Report on **Five Days Workshop on Joint Admission Test for Master (JAM) held on** 8th September to 13th September 2022.

Under DBT STAR COLLEGE Strengthening Scheme (Govt. of India)

Organized

by

Department of Mathematics(UG & PG)

MUGBERIA GANGADHAR MAHAVIDYALAYA

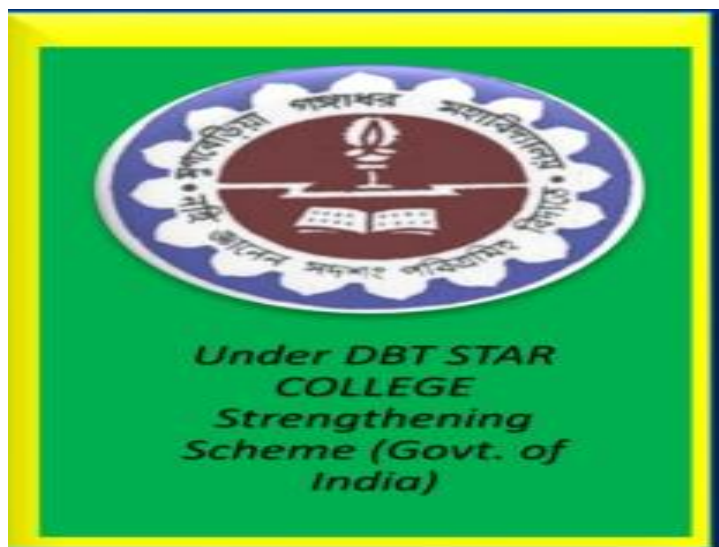P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA
NAAC Re-Accredited B+Level Govt. aided College
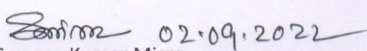CPE (Under UGC XII Plan) & NCTE Approved Institutions
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Date: 02/09/2022

NOTICE
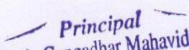
This is to hereby notify all the students that the Dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya is going to organize a **Five Days Workshop on Joint Admission Test for Master (JAM)** which will be held on & from 8th September to 13th September 2022 under DBT STAR COLLEGE Strengthening Scheme (Govt. of India). All the students and researchers are requested to be present in the said workshop.

02.09.2022

Dr. Swapan Kumar Misra

Principal

Mugberia Gangadhar Mahavidyalaya

Principal
Mugberia Gangadhar Mahavidyalaya

Mugberia Gangadhar Mahavidyalaya

Bhupatinagar, Purba Medinipur- 721425

ACCREDITED BY NAAC WITH GRADE B^+

Department of Mathematics

Mugberia Gangadhar Mahavidyalaya

Resolution of Departmental Meeting

Dated: 18/08/2022

Minutes of the Departmental meeting held on 18.08.2022

Members present:

(1) Dr. KalipadaMaity, HOD, Associate Prof. (Coordinator)

(2) Dr. Manoranjan De, Assistant Prof.

(3) Mr. Suman Giri, Sact.

(4) Mr. Debraj Manna, Sact.

(5) Mr. Bikash Panda, Sact.

(6) Mr. Hiranmoy Manna, Sact.

(7) Mr. SantuHati, Contractual teacher. (Joint Coordinator)

(8) Mr. Goutam Mandal, Contractual teacher

A short meeting was arranged at 3:15 pm regarding the workshop for joint admission test for masters (JAM) in our Department. All teachers of the department joined the meeting in time. Dr. KalipadaMaity(HOD) chaired the meeting.

Decisions taken in the meeting are:

(1) It is decided that Mr. Santu Hati will be the joint coordinator of this program and Dr.KalipadaMaity (HOD) will be program coordinator and rest teachers of the department will be the recourses persons of the program. .

(2) The course period will be scheduled from 08 September, 2022 to 13 September, 2022

(3) The participation students will be UG-5th Sem,and UG-3rd sem.

(3) **Course Syllabus**

Real Analysis:

Sequences and Series of Real Numbers: convergence of sequences, bounded and monotone sequences, Cauchy sequences, Bolzano-Weierstrass theorem, absolute convergence, tests of convergence for series – comparison test, ratio test, root test; Power series (of one real variable), radius and interval of convergence, term-wise differentiation and integration of power series.

Functions of One Real Variable: limit, continuity, intermediate value property, differentiation, Rolle's Theorem, mean value theorem, L'Hospital rule, Taylor's theorem, Taylor's series, maxima and minima, Riemann integration (definite integrals and their properties), fundamental theorem of calculus.

Multivariable Calculus and Differential Equations:

Functions of Two or Three Real Variables: limit, continuity, partial derivatives, total derivative, maxima and minima.

