

Nutanchati, Opposite Axis Bank, Bankura, West Bengal, Pin-722101

ACADEMIC AUDIT REPORT For the Academic year 2017 - 2018

	Academic Au	ıdit of Departı	ment : MA'	THEMAT	ICS					
						Period of A	udit: 2017-2	2018		
I -	COLLEGE PROFILE (To be filled in by the IQAC Co-ordi	nator)								
1	Name of the Department, Website, email and Ph. No.	Departmen	t: Mathema	atics, <u>http:</u>	//bzsmcolle	ge.org/, E-m	nail id: <u>sarad</u>	la_6@yaho	o.co.in;	
		Ph. No.: 03	3242-25119	4						
2	Name of the HOD, email & Mob. No.	Haradhan 1	Kundu, em	ail: <u>kundu</u>	.haradhan@	gmail.com,	Mob: 81002	43923		
3	Name of the IQAC Coordinator, email & Mob. No.				la.patra196'	7@gmail.cor	<u>n</u>			
		Mobile No.	.: 9474144	885						
4	Year of Establishment/ Year of Affiliation	1973/1975								
5	NAAC Grade with Cycle, Accredited Year (if not	Grade A (3.04) Cycle 2								
	Accredited Status of Preparations)	dited Status of Preparations) 2015								
6	UGC Recognition (2F & 12 B)	YES								
7	Departmental Working Hours (if shift system mention									
	details of both shifts & give reasons for shift system)	10.10 a.m-5.00 p.m (Monday to Saturday)								
8	No. of Posts Sanctioned:				Teaching	Non To	eaching			
	Teaching -	Govt. approved :					1		0	
	Non Teaching-	Manageme		d ·			_		_	
	Supportive Staff -	Govt. appro					_		_	
	Other if any -	Manageme:								
	outer it may			u Contract	uai .		4			
9	Course wise & Veer wise Students strength particulars	Guest Worl		Sem-II	Sem-III	Com IV	4 Part-I	Part-II	0 Part-III	
9	Course wise & Year wise Students strength particulars	Students	Sem-I	Sem-II	Sem-III	Sem-IV	Part-1	Part-11	Fart-111	
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					Dui	uwan Omvel	SILY			
		Honours	21	22	-	-		05	-	
		Cananal							10	
		General	-	-	-	-			10	



II -	CURRICULAR ASPECTS	Statement	Impression/Recommendation/ Remark by Academic Advisors	Status	Grade
1	Departmental Annual Curricular Plans	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. PO, CO & PSO is also formulated (Annexure I).	Practical experience on theoretical knowledge be given importance through the introduction of Internship, if possible.	Good	A
2	Departmental Activities and Records of students' and Teachers' participation for the Academic Year 2018 to 2019	Every activity is recorded such as Departmental meetings, Departmental Seminar, Student-Seminar, Class Tests, Meetings of committees related to Parent-Student -Teacher formed by the department etc.	Database on the pass out students for making alumni association more dynamic and productive be made an integral part of the departmental activities every year.	Good	A
3	Add-on Courses completed during Academic Year 2018 to 2019	NIL	At least introduction of some vocational training courses be made compulsory every year to impart practical knowledge.	Poor	С
4	Plan for introduction of new Add-on Courses in Academic Year 2018 to 2019	NIL	Efforts be made for the introduction of some vocational training courses or at least hands on training be made compulsory every year to impart practical knowledge.	Poor	С
5	Coverage of Syllabus (Average Percentage)	More than 90% syllabus is covered for all courses of UG program. Records are kept in the individual Teacher's Diary.	100% coverage of the syllabus should be made mandatory because it will help the advanced students immensely.	Good	A
6	Maintenance of Student Attendance Registers	Day to day attendance is recorded in the Student Attendance Registers.	Poor attendance (i.e. less than 50%) of the students be compulsorily intimated to the parents.	Good	A
7	Feedback forms on Curriculum from students	Feedback is taken and analyzed. (Annexure –II) Attempts are being made to submit the Feedback online by the students from the current session. Suggestations and Proposals from students have been carefully analysed. Some of the demands	Online feedback procedure should be made compulsory.	Satisfactory	В



	have been fulfilled by the department in the		
	interest of the students.		

