

VISION AND MISSION

✤To bring the Department in the core of the academic life taking place in our university

★To build a foundation for excellence and encourage the development of the Department as a premier institution by igniting and promoting enthusiasm, interests and passion, in the study of Physics. To awaken the young minds and discover their talents in theoretical and experimental physics, through dedication to teach, commitment towards students and innovational methods like PPT and visual aids.
To support the developmental activities of the College and make the department vibrant.
To develop strategies for continuous improvement in the performance of the department.

Facilities Provided To The Students By The Department

A RICH COLLEGE LIBRARY AND A DEPARTMENTAL LIBRARY

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REPUTED JOURNALS AVAILABLE IN THE COLLEGE LIBRARY

WELL-EQUIPPED LABORATORY

PHYSICS CLUB(UNIPHY) FOR PERSONALITY DEVELOPMENT

ELECTRONICS CLUB

SCIENTIFIC LITERATURE SOCIETY

INFRASTRUCTURAL FACILITIES

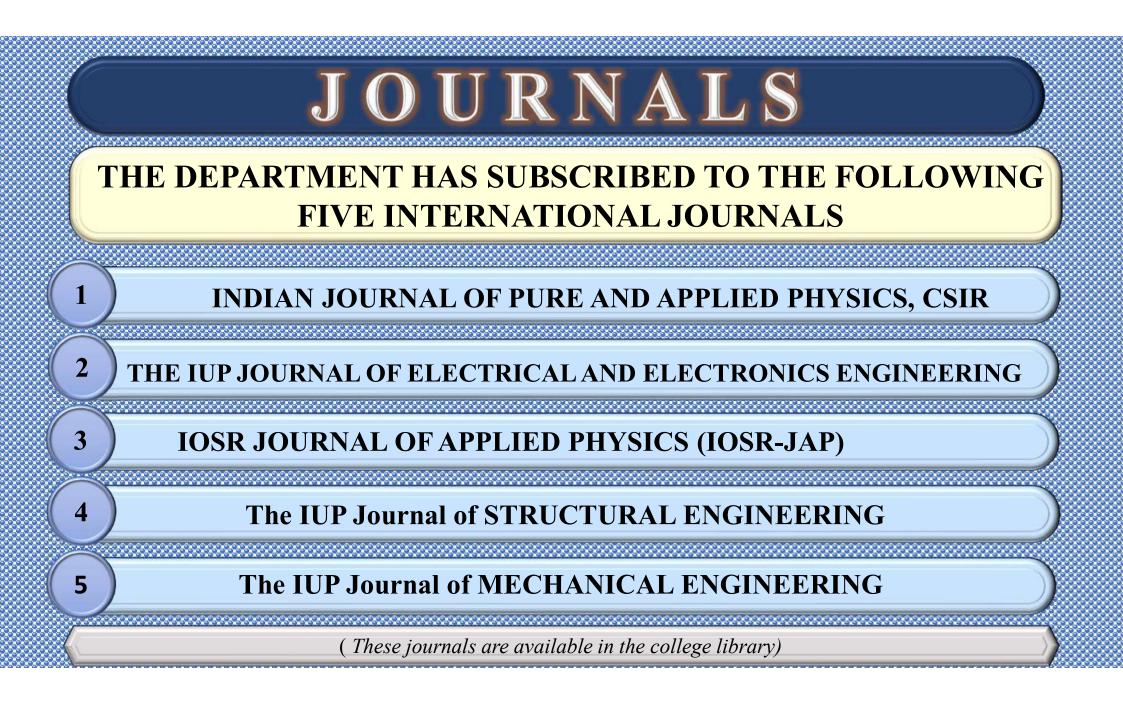
SUFFICIENT NUMBER OF CLASSROOMS

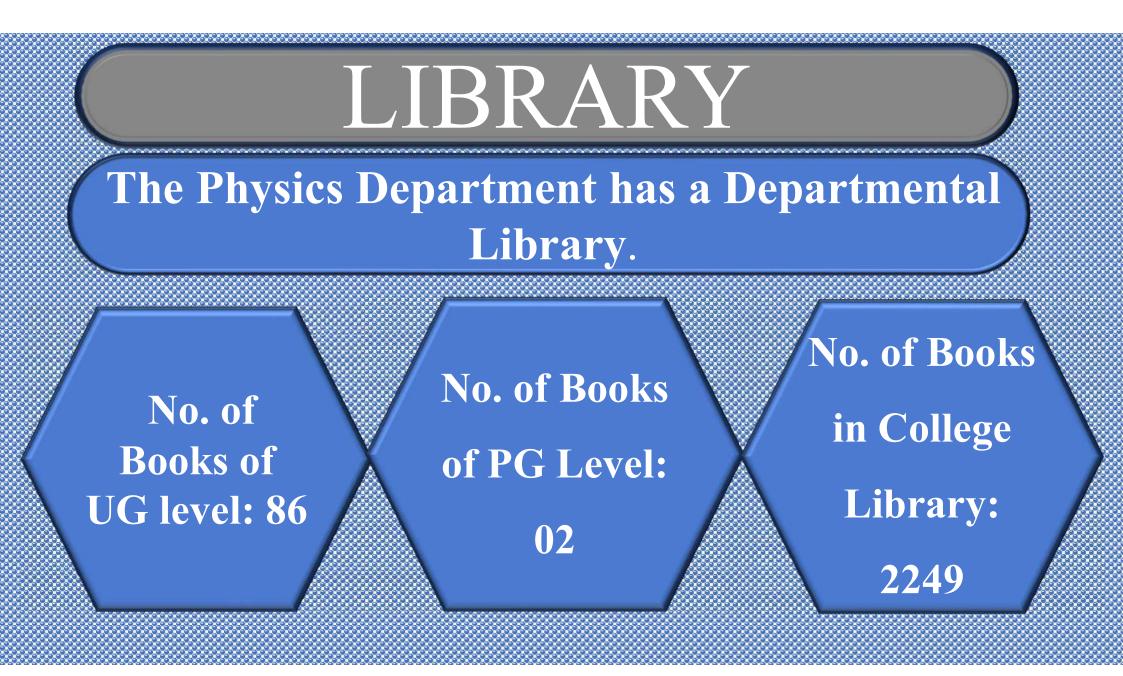
CLASSROOMS WITH PROJECTOR

TWO DESKTOPS AND 1 PROJECTOR IN THE LABORATORY

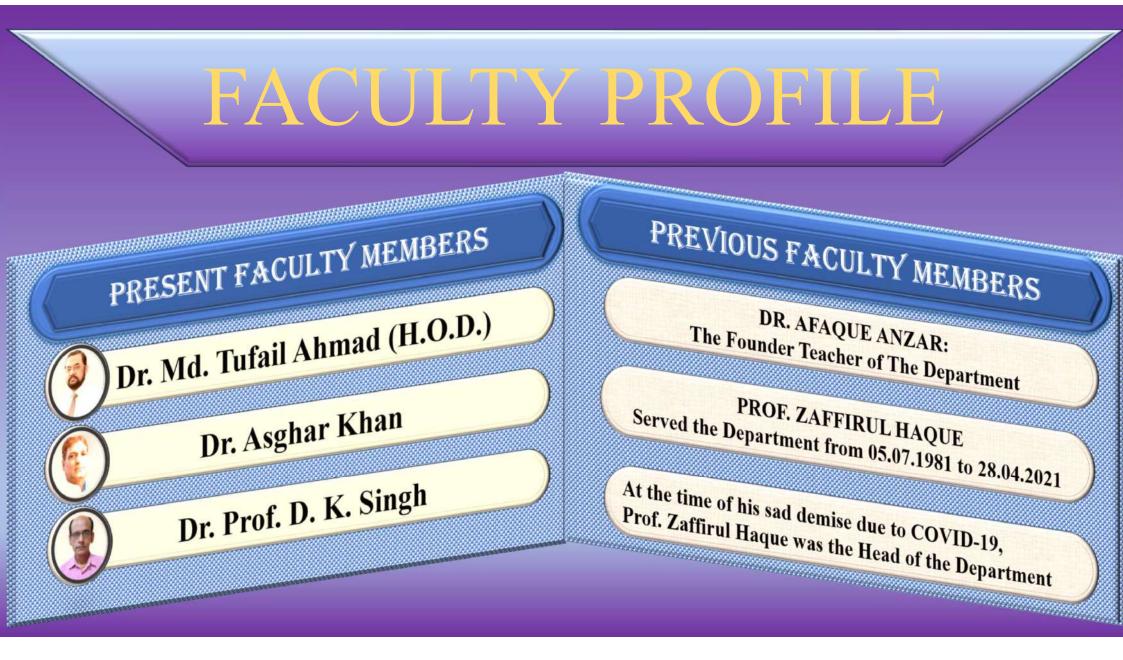
ONE COMPUTER LABORATORY

