



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

DBT Star College Scheme Award Recipient

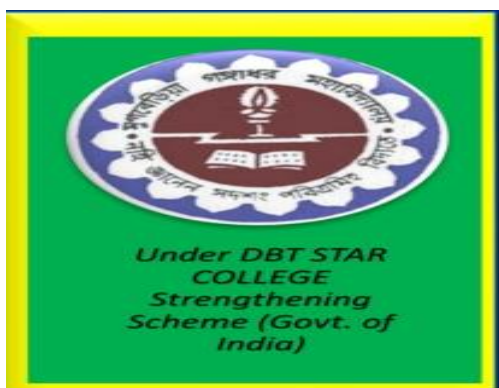
E-mail : mugberia_college@rediffmail.com // www.mugberiagangadharmahavidyalaya.ac.in

Report

On

Course period: 08th -12th November, 2021

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



Organized

by

Department of Mathematics(UG & PG)

Mugberia Gangadhar Mahavidyalaya



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Date: 17/10/2021

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 08th -12th November, 2021 under DBT STAR COLLEGE Strengthening Scheme (Govt. of India) using Google meet platform. All the students and researchers are requested to be present in the said workshop.

Swapan 17.10.21

Dr. Swapan Kumar Misra

Principal

Mugberia Gangadhar Mahavidyalaya

Principal

Mugberia Gangadhar Mahavidyalaya



Department of Mathematics
Mugberia Gangadhar Mahavidyalaya

Dated: 18/10/2021

Minutes of the Departmental meeting held on 18.10.2021

Members present:

- (1) Dr. Kalipada Maity, 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 November 2021 to 12 November, 2021

(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 7th November 2021. 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 J Admission Test for Master

Organized by

Department of Mathematics (UG & P

Mugberia Gangadhar Mahavidyalaya

Date: 8th November to 12th November 2

Pythagoras Hall, Room No: 237



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

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)

Monday

08/11/2021

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)

Tuesday

09/11/2021

Day-3

1. Dr Prasenjit Ghosh, IQAC Coordinator & Associate Prof. & HOD, Department of History (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 – 3.30 P.M)
3. Mr.Debraj Manna, SACT, Department of Mathematics. (3.30 P.M- 4.30 P.M)

Wednesday

10/11/2021

Day-4

1. Dr Kalipada Maity, Associate Professor, HOD (UG & PG),
Department of Mathematics, (2.15 P.M – 2.30 P.M)
2. Mr. Goutam kumar Mondal, Contractual Teacher ,
Department of Mathematics (2.30 P.M – 3.30 P.M)
3. Mr. Hironmoy Manna SACT, Department of Mathematics
(3.30 P.M- 4.30 P.M)

Thursday

11/11/2021

Friday

12/11/2021

Day 5: Examination (2.15 p.m- 4.15 p.m) Santu Hati Contractual Teacher

Department of Mathematics

Mugberia Gangadhar Mahavidyalaya

Sl.No.	Students Name	UG
1	Annesha Khatua	III Sem
2	Atanu Maity	III Sem
3	Ayan Pradhan	III Sem
4	Amiyendra Maiti	III Sem
5	Amit Patra	III Sem
6	Bachaspati Mondal	III Sem
7	Bidisha Sasmal	III Sem
8	Gourangi pal	III Sem
9	Jatindranath Samanta	III Sem
10	Megha Rani Sahoo	III Sem

11	Paramita Maity	III Sem
12	Rajkumar Karan	III Sem
13	Ranajit Mandal	III Sem
14	Subhajit Giri	III Sem
15	Sonali Mandal	III Sem
16	Soumitra Das	III Sem
17	Soumyadeep Bej	III Sem
18	Subhadip Mahapatra	III Sem
19	Surajit Maity	III Sem
20	Sudeshna Maity	III Sem
21	Sudipta Mondal	III Sem
22	Suman Das	III Sem

Registration

Sl.No.	Students Name	UG
23	Megha Santra	V Sem
24	Subhajit Jana	V Sem
25	Saswati Giri	V Sem
26	Anwasha Samanta	V Sem
27	Bithi Maikap	V Sem

28	Sourav Das	V Sem
29	Pabitra Mondal	V Sem
30	Nandita Jana	V Sem
31	Ranjit Pradhan	V Sem
32	Indrani Das	V Sem
33	Sabyasachi Maji	V Sem
34	Puspendu Maity	V Sem
35	Partha Pratim Maity	V Sem
36	Sourav Tripathi	V Sem
37	Subhadip Jana	V Sem
38	Dipak Paria	V Sem
39	Santu Bera	V Sem
40	Srijan Das	V Sem
41	Suryadip Barik	V Sem
42	Pradip Maity	V Sem
43	Monoj Maity	V Sem
44	Samik Das	V Sem
45	Debraj Mandal	V Sem



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Dated 20.09.2021




Signature of The Principal
Dr Swapan Kumar Misra

Principal
Mugberia Gangadhar Mahavidyalaya