^{**} Grade A (Good) / B (Satisfactory) / C (Poor)



	TEACHING, LEARNING EVALUATION	Statement	Impression/Recommendation/Remark by Academic Advisors	Status	Grade
1	Teaching Diaries & Plans in the Prescribed Formats	The teaching diaries and plans are maintained by all the teachers of the department and those are verified and signed by the Principal.	Well maintained.	Good	A
2	Co-Curricular Activities (Departmental Level)	Students of each year/ semester organized Teachers' Day celebration program every year in the department. They used to participate in the "Physics Quiz" Contest, "Concept Test In Physics" conducted by the Department.	Arrangement of Exhibition at least once a year is recommended.	Good	A
3	Degrees offered	UG programs run by the department.	Job-oriented programmes be introduced, if possible.	Good	A
4	Conduct of Internal Examinations-continuous assessment & Mid-Term Test	Continuous assessment is carried out by the department in the form of Class Test, Mid-term test, Concept Test, Surprise Test, Practical Test and Internal Assessment.	Well maintained and documented.	Good	A
5	Remedial Classes	Remedial classes are conducted for each semester as and when required subject to the availability of time and convenience of student and teachers. Sometimes in the remedial classes, evaluated and assessed answer scripts are shown to the students for their self-assessment and better understanding of the subject.	Assessed answer scripts reflecting the academic improvement of the students be given to the students to show their parents.	Good	A
6	Record of Mentoring of students by teachers	Record of mentoring of students by teachers is maintained by the department. However, mentoring is also provided outside the class.	Performances of the students in all respects be intimated to the parents periodically, if possible.	Good	A
7	Result Analysis for the years 2017 & 2018	Result analysis is done according to result sheet provided by the University (Annexure-III). After critical analysis of the results ,the students are advised about how to improve both the theoretical and practical marks.	Final result sheet should be well-circulated through college prospectus, website etc.	Good	A

^{**} Grade A (Good) / B (Satisfactory) / C(Poor)



IV -	RESEARCH AND CONSULTANCY	Statement	Impression/Recommendation/Remark by Academic Advisors	Status	Grade
1	No. of Research Guides in the Department	Nil	All Departmental teachers be encouraged to complete their Ph.D.	Poor	С
2	No. of Faculty awarded Ph. D (attach details)	01 (<mark>Annexure-IV</mark>)	All Departmental teachers be encouraged to complete their Ph.D.	Poor	С
3	Number of Major/Minor/Other Research Projects (attach details)	Major: Nil Minor: Nil Others: Nil	Other funding agencies may be explored.	Poor	C
4	Number of Research Papers Published in Academic year (Internationals/Nationals Journals) (attach details)	National: 0 International: 03 (Annexure-V)	Inadequate.	Satisfact ory	В
5	Number of Papers Presented in Academic year 2018 to 2019 (International/National/State Level Conference) (attach details)	International: 01 (Annexure-VI) National: 0 State Level Conference: Nil	Inadequate.	Satisfact ory	В
6	Number of Books Published in Academic year 2018 to 2019 (Single Author/Co Author) (attach details)	As a Single Author – Nil As a Co-Author – 0	Inadequate.	Satisfact ory	В
7	Number of Seminars / Workshops / Training Program Conducted in the Academic year (International / National / State) (attach details)	Nil	Efforts to be made to conduct National/International Seminars	Satisfact ory	В
8	Student Seminars/ Workshop/ Exhibition/ Project in the Academic Year (other than University)	06	Arrangement of Exhibition at least once a year is recommended.	Satisfact ory	В
9	Record of Consultancy in Academic year 2017 to 2018 (attach details)	Nil	Initiative should be taken by the college to invite various companies for placement, if possible.	Poor	С
10	Record of MOUs in Academic year 2017 to 2018 (attach details)	Initiatives are being taken by the Department to sign MOUs with adjacent institutions of Bankura University for Faculty exchange, Collaborative Seminars.	Initiative should be taken by the college, if possible.	Poor	С