DEPARTMENTAL LIBRARY









PROFILE DR. MD. TUFAIL AHMAD

DESIGNATION: Assistant Professor

DEPARTMENT: Physics (H.O.D)

DATE OF APPOINTMENT: 20.08.1991

QUALIFICATION: M. Sc, Ph. D

SPECIALISATION: Electronics

EXPERIENCE:

Ph.D. GUIDED:

PAPER PUBLISHED: 04

PAPAR PRESENTED IN NATIONAL SEMINAR : 02

01

33 Years

ORIENTATION :1 MONTH, REFRESHER:14 DAYS

ONE WEEK COURSE: 03

DRC MEMBERSHIP: THREE TIMES

QUESTION SETTING: 39

PUBLICATIONS OF

Dr. Md. Tufail Ahmad

Title of paper	Name of the authors	Name of the journal	Year of publication	ISBN/ISSN number
Study of the band-width of resonant rectangular microstrip antennas	Md. Tufail Ahmad, R. S. Jha, H.N. Mishra	Bulletin of Pure and Applied sciences	2002	ISSN 0970-6559
Studies of Microstrip Patch Antenna and its applications	R.P. Singh and Md. Tufail Ahmad	Environmental Science Bulletin	2014	ISSN 2347-4866
"Synthesis and Analysis of Microstrip Line Fed Trapezoidal Microstrip Patch Antenna at 800 MHz	R. P. Singh, S. N. Singh, Md. Tufail Ahmad	International Journal of Research & Technology	2015.	ISSN: 227-0181
Analysis of an Elliptical Edge- Feed Microstrip Patch Antenna simulated at 800 MHz"	R. P. Singh and Md. Tufail Ahmad.	International Journal of Applied Information Systems (IJAIS): Foundation of Computer Science FCS, New York, USA	2016	ISSN : 2249-0868

