

# Department of Physics

## Khatra Adibasi Mahavidyalaya

Plan of Action A.Y 2020-21

The comprehensive plan of action for the Department of Physics at Khatra Adibasi Mahavidyalaya, a general undergraduate degree college, affiliated to Bankura University for the academic sessions for 2018-19 involves several key components: academic planning, faculty development, infrastructure improvement and student engagement.

Below is a detailed plan of action:

Plan of Action	Details of the Plan	Achieved or not	Reason/Remarks
1. Student Orientation/Induction programme for fresher students	<p>The Department of Physics at Khatra Adibasi Mahavidyalaya is aiming in collaborating with the Mathematics and Chemistry departments to organize Student Induction Programme</p> <p>a) The orientation program aims to familiarize students with the college environment, including its facilities such as the hostel, labs, library, and gymnasium. It also provides a brief overview of the college website.</p> <p>b) The orientation program encourages interaction among students, faculty members, and peers to foster a sense of community within the college.</p> <p>c) It includes an overview of the curriculum, emphasizing the Choice Based Credit System (CBCS) pattern, evaluation methods like Cumulative Grade Point Average (CGPA) and Semester Grade Point Average (SGPA), and information on the feedback mechanism for continuous improvement.</p> <p>d) The program encompasses various social activities organized through National Service Scheme (NSS) and National Cadet Corps (NCC), along with extracurricular and cultural events to encourage holistic development.</p> <p>e) Lastly, the orientation program provides a platform to address any queries or concerns new students may have, ensuring a smooth transition into college life &amp; the CO PO &amp; PSO of the Course.</p> <p><a href="https://kamv.ac.in/course_outcome.php">https://kamv.ac.in/course_outcome.php</a></p>	Partially Achieved	Reason for collaboration: At Khatra Adibasi Mahavidyalaya in Khatra, Bankura, a tribal belt; where most of the students are the first generation learners and there are few students studying physics and science. This low enrollment highlights the need for enhanced outreach and support to encourage greater participation in these critical fields, aiming to uplift and empower the local tribal community through science education. But the nearby School have less number of students those are studying Science. Still the Department is hopeful for a change of such

			situation in near future.
2. Curriculum Module Allocation	<p>a) The department adheres to the curriculum and syllabus outlined by the affiliating university (Bankura University). Each semester's syllabus is organized into modules, ensuring that the prescribed syllabus is covered thoroughly. Department of Physics All the topics are to taught by highly overload Two full-time faculties (Assistant Professor) managing all the allocated classes proportional to the prescribed credits for each paper.</p> <p>b) The division of syllabus into modules and the unitization of syllabus are meticulously planned prior to the start of classes, and they are implemented in a systematic manner.</p> <p>c) Additionally, Course Outcomes, Program Outcomes, and Program Specific Outcomes are formulated as part of the academic framework.</p> <p><a href="https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=2">https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=2</a></p>	Achieved	Department of Physics All the topics are to taught by a highly overload Two full-time faculties (Assistant Professor) Dr. Siddhartha Sinha and Dr. Arindam Chakrabarti (joined 17.12.2019) managing all the allocated classes proportional to the prescribed credits for each paper.
3. Mentorship Programme	<p>The Department was aiming implementing a mentor-mentee allotment program in the Department of Physics at Khatra Adibasi Mahavidyalaya is to provide personalized academic guidance, improve student engagement and performance, distribute faculty workload effectively, and create a supportive learning environment that fosters academic and personal growth for students.</p> <p><a href="https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=9">https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=9</a></p>	Achieved a structured Mentorship Programme and documentation.	Two full-time faculties (Dr. Siddhartha Sinha and Dr. Arindam Chakrabarti) are carrying out the Mentorship Programme
4. Maintenance of Student Attendance Register	Attendance is recorded daily in the Student Attendance Registers.	Achieved	Offline documentation Failed due to COVID-19 Pandemic situation. However, online attendance has been recorded.
5. Continuous Assessment	The Department conducts continuous assessment by providing them assignments after every class apart from scheduled IA examinations.	Achieved	Those were done through online mode via college ERP and Google Meet online platform
6. Syllabus Completion	It is hardly possible for completing the syllabus of all three-year students in association with a single faculty member. However, anyhow the syllabus for all courses in the undergraduate program is to be completed within the allocated time frame.	Achieved	Those were done through online mode.
7. Laboratory upgradation	To build the remaining Laboratory set-ups for the second-year and 3 <sup>rd</sup> year students. A part of <b>RUSA 2.0 Grant</b> were to be mobilized for upgradation of Physics Laboratory.	Already Partially achieved in	Failed due to COVID-19 Pandemic situation