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** Grade A (Good) / B (Satisfactory) / C (Poor)

V -	EXTENSION ACTIVITIES	Statement	Impression/Recommendation/ Remark by Academic Advisors	Status	Grade
1	Record of Subject/Department Related Extension Activities (attach details)	NIL	Initiative may be taken by the Department.	Poor	С
2	Field Visit (attach records)	NIL	Initiative may be taken by the Department.	Poor	С
3	Industry Visit (attach records)	NIL	Initiative may be taken by the Department.	Poor	С
4	Any Other Club (attach records)	NIL	Initiative may be taken by the Department.	Poor	С
5	Any other social service activity undertaken by the students and teachers/students/teachers of the department (attach records)	Some teachers are members of some non-govt. social organizations.	Initiative may be taken by the Department.	Poor	С

^{**} Grade A (Good) / B (Satisfactory) / C (Poor)



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Recommendation/Suggestions by Academic Advisors

Suggestions for improvement/progress of the department	Sheet a	ittached	
Declaration by the Department	1	Signatures of Academic Advisor with designation (9 march of Colleges)	Scal Inspecter of Colleges (Addl. Charge) Bankura University
	2		parada busa bili
Signature of the HOD with date	3		
Signature of the Principal with date			

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:	15-16:
Jaic:	Signature of Principal
	Principal Benturs Zille Beredens

PROGRAM OUTCOMES (POS), PROGRAM SPECIFIC OUTCOMES (PSOS) AND COURSE OUTCOMES (COS) OF MATHEMATICS HONOURS (B. SC.)

FOR THE ACADEMIC SESSION 2017-18.

Vision:

To become a premier center, promoting Mathematics locally and globally

Mission:

To materialize the vision, the Department of Mathematics focuses on the following:

- > To provide necessary background
- > For producing a meaningful career in Mathematics and related fields
- > For acquiring, Mathematical skills and employability skills

Program Outcomes (POs):

Program Name		Program Outcomes
	PO.1.	Acquires the ability to understand and analyze the problems.
	PO.2.	Develops the skill to think critically on abstract concepts of Mathematics.
(B. Sc.)	PO.3.	Acquires the ability to apply independently paving way for life long learning
Honours	PO.4.	Analyses the situation, make a mathematical problem and find its solution.
Mathematics Honours (B. Sc.)	PO.5.	Enhances Logical reasoning skills, arithmetic skills, aptitude skills computational skills, computer skill, programming, self confidence for better employability.
Z	PO.6.	Formulates and develops mathematical arguments in logical manner.
	PO.7.	Provides a systematic understanding of the concepts and theories of mathematical and computing their application in the real world.

Program Specific Outcomes (PSOs):

Program Name	Program Specific Outcomes				
	PSO.1.	Understands the basic concepts of advanced Mathematics.			
	PSO.2.	Develops the problem solving skill.			
onours	PSO.3.	Develop various computational techniques.			
natics H (B. Sc.)	PSO.3. PSO.4. PSO.5.	Realize the idea of modern mathematics through mathematical structures and problems			
Mather	PSO.5.	Creates Mathematical Models (along with solution) for various physical needs.			
	PSO.6.	Idea of application of mathematics in inter disciplinary matters			
	PSO.7.	Develop the computer programming skill for solving various physical problems.			

Course Outcomes (COs):

Paper	Subject Area		Outcomes
	Differential and integral calculus	CO.1.	Understand the basic concepts of differential calculus and integral calculus, technique of plotting various curves, Applications of differential calculus to geometry, Economics, biology and many other real life examples.
Paper-C1	Analytic geometry	CO.2.	Concept of graphs of quadratic in 2D and 3D, classification of quadratic using the discriminant as well as using transformation of coordinate axes. Concept and properties of various well known curves and surfaces.
	Introduction to Differential equation	CO.3.	Concept of Differential equation and their solutions, Idea Mathematical Models using differential equations.