PROFILE) DR. ASGHAR KHAN

DESIGNATION: Assistant Professor

DEPARTMENT: Physics

DATE OF APPOINTMENT: 04.08.1997

QUALIFICATION: M. Sc, Ph. D

SPECIALISATION: Material science

EXPERIENCE: 26 Years

PAPER PUBLISHED: 03

PAPER PRESENTED IN INTERNATIONAL SEMINAR: 03



PUBLICATIONS OF

Dr. Asghar Khan

Title of paper	Name of the authors	Name of the journal	Year of publication	ISBN/ISSN
				number
Compound Holographic Optical Element System for Splitting and Concentrating Solar Spectrum on Laterally- Arranged Multiple Band Gap Solar Cells	·	International Journal of Physics and Applications.	2013	ISSN 0974-3103
Solar tracking with no movable parts using multiplexed holographic lenses for photo-voltaic application	Asghar Khan, N. R. Chakraborty and H. L. Yadav	Journal of metallurgy and material science	2013	ISSN 0972-4257
Holographic concentrator for different type of solar cell of different band gaps.	Asghar Khan, and H. L. Yadav	Annuls of Bhandarkar Oriental Research Institute	2024	ISSN: 0378-1143

PAPER PRESENTATIONS BY

Dr. Asghar Khan

	Title of paper	Name of the authors	Conference	Year of presentation
	Use of holographic lenses recorded in dichromated gelatin film for PV concentrator applications to minimise solar tracking.	R.Ranjan, A. Khan, N.R. Chakraborty, H. L. Yadav	WSEAS multi-conference , University of Cambridge	2009
0]	Application of holographic ptical element as a dispersive concentratin system for hotovoltaic power generation	N.R. Chakraborty,	Xth International Cvonference on Fiber optics and Photonics, IIT Gowahati	2010
	Compound Holographic optical element system for splitting and concentrating solar spectrum on laterally arranged multiple band-gap solar cells.	Asghar Khan	International congress on innovations in science, technology and management, Rai University , Ranchi	2013

MR. D. K. SINGH

DESIGNATION: Assistant Professor

DEPARTMENT: Physics

PROFILE

DATE OF APPOINTMENT: 01.09.2006

QUALIFICATION:M. Sc. (Gold Medalist)

SPECIALISATION: Electronics

EXPERIENCE: 18 Years

NON – TEACHING STAFF

MR. JOY BANERJEE Lab In-charge

QUALIFICATION: INTERMEDIATE

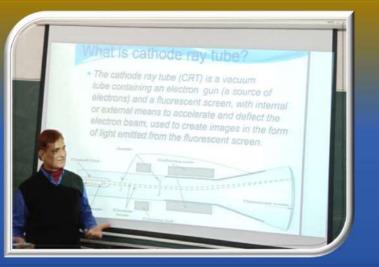
MR. MD. AZIMUDDIN Lab. Attendant

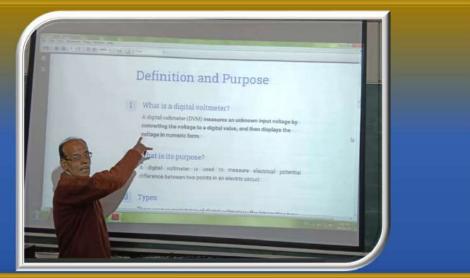
QUALIFICATION: INTERMEDIATE



ICT ENABLED TEACHING

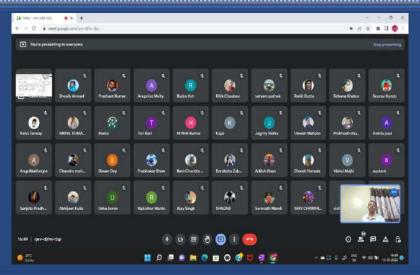


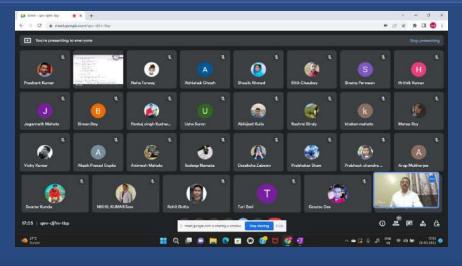


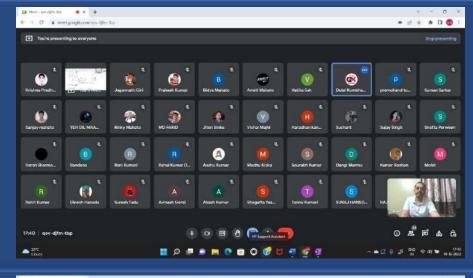


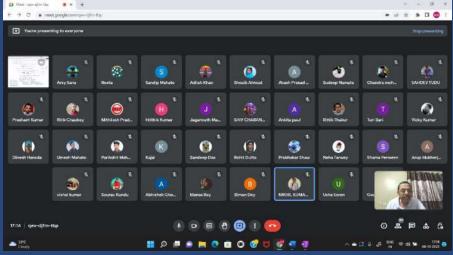


ONLINE TEACHING









ACTIVITIES OF THE DEPARTMENT

PARENT-TEACHER MEETING

😫 GPS Map Camera

Jamshedpur, Jharkhand, India

Karim City College Campus, R52X+8P4, beside Sakchi Thana, Ambagan, Sakchi, Jamshedpur, Jharkhand 831001, India Lat 22.800846° Long 86.199379° 06/02/23 01:18 PM GMT +05:30









ACHIEVEMENTS OF THE DEPARTMENT

The performance of the Department is improving continuously.

