



# **Khatra Adibasi Mahavidyalaya**

**Khatra, Bankura, West Bengal**

**Department of Physics**

**Academic Audit: 2022-23**




# Academic Audit of Department of Physics

Period of Audit: 2022-23

## I - COLLEGE PROFILE (To be filled in by the IQAC Coordinator)


1	Name of the Department, Website, email and Ph. No.	Department: Physics E-mail: <a href="mailto:phys.arindam@kamv.ac.in">phys.arindam@kamv.ac.in</a> Mobile No: 8697342455				
2	Name of the HOD, email & Mob. No.	Name: Dr. Arindam Chakrabarti E-mail: <a href="mailto:phys.arindam@kamv.ac.in">phys.arindam@kamv.ac.in</a> Mobile No: 8697342455				
3	Name of the IQAC Coordinator, email & Mob. No.	Name: Dr. Arindam Chakrabarti E-mail: <a href="mailto:phys.arindam@kamv.ac.in">phys.arindam@kamv.ac.in</a> Mobile No: 8697342455				
4	Year of Establishment/ Year of Affiliation	2008: General Course under Burdwan University (BU); (Intake Capacity 40) 2017: Honours & Program Courses under Bankura University (BKU); (Intake Capacity 20)				
5	NAAC Grade with Cycle, Accredited Year (if not Accredited Status of Preparations)	Grade B+ (2.64) Cycle 2, 2016				
6	UGC Recognition (2F & 12 B)	YES				
7	Departmental Working Hours	10.00 a.m-5.00 p.m (Monday to Saturday)				
8	No. of Posts Sanctioned for the Department and Present Strength of the Department: (Annexure 1)		Govt. Approved Sanctioned teaching post	Present strength		
		Full time Teacher:	02	02		
		Govt. approved SACT:	00	00		
		Invitee Lecturer:	NA	Nil		
9	Course wise & Year wise Registered Students	No. of Students Honours {Progam}	Year	1 <sup>st</sup> Sem	3 <sup>rd</sup> Sem	5 <sup>th</sup> Sem
			2022-2023	02{00}	06{01}	05{01}
	Passed Students in 2023		Appeared in the Final Year Exam		05{01}	
			Passed (Exit Batch in 2023)		01{00}	




II- CURRICULAR ASPECTS(with Attachments)	Session	Statement	Impression/Recommendation/ Remark by Academic Advisors	Status
1 Departmental Annual Curricular Plans	22-23	<p>Distribution of syllabus in modules and unitization of syllabus were prepared well before the commencement of classes and executed in a planned and systematic manner (<b>Annexure 4</b>). Departmental meeting regarding the distribution of the syllabus of odd semesters was held on 15/07/2022. PO, CO &amp; PSO were also formulated (<b>Annexure 3</b>). Departmental meeting regarding the distribution of the syllabus for even semesters was held on 17/03/2023. PO, CO &amp; PSO were also formulated (<b>Annexure 3</b>).</p>		



2	Departmental Activities and Records of students' and Teachers' participation for the Academic Year	<p>All classes are taken in <b>offline mode</b>. Classes for 3<sup>rd</sup> &amp; 5<sup>th</sup> semester begins from 27.07.2022. 1<sup>st</sup> semester classes begin from 19.09.2022. Classes are suspended from 28.01.2023.</p> <p>Classes for 4<sup>th</sup> &amp; 6<sup>th</sup> semesters start from 20.03.2023, and for 2<sup>nd</sup> semester students, classes start from 23.03.2023 &amp; are suspended on &amp; from 26.06.2023.</p> <p>Classes from 17.04.23 to 22.04.23 were taken in <b>online mode</b>, as the college remained closed in the said period due to prevailing <i>heat-wave</i>.</p> <p>IA for 3<sup>rd</sup> &amp; 5<sup>th</sup> semester students were however held in the period from 10/11/2022 to 12/11/2022. For 1<sup>st</sup> semester students IA was held on 07/12/2022 and 08/12/2022.</p> <p>IA for 2<sup>nd</sup> , 4<sup>th</sup> &amp; 6<sup>th</sup> semester students were held in the period from 03/05/2023 to 08/05/2023.</p>		
3	Add-on/Certificate Courses completed during Academic Year	NIL		
4	Coverage of Syllabus (Average Percentage)	100% syllabus is covered for all courses of UG program within the stipulated time period. Records are kept in the individual Teacher's Diary. 3 <sup>rd</sup> semester classes began on 27/07/2022, syllabus was completed on 27/01/2023 and classes were dissolved on the same day. 4 <sup>th</sup> & 6 <sup>th</sup> semester classes began on 20/03/2023, 2 <sup>nd</sup> semester on 23.03.2023. Syllabus was completed on 24/06/2023 and classes were dissolved on 26/06/2023.		
5	Maintenance of Student Attendance Registers	Attendance was recorded in the college registers.		