Paper	Subject Area		Outcomes
	Number Theory	CO.4.	Concept of integers and their properties, Concept of complex number and various complex functions, idea of inequality and various standard inequalities.
-C2	Classical Algebra	CO.5.	Idea of algebraic equation and their solving techniques along with root-coefficient relations.
Paper-C2	Introduction to Modern Algebra	CO.6.	Developed the concept of set, relation and function
	Introduction to Linear Algebra	CO.7.	Solve linear system of equation, idea of linear transformations, inverse of matrices. Idea of vector space, Subspaces and dimension of subspace, idea of Eigenvalues, Eigenvectors.

Paper	Subject Area		Outcomes			
	Real numbers	CO.8.	Concept of real numbers and real line, algebraic and analytic properties of real numbers and real line, idea of open and closed set along with their properties.			
Paper-C3	Real sequences CO.9.		Idea of sequence of real numbers and their convergence. (Realize the convergency of sequences through computer demonstration)			
	Series of real numbers CO.10.		Idea of series of real numbers and their convergence alo with various convergency test. (Realize the convergency series through computer demonstration)			

Paper	Subject Area		Outcomes
	Ordinary Differential equations	CO.11.	Existence and uniqueness of solution of a differential equation, Concept of Wronskin, Solution of linear differential equation using various techniques.
	System of linear differential equations	CO.12.	Systems of linear differential equations and their solution using various technique, Phase plane analysis
Paper-C4	Vector Analysis	CO.13.	Idea of various vector operations along with their geometric meaning, Concept of limits, continuity and differentiability of vector valued functions and their applications

Paper	Subject Area		Outcomes				
		CO.14.	Understand the concept of normal subgroup, group homomorphism from various algebraic aspects and their applications				
	Abstract Algebra- II	CO.15.	Study Partial order relation, Poset, Lattices and their algebraic as well as geometric realizations and representations along with various applications				
		CO.16.	Developed the concept of Boolean algebra and its application to mathematical logic, computer science and other fields.				
		CO.17.	Study the concept of matrices, determinants and their physical, geometrical interpretation along with their properties and various applications (e.g., system of linear equation, classification of quadratics etc.)				
	Linear Algebra	CO.18.	Study the concept of rank, invertibilty, congruence and similarity of matrices.				
		CO.19.	Grow the idea of vectors, vector spaces (both physical and abstract) subspaces, linear dependency, dimension etc.				
Paper-III		CO.20.	Developed the concept (algebraic and geometric) of linear transformations, their representations, various properties and applications				
	Number Theory	CO.21.	Study the concept various properties of the set of integers and naturals. Revisit the idea of prime numbers, composite numbers, greatest common divisor etc.				
		CO.22.	Understand the properties and algebra of congruence relation, various well known theorems, along with applications.				
		CO.23.	Study various functions, such as Eulers ϕ function, Möbius μ – function etc. along with related problems and applications				
		CO.24.	Understand the concept of Riemann integrations (through Riemann sum, Darboux sum) related theorems				
	Analysis-II	CO.25.	Techniques of checking integrality of various types of functions				
		CO.26.	Study improper integral and their convergence, especially the gamma and beta function and related problems.				

Paper	Subject Area		Outcomes				
		CO.27.	Revisit vector algebra and its property along with the applications				
	Vector Analysis	CO.28.	Geometrical meaning of continuity and differentiability of a vector-valued function of one variable				
		CO.29.	Concept of gradient, divergence and cure of function				
		CO.30.	Application of Green's, Gauss & Stokes theorem				
		CO.31.	Revisit the concept of velocity, acceleration, force, Newton's law of motion etc.				
		CO.32.	In real life importance of conservative and non-conservative force				
	Dynamics of a Particle	CO.33.	Some useful application of work, power and energy				
ΔI		CO.34.	Understanding the concept of impulse, impulsive forces, impact (direct/oblique) and principle of conservation of linear momentum				
Paper-IV		CO.35. Study the motion of a particle along a line under conditions					
		CO.36.	Study the concept of SHM and Forced vibrations, Damped harmonic oscillations, Damped forced oscillations.				
		CO.37.	Understanding the concept of angular velocity, angular acceleration				
		CO.38.	Study of motion of a particle in a plane using the components of velocity and acceleration in various directions (e.g., radial and cross radial, tangential and normal)				
		CO.39.	Study the motion of central orbit, planetary motions and constrained motion along with various related problem				
		CO.40.	Developed the skill of physical realization of dynamics and problem solving techniques.				
		CO.41.	Study the basic idea of tensor algebra and generalized coordinates				
	Tensor Calculus	CO.42.	Understand and realize the Calculus of tensor and application to Riemannian space				

