

Department of Physics

Khatra Adibasi Mahavidyalaya

Plan of Action A.Y 2019-20

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 freshers	<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 & the CO PO & PSO of the Course.</p> <p>https://kamv.ac.in/course_outcome.php</p>	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
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. But for the Department of Physics all the topics were to taught by a highly overload -single full-time faculty compromising with the allocated classes for 1st half of the session with the proportional credits for each paper. Later Another faculty joined against a new post creation for running the Department of Physics.</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>	Achieved	The Department of Physics all the topics were to taught by a highly overload -single full-time faculty (Dr. Siddhartha Sinha) managing the maximum possible classes with the allocated credits for each paper in the first half of the session. On 17.12.2019 Dr. Arindam Chakrabarti joined as Full time faculty and shared the load to complete the syllabus timely. Still the faculties are overloaded (will

	https://kamv.ac.in/dept_contents.php?did=12&item_id=2		have to take classes with double load).
3. Mentorship Programme	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. https://kamv.ac.in/dept_contents.php?did=12&item_id=9	Yet to achieve a Mentor-Mentee structure	Expected to be done from the next academic session.
4. Maintenance of Student Attendance Register	Attendance is recorded daily in the Student Attendance Registers.	Achieved	
5. Continuous Assessment	The Department conducts continuous assessment by providing them assignments after every class apart from scheduled IA examinations.	Achieved	
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.	Partially achieved	The Department of Physics all the topics were to taught by a highly overload -single full-time faculty (Dr. Siddhartha Sinha) managing the maximum possible classes with the allocated credits for each paper.
7. Laboratory upgradation	To build the Laboratory set-ups for the second-year and 3 rd year students. A part of RUSA 2.0 Grant is to be mobilized for upgradation of Physics Laboratory. (approved by Nodal Officer/Coordinator Dr. Md. Asif Iqbal and Teacher-in Charge Dr. Parthasarothi Hati)	Partially achieved	Physics new Set-ups introduced: <ol style="list-style-type: none"> 1. To verify the Stefan's law of radiation & determination of Stefan's constant 2. Panel board for Amplitude Modulation and Demodulation. 3. To determine Plank's constant using LED of 4 different colours. 4. To Draw B-H curve of Fe using Solenoid and to determine hysteresis loss. 5. To measure the dielectric constant of a dielectric material with frequency. Equipment & parts: <ol style="list-style-type: none"> 1. Small Resistances (1-2 ohm) 2. Fractional resistance box (0.1 ohm – 10 ohm)

			Very large resistance box (upto Mega ohm)
8. Faculty development programme/Seminar/Workshop/Orientation Programme/Faculty Induction Programme	<ol style="list-style-type: none"> 1. 126-th Orientation Programme, Calcutta University, August 30- to September 20, 2019. 2. 1-day Regional Orientation-Workshop: Regional Orientation-Workshop with Dignitaries and Participating Institutes (PIs) of West Bengal, UBA 2.0 organized by IIT, Kharagpur, West Bengal on 18.02.2020. Faculties were to attend these. <p>https://kamv.ac.in/naac/ssr_dvv/1710934194_6.3.3%20DVV_compressed.pdf</p>		Participant (Sequential) : <ol style="list-style-type: none"> 1. Dr. Siddhartha Sinha from Department of Physics 2. Dr. Arindam Chakrabarti from Department of Physics
9. E- Content developement	<p>Few E- Content developed by Dr. Siddhartha Sinha, those are to be sent to the website sub-committee for uploading to the college website.</p> <p>https://kamv.ac.in/dept_contents.php?did=12&item_id=7</p>	Yes	Prepared by Dr. Siddhartha Sinha
10. Cocurricular activities	Yet to conduct and plan.	Yet to achieve	
11. Academic Audit	<p>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.</p> <p>https://kamv.ac.in/dept_contents.php?did=12&item_id=4</p>	Achieved	
12. Student support	<p>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.</p> <p>https://kamv.ac.in/career_guidance.php</p>	Yet to achieve	
13. Perspective plan	<p>Department has a novel long-term perspective plan for running the present and future curricular and cocurricular activities.</p> <p>https://kamv.ac.in/dept_contents.php?did=12&item_id=11</p>	Partially achieved	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.	Yet to achieve	That will be done after a moderate upgradation of the Physics Laboratory..