Good academic result is maintained.

The faculty members are engaged in developing methods for improving the quality of students.

07 papers of faculties have been published in international/national journals.

One Ph. D. degree has been awarded under the supervision of one of the faculty members in 2017.

ACHIEVEMENTS OF THE DEPARTMENT

The faculty members are also members of different bodies of Kolhan University, Chaibasa

Professor Zaffirul Haque and Dr. Md. Tufail Ahmad were members in the Board of Studies in 2014.

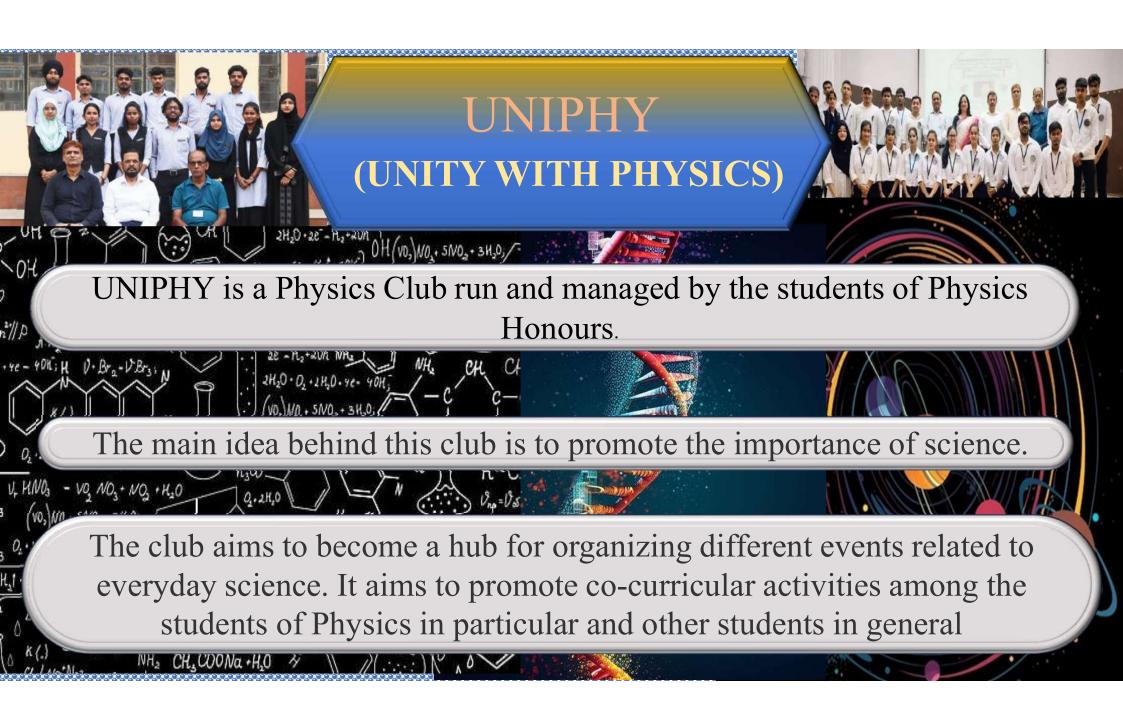
Professor Zaffirul Haque was a DRC member for the period 2014-16.

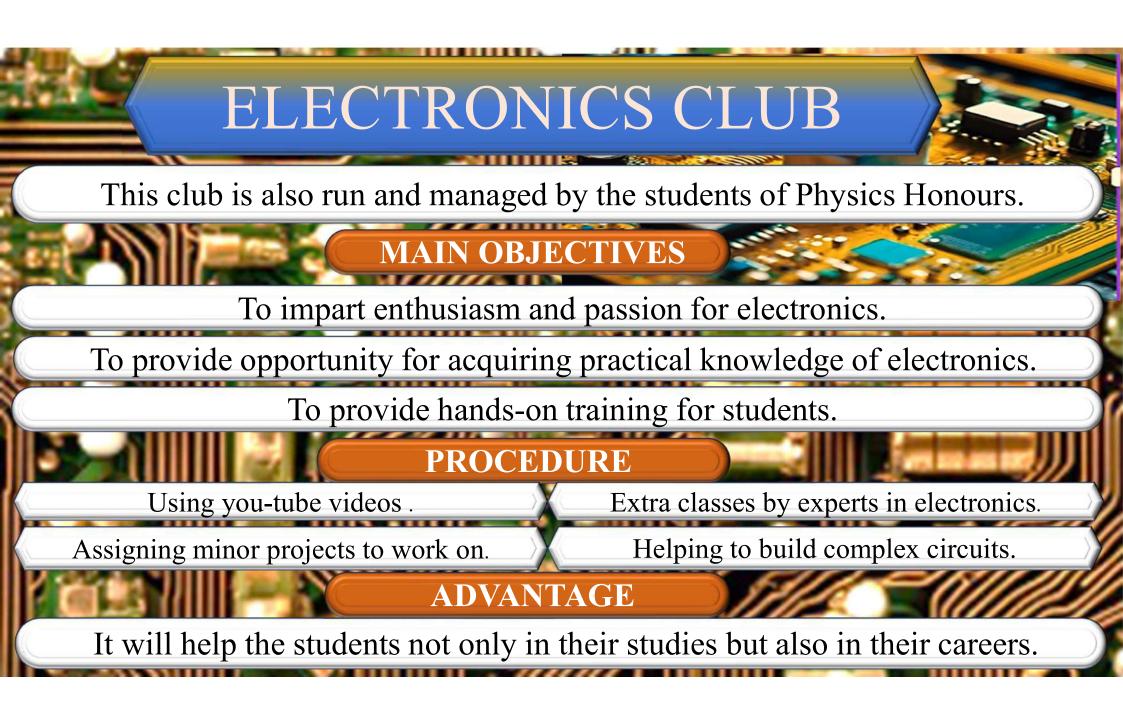
Dr. Md. Tufail Ahmad was a DRC member for the period 2016-18.