Paper	Subject Area		Outcomes					
		CO.43.	Understanding the concept of convergence sequence ,limit superior, limit inferior and application of Bolzano-Weierstrass theorem, Heine-Borel theorem					
		CO.44.	Some useful application of Comparison test, Ratio test, Cauchy's root test and Leibnitz's test					
	Analysis-III	CO.45.	Study the concept of sequence and series of functions and their convergence along with their geometrical interpretation.					
		CO.46.	Understand the convergence, interpretation and application of Fourier series and power series.					
		CO.47.	Study the calculus of function of several variables from both analytic and geometric point of view along with applications.					
		CO.48.	Understand the concept of differentiation under integral sign and their application.					
	Complex Analysis	CO.49.	Make the basic understanding on complex numbers, various complex functions along with their geometric and topological aspects					
Paper-V		CO.50.	Understand the concept of limit, continuity, differentiability and analyticity of complex function					
Pape		CO.51.	Study power series and its properties					
		CO.52.	Understand the concept of Möbius transformations and related problems					
		CO.53.	Understand the concept of metric metric space through various examples and their geometric realization and conception.					
		CO.54.	concept of some elementary object of a metric space charges open ball closed ball open set set limit point along with their properties and examples					
	Metric spaces	CO.55.	Concept of sequence Cauchy sequence and convergence on metric space and study the concept of completeness of a metric space along with some example and their geometric realization.					
		CO.56.	Understand the concept of continuity on a metric space along with some examples and various applications					
		CO.57.	Study the concept of compactness and its analytical importance along with various examples					
		CO.58.	Understand various type of compactness and their interrelations and equivalence on a metric space.					

Paper	Subject Area		Outcomes		
	Elements of Continuum Mechanics	CO.59.	Study the idea of continuum mechanics, idea of strain and stress, viscosity along with their physical realizations		
	Classical Dynamics	CO.60.	Enlighten on various ideas and concepts of classical dynamics, such as inertial frame, absolute time, Galilean transformation etc.		
	Dynamics of a system of particles	CO.61.	Understand the basic concept of system of particle and various related terms, such as linear momentum kinetic energy etc.		
	Dynamics of a rigid body	1			
Paper-VI		CO.63.	Study the two dimensional motion of various rigid bodies under various restrictions and constraints.		
Pape	Statics	CO.64.	Revisit on concept of physical quantities, such as concurrent forces parallel forces moment of force etc.		
		CO.65.	Study the equilibrium of a system, stability of equilibrium and various test regarding stability		
		CO.66.	Understand the basic concept of fluid and fluid pressure and its elementary properties.		
	Hydrostatics	CO.67.	Analyze the stability and equilibrium of a fluid under various conditions		
		CO.68.	Study the various properties and related problem of gases.		

Paper	Subject Area		Outcomes					
	Probability	CO.69.	Introduction to probability theory along with the classical notion as well as modern notion. Idea of probability space and random variable.					
		CO.70.	Notion of probability distribution (from geometric view point also) along with examples especially discrete or continuous as well as mixed distribution. Study the idea of distribution function probability mass function probability density function along with their various properties Study some important probability distributions					
		CO.71.	Grow the concept of multidimensional probability distribution along with examples and related distribution function density function and mass functions Concept of marginal distribution and conditional distribution from physical and geometrical point of view.					
И		CO.72.	Introduction to probability expectation variance and various other characteristic related to a probability distribution. Study the concept of probability expectation of a multidimensional distribution and related characteristics					
Paper-VII		CO.73.	Study Chebyshev's inequality large number of central limit theorem.					
Pa	Statistics	CO.74.	Study the basic concept of statistics and various characteristics of statistical sample. Study sample population parameter estimation and testing a hypothe of a statistical data.					
		CO.75.	Study the basic concept of linear programming problem along with its solution using graphical method.					
	Operation Research	CO.76.	Study the concept of simplex method and its various applications to solve a LPP. Study other techniques of solving LPP such as two phase method, Big-M method.					
		CO.77.	Concept of dual problem of an LPP along with its economic interpretation and relation with the primal problem.					
		CO.78.	Study the transportation problem and assignment problem along with their mathematical formation and various technique of solving					
	Game theory	CO.79.	Study the concept of game theory along with various technique of solving.					

