



Significant contributions made by IQAC and the Plan of action chalked out at the beginning of the academic year towards quality and Achievements/ outcomes achieved by the end of the academic year

Throughout the years, the IQAC has implemented various programs focused on faculty development, student engagement, and curriculum enhancement. Key initiatives included workshops, training sessions, online courses, and regular assessments to gauge progress.

Here are the pointwise follow-up actions for the mentioned programs from the year 2018-19:

1. 5 Days Train The Trainer Program by BOSCH India Ltd and MEPSC, Govt of India at Bangalore

- **Feedback Collection:** Gather feedback from participants to assess the effectiveness of the training.
- **Implementation Plan:** Develop a plan for integrating learned methodologies into current training sessions.
- **Follow-Up Sessions:** Schedule follow-up meetings to discuss the application of training in real-world scenarios.
- **Resource Sharing:** Create a repository of materials shared during the program for easy access by participants.
- **Impact Assessment:** Conduct an impact assessment to evaluate improvements in training effectiveness post-program.

2. 8-Week Online NPTEL Course on Remote Sensing and Digital Image Processing of Satellite Data

- **Participant Evaluation:** Assess the performance of participants through quizzes and assignments from the course.




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- **Knowledge Sharing Sessions:** Organize knowledge-sharing sessions where participants present insights from the course.
- **Curriculum Integration:** Explore opportunities to integrate course content into existing academic programs.
- **Continuous Learning:** Encourage participants to pursue further online courses related to remote sensing and digital image processing.
- **Collaboration Opportunities:** Identify potential collaboration opportunities with industry partners in the field of remote sensing.

3. 5 Days FDP on Effective Teaching and Research Methodologies

- **Workshop Feedback:** Collect and analyze feedback from participants to identify strengths and areas for improvement.
- **Action Plan Development:** Create an action plan for implementing effective teaching methodologies discussed during the FDP.
- **Peer Review Process:** Establish a peer review process for faculty to share and refine their teaching strategies.
- **Follow-Up Workshops:** Organize follow-up workshops focusing on specific teaching challenges or methodologies.
- **Resource Compilation:** Compile resources and materials used in the FDP for faculty reference and ongoing development.

These follow-up actions aim to enhance the effectiveness of the training received and ensure continuous improvement in teaching and learning methodologies.



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Here are the pointwise follow-up actions for the programs conducted in the year 2019-20:

1. 4-Week Online NPTEL Course on Python for Data Science

- **Participant Assessment:** Evaluate the performance of participants through completion certificates and feedback forms.
- **Knowledge Sharing Workshops:** Organize workshops where participants can demonstrate projects or insights gained from the course.
- **Curriculum Enhancement:** Explore opportunities to incorporate Python for Data Science into existing curricula or elective courses.
- **Collaboration with Industry:** Facilitate connections with industry professionals to discuss practical applications of Python in data science.
- **Advanced Learning Opportunities:** Encourage participants to pursue advanced courses or certifications in data science and related fields.

2. 5 Days FDP on Art of Writing Research Paper & Solution organized by SVIMS

- **Feedback Analysis:** Collect and analyze feedback from participants to gauge the effectiveness of the FDP.
- **Resource Development:** Compile and distribute a resource guide with key takeaways, templates, and writing tips shared during the FDP.
- **Mentorship Program:** Establish a mentorship program pairing experienced faculty with those looking to enhance their research writing skills.
- **Follow-Up Sessions:** Plan follow-up sessions focusing on specific challenges faced in research paper writing.
- **Research Publication Support:** Create a support system for faculty to collaborate on research projects and publications, fostering a culture of research within the institution.



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These follow-up actions aim to reinforce the learning outcomes of the programs and encourage continuous development in data science and research writing.

Here are the pointwise follow-up actions for the programs conducted in the year 2020-21:

1. NPTEL-AICTE FDP: Introduction to Research

- **Participant Feedback Collection:** Gather detailed feedback from participants to evaluate the effectiveness of the FDP.
- **Research Collaboration Initiatives:** Encourage participants to form research groups or collaborations to work on projects together.
- **Resource Sharing:** Distribute a compilation of resources, including research methodologies, tools, and recommended readings discussed in the FDP.
- **Continued Learning Opportunities:** Promote further training in specialized research areas or advanced research methodologies.
- **Webinar Series:** Organize a series of webinars featuring guest speakers on various research topics to sustain interest and learning.

2. FDP on Communication and Presentation Skills During Pandemic Period

- **Skill Assessment:** Conduct a follow-up assessment to evaluate improvements in participants' communication and presentation skills.
- **Peer Feedback Sessions:** Establish peer feedback sessions where participants can practice and receive constructive critiques on their presentations.
- **Resource Compilation:** Create a resource guide with tips, tools, and best practices for effective communication and presentations, tailored for online formats.
- **Online Practice Workshops:** Schedule regular online workshops for participants to practice their skills in a supportive environment.




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- **Evaluation and Improvement:** Set up a system for participants to share their experiences and challenges in applying the skills learned, fostering a culture of continuous improvement.

These follow-up actions aim to reinforce the learning experiences from the FDPs and support ongoing development in research and communication skills.



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Here are the pointwise follow-up actions for the programs conducted in the year 2021-22:

1. FDP on Artificial Intelligence and Machine Learning

- **Feedback Collection:** Gather participant feedback to evaluate the effectiveness and relevance of the FDP content.
- **Hands-On Workshops:** Organize hands-on workshops where participants can implement AI and ML concepts in real-world projects.
- **Project Collaboration:** Facilitate opportunities for participants to collaborate on research or projects related to AI and ML.
- **Advanced Learning Paths:** Encourage participants to pursue advanced courses or certifications in AI and ML to deepen their expertise.
- **Industry Interaction:** Arrange guest lectures or webinars with industry experts to discuss the latest trends and applications in AI and ML.