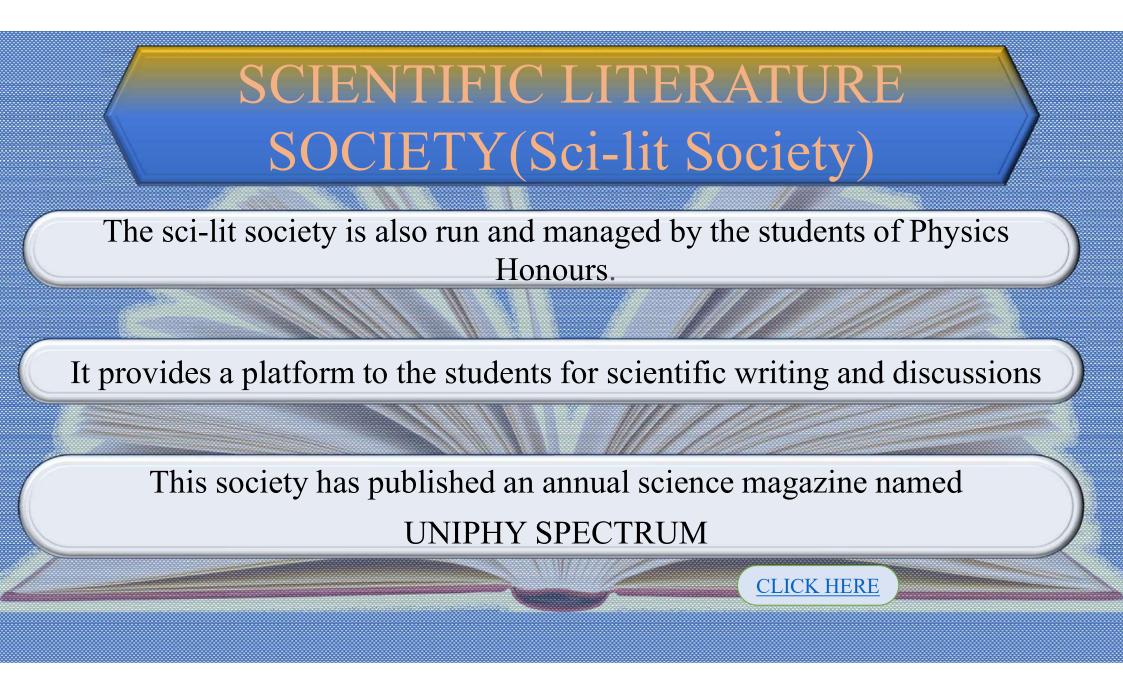
Dr. Md. Tufail Ahmad was a DRC member for the period 2018-20

Dr. Md. Tufail Ahmad was DRC member for the period 2021-23.