Paper	Subject Area		Outcomes					
		CO.80.	Idea of errors occurs in numerical calculation, grow the technique of solving a problem, i.e., algorithms and convergence problems in this methods.					
		CO.81.	Developed the concept various technical methods of finding roots of a transcendental or polynomial equations (also from geometric viewpoint). Understand these methods from analytic point of view (along with rate of convergence and error estimation).					
		CO.82.	Idea and mechanical technique (along with their convergence) of solving system of linear algebraic equations					
	Numerical Analysis	CO.83.	Developed the idea and the application of finite differences. Understand the concept of interpolation (equi-spaced and unequi-spaced). Learn about various interpolation method form analytic and application viewpoint.					
11		CO.84.	Learn some techniques of differentiation based on interpolation.					
Paper-VIII		CO.85.	Learn various techniques of numerical Integration: development of the techniques from various directions, geometric representation, error estimation and applications.					
I		CO.86.	Idea of numerical method for finding eigenvalues and eigenvectors (Power method). Idea of least square polynomial approximation of various data.					
		CO.87.	Make the concept of numerical solution technique of Ordinary Differential Equations: mechanical idea, geometry and application.					
		CO.88.	Concept of positional number systems and related problems					
		CO.89.	Developed the concept of programming languages.					
	Computer programming	CO.90.	Grow the idea and understanding of C-language and systematic study of the c-language					
		CO.91.	Solve many mathematical problems using computer (by writing programs in C-language)					

Paper	Subject Area		Outcomes		
Paper-IX	Computer added numerical methods: practical	CO.92. Developed the computer programming skill.			
		CO.93.	Better understanding of solving various numerical methods from their algorithms, flowcharts and programs.		
		CO.94.	Developed the writing capacity of various programs in c		

	PO.1.	PO.2.	PO.3.	PO.4.	PO.5.	PO.6.	PO.7.
CO.1.	✓						
CO.2.			✓				
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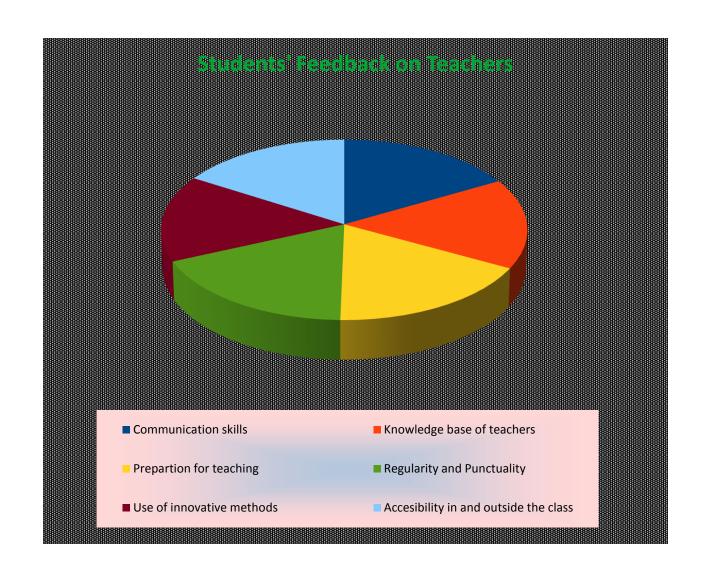
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Annexure-II

