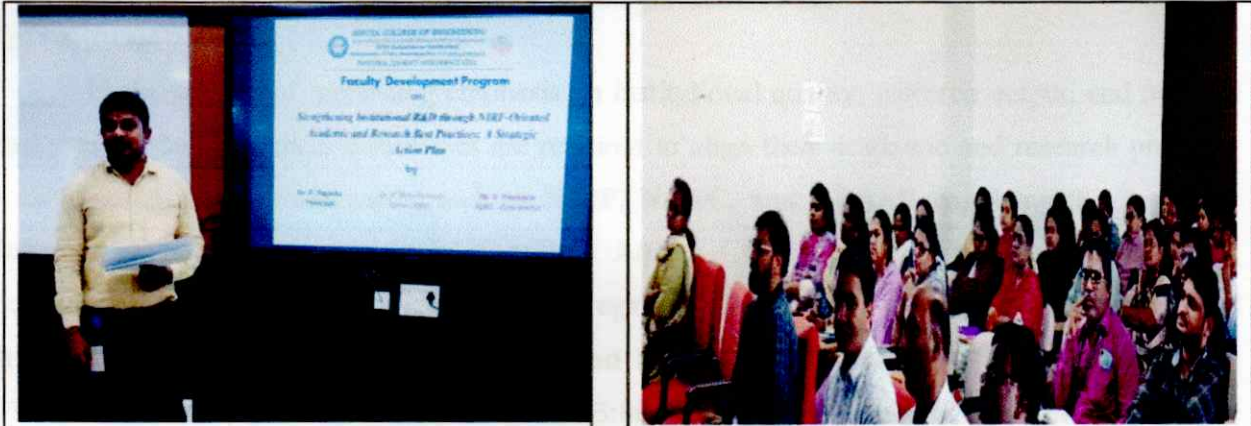
Dean, IQAC Dr. S. Muni Rathnam addressing the gathering on various NIRF metrics, marks, and weightages.

The third session was handled by **Mr. B. Sreekanth, IQAC Coordinator**, who presented an analytical overview of **NIRF Rankings 2025**, including institutional statistics, performance trends, and comparative benchmarks. He also explained the complete procedure for filling the **NIRF 2026 application**, emphasizing the importance of accurate data collection, validation, proper documentation, and timely submission. This session provided faculty members with practical insights





into NIRF data management and compliance, which are essential for institutional quality assurance and continuous improvement.



IQAC Coordinator Mr. B. Sreekanth addressing the gathering on the process of filling the NIRF application

**Conclusion**

Overall, the FDP significantly enhanced faculty awareness of **NIRF-oriented academic and research best practices** and motivated them to actively engage in research, innovation, and student mentoring. The program contributed to strengthening the research culture, improving faculty competency, and promoting continuous quality improvement in alignment with NAAC Criteria 1, 2, 3, and 6 and NBA requirements related to faculty development and outcome-based education. The FDP concluded with interactive discussions and feedback, reaffirming the institution’s commitment to academic excellence, research advancement, and improved national ranking performance.

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