NTRA DEPARTMENT QUIZ ZO OMPE

Google

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🧕 GPS Map Camera

INTRA DEPARTMENT QUIZ

LAUNCH OF ANNUAL SCIENCE MAGAZINE



ELECTRONICS CLUB MEMBERS IN ACTION

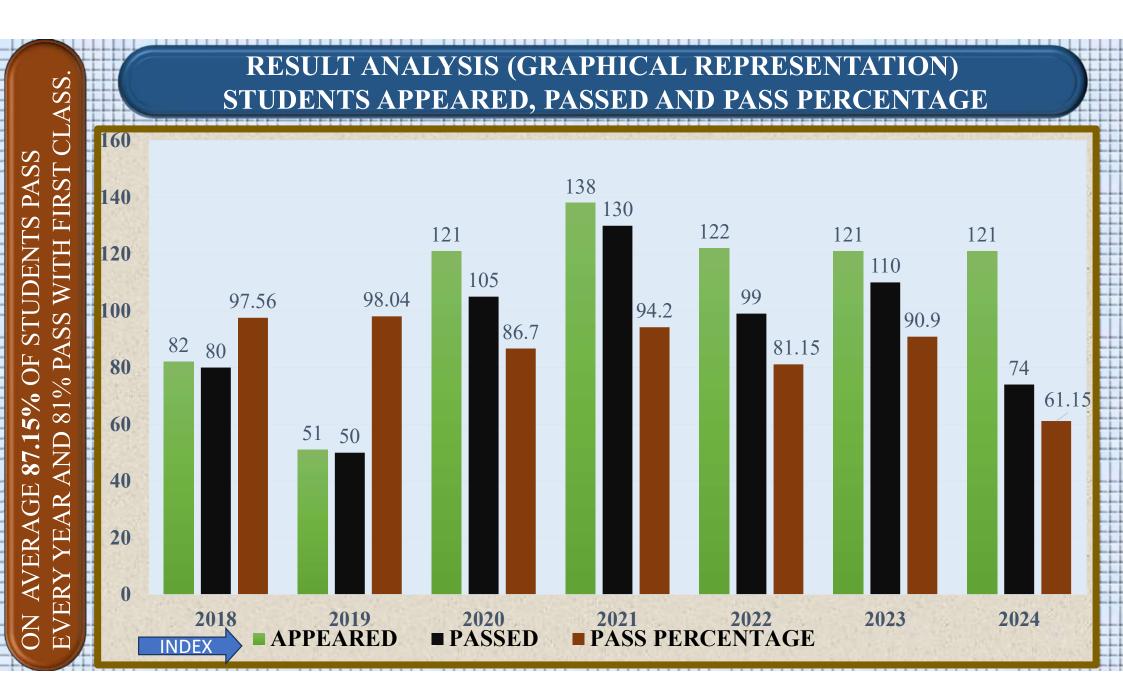


STUDENT PROFILE

	STUDENTS ADMITTED						
S.NO.	SESSION	PROGRAMME	NO. OF SEATS SANCTIONED	STUDENTS ADMITTED			
1	2018-2021	B.Sc. Physics(Major)	150	150			
2	2019-2022	B.Sc. Physics(Major)	150	145			
3	2020-2023	B.Sc. Physics(Major)	150	144			
4	2021-2024	B.Sc. Physics(Major)	150	143			
5	2022-2026	B.Sc. Physics(Major)	150	56			
6	2023-2027	B.Sc. Physics(Major)	150	38			
7	2024-2028	B.Sc. Physics(Major)	150	40			

	STUDENT-TEACHER RATIO					
S.NO.	SESSION	NO. OF TEACHERS	NO. OF STUDENTS	STUDENT- TEACHER RATIO		
1	2018-2021	04	150	37.5:1 ~ 38:1		
2	2019-2022	04	145	36.25:1~36:1		
3	2020-2023	04	144	36:1		
4	2021-2024	03	143	47.6:1~48:1		
5	2022-2026	03	56	18.6:1 ~19:1		
6	2023-2027	03	38	12.6:1~13:1		
7	2024-2028	03	40	13.3:1~13:1		

	RESULTS OF FINAL-YEAR STUDENTS						
YEAR	APPEARED	PASSED	FIRST CLASS WITH DIST.	FIRST CLASS	SECOND CLASS	PASS PERCENTAGE	
2018	82	80	(74	06	97.56	
2019	51	50	(44	06	98.04	
2020	121	105	(97	08	86.7	
2021	138	130		124	06	94.20	
2022	122	99	28	71		81.15	
2023	121	110	22	87	01	90.90	
2024	121	74	08	59	07	61.15	





Jagannath Giri Kolhan University Topper in Science Year:2024

PROGRAMME OUTCOME

The completion of B.Sc. Physics (Hons.) programme will enhance the student's ability to:

- 1. Critical Thinking
- 2. Problem-solving
- 3. Use computers for control, data acquisition and data analysis in experimental investigations.
- 4. Translate physical descriptions into mathematical equations.

- 5. Explain the physical meaning of mathematical results.
- 6. Critically interpret data, write reports and apply the basics of rules of evidence.
- 7. Be engaged in lifelong learning through continuing education and research.

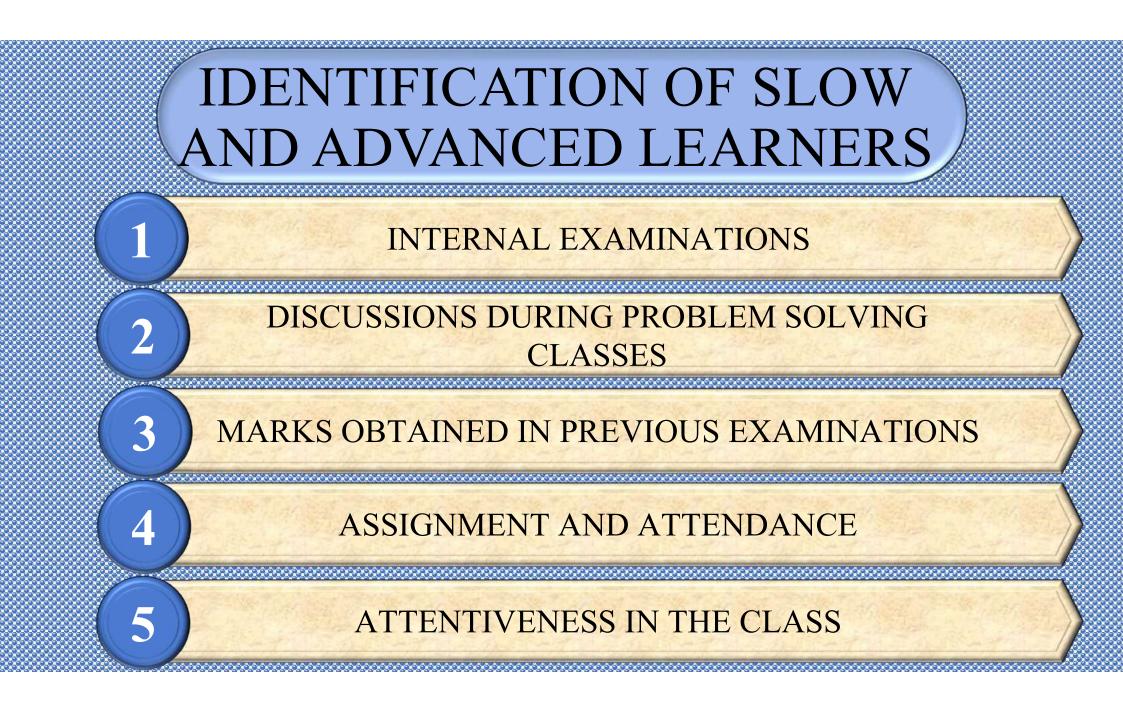
- 8. Communication and collaboration.
- 9. Design experiments for the measurement of a given physical quantity.
- 10. Estimate sources of error and minimizing them.
- 11. Interpret the experimental results.

