



Department Of Physics Mathabhanga College

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Report of the national webinar on Basic Understanding of Science

Date of the webinar-12th January 2022 (Time- 3 pm onwards)

Online Platform-Google meet

Objective of the Webinar: To provide our young science students a platform to interact with scientist all over India and to motivate them to incline with the research field of science

The workshop in brief:

The national webinar was arranged in three session's inaugural session, technical session and concluding session. The webinar was started at 3 pm on 12th January 2022 with the welcome address given by Dr. Gurucharan Das, Associate Professor, Department of Sanskrit, Mathabhanga College. He addressed in his lecture the importance of chosen the particular dates for the national webinar to motivate the young students in the path of Swami Vivekananda. Dr. Sulagna Dutta, Teacher in charge of Mathabhanga College in her welcome address briefly thanks al the invited speakers for their gracious presence in the national webinar organized jointly by Department of Physics and Chemistry in collaboration with IQAC. The inaugural address was ended with the lecture by Teacher Council Secretary of Mathabhanga College Prof. Biswajit Barman.

The technical session began with the invited lecture given by Dr. Amarta Kumar Paul, Department of Chemistry, North eastern Hill University, Sillong on the topic "Application of Nanoparticles in Heterocycles Synthesis." In his lecture he gives details synthetic techniques of various heterocycles using nanoparticles and its application in modern field of research.

Dr. Goutam Biswas, Assistant Professor, Department of Chemistry, Coohbehar Panchanan Barma University delivered his lecture in most important topics of recent pandemic situation "Hand washing vs Hand Sanitizer: What's more effective against Coronavirus?". His lectures provide valuable information how to protect against coronavirus.

Dr. Debasish Ghosh, Assistant Professor, Department of material Science, CNMS, Jain University depicted briefly on "Fundamental of Electrochemical energy Storage". He mainly describes the work from his recent publication in international Journals where he used grapheme as electrode in super capacitors.

Dr. Sulagna, Dutta, Assistant Professor, Department of Physics, Mathabhanga College attracts attention of the audience by her wonderful lecture on the topic "Mystery of Muon Decay and Relativity". In her lecture she explained how a periodic process can b consider a clock and moving muon must possess a longer lifetime than resting ones.



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Dr Moumita Gupta, Assistant Professor Department of Physics, Charuchandra College followed her with topic "Bose-Einstein Condensation: The fifth state of Matter". She elaborates Bose-Einstein condensation

(BEC), a state of matter in which separate atoms or subatomic particle, cooled to near absolute zero, coalesce into a single quantum mechanical entity-that is, one that can be described by a wave function on a near-macroscopic scale

Dr. Shovan Mondal, Assistant Professor, Department of Chemistry, Shyamsundar College nicely explained the organic synthesis strategy of sulfur heterocycles using palladium catalyzed in his talk on the topic "Palladium-catalyzed synthesis of sulfur heterocycles and their biological significance". He mainly deals with the synthesis and biological application of Sultume and Sultone framework, the medium sized heterocycles.

Dr Babli Roy, Assistant Professor, Department of Chemistry, Tufanganj College in her presentation on the topic "The wonder material of the 21st century: Graphene and Graphene-based Materials A basic understanding" highlighted the synthesis and modern days application of Graphene and Graphene-based materials.

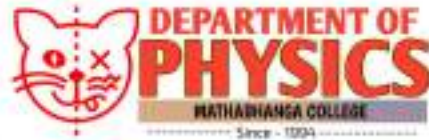
Invited talk ended with the lecture given by Dr. Manoj Majumdar, Assistant Professor, Department of Chemistry Mathabhangha College. His lecture was on the topic "Multifunctional magnetic materials of organic origin for biomedical application".

Ten students, six from Department of Chemistry, Mathabhangha College and four from Department of Physics, Mathabhangha College participated in the webinar. Their representation was judge on the basis of content and representation skill by Dr. Babli Roy and Dr. Niharendu Barman. Three students are felicitated with prizes. According to the judges best three representations are of Raj Sutradhar, Syani Debnath and Riya Bhowmick, all are from Department of Chemistry Mathabhangha College.

The vote of thanks was given by Prof. Aparna Biswas, IQAC coordinator, Mathabhangha College

Outcome: As per the feedback received from the participants webinar was very informative. The speakers have provided lot of unknown facts and information on the ongoing research and development in the Physics and Chemistry fields. Participant looks very satisfy by the representation skill of the speakers.

Weakness of the programme: We are unable to end the webinar on the stipulated time. Dr. Chanchal Mondal and Dr. Rashiul Islam unfortunately unable to deliver their lecture due to health related issue.



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Organizing Committee:

Organizing Secretary- Dr. Sulagna Dutta

Programme Coordinator- Dr. Santanu Chakravorty

Conveners-Dr. Manoj Majumdar and Dr. Rashidul Islam