<p>8. Faculty development programme/Seminar/Workshop/Orientation Programme/Faculty Induction Programme</p>	<p><b>Seminar to attend: Participant: Dr. Arindam Chakrabarti</b></p> <table border="1" data-bbox="734 181 1552 995"> <tr> <td>1</td> <td>1-day International Webinar</td> <td><b>Nano Science and its Applications</b></td> <td>Department of Physics, <b>Bankura Christian College</b>, Bankura</td> <td>19.10.2020</td> </tr> <tr> <td>2</td> <td>1-day National Webinar</td> <td><b>Advances of Modern Physical Science</b></td> <td>Department of Physics under the aegis of <b>IQAC, Panchmura Mahavidyalaya</b>, Bankura</td> <td>14.09.2020</td> </tr> <tr> <td>3</td> <td>4-day International Webinar</td> <td><b>International Webinar on Basic and Advanced Physics-2020</b></td> <td>Department of Physics, <b>Bankura University</b>, Bankura</td> <td>24.08.2020 to 27.08.2020</td> </tr> <tr> <td>4</td> <td>2-day National Webinar</td> <td><b>NAAC Assessment and Accreditation Process</b></td> <td><b>IQAC &amp; Academic Council, St. Xavier's College</b>, Kolkata</td> <td>30.07.2020 to 31.07.2020</td> </tr> <tr> <td>5</td> <td>2-day National Webinar</td> <td><b>Gender Matters: Texts and Contexts</b></td> <td>Department of English and <b>IQAC, Khatra Adibasi Mahavidyalaya</b>, Bankura</td> <td>22.07.2020 to 23.07.2020</td> </tr> <tr> <td>6</td> <td>1-day State Level Webinar</td> <td><b>Administrative Affairs Thrusting Upon Promotion of College Teachers / Librarians Under CAS</b></td> <td>Teachers' Council &amp; <b>IQAC, City College</b>, Kolkata</td> <td>11.07.2020</td> </tr> </table> <p><b>Organized 1 -day state level webinar: Organized: Jt. Convener: Dr Arindam Chakrabarti with Dr. Siddhartha Sinha</b></p> <table border="1" data-bbox="734 1078 1738 1386"> <tr> <td>1</td> <td>1-day State Level Webinar</td> <td><b>"EXPLORING SCIENCE : ITS BEAUTY AND NECESSITY"</b> <a href="https://www.youtube.com/watch?v=t1_bG5cBWIA&amp;t=2222s">https://www.youtube.com/watch?v=t1_bG5cBWIA&amp;t=2222s</a></td> <td>Department of <b>Mathematics, Physics and Chemistry</b> under the aegis of <b>IQAC, Khatra Adibasi Mahavidyalaya</b>, Khatra, Bankura</td> <td>20.09.2020</td> </tr> </table> <p><b>Faculty Development Programme: Participant: Dr. Arindam Chakrabarti</b></p>				1	1-day International Webinar	<b>Nano Science and its Applications</b>	Department of Physics, <b>Bankura Christian College</b> , Bankura	19.10.2020	2	1-day National Webinar	<b>Advances of Modern Physical Science</b>	Department of Physics under the aegis of <b>IQAC, Panchmura Mahavidyalaya</b> , Bankura	14.09.2020	3	4-day International Webinar	<b>International Webinar on Basic and Advanced Physics-2020</b>	Department of Physics, <b>Bankura University</b> , Bankura	24.08.2020 to 27.08.2020	4	2-day National Webinar	<b>NAAC Assessment and Accreditation Process</b>	<b>IQAC &amp; Academic Council, St. Xavier's College</b> , Kolkata	30.07.2020 to 31.07.2020	5	2-day National Webinar	<b>Gender Matters: Texts and Contexts</b>	Department of English and <b>IQAC, Khatra Adibasi Mahavidyalaya</b> , Bankura	22.07.2020 to 23.07.2020	6	1-day State Level Webinar	<b>Administrative Affairs Thrusting Upon Promotion of College Teachers / Librarians Under CAS</b>	Teachers' Council & <b>IQAC, City College</b> , Kolkata	11.07.2020	1	1-day State Level Webinar	<b>"EXPLORING SCIENCE : ITS BEAUTY AND NECESSITY"</b> <a href="https://www.youtube.com/watch?v=t1_bG5cBWIA&amp;t=2222s">https://www.youtube.com/watch?v=t1_bG5cBWIA&amp;t=2222s</a>	Department of <b>Mathematics, Physics and Chemistry</b> under the aegis of <b>IQAC, Khatra Adibasi Mahavidyalaya</b> , Khatra, Bankura	20.09.2020	<p>18-19 &amp; 19-20 session. Achieved</p>	<p>Participant: Dr. Siddhartha Sinha &amp; Dr. Arindam Chakrabarti</p>