III - TEACHING, LEARNING & EVALUATION (with Attachments)		Year	Statement	Impression/Recommendation/ Remark by Academic Advisors	Status
1	Teaching Diaries & Plans in the Prescribed Formats	22-23	Record of Plan of Action and Achieved of each session is well maintained by the department and also reflected in website.		
2	Co-Curricular Activities (Departmental Level) (Annexure 6)	22-23	Departmental Seminar on 25/06/2023 (co-organised by the Dept of Chemistry). Four 4 <sup>th</sup> semester students gave power-point presentations on topics chosen by them (from a list of topics provided by the teachers)		
3	Degrees offered		B.Sc. Hons., GE and Program (BKU)		
4	Conduct of Internal Examinations-continuous assessment & Mid-Term Test		IA for 3 <sup>rd</sup> & 5 <sup>th</sup> semester students were however held in the period from 10/11/2022 to 12/11/2022. For 1 <sup>st</sup> semester students IA was held on 07/12/2022 and 08/12/2022.  IA for 2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> semester students were held in the period from 03/05/2023 to 08/05/2023.		
5	Result Analysis		Result analysis is done according to the result sheet provided by the University (Annexure 4). After critical analysis of the results in departmental meeting, the students are advised about how to improve in the term end examinations.		

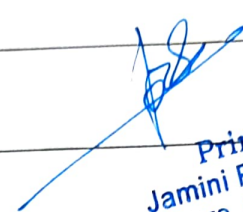

IV - RESEARCH AND CONSULTANCY (with Attachments)		Yr	Statement			Impression/Recommendation/Remark by Academic Advisors	Status
1	Faculty registered/pursuing PhD	22-23	Nil				
2	Number of Research Papers Published in (Internationals/Nationals Journals)		International	National	State Level		
			Nil	Nil	Nil		

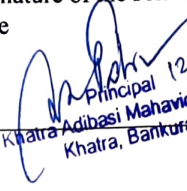
3	Number of Papers Presented in (International/National/State Level Conference) & Invited Lectures [Annexure 5]	International	National	State Level						
		00	01	00						
4	Number of Books Published in (Single Author/Co Author)	As a Single Author		As a Co-Author						
		Nil		Nil						
5	Number of Book Chapters	Nil								
6	Number of Seminars / Workshops / Training Program Conducted in the Academic year (International / National / State) (attach details)  [ I – International, N – National, S – State Level	Seminars			Workshops			Training Program		
		I	N	S	I	N	S	I	N	S
		0	0	0	0	0	0	0	0	0
7	Student Seminars/ Departmental Seminar/Workshop/ Exhibition/ Project in the Academic Year (other than University) (Annexure 6)	Seminar		Workshop		Exhibition		Project		
		01		Nil		Nil		Nil		
8	Record of MoUs in Academic year (attach details)	22	Nil							
		-								
		23								

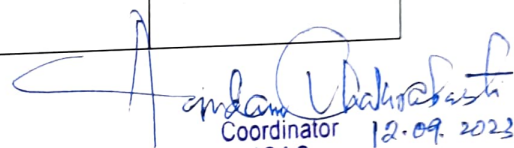
V – Extension Activities (with Attachments)	Year	Statement	Impression/Recommendation/ Remark by Academic Advisors	Status
Record of Subject/Department Related Extension Activities	22-23	Nil		