Integral Calculus: double and triple integrals, change of order of integration, calculating surface areas and volumes using double integrals, calculating volumes using triple integrals.

Differential Equations: Bernoulli's equation, exact differential equations, integrating factors, orthogonal trajectories, homogeneous differential equations, method of separation of variables, linear differential equations of second order with constant coefficients, method of variation of parameters, Cauchy-Euler equation.

Linear Algebra and Algebra:

Matrices: systems of linear equations, rank, nullity, rank-nullity theorem, inverse, determinant, eigenvalues, eigenvectors.

Finite Dimensional Vector Spaces: linear independence of vectors, basis, dimension, linear transformations, matrix representation, range space, null space, rank-nullity theorem.

Groups: cyclic groups, abelian groups, non-abelian groups, permutation groups, normal subgroups, quotient groups, Lagrange's theorem for finite groups, group homomorphisms.

It is decided that the course will be delivered by lecture, interaction and presentation by ppt. Available seat to register the program is 50. There is no course access fee for the student.Last date of registration for this program is 7thSeptember 2022. HOD will forward the matter for approval of this program from Academic Sub-committee. Teachers are requested to prepare a routine for smooth running of course.

The meeting comes to end with a vote of thanks.

Five Days Workshop for Joint Admission Test for Masters (JAM)

Organized by

Department of Mathematics (UG & PG)

Mugberia Gangadhar Mahavidyalaya

Date: 8th September to 13th September 2022

Pythagoras Hall, Room No: 237

Day-1

1. Dr. Swapan Kumar Misra, Principal Mugberia Gangadhar Mahavidyalaya (2.15 P.M– 2.30 P.M)
2. Dr. Kalipada Maity, Associate Professor, HOD (UG & PG), Department of Mathematics, Mugberia Gangadhar Mahavidyalaya.(2.30 P.M-3.00 P.M)
3. Mr. Bikash Panda SACT Department of Mathematics (3.00-4.00P.M)

Thursday

08/09/2022

Day-2

1. Dr. Bidhan Chandra Samanta, DBT Coordinator & Associate Prof. & HOD, Department of Chemistry (2.15 P.M- 2.30 P.M).
2. Dr Manoranjan De, Assistant Professor, Department of Mathematics (2.30 P.M- 3.30 P.M)
3. Mr. Suman Giri, SACT, Department of Mathematics. (3.30 P.M- 4.30 P.M)

Friday

09/09/2022

1	Annesha Khatua	V Sem
2	Atanu Maity	V Sem
3	Ayan Pradhan	V Sem
4	Amiyendra Maiti	V Sem
5	Amit Patra	V Sem
6	Bachaspati Mondal	V Sem
7	Bidisha Sasmal	V Sem
8	Gourangi pal	V Sem
9	Jatindranath Samanta	V Sem
10	Megha Rani Sahoo	V Sem
11	Paramita Maity	V Sem
12	Rajkumar Karan	V Sem
13	Ranajit Mandal	V Sem
14	Subhajit Giri	V Sem
15	Sonali Mandal	V Sem
16	Soumitra Das	V Sem
17	Soumyadeep Bej	V Sem
18	Subhadip Mahapatra	V Sem
19	Surajit Maity	V Sem
20	Sudeshna Maity	V Sem
21	Sudipta Mondal	V Sem
22	Suman Das	V Sem
23	Sayan Sahoo	III Sem
24	Rudra Prakash Das	III Sem
25	Sandipan Kala	III Sem

26	**Day-3**
27	1. Dr Prasenjit Ghosh, IQAC Coordinator & Associate Prof. & HOD, Department of History (2.15 P.M- 2.30 P.M)
28	2. Dr Kalipada Maity, Associate Professor, HOD (UG & PG), Department of Mathematics, Mugberia Gangadhar Mahavidyalaya (2.30 P.M – 3.30 P.M)
29	3. Mr.Debraj Manna, SACT, Department of Mathematics. (3.30 P.M- 4.30 P.M)
30	

31	Samapti Jana	III Sem

32	**Day-4**
33	1. Dr Kalipada Maity, Associate Professor, HOD (UG & PG), Department of Mathematics, (2.15 P.M – 2.30 P.M)
34	2. Mr. Goutam kumar Mondal, Contractual Teacher , Department of Mathematics (2.30 P.M – 3.30 P.M)
35	3. Mr. Hironmoy Manna SACT, Department of Mathematics (3.30 P.M- 4.30 P.M)
36	
37	**Day-5: Examination (2.15 p.m- 4.15 p.m) Santu Hati** Contractual Teacher

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Dated   20.09.2022

Signature of The Principal

Dr Swapan Kumar Misra

Principal

Mugberia Gangadhar Mahavidyalaya