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	1	1-week <b>Faculty Development Programme on Learning Management Systems and Open Educational Resources</b>	<b>IQAC and Science</b> Departments of <b>Krishna Chandra College</b> under the aegis of <b>DBT-STAR College Scheme, Department of Biotechnology, Ministry of Science and Technology, Govt. of India.</b>	Multidisciplinary	04.11.2020 to 10.11.2020		
	<a href="https://kamv.ac.in/naac/ssr_dvv/1710934194_6.3.3%20DVV_compressed.pdf">https://kamv.ac.in/naac/ssr_dvv/1710934194_6.3.3%20DVV_compressed.pdf</a>						
9. E- Content developement	The contents are to be sent to the website sub-committee of Khatra Adibasi Mahavidyalaya for uploading the documents to the college website.					Partially Achieved	By Dr. Siddhartha Sinha & Dr. Arindam Chakrabarti
10. Cocurricular activities	Department took responsibility in collaboration with department of Chemistry, Bengali, History and NTS members to maintain the ECO-Club. Aim: Sapling Plantation, Estimation of Flora & Fauna Species & their counting and preservation.					Partially Achieved	The Department took part actively in archiving the different Flora Species and an quantitative analysis including the tagging of each.
11. Academic Audit	Failed due to COVID-19 Pandemic situation. The aim of an academic audit in the Department of Physics at Khatra Adibasi Mahavidyalaya is to evaluate the effectiveness of academic programs, ensure quality education, identify areas for improvement, enhance faculty performance, and ensure that educational standards and institutional goals are being met. This is to be done in next session.					Achieved	Documented, but failed due to COVID-19 Pandemic situation & finally will be audited in next session.
12. Student support	The Department of Physics at Khatra Adibasi Mahavidyalaya is aiming in collaborating with the Mathematics and Chemistry departments to organize motivational seminars and career counselling sessions. These seminars and webinars will be conducted / organized to inspire students, to provide career guidance, and to foster interdisciplinary connections, to enhance overall academic and professional development for all participants.					Partially Achieved	Failed due to COVID-19 Pandemic situation
	<a href="https://kamv.ac.in/career_guidance.php">https://kamv.ac.in/career_guidance.php</a>						

13. Perspective plan	Department has a novel long-term perspective plan for running the present and future curricular and cocurricular activities. <a href="https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=11">https://kamv.ac.in/dept_contents.php?did=12&amp;item_id=11</a>	Started, yet to achieve.	Updated Perspective Plan has been posted in the respective Tab in the Departmental profile in the college website
14. Energy Audit (Physics Lab.)	Department is trying to expose an estimation of energy consumed by the Physics Lab experiments.	Partially Archived	Finally failed due to COVID-19 Pandemic situation