ATTAINMENT OF OUTCOME							
FORMU	JLAE USED						
Target average scoreSum of grand total of all studentstotal number of studentsPercentage of target average scoreTarget average scoreTotal assigned marksCourse attainment=No.of students scoring more than average percentage total number of studentsLEVEL-3Course attainment=No.of students scoring more than average percentage total number of students							
SESSION	TOTAL NO. OF STUDENTS APPEARED IN EXAMINATION	PERCENTAGE OF TARGET AVERAGE SCORE	NUMBER OF STUDENTS MORE THAN AVERAGE PERCENTAGE	PERCENTAGE OF TOTAL STUDENTS MORE THAN AVERAGE PERCENTAGE	ATTAINMENT LEVEL		
2016-19	51	62.03	44	86	LEVEL-3, HIGH		
2017-20	121	68.72	97	80	LEVEL-3, HIGH		
2018-21	138	65.56	124	90	LEVEL-3, HIGH		
2019-22	122	71.50	79	65	LEVEL-3, HIGH		
2020-23	121	71.82	87	72	LEVEL-3, HIGH		
2021-24	121	61.87	72	60	LEVEL-3, HIGH		

INTERNAL ASSESSMENT

EVALUATION PROCESS

The department follows the norms as prescribed by Kolhan University Chaibasa. 25 marks for each credit Internal Examination: **15 marks 10 marks** for written examination + **5 marks** for Attendance





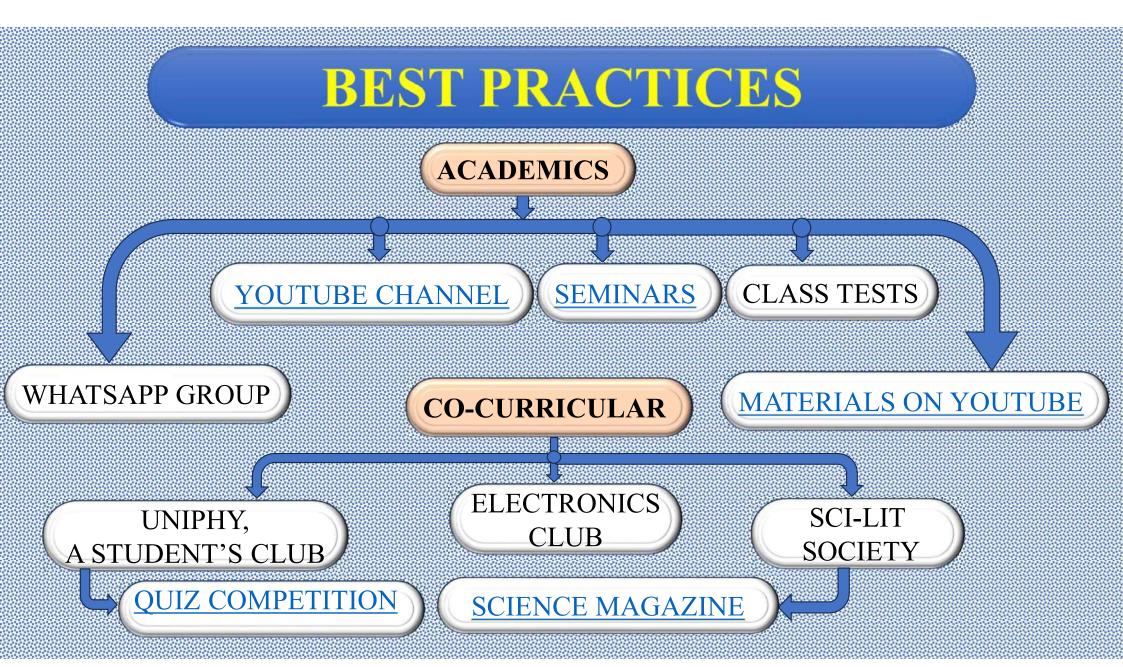
MENTOR-MENTEE RATIO FOR 2023-2024						
SESSION	TEACHER'S NAME STUDENTS NUMBER TOTAL STUDENTS					
2022-2026	Dr. Md. Tufail Ahmad	19				
	Dr. Asghar Khan 21					
	Prof. D. K. Singh	19				
2023-2027	Dr. Md. Tufail Ahmad	12				
Dr. Asghar Khan		12	36			
	Prof. D. K. Singh	12				
2024-2028	Dr. Md. Tufail Ahmad	15				
	Dr. Asghar Khan	15	45			
	Prof. D. K. Singh	15				