2. NPTEL-AICTE Faculty Development Program (Communication Networks)

- **Performance Evaluation:** Assess participants' understanding through quizzes and discussions based on the course material.
- **Resource Sharing:** Distribute course materials and additional resources related to communication networks for faculty reference.
- **Follow-Up Discussions:** Organize discussion sessions to share insights and applications of communication networks in current research and teaching.
- **Curriculum Integration:** Explore ways to integrate updated content from the FDP into existing courses on communication networks.
- **Networking Opportunities:** Facilitate networking among participants to foster collaboration on research and projects in communication networks.



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3. 5 Days FDP on Recent Trends in Engineering & Technology Organized by SVIMS

- **Feedback Analysis:** Collect and analyze feedback to identify strengths and areas for improvement in the FDP.
- **Trend Implementation Plan:** Develop a plan for integrating the latest trends discussed in the FDP into the curriculum and teaching practices.
- **Faculty Research Groups:** Form research groups focusing on specific trends in engineering and technology to encourage collaboration and innovation.
- **Continuous Learning Sessions:** Organize follow-up sessions or workshops that dive deeper into specific trends or technologies introduced during the FDP.
- **Guest Speaker Series:** Initiate a series of talks by experts in engineering and technology to keep faculty updated on ongoing developments.

These follow-up actions aim to enhance the knowledge gained from the FDPs and foster a culture of continuous improvement and collaboration among faculty members.



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Here are the pointwise follow-up actions for the programs conducted in the year 2022-23:


1. 12-Week Course on Foundation of Classical Electrodynamics from SWAYAM-NPTEL

- **Feedback Collection:** Gather feedback from participants to evaluate course effectiveness and areas for improvement.
- **Knowledge Sharing Sessions:** Organize discussions or presentations where participants can share key learnings and applications of classical electrodynamics.
- **Integration into Curriculum:** Explore opportunities to incorporate relevant topics from the course into existing physics or engineering curricula.
- **Advanced Learning Opportunities:** Encourage participants to pursue further courses in advanced topics related to electrodynamics or related fields.
- **Peer Support Network:** Establish a network for participants to discuss challenges and share resources related to teaching classical electrodynamics.

2. Exploring Dynamics of National Education Policy 2020 Concerning NAAC Perspectives

- **Follow-Up Workshops:** Organize workshops to delve deeper into the implications of NEP 2020 for institutional practices and NAAC accreditation.
- **Action Plan Development:** Create an action plan to align institutional strategies with the objectives outlined in NEP 2020 and NAAC guidelines.
- **Feedback and Suggestions:** Collect suggestions from faculty on how to effectively implement NEP recommendations within the institution.
- **Collaboration Opportunities:** Facilitate discussions on collaboration among departments to support NEP implementation goals.




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- **Regular Updates:** Keep faculty informed about any developments or updates related to NEP 2020 and NAAC requirements.


3. Outcome Based Education & Attainment of CO

- **Evaluation of CO Attainment:** Conduct a thorough evaluation of the current state of Course Outcome (CO) attainment within the institution.
- **Workshops on OBE:** Organize workshops focusing on best practices in implementing Outcome Based Education across different programs.
- **Curriculum Review Sessions:** Schedule curriculum review sessions to align learning outcomes with program objectives.
- **Faculty Training:** Provide additional training sessions for faculty on designing assessments that effectively measure CO attainment.
- **Continuous Improvement Mechanism:** Establish a mechanism for continuous feedback and improvement regarding OBE practices.

4. Bosch-BRIDGE Advanced Train the Trainers Program (Online)

- **Impact Assessment:** Assess the impact of the training on participants' training methodologies and effectiveness.
- **Resource Sharing Platform:** Create a platform for trainers to share resources, materials, and experiences gained from the program.
- **Mentorship Initiatives:** Pair experienced trainers with new participants to support the implementation of training techniques.
- **Follow-Up Sessions:** Schedule regular follow-up sessions to discuss the application of training methodologies in real-world scenarios.
- **Evaluation of Training Programs:** Encourage participants to evaluate and improve their training programs based on insights gained from the Bosch-BRIDGE program.




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5. 7 Days FDP on Data Analysis Using Machine Learning Software


- **Feedback and Improvement:** Collect feedback from participants to evaluate the FDP's content and effectiveness.
- **Hands-On Projects:** Encourage participants to work on real-world data analysis projects using machine learning software learned during the FDP.
- **Knowledge Sharing Forums:** Organize forums for participants to present their projects and share insights on challenges faced.
- **Continued Learning Opportunities:** Promote additional courses or workshops in advanced data analysis and machine learning techniques.
- **Collaborative Research Initiatives:** Facilitate collaborative research projects that utilize machine learning for data analysis.

6. 5 Days Faculty Development Programme (FDP) on Teaching Pedagogy and Research Methodology in Contemporary Times

- **Curriculum Review:** Assess the incorporation of effective teaching pedagogy and research methodologies into existing courses.
- **Mentorship and Support:** Establish a mentorship system to support faculty in implementing new teaching strategies and research practices.
- **Follow-Up Workshops:** Schedule follow-up workshops to address specific challenges or topics that emerged during the FDP.
- **Resource Development:** Create a resource bank of teaching and research tools introduced during the FDP for faculty use.
- **Peer Review Process:** Implement a peer review process for teaching methods and research proposals to encourage collaborative improvement.

These follow-up actions aim to reinforce the knowledge gained from the programs and promote continuous improvement in teaching, research, and overall educational practices within the institution.




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