**Recommendation/Suggestions by Academic Advisors**

Suggestions for improvement /progress of the department	Sheet attached	
	Signatures of Academic Advisor with designation	Seal
	 <b>Principal</b> <b>Jamini Roy College</b> <b>Beliatore, Bankura (W.B.)</b>	
Signature of the HOD with date	 <b>Head</b> <b>Department of Physics</b> <b>Khatra Adibasi Mahavidyalaya</b>	
Signature of the Principal with date		

  
 Principal 12/9/2023  
 Khatra Adibasi Mahavidyalaya  
 Khatra, Bankura

  
 Coordinator 12.09.2023  
 IQAC  
 Khatra Adibasi Mahavidyalaya  
 Khatra : Bankura

**Declaration by the Principal**

On behalf of the College Governing Body and as Institutional Head, I will forward the observations by the Academic Advisors to IQAC and also to the Governing Body of the Institution for further necessary action regarding Academic development of the department.

Date: 12.09.2023

  
 Signature of Principal  
 Principal 12/9/23  
 Khatra Adibasi Mahavidyalaya  
 Khatra, Bankura

***List of Annexures***

**Annexure 1: Staff Pattern of Department of Physics**

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Siddhartha Sinha	M.Sc, PhD	Assistant Professor	Gravitational Waves & Cosmology	18.03.2015 continuing
Dr. Arindam Chakrabarti	M.Sc., PhD	Assistant Professor	Correlated Systems, Phase Transition & Superconductivity	17.12.2019 continuing

**Faculty Profile:**

<https://kamv.ac.in/biodata/Siddhartha%20Sinha.pdf> (Dr.Siddhartha Sinha)

<https://kamv.ac.in/biodata/ARINDAM%20CHAKRABORTI.pdf> ( Dr. Arindam Chakrabarti)

**Annexure 2: Syllabus Module (Unitization of Syllabus through teaching assignment distribution with specified lectures)**

Session	Link
2022-23	<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>

**Annexure 3: CO, PO & PSO**

Link for CO, PO of CBCS Syllabus for Three Years Undergraduate Course in English Programme under Bankura University (w.e.f. 2017):

[https://kamv.ac.in/course\\_outcome.php](https://kamv.ac.in/course_outcome.php)

**Annexure 4: Result Analysis of Dept. of Physics, 2022-2023 session**

No of Students Appeared in 6 <sup>th</sup> Sem (BKU)	Course	No of Students Appeared	Course Qualified	Not Qualified	Percentage of Qualified students
6 <sup>th</sup> Sem	Hons	05	01	04	20%
6 <sup>th</sup> Sem	Program	01	00	01	0%

**N.B.** The following student passed out in this session (admitted in the 2020-21 academic session.).

Name	Session (1 <sup>st</sup> yr)	UID	Percentage	Current Position	Contact
Shilpa Patra	2020-21	20113124001	77.5%	Not Known	9547661906

**Resolution and Recommendation:** The result indicates a 20% success rate for Honours & 0% success rate for Program students, as the four Honours & one Program students had failed to qualify in one or



more papers in their fifth Semester. Apart from that, all other papers of all other semesters were cleared by all the students. For these students, it was decided to advise them to review exam papers to identify specific areas where they struggled and then seek feedback from faculty members on topics or concepts that need more attention.



#### **Annexure 5:**

##### **Paper Presentation in National Level Seminar, 2022-23:**

Dr. Arindam Chakrabarti participated in a two-day National level Seminar titled “**2<sup>nd</sup> National Physics Meet**”, organised by Department of Physics, University of Kalyani & “Kalyani University Physics Alumni Association”, held on 17<sup>th</sup> & 18<sup>th</sup> February, 2023. The title of the paper presented is “***The Physics of Differential, Power Transmission & Steering Mechanism in 4-wd electric vehicles***”.

#### **Annexure 6:**

##### **Academic activities in the 2022-23 session:**

[https://kamv.ac.in/dept\\_catg/1719309965\\_Student%20Seminar%20Report%20Physics.pdf](https://kamv.ac.in/dept_catg/1719309965_Student%20Seminar%20Report%20Physics.pdf)