STUDENTS PROGRESSION TO HIGHER EDUCATION

SESSION	ADMITTED TO M.SC+MCA	ADMITTED TO B.ED	PURSUIED PH.D
2017-2020.	5+0	3	1
2018-2021.	6+1	6	
2019-2022	3+0	3	1
2020-2023	4+1	9	
2021-2024	5+1	3	

LIST OF DISTINGUISHEDALUMNI					
NAME	PRESENT STATUS	CONTACT NUMBER/EMAIL	YEAR OF PASSING		
NANDINI KUMARI	Manager, Union Bank of India	952314194 kumarinandini555@gmail.com	2018		
SABREEN MOJAHID	Science Teacher in Kids International School	8579018581 mojahidsabreen@gmail.com	2018		
NIGAM PRASAD NAYAK	Medical Representative Himalaya Wellness Company	9608088217 nayaknigamprasad@gmail.com	2018		
SUCHITRA DAS	PGT at NPS	9932925512	2018		
KAUSHIK	Founder of				
SANCHITA KUMARI	BPSC teacher (6-8) (Math. & science)	9308083182 san9kumjsr@gmail.com	2020		
SHAILENDRA KUMAR	Associate at Vedanta Limited	6206481890 shailendrakumaryadav180@gmail.com	2021		
ANUJ KUMAR	Border Security Force	9523678480 anujshka24101999@gmail.com	2022		
RANI KUMARI	Working in Tata motors	7277745587 Princesssingh816@gmail.com	2024		
HRITIK MISHRA	DEO in Project Management Unit (PMU),S.C, S.T., And B.C. Welfare Department, Jharkhand, Ranchi	7667057456 mhritik012@gmail.com	2022		

NAME	PRESENT STATUS	CONTACT NUMBER/EMAIL	YEAR OF PASSING
ABHISHEK KUMAR	Junior engineer at Jindal stainless steel	8340345037 ashubhkr197@gmail.com	2022
SUMIT KR MAHATO	CRPF ASI	7488804707 sumitkumarmahato1102@gmail.com	2021
AMRIT MAHATO	Finance Associate At Tata Consultancy Services Kolkata	7488241505 amritm3110@gmail.com	2024
RAHUL DEY	Associate at ESL Steel Limited Vedanta	9572135056 rdey923422@gmail.com	2023
NIKHIL KUMAR SAW	Associate at Bakeoven operation SEZ CARBON, vedanta limited Jharsuguda	9065657314 nikhilgupta33205@gmail.com	2023
ADITYA MISHRA	Data Engineer at Galytix in Prague, Czech Republic	7295866936 aditya08adrol@gmail.com	2021
PANKAJ KUMAR MAHTO	Associate, SBI (SBI) , DIBAI, BULANDSHAHR, UP	7667516161 pankaj.mps123@gmail.com	2021
SABIHA NAAZ	Associate in ESL Steels Ltd Vedanta	6299651010 sabihanaaz1010@gmail.com	2021





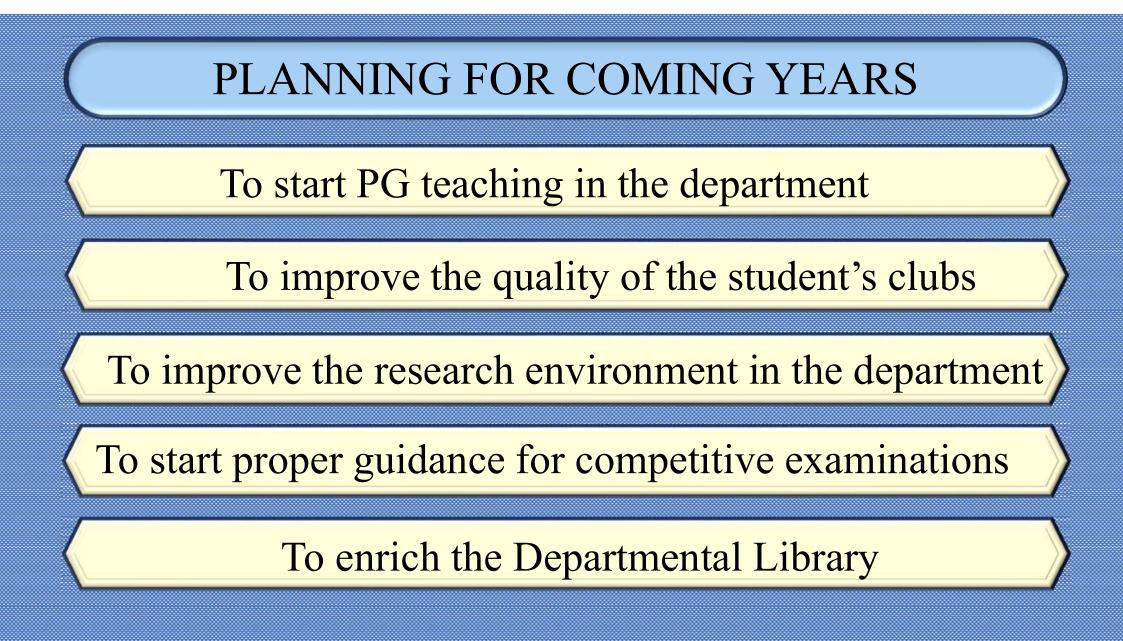




SWOC ANALYSIS







THANK YOU)