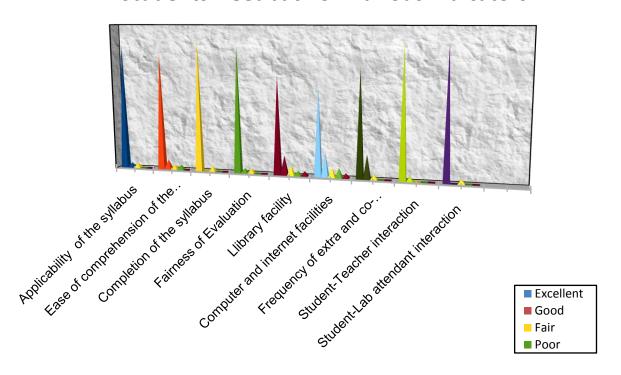
Students' Feedback (2017-18) No. of Responses

Questions	Excellent	Good	Fair	Poor	Very Poor	
Applicability of the syllabus	26	1	1	0	0	28
Ease of comprehension of the subject thought	24	2	1	1	0	28
Completion of the syllabus	27	0	1	0	0	28
Fairness of Evaluation	26	1	1	0	0	28
Llibrary facility	20	4	2	1	1	28
Computer and internet facilities	18	5	2	2	1	28
Frequency of extra and co-curricular activities	22	5	1	0	0	28
Student-Teacher interaction	27	1	0	0	0	28
Student-Lab attendant interaction	27	0	1	0	0	28

On Teachers						
Communication skills	26	1	1	0	0	28
Knowledge base of teachers	25	2	1	0	0	28
Prepartion for teaching	27	0	1	0	0	28
Regularity and Punctuality	28	0	0	0	0	28
Use of innovative methods	24	3	1	0	0	28
Accesibility in and outside the class	25	2	0	1	0	28



Students' Feedback on Various Indicators



Annexure-III

Result Analysis

Department of Mathematics

Result (2017-18)

Session	Student Appear	Student Passed	Division/Class	
2017-18	37	27	1st	10
			2 nd	17

Meeting of the faculty members of the Department of Mathematics is held today, 12.07.2018 at 2 PM to discuss about the analysis of result of final examination of 2016 and it is resolved that:

- 1. Updated information regarding the subject should be provided in the class hours.
- 2. Some special classes apart from the regular classes should be taken in certain week.
- 3. Students should be inspired to take online classes for better knowledge and perfection.
- 4. Smart classes should be taken in every week.
- 5. Analyze the previous year's questions and follow the question pattern accordingly the preparation should be started and thoroughly practice more and more question answers.
- 6. Library hours should be increased and every week a certain time for library reading season should be allotted.
- 7. The number of reference books, journals, and magazines and text books should be increased in the library.
- 8. Interdisciplinary classes should be arranged for betterment of their knowledge.
- 9. Practice more and more at home and for any doubt arises, doubt clearing classes should be arranged.

Meeting ends to the thanks of the chair.

ANNEXURE- VII

Name of the faculty got Ph.D. degree in academic year 2017-18

Faculty name: Haradhan Kundu

Date of award: 27/02/2018

Title of thesis: Investigation on some classes of warped product manifolds

Name of university: Burdwan University



List of the Research paper published in academic year 2017-18

Faculty name: HARADHAN KUNDU

International Journal					
Authors Name	Paper Name	Journal Name	Volume and pages	Publisher	Impact Factor
A.A. Shaikh and H. Kundu	On curvature properties of Som-Raychaudhurispacetime	Journal of Geometry	108 (2) , 501-515	Springer International Publishing	
A.A. Shaikh, I. Roy and H. Kundu	On some generalized recurrent manifolds	Bulletin of the Iranian Mathematical Society	43 (5) , 1209-1225	Iranian Mathematical Society	0.270
A.A. Shaikh and H. Kundu	Some curvature restricted geometric structures for projective curvature tensors	International Journal of Geometric Methods in Modern Physics	15 (09) , 1850157 (35 pages)	World Scientific	0.62



List of the papers presented in academic year 2017-18

Faculty name : Haradhan Kundu

Papers Presented at International Conference					
Name of the seminar/conference	Paper name	Organizer	Date		
International Conference on Mathematics and its Applications (ICMA – 2018)	On warped product manifolds satisfying somepseudosymmetric type conditions	Department of Mathematics, Burdwan University	February